

# DDJ-GRV6

## List of MIDI messages



[MIDI channel assignment]  
MIDI channel is defined as shown below.  
0x9\*: Note  
0xB\*: Control Change (CC)

| Channel Category                          | MIDI Channel | Channel No. (Hex) |
|-------------------------------------------|--------------|-------------------|
| CH 1, DECK 1 (other than PERFORMANCE PAD) | 1            | n=0               |
| CH 2, DECK 2 (other than PERFORMANCE PAD) | 2            | n=1               |
| CH 3, DECK 3 (other than PERFORMANCE PAD) | 3            | n=2               |
| CH 4, DECK 4 (other than PERFORMANCE PAD) | 4            | n=3               |
| Effect                                    | 5            | m=4               |
| (No Use)                                  | 6            | m=5               |
| Browse, Global section                    | 7            | m=6               |
| DECK 1 PERFORMANCE PAD (without Shift)    | 8            | p=7               |
| DECK 1 PERFORMANCE PAD (with Shift)       | 9            | p=8               |
| DECK 2 PERFORMANCE PAD (without Shift)    | 10           | p=9               |
| DECK 2 PERFORMANCE PAD (with Shift)       | 11           | p=A               |
| DECK 3 PERFORMANCE PAD (without Shift)    | 12           | p=B               |
| DECK 3 PERFORMANCE PAD (with Shift)       | 13           | p=C               |
| DECK 4 PERFORMANCE PAD (without Shift)    | 14           | p=D               |
| DECK 4 PERFORMANCE PAD (with Shift)       | 15           | p=E               |
| MIDI-OUT communication                    | 16           | m=F               |

1 As a reference for MIDI assign, MIDI message sent from buttons and knobs of this controller are listed in decimal numbers and English scale. Please utilize this reference depending on the notation of your MIDI compatible software.

NOTE is a term used for MIDI to express that a key of a keyboard or a piano is pressed or your finger is released from it. CC is an abbreviation of "Control Change". Control Change is a kind of MIDI message used to communicate many kinds of control information such as sound quality and volume level. English scale uses alphabetical letters of C, D, E, F, G, A and B as well as # to indicate halftone.

| Group  | Fig. | User Interface        |        |                   |                  | MIDI assign reference 1 |           |                    |                 | MIDI-IN (to computer) |              | MIDI-OUT (from computer) |              | Details (Data 2) |              |                                                                                                                                        |
|--------|------|-----------------------|--------|-------------------|------------------|-------------------------|-----------|--------------------|-----------------|-----------------------|--------------|--------------------------|--------------|------------------|--------------|----------------------------------------------------------------------------------------------------------------------------------------|
|        |      | UI name               | +SHIFT | Trigger           | Condition (mode) | MIDI Channel (Dec)      | NOTE / CC | MIDI Data (Data 1) |                 | Status (Hex)          | Data 1 (Hex) | Data 2 (Hex)             | Status (Hex) |                  | Data 1 (Hex) | Data 2 (Hex)                                                                                                                           |
|        |      |                       |        |                   |                  |                         |           | (Dec)              | (English scale) |                       |              |                          |              |                  |              |                                                                                                                                        |
| BROWSE | B1   | SMART ROTARY SELECTOR |        | rotate            | -                | 7                       | CC        | 64                 | -               | B6                    | 40           | hh                       | -            | -                | -            | Difference count value from previous operated<br>Turn clockwise: 1 ~ 30 (0x01 ~ 0x1E)<br>Turn counterclockwise: 127 ~ 98 (0x7F ~ 0x62) |
|        |      |                       | +SHIFT |                   |                  | 7                       | CC        | 100                | -               | B6                    | 64           | hh                       | -            | -                | -            |                                                                                                                                        |
|        |      |                       |        | Tilt forward      | -                | 7                       | NOTE      | 56                 | G#3             | 96                    | 38           | hh                       | -            | -                | -            | OFF=0x00, ON=0x7F                                                                                                                      |
|        |      |                       | +SHIFT |                   |                  | 7                       | NOTE      | 57                 | A3              | 96                    | 39           | hh                       | -            | -                | -            | OFF=0x00, ON=0x7F                                                                                                                      |
|        |      |                       |        | Tilt backward     | -                | 7                       | NOTE      | 58                 | A#3             | 96                    | 3A           | hh                       | -            | -                | -            | OFF=0x00, ON=0x7F                                                                                                                      |
|        |      |                       | +SHIFT |                   |                  | 7                       | NOTE      | 59                 | B3              | 96                    | 3B           | hh                       | -            | -                | -            | OFF=0x00, ON=0x7F                                                                                                                      |
|        |      |                       |        | Tilt to the left  | -                | 7                       | NOTE      | 60                 | C4              | 96                    | 3C           | hh                       | -            | -                | -            | OFF=0x00, ON=0x7F                                                                                                                      |
|        |      |                       | +SHIFT |                   |                  | 7                       | NOTE      | 61                 | C#4             | 96                    | 3D           | hh                       | -            | -                | -            | OFF=0x00, ON=0x7F                                                                                                                      |
|        | B2   | DISCOVER              |        | Tilt to the right | -                | 7                       | NOTE      | 46                 | A#2             | 96                    | 2E           | hh                       | -            | -                | -            | OFF=0x00, ON=0x7F                                                                                                                      |
|        |      |                       | +SHIFT |                   |                  | 7                       | NOTE      | 63                 | D#4             | 96                    | 3F           | hh                       | -            | -                | -            | OFF=0x00, ON=0x7F                                                                                                                      |
|        |      |                       |        | press             | -                | 7                       | NOTE      | 65                 | F4              | 96                    | 41           | hh                       | -            | -                | -            | OFF=0x00, ON=0x7F                                                                                                                      |
|        |      |                       | +SHIFT |                   |                  | 7                       | NOTE      | 66                 | F#4             | 96                    | 42           | hh                       | -            | -                | -            | OFF=0x00, ON=0x7F                                                                                                                      |
|        | B3   | BACK                  |        |                   | -                | 7                       | NOTE      | 53                 | F3              | 96                    | 35           | hh                       | -            | -                | -            | OFF=0x00, ON=0x7F                                                                                                                      |
|        |      |                       | +SHIFT |                   |                  | 7                       | NOTE      | 104                | G#7             | 96                    | 68           | hh                       | -            | -                | -            | OFF=0x00, ON=0x7F                                                                                                                      |
|        | B4   | VIEW                  |        |                   | -                | 7                       | NOTE      | 101                | F7              | 96                    | 65           | hh                       | -            | -                | -            | OFF=0x00, ON=0x7F                                                                                                                      |
|        |      |                       | +SHIFT |                   |                  | 7                       | NOTE      | 102                | F#7             | 96                    | 66           | hh                       | -            | -                | -            | OFF=0x00, ON=0x7F                                                                                                                      |
|        |      |                       |        |                   | -                | 7                       | NOTE      | 122                | D9              | 96                    | 7A           | hh                       | -            | -                | -            | OFF=0x00, ON=0x7F                                                                                                                      |
|        |      |                       | +SHIFT |                   |                  | 7                       | NOTE      | 103                | G7              | 96                    | 67           | hh                       | -            | -                | -            | OFF=0x00, ON=0x7F                                                                                                                      |

| Group  | Fig.                                                                                                                              | User Interface                                                                                                                                                                                                                                                                                                                      |              |            |                  | MIDI assign reference 1     |                             |                    |         | MIDI-IN (to computer) |              |              | MIDI-OUT (from computer) |                                                                                                                                                                                                                                               |                                                  | Details (Data 2)                                           |                                                            |  |  |
|--------|-----------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|------------|------------------|-----------------------------|-----------------------------|--------------------|---------|-----------------------|--------------|--------------|--------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|------------------------------------------------------------|------------------------------------------------------------|--|--|
|        |                                                                                                                                   | UI name                                                                                                                                                                                                                                                                                                                             | +SHIFT       | Trigger    | Condition (mode) | MIDI Channel (Dec)          | NOTE / CC                   | MIDI Data (Data 1) |         | Status (Hex)          | Data 1 (Hex) | Data 2 (Hex) | Status (Hex)             | Data 1 (Hex)                                                                                                                                                                                                                                  | Data 2 (Hex)                                     |                                                            |                                                            |  |  |
| BROWSE | B5                                                                                                                                | PREVIEW                                                                                                                                                                                                                                                                                                                             | +SHIFT       | press      | -                | 7                           | NOTE 54                     | F#3                | 96      | 36                    | hh           | -            | -                        | -                                                                                                                                                                                                                                             | OFF=0x00, ON=0x7F                                |                                                            |                                                            |  |  |
|        | B6                                                                                                                                | LOAD 1                                                                                                                                                                                                                                                                                                                              | +SHIFT       | press      | -                | 7                           | NOTE 55                     | G3                 | 96      | 37                    | hh           | -            | -                        | -                                                                                                                                                                                                                                             | OFF=0x00, ON=0x7F                                |                                                            |                                                            |  |  |
|        |                                                                                                                                   | LOAD 2                                                                                                                                                                                                                                                                                                                              | +SHIFT       | press      | -                | 7                           | NOTE 88                     | E6                 | 96      | 58                    | hh           | -            | -                        | -                                                                                                                                                                                                                                             | OFF=0x00, ON=0x7F                                |                                                            |                                                            |  |  |
|        |                                                                                                                                   | LOAD 3                                                                                                                                                                                                                                                                                                                              | +SHIFT       | press      | -                | 7                           | NOTE 89                     | F6                 | 96      | 59                    | hh           | -            | -                        | -                                                                                                                                                                                                                                             | OFF=0x00, ON=0x7F                                |                                                            |                                                            |  |  |
|        |                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                     | +SHIFT       | press      | -                | 7                           | NOTE 72                     | C5                 | 96      | 48                    | hh           | -            | -                        | -                                                                                                                                                                                                                                             | OFF=0x00, ON=0x7F                                |                                                            |                                                            |  |  |
|        |                                                                                                                                   | LOAD 4                                                                                                                                                                                                                                                                                                                              | +SHIFT       | press      | -                | 7                           | NOTE 96                     | C7                 | 96      | 60                    | hh           | -            | -                        | -                                                                                                                                                                                                                                             | OFF=0x00, ON=0x7F                                |                                                            |                                                            |  |  |
| DECK   | *All the MIDI data assigned on the right deck are the same as those on the left deck shown below. (except for the [DECK] buttons) |                                                                                                                                                                                                                                                                                                                                     |              |            |                  |                             |                             |                    |         |                       |              |              |                          |                                                                                                                                                                                                                                               |                                                  |                                                            |                                                            |  |  |
|        | D1                                                                                                                                | PLAY/PAUSE                                                                                                                                                                                                                                                                                                                          | +SHIFT       | press      | -                | 1/2/3/4                     | NOTE 11                     | B-1                | 9n      | 0B                    | hh           | 9n           | 0B                       | hh                                                                                                                                                                                                                                            | OFF=0x00, ON=0x7F                                |                                                            |                                                            |  |  |
|        | D2                                                                                                                                | CUE                                                                                                                                                                                                                                                                                                                                 | +SHIFT       | press      | -                | 1/2/3/4                     | NOTE 12                     | C0                 | 9n      | 0C                    | hh           | 9n           | 0C                       | hh                                                                                                                                                                                                                                            | OFF=0x00, ON=0x7F                                |                                                            |                                                            |  |  |
|        | D3                                                                                                                                | Shift                                                                                                                                                                                                                                                                                                                               | -            | press      | -                | 1/2/3/4                     | NOTE 63                     | D#4                | 9n      | 3F                    | hh           | -            | -                        | -                                                                                                                                                                                                                                             | OFF=0x00, ON=0x7F                                |                                                            |                                                            |  |  |
|        | D4                                                                                                                                | JOG (Platter)                                                                                                                                                                                                                                                                                                                       | +SHIFT       | rotate     | Vinyl on         | 1/2/3/4                     | CC 34                       | -                  | Bn      | 23                    | hh           | -            | -                        | -                                                                                                                                                                                                                                             | Difference count value from previous operated    |                                                            |                                                            |  |  |
|        |                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                     |              | rotate     | Vinyl off        | 1/2/3/4                     | CC 41                       | -                  | Bn      | 29                    | hh           | -            | -                        | -                                                                                                                                                                                                                                             | Turn counterclockwise : Decreases from 63 (0x3F) |                                                            |                                                            |  |  |
|        | D4                                                                                                                                | JOG (Wheel Side)                                                                                                                                                                                                                                                                                                                    | +SHIFT       | touch      | -                | 1/2/3/4                     | NOTE 54                     | F#3                | 9n      | 36                    | hh           | -            | -                        | -                                                                                                                                                                                                                                             | OFF=0x00, ON=0x7F                                |                                                            |                                                            |  |  |
|        |                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                     |              | touch      | -                | 1/2/3/4                     | NOTE 103                    | G7                 | 9n      | 67                    | hh           | -            | -                        | -                                                                                                                                                                                                                                             | OFF=0x00, ON=0x7F                                |                                                            |                                                            |  |  |
|        | D5                                                                                                                                | SLIP                                                                                                                                                                                                                                                                                                                                | +SHIFT       | rotate     | -                | 1/2/3/4                     | CC 33                       | -                  | Bn      | 21                    | hh           | -            | -                        | -                                                                                                                                                                                                                                             | Difference count value from previous operated    |                                                            |                                                            |  |  |
|        |                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                     |              | rotate     | -                | 1/2/3/4                     | CC 38                       | -                  | Bn      | 26                    | hh           | -            | -                        | -                                                                                                                                                                                                                                             | Turn clockwise : Increases from 65 (0x41)        |                                                            |                                                            |  |  |
|        | D6                                                                                                                                | QUANTIZE                                                                                                                                                                                                                                                                                                                            | +SHIFT       | press      | -                | 1/2/3/4                     | NOTE 64                     | E4                 | 9n      | 40                    | hh           | 9n           | 40                       | hh                                                                                                                                                                                                                                            | OFF=0x00, ON=0x7F                                |                                                            |                                                            |  |  |
|        | D7                                                                                                                                | IN / 4 BEAT                                                                                                                                                                                                                                                                                                                         | +SHIFT       | press      | -                | 1/2/3/4                     | NOTE 23                     | B0                 | 9n      | 17                    | hh           | 9n           | 17                       | hh                                                                                                                                                                                                                                            | OFF=0x00, ON=0x7F                                |                                                            |                                                            |  |  |
|        | D8                                                                                                                                | OUT                                                                                                                                                                                                                                                                                                                                 | +SHIFT       | press      | -                | 1/2/3/4                     | NOTE 53                     | F3                 | 9n      | 35                    | hh           | 9n           | 35                       | hh                                                                                                                                                                                                                                            | OFF=0x00, ON=0x7F                                |                                                            |                                                            |  |  |
|        | D9                                                                                                                                | RELOOP / EXIT                                                                                                                                                                                                                                                                                                                       | +SHIFT       | press      | -                | 1/2/3/4                     | NOTE 104                    | G#7                | 9n      | 68                    | hh           | 9n           | 68                       | hh                                                                                                                                                                                                                                            | OFF=0x00, ON=0x7F                                |                                                            |                                                            |  |  |
|        | D10                                                                                                                               | CUE/LOOP CALL ◀                                                                                                                                                                                                                                                                                                                     | +SHIFT       | press      | -                | 1/2/3/4                     | NOTE 16                     | E0                 | 9n      | 10                    | hh           | 9n           | 10                       | hh                                                                                                                                                                                                                                            | OFF=0x00, ON=0x7F                                |                                                            |                                                            |  |  |
|        | D11                                                                                                                               | CUE/LOOP CALL ▶                                                                                                                                                                                                                                                                                                                     | +SHIFT       | press      | -                | 1/2/3/4                     | NOTE 76                     | E5                 | 9n      | 4C                    | hh           | 9n           | 4C                       | hh                                                                                                                                                                                                                                            | OFF=0x00, ON=0x7F                                |                                                            |                                                            |  |  |
|        | D12                                                                                                                               | MEMORY                                                                                                                                                                                                                                                                                                                              | +SHIFT       | press      | -                | 1/2/3/4                     | NOTE 20                     | G#0                | 9n      | 14                    | hh           | 9n           | 14                       | hh                                                                                                                                                                                                                                            | OFF=0x00, ON=0x7F                                |                                                            |                                                            |  |  |
|        | D13                                                                                                                               | DECK 1                                                                                                                                                                                                                                                                                                                              | +SHIFT       | press      | -                | 1/2/3/4                     | NOTE 17                     | F0                 | 9n      | 11                    | hh           | 9n           | 11                       | hh                                                                                                                                                                                                                                            | OFF=0x00, ON=0x7F                                |                                                            |                                                            |  |  |
|        | D14                                                                                                                               | DECK 2                                                                                                                                                                                                                                                                                                                              | +SHIFT       | press      | -                | 1/2/3/4                     | NOTE 119                    | B8                 | 9n      | 77                    | hh           | 9n           | 77                       | hh                                                                                                                                                                                                                                            | OFF=0x00, ON=0x7F                                |                                                            |                                                            |  |  |
|        | D15                                                                                                                               | DECK 3                                                                                                                                                                                                                                                                                                                              | +SHIFT       | press      | -                | 1/2/3/4                     | NOTE 77                     | F5                 | 9n      | 4D                    | hh           | -            | -                        | -                                                                                                                                                                                                                                             | OFF=0x00, ON=0x7F                                |                                                            |                                                            |  |  |
|        | D16                                                                                                                               | DECK 4                                                                                                                                                                                                                                                                                                                              | +SHIFT       | press      | -                | 1/2/3/4                     | NOTE 80                     | G#5                | 9n      | 50                    | hh           | -            | -                        | -                                                                                                                                                                                                                                             | OFF=0x00, ON=0x7F                                |                                                            |                                                            |  |  |
|        | D17                                                                                                                               | MASTER TEMPO                                                                                                                                                                                                                                                                                                                        | +SHIFT       | press      | -                | 1/2/3/4                     | NOTE 81                     | A5                 | 9n      | 51                    | hh           | -            | -                        | -                                                                                                                                                                                                                                             | OFF=0x00, ON=0x7F                                |                                                            |                                                            |  |  |
|        | D18                                                                                                                               | TEMPO                                                                                                                                                                                                                                                                                                                               | +SHIFT       | slide      | -                | 1/2/3/4                     | NOTE 97                     | C#7                | 9n      | 61                    | hh           | -            | -                        | -                                                                                                                                                                                                                                             | OFF=0x00, ON=0x7F                                |                                                            |                                                            |  |  |
|        | D19                                                                                                                               | BEAT SYNC                                                                                                                                                                                                                                                                                                                           | +SHIFT       | press      | -                | 1/2/3/4                     | NOTE 83                     | B5                 | 9n      | 53                    | hh           | -            | -                        | -                                                                                                                                                                                                                                             | OFF=0x00, ON=0x7F                                |                                                            |                                                            |  |  |
|        | D20                                                                                                                               | KEY SYNC                                                                                                                                                                                                                                                                                                                            | +SHIFT       | press      | -                | 1/2/3/4                     | NOTE 98                     | D7                 | 9n      | 62                    | hh           | -            | -                        | -                                                                                                                                                                                                                                             | OFF=0x00, ON=0x7F                                |                                                            |                                                            |  |  |
|        | GROOVE CIRCUIT                                                                                                                    | *All the MIDI data assigned on the right deck are the same as those on the left deck shown below.                                                                                                                                                                                                                                   |              |            |                  |                             |                             |                    |         |                       |              |              |                          |                                                                                                                                                                                                                                               |                                                  |                                                            |                                                            |  |  |
|        |                                                                                                                                   | G1                                                                                                                                                                                                                                                                                                                                  | GAIN         | -          | rotate           | -                           | 1/2/3/4                     | CC 18              | 50      | -                     | Bn           | 12           | MSB LSB                  | -                                                                                                                                                                                                                                             | -                                                | -                                                          | Min (MSB: 0x00, LSB: 0x00) ~ Max (MSB: 0x7F, LSB: 0x7F)    |  |  |
|        |                                                                                                                                   | G2                                                                                                                                                                                                                                                                                                                                  | DRUM SWAP 1  | +SHIFT     | press            | -                           | 1/2/3/4                     | NOTE 0             | C-1     | 9n                    | 00           | hh           | 9n                       | 00                                                                                                                                                                                                                                            | hh                                               | OFF=0x00, ON=0x7F                                          |                                                            |  |  |
|        |                                                                                                                                   | G3                                                                                                                                                                                                                                                                                                                                  | DRUM SWAP 2  | +SHIFT     | press            | -                           | 1/2/3/4                     | NOTE 44            | G#2     | 9n                    | 2C           | hh           | 9n                       | 2C                                                                                                                                                                                                                                            | hh                                               | OFF=0x00, ON=0x7F                                          |                                                            |  |  |
|        |                                                                                                                                   | G4                                                                                                                                                                                                                                                                                                                                  | DRUM SWAP 3  | +SHIFT     | press            | -                           | 1/2/3/4                     | NOTE 1             | C#-1    | 9n                    | 01           | hh           | 9n                       | 01                                                                                                                                                                                                                                            | hh                                               | OFF=0x00, ON=0x7F                                          |                                                            |  |  |
|        |                                                                                                                                   | G5                                                                                                                                                                                                                                                                                                                                  | DRUM SWAP 4  | +SHIFT     | press            | -                           | 1/2/3/4                     | NOTE 45            | A2      | 9n                    | 2D           | hh           | 9n                       | 2D                                                                                                                                                                                                                                            | hh                                               | OFF=0x00, ON=0x7F                                          |                                                            |  |  |
|        |                                                                                                                                   | G6                                                                                                                                                                                                                                                                                                                                  | CAPTURE      | +SHIFT     | press            | -                           | 1/2/3/4                     | NOTE 2             | D-1     | 9n                    | 02           | hh           | 9n                       | 02                                                                                                                                                                                                                                            | hh                                               | OFF=0x00, ON=0x7F                                          |                                                            |  |  |
|        |                                                                                                                                   | G7                                                                                                                                                                                                                                                                                                                                  | DRUM ROLL 1  | +SHIFT     | press            | -                           | 1/2/3/4                     | NOTE 46            | A#2     | 9n                    | 2E           | hh           | 9n                       | 2E                                                                                                                                                                                                                                            | hh                                               | OFF=0x00, ON=0x7F                                          |                                                            |  |  |
|        |                                                                                                                                   | G8                                                                                                                                                                                                                                                                                                                                  | DRUM ROLL 2  | +SHIFT     | press            | -                           | 1/2/3/4                     | NOTE 3             | D#-1    | 9n                    | 03           | hh           | 9n                       | 03                                                                                                                                                                                                                                            | hh                                               | OFF=0x00, ON=0x7F                                          |                                                            |  |  |
|        |                                                                                                                                   | G9                                                                                                                                                                                                                                                                                                                                  | DRUM ROLL 3  | +SHIFT     | press            | -                           | 1/2/3/4                     | NOTE 47            | B2      | 9n                    | 2F           | hh           | 9n                       | 2F                                                                                                                                                                                                                                            | hh                                               | OFF=0x00, ON=0x7F                                          |                                                            |  |  |
|        |                                                                                                                                   | G10                                                                                                                                                                                                                                                                                                                                 | DRUM ROLL 4  | +SHIFT     | press            | -                           | 1/2/3/4                     | NOTE 8             | G#-1    | 9n                    | 08           | hh           | 9n                       | 08                                                                                                                                                                                                                                            | hh                                               | OFF=0x00, ON=0x7F                                          |                                                            |  |  |
|        |                                                                                                                                   | G11                                                                                                                                                                                                                                                                                                                                 | DRUM RELEASE | +SHIFT     | press            | -                           | 1/2/3/4                     | NOTE 43            | G2      | 9n                    | 2B           | hh           | 9n                       | 2B                                                                                                                                                                                                                                            | hh                                               | OFF=0x00, ON=0x7F                                          |                                                            |  |  |
|        |                                                                                                                                   | MIXER <td rowspan="5">M1</td> <td rowspan="5">CROSSFADER</td> <td rowspan="5">+SHIFT</td> <td>slide</td> <td>right side → other position</td> <td>1/2/3/4</td> <td>CC 19</td> <td>-</td> <td>Bn</td> <td>13</td> <td>MSB LSB</td> <td>-</td> <td>-</td> <td>-</td> <td>Min (MSB: 0x00, LSB: 0x00) ~ Max (MSB: 0x7F, LSB: 0x7F)</td> | M1           | CROSSFADER | +SHIFT           | slide                       | right side → other position | 1/2/3/4            | CC 19   | -                     | Bn           | 13           | MSB LSB                  | -                                                                                                                                                                                                                                             | -                                                | -                                                          | Min (MSB: 0x00, LSB: 0x00) ~ Max (MSB: 0x7F, LSB: 0x7F)    |  |  |
|        |                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                     |              |            |                  | slide                       | left side → other position  | 7                  | NOTE 80 | G#5                   | 96           | 50           | hh                       | -                                                                                                                                                                                                                                             | -                                                | -                                                          | PLAY message only for Crossfader start (OFF=0x00, ON=0x7F) |  |  |
|        | slide                                                                                                                             |                                                                                                                                                                                                                                                                                                                                     |              |            |                  | other position → right side | 7                           | NOTE 81            | A5      | 96                    | 51           | hh           | -                        | -                                                                                                                                                                                                                                             | -                                                | SYNC message only for Crossfader start (OFF=0x00, ON=0x7F) |                                                            |  |  |
|        | slide                                                                                                                             |                                                                                                                                                                                                                                                                                                                                     |              |            |                  | other position → left side  | 7                           | NOTE 85            | C#6     | 96                    | 55           | hh           | -                        | -                                                                                                                                                                                                                                             | -                                                | PLAY message only for Crossfader start (OFF=0x00, ON=0x7F) |                                                            |  |  |
|        | slide                                                                                                                             |                                                                                                                                                                                                                                                                                                                                     |              |            |                  | other position → left side  | 7                           | NOTE 82            | A#5     | 96                    | 52           | hh           | -                        | -                                                                                                                                                                                                                                             | -                                                | SYNC message only for Crossfader start (OFF=0x00, ON=0x7F) |                                                            |  |  |
|        | M2                                                                                                                                |                                                                                                                                                                                                                                                                                                                                     | CH FADER     | +SHIFT     | slide            | bottom → other than bottom  | 1/2/3/4                     | CC 31              | -       | Bn                    | 05           | MSB LSB      | -                        | -                                                                                                                                                                                                                                             | -                                                | Min (MSB: 0x00, LSB: 0x00) ~ Max (MSB: 0x7F, LSB: 0x7F)    |                                                            |  |  |
|        |                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                     |              |            | slide            | other than bottom → bottom  | 1/2/3/4                     | NOTE 83            | B5      | 96                    | 53           | hh           | -                        | -                                                                                                                                                                                                                                             | -                                                | CUE message only for Crossfader start (OFF=0x00, ON=0x7F)  |                                                            |  |  |
|        |                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                     |              |            | slide            | other than bottom → bottom  | 1/2/3/4                     | NOTE 36            | C2      | 9n                    | 24           | hh           | -                        | -                                                                                                                                                                                                                                             | -                                                | Min (MSB: 0x00, LSB: 0x00) ~ Max (MSB: 0x7F, LSB: 0x7F)    |                                                            |  |  |
|        |                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                     |              |            | slide            | other than bottom → bottom  | 1/2/3/4                     | NOTE 19            | -       | Bn                    | 13           | MSB LSB      | -                        | -                                                                                                                                                                                                                                             | -                                                | Min at bottom end, Max at top end                          |                                                            |  |  |
|        |                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                     |              |            | slide            | other than bottom → bottom  | 1/2/3/4                     | NOTE 102           | F#7     | 9n                    | 86           | hh           | -                        | -                                                                                                                                                                                                                                             | -                                                | PLAY message only for CH fader start (OFF=0x00, ON=0x7F)   |                                                            |  |  |
|        | M3                                                                                                                                |                                                                                                                                                                                                                                                                                                                                     | TRIM         | +SHIFT     | rotate           | -                           | 1/2/3/4                     | CC 93              | A#5     | 9n                    | 50           | hh           | -                        | -                                                                                                                                                                                                                                             | -                                                | SYNC message only for CH fader start (OFF=0x00, ON=0x7F)   |                                                            |  |  |
|        |                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                     |              |            | rotate           | -                           | 1/2/3/4                     | NOTE 82            | A#5     | 9n                    | 52           | hh           | -                        | -                                                                                                                                                                                                                                             | -                                                | CUE message only for CH fader start (OFF=0x00, ON=0x7F)    |                                                            |  |  |
|        |                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                     |              |            | rotate           | -                           | 1/2/3/4                     | CC 4               | -       | Bn                    | 04           | MSB LSB      | -                        | -                                                                                                                                                                                                                                             | -                                                | Min (MSB: 0x00, LSB: 0x00) ~ Max (MSB: 0x7F, LSB: 0x7F)    |                                                            |  |  |
| rotate |                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                     |              |            | -                | 1/2/3/4                     | CC 36                       | -                  | Bn      | 24                    | MSB LSB      | -            | -                        | -                                                                                                                                                                                                                                             | When turned fully counterclockwise : Min         |                                                            |                                                            |  |  |
| rotate |                                                                                                                                   | -                                                                                                                                                                                                                                                                                                                                   |              |            | 1/2/3/4          | CC 7                        | -                           | Bn                 | 07      | MSB LSB               | -            | -            | -                        | When turned fully clockwise : Max                                                                                                                                                                                                             |                                                  |                                                            |                                                            |  |  |
| M4     | EQ HI                                                                                                                             | +SHIFT                                                                                                                                                                                                                                                                                                                              | rotate       | -          | 1/2/3/4          | CC 39                       | -                           | Bn                 | 27      | MSB LSB               | -            | -            | -                        | Min (MSB: 0x00, LSB: 0x00) ~ Max (MSB: 0x7F, LSB: 0x7F)                                                                                                                                                                                       |                                                  |                                                            |                                                            |  |  |
|        |                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                     | rotate       | -          | 1/2/3/4          | CC 11                       | -                           | Bn                 | 0B      | MSB LSB               | -            | -            | -                        | When turned fully counterclockwise : Min                                                                                                                                                                                                      |                                                  |                                                            |                                                            |  |  |
|        |                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                     | rotate       | -          | 1/2/3/4          | CC 43                       | -                           | Bn                 | 2B      | MSB LSB               | -            | -            | -                        | When turned fully clockwise : Max                                                                                                                                                                                                             |                                                  |                                                            |                                                            |  |  |
|        |                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                     | rotate       | -          | 1/2/3/4          | CC 15                       | -                           | Bn                 | 0F      | MSB LSB               | -            | -            | -                        | Min (MSB: 0x00, LSB: 0x00) ~ Max (MSB: 0x7F, LSB: 0x7F)                                                                                                                                                                                       |                                                  |                                                            |                                                            |  |  |
|        |                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                     | rotate       | -          | 1/2/3/4          | CC 47                       | -                           | Bn                 | 2F      | MSB LSB               | -            | -            | -                        | When turned fully counterclockwise : Min                                                                                                                                                                                                      |                                                  |                                                            |                                                            |  |  |
| M5     | EQ MID                                                                                                                            | +SHIFT                                                                                                                                                                                                                                                                                                                              | rotate       | -          | 1/2/3/4          | NOTE 84                     | C#6                         | 9n                 | 54      | hh                    | 9n           | 54           | hh                       | OFF=0x00, ON=0x7F                                                                                                                                                                                                                             |                                                  |                                                            |                                                            |  |  |
|        |                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                     | rotate       | -          | 1/2/3/4          | NOTE 57                     | A3                          | 9n                 | 39      | hh                    | 9n           | 39           | hh                       | OFF=0x00, ON=0x7F                                                                                                                                                                                                                             |                                                  |                                                            |                                                            |  |  |
|        |                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                     | rotate       | -          | 1/2/3/4          | NOTE 8                      | -                           | B6                 | 08      | MSB LSB               | -            | -            | -                        | Min (MSB: 0x00, LSB: 0x00) ~ Max (MSB: 0x7F, LSB: 0x7F)                                                                                                                                                                                       |                                                  |                                                            |                                                            |  |  |
|        |                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                     | rotate       | -          | 1/2/3/4          | NOTE 99                     | D#7                         | 96                 | 63      | hh                    | -            | -            | -                        | OFF=0x00, ON=0x7F                                                                                                                                                                                                                             |                                                  |                                                            |                                                            |  |  |
|        |                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                     | rotate       | -          | 1/2/3/4          | NOTE 98                     | D7                          | 96                 | 62      | hh                    | -            | -            | -                        | OFF=0x00, ON=0x7F                                                                                                                                                                                                                             |                                                  |                                                            |                                                            |  |  |
| M6     | MASTER LEVEL                                                                                                                      | +SHIFT                                                                                                                                                                                                                                                                                                                              | rotate       | -          | 1/2/3/4          | CC 9                        | -                           | B6                 | 09      | MSB LSB               | -            | -            | -                        | Min (MSB: 0x00, LSB: 0x00) ~ Max (MSB: 0x7F, LSB: 0x7F)                                                                                                                                                                                       |                                                  |                                                            |                                                            |  |  |
|        |                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                     | rotate       | -          | 1/2/3/4          | CC 41                       | -                           | B6                 | 09      | MSB LSB               | -            | -            | -                        | OFF=0x00, ON=0x7F                                                                                                                                                                                                                             |                                                  |                                                            |                                                            |  |  |
|        |                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                     | rotate       | -          | 1/2/3/4          | CC 5                        | -                           | B6                 | 05      | MSB LSB               | -            | -            | -                        | Min (MSB: 0x00, LSB: 0x00) ~ Max (MSB: 0x7F, LSB: 0x7F)                                                                                                                                                                                       |                                                  |                                                            |                                                            |  |  |
|        |                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                     | rotate       | -          | 1/2/3/4          | CC 37                       | -                           | B6                 | 25      | MSB LSB               | -            | -            | -                        | When turned fully counterclockwise : Min                                                                                                                                                                                                      |                                                  |                                                            |                                                            |  |  |
|        |                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                     | rotate       | -          | 1/2/3/4          | CC 5                        | -                           | B6                 | 05      | MSB LSB               | -            | -            | -                        | When turned fully clockwise : Max                                                                                                                                                                                                             |                                                  |                                                            |                                                            |  |  |
| M7     | CH CUE                                                                                                                            | +SHIFT                                                                                                                                                                                                                                                                                                                              | press        | -          | 1/2/3/4          | NOTE 109                    | C#8                         | 96                 | 6D      | hh                    | -            | -            | -                        | STEREO = 0x00, MONO = 0x7F                                                                                                                                                                                                                    |                                                  |                                                            |                                                            |  |  |
|        |                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                     | press        | -          | 1/2/3/4          | NOTE 13                     | -                           | B6                 | 0D      | MSB LSB               | -            | -            | -                        | Min (MSB: 0x00, LSB: 0x00) ~ Max (MSB: 0x7F, LSB: 0x7F)                                                                                                                                                                                       |                                                  |                                                            |                                                            |  |  |
|        |                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                     | press        | -          | 1/2/3/4          | NOTE 12                     | -                           | B6                 | 0C      | MSB LSB               | -            | -            | -                        | Min (MSB: 0x00, LSB: 0x00) ~ Max (MSB: 0x7F, LSB: 0x7F)                                                                                                                                                                                       |                                                  |                                                            |                                                            |  |  |
|        |                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                     | press        | -          | 1/2/3/4          | NOTE 44                     | -                           | B6                 | 2C      | MSB LSB               | -            | -            | -                        | Min (MSB: 0x00, LSB: 0x00) ~ Max (MSB: 0x7F, LSB: 0x7F)                                                                                                                                                                                       |                                                  |                                                            |                                                            |  |  |
|        |                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                     | press        | -          | 1/2/3/4          | NOTE 5                      | -                           | B6                 | 05      | MSB LSB               | -            | -            | -                        | Min (MSB: 0x00, LSB: 0x00) ~ Max (MSB: 0x7F, LSB: 0x7F)                                                                                                                                                                                       |                                                  |                                                            |                                                            |  |  |
| M8     | HEADPHONES LEVEL                                                                                                                  | +SHIFT                                                                                                                                                                                                                                                                                                                              | rotate       | -          | 1/2/3/4          | CC 2                        | -                           | -                  | -       | -                     | Bn           | 02           | hh                       | See below for MIDI OUT.<br>hh: 0x77-0x7F: Light red, two oranges and two greens,<br>0x65-0x76: Light two oranges and two greens,<br>0x57-0x64: Light one orange and two greens,<br>0x41-0x56: Light two greens,<br>0x26-0x40: Light one green |                                                  |                                                            |                                                            |  |  |
|        |                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                     | rotate       | -          | 1/2/3/4          | CC 13                       | -                           | B6                 | 0D      | MSB LSB               | -            | -            | -                        | Min (MSB: 0x00, LSB: 0x00) ~ Max (MSB: 0x7F, LSB: 0x7F)                                                                                                                                                                                       |                                                  |                                                            |                                                            |  |  |
|        |                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                     | rotate       | -          | 1/2/3/4          | CC 45                       | -                           | B6                 | 2D      | MSB LSB               | -            | -            | -                        | Min (MSB: 0x00, LSB: 0x00) ~ Max (MSB: 0x7F, LSB: 0x7F)                                                                                                                                                                                       |                                                  |                                                            |                                                            |  |  |
|        |                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                     | rotate       | -          | 1/2/3/4          | CC 12                       | -                           | B6                 | 0C      | MSB LSB               | -            | -            | -                        | Min (MSB: 0x00, LSB: 0x00) ~ Max (MSB: 0x7F, LSB: 0x7F)                                                                                                                                                                                       |                                                  |                                                            |                                                            |  |  |
|        |                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                     | rotate       | -          | 1/2/3/4          | CC 44                       | -                           | B6                 | 2C      | MSB LSB               | -            | -            | -                        | Min (MSB: 0x00, LSB: 0x00) ~ Max (MSB: 0x7F, LSB: 0x7F)                                                                                                                                                                                       |                                                  |                                                            |                                                            |  |  |
| M9     | HEADPHONES MIX                                                                                                                    | +SHIFT                                                                                                                                                                                                                                                                                                                              | rotate       | -          | 1/2/3/4          | CC 5                        | -                           | B6                 | 05      | MSB LSB               | -            | -            | -                        | Min (MSB: 0x00, LSB: 0x00) ~ Max (MSB: 0x7F, LSB: 0x7F)                                                                                                                                                                                       |                                                  |                                                            |                                                            |  |  |
|        |                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                     | rotate       | -          | 1/2/3/4          | CC 37                       | -                           | B6                 | 25      | MSB LSB               | -            | -            | -                        | When turned fully counterclockwise : Min                                                                                                                                                                                                      |                                                  |                                                            |                                                            |  |  |
|        |                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                     | rotate       | -          | 1/2/3/4          | CC 5                        | -                           | B6                 | 05      | MSB LSB               | -            | -            | -                        | When turned fully clockwise : Max                                                                                                                                                                                                             |                                                  |                                                            |                                                            |  |  |
|        |                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                     | rotate       | -          | 1/2/3/4          | CC 37                       | -                           | B6                 | 25      | MSB LSB               | -            | -            | -                        | Min (MSB: 0x00, LSB: 0x00) ~ Max (MSB: 0x7F, LSB: 0x7F)                                                                                                                                                                                       |                                                  |                                                            |                                                            |  |  |
|        |                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                     | rotate       | -          | 1/2/3/4          | CC 5                        | -                           | B6                 | 05      | MSB LSB               | -            | -            | -                        | When turned fully counterclockwise : Min                                                                                                                                                                                                      |                                                  |                                                            |                                                            |  |  |
| M10    | MIC LEVEL                                                                                                                         | +SHIFT                                                                                                                                                                                                                                                                                                                              | rotate       | -          | 1/2/3/4          | CC 37                       | -                           | B6                 | 25      | MSB LSB               | -            | -            | -                        | When turned fully clockwise : Max                                                                                                                                                                                                             |                                                  |                                                            |                                                            |  |  |
|        |                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                     | rotate       | -          | 1/2/3/4          | CC 5                        | -                           | B6                 | 05      | MSB LSB               | -            | -            | -                        | Min (MSB: 0x00, LSB: 0x00) ~ Max (MSB: 0x7F, LSB: 0x7F)                                                                                                                                                                                       |                                                  |                                                            |                                                            |  |  |
|        |                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                     | rotate       | -          | 1/2/3/4          | CC 37                       | -                           | B6                 | 25      | MSB LSB               | -            | -            | -                        | When turned fully counterclockwise : Min                                                                                                                                                                                                      |                                                  |                                                            |                                                            |  |  |
|        |                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                     | rotate       | -          | 1/2/3/4          | CC 5                        | -                           | B6                 | 05      | MSB LSB               | -            | -            | -                        | When turned fully clockwise : Max                                                                                                                                                                                                             |                                                  |                                                            |                                                            |  |  |
|        |                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                     | rotate       | -          | 1/2/3/4          | CC 37                       | -                           | B6                 | 25      | MSB LSB               | -            | -            | -                        | Min (MSB: 0x00, LSB: 0x00) ~ Max (MSB: 0x7F, LSB: 0x7F)                                                                                                                                                                                       |                                                  |                                                            |                                                            |  |  |
| M11    | CH LEVEL METER                                                                                                                    | +SHIFT                                                                                                                                                                                                                                                                                                                              | rotate       | -          | 1/2/3/4          | CC 2                        | -                           | -                  | -       | -                     | Bn           | 02           | hh                       | See below for MIDI OUT.<br>hh: 0x77-0x7F: Light red, two oranges and two greens,<br>0x65-0x76: Light two oranges and two greens,<br>0x57-0x64: Light one orange and two greens,<br>0x41-0x56: Light two greens,<br>0x26-0x40: Light one green |                                                  |                                                            |                                                            |  |  |
|        |                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                     | rotate       | -          | 1/2/3/4          | CC 13                       | -                           | B6                 | 0D      | MSB LSB               | -            | -            | -                        | Min (MSB: 0x00, LSB: 0x00) ~ Max (MSB: 0x7F, LSB: 0x7F)                                                                                                                                                                                       |                                                  |                                                            |                                                            |  |  |
|        |                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                     | rotate       | -          | 1/2/3/4          | CC 45                       | -                           | B6                 | 2D      | MSB LSB               | -            | -            | -                        | Min (MSB: 0x00, LSB: 0x00) ~ Max (MSB: 0x7F, LSB: 0x7F)                                                                                                                                                                                       |                                                  |                                                            |                                                            |  |  |
|        |                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                     | rotate       | -          | 1/2/3/4          | CC 12                       | -                           | B6                 | 0C      | MSB LSB               | -            | -            | -                        | Min (MSB: 0x00, LSB: 0x00) ~ Max (MSB: 0x7F, LSB: 0x7F)                                                                                                                                                                                       |                                                  |                                                            |                                                            |  |  |
|        |                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                     | rotate       | -          | 1/2/3/4          | CC 44                       | -                           | B6                 | 2C      | MSB LSB               | -            | -            | -                        | Min (MSB: 0x00, LSB: 0x00) ~ Max (MSB: 0x7F, LSB: 0x7F)                                                                                                                                                                                       |                                                  |                                                            |                                                            |  |  |
| M12    | STEREO = 0x00, MONO = 0x7F                                                                                                        | +SHIFT                                                                                                                                                                                                                                                                                                                              | rotate       | -          | 1/2/3/4          | CC 5                        | -                           | B6                 | 05      | MSB LSB               | -            | -            | -                        | Min (MSB: 0x00, LSB: 0x00) ~ Max (MSB: 0x7F, LSB: 0x7F)                                                                                                                                                                                       |                                                  |                                                            |                                                            |  |  |
|        |                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                     | rotate       | -          | 1/2/3/4          | CC 37                       | -                           | B6                 | 25      | MSB LSB               | -            | -            | -                        | When turned fully counterclockwise : Min                                                                                                                                                                                                      |                                                  |                                                            |                                                            |  |  |
|        |                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                     | rotate       | -          | 1/2/3/4          | CC 5                        | -                           | B6                 | 05      | MSB LSB               | -            | -            | -                        | When turned fully clockwise : Max                                                                                                                                                                                                             |                                                  |                                                            |                                                            |  |  |
|        |                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                     | rotate       | -          | 1/2/3/4          | CC 37                       | -                           | B6                 | 25      | MSB LSB               | -            | -            | -                        | Min (MSB: 0x00, LSB: 0x00) ~ Max (MSB: 0x7F, LSB: 0x7F)                                                                                                                                                                                       |                                                  |                                                            |                                                            |  |  |
|        |                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                     | rotate       | -          | 1/2/3/4          | CC 5                        | -                           | B6                 | 05      | MSB LSB               | -            | -            | -                        | When turned fully counterclockwise : Min                                                                                                                                                                                                      |                                                  |                                                            |                                                            |  |  |
| M13    | STEREO = 0x00, MONO = 0x7F                                                                                                        | +SHIFT                                                                                                                                                                                                                                                                                                                              | rotate       | -          | 1/2/3/4          | CC 37                       | -                           | B6                 | 25      | MSB LSB               | -            | -            | -                        | When turned fully clockwise : Max                                                                                                                                                                                                             |                                                  |                                                            |                                                            |  |  |
|        |                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                     | rotate       | -          | 1/2/3/4          | CC 5                        | -                           | B6                 | 05      | MSB LSB               | -            | -            | -                        |                                                                                                                                                                                                                                               |                                                  |                                                            |                                                            |  |  |

| Group  | Fig.  | User Interface                 |        |                |                     | MIDI assign reference    |              |                    |                    | MIDI-IN<br>(to computer) |                 |                 | MIDI-OUT<br>(from computer) |                 |                   | Details (Data 2)  |                                                                               |                                                                                                                                      |
|--------|-------|--------------------------------|--------|----------------|---------------------|--------------------------|--------------|--------------------|--------------------|--------------------------|-----------------|-----------------|-----------------------------|-----------------|-------------------|-------------------|-------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|
|        |       | UI name                        | +SHIFT | Trigger        | Condition<br>(mode) | MIDI<br>Channel<br>(Dec) | NOTE<br>/ CC | MIDI Data (Data 1) |                    | Status<br>(Hex)          | Data 1<br>(Hex) | Data 2<br>(Hex) | Status<br>(Hex)             | Data 1<br>(Hex) | Data 2<br>(Hex)   |                   |                                                                               |                                                                                                                                      |
|        |       |                                |        |                |                     |                          |              | (Dec)              | (English<br>scale) |                          |                 |                 |                             |                 |                   |                   |                                                                               |                                                                                                                                      |
| EFFECT | F1    | SOUND COLOR FX (CH 1)          | -      | rotate         | -                   | 7                        | CC           | 23                 | 55                 | -                        | B6              | 17              | 37                          | MSB<br>LSB      | -                 | -                 | -                                                                             | Min (MSB:0x00, LSB:0x00) ~ Max (MSB:0x7F, LSB:0x7F)<br>When turned fully counterclockwise : Min<br>When turned fully clockwise : Max |
|        |       | SOUND COLOR FX (CH 2)          | -      | rotate         | -                   | 7                        | CC           | 24                 | 56                 | -                        | B6              | 18              | 38                          | MSB<br>LSB      | -                 | -                 | -                                                                             |                                                                                                                                      |
|        |       | SOUND COLOR FX (CH 3)          | -      | rotate         | -                   | 7                        | CC           | 25                 | 57                 | -                        | B6              | 19              | 39                          | MSB<br>LSB      | -                 | -                 | -                                                                             |                                                                                                                                      |
|        |       | SOUND COLOR FX (CH 4)          | -      | rotate         | -                   | 7                        | CC           | 26                 | 58                 | -                        | B6              | 1A              | 3A                          | MSB<br>LSB      | -                 | -                 | -                                                                             |                                                                                                                                      |
|        | F2    | SOUND COLOR FX ON/OFF          | +SHIFT | press          | -                   | 7                        | NOTE         | 0                  | C-1                | 96                       | 00              | hh              | 96                          | 00              | hh                | OFF=0x00, ON=0x7F | OFF=0x00, ON=0x7F                                                             |                                                                                                                                      |
|        | F3    | BEAT ◀                         | +SHIFT | press          | -                   | 5                        | NOTE         | 74                 | D5                 | 94                       | 4A              | hh              | -                           | -               | -                 | -                 | -                                                                             |                                                                                                                                      |
|        | F4    | BEAT ▶                         | +SHIFT | press          | -                   | 5                        | NOTE         | 75                 | D#5                | 94                       | 4B              | hh              | -                           | -               | -                 | -                 | -                                                                             | NoteOff=0x00, NoteOn=0x7F                                                                                                            |
|        | F5    | BEAT FX SELECT (DELAY)         | -      | rotate         | -                   | 5                        | NOTE         | 32                 | G#1                | 94                       | 20              | hh              | -                           | -               | -                 | -                 | -                                                                             | OFF=0x00, ON=0x7F                                                                                                                    |
|        |       | BEAT FX SELECT (ECHO)          | -      | rotate         | -                   | 5                        | NOTE         | 33                 | A1                 | 94                       | 21              | hh              | -                           | -               | -                 | -                 | -                                                                             | OFF=0x00, ON=0x7F                                                                                                                    |
|        |       | BEAT FX SELECT (LOW CUT ECHO)  | -      | rotate         | -                   | 5                        | NOTE         | 34                 | A#1                | 94                       | 22              | hh              | -                           | -               | -                 | -                 | -                                                                             | OFF=0x00, ON=0x7F                                                                                                                    |
|        |       | BEAT FX SELECT (SPIRAL)        | -      | rotate         | -                   | 5                        | NOTE         | 35                 | B1                 | 94                       | 23              | hh              | -                           | -               | -                 | -                 | -                                                                             | OFF=0x00, ON=0x7F                                                                                                                    |
|        |       | BEAT FX SELECT (HELIUM)        | -      | rotate         | -                   | 5                        | NOTE         | 36                 | C2                 | 94                       | 24              | hh              | -                           | -               | -                 | -                 | -                                                                             | OFF=0x00, ON=0x7F                                                                                                                    |
|        |       | BEAT FX SELECT (REVERB)        | -      | rotate         | -                   | 5                        | NOTE         | 37                 | C#2                | 94                       | 25              | hh              | -                           | -               | -                 | -                 | -                                                                             | OFF=0x00, ON=0x7F                                                                                                                    |
|        |       | BEAT FX SELECT (FLANGER)       | -      | rotate         | -                   | 5                        | NOTE         | 38                 | D2                 | 94                       | 26              | hh              | -                           | -               | -                 | -                 | -                                                                             | OFF=0x00, ON=0x7F                                                                                                                    |
|        |       | BEAT FX SELECT (PHASER)        | -      | rotate         | -                   | 5                        | NOTE         | 39                 | D#2                | 94                       | 27              | hh              | -                           | -               | -                 | -                 | -                                                                             | OFF=0x00, ON=0x7F                                                                                                                    |
|        |       | BEAT FX SELECT (FILTER)        | -      | rotate         | -                   | 5                        | NOTE         | 40                 | E2                 | 94                       | 28              | hh              | -                           | -               | -                 | -                 | -                                                                             | OFF=0x00, ON=0x7F                                                                                                                    |
|        |       | BEAT FX SELECT (TRANS)         | -      | rotate         | -                   | 5                        | NOTE         | 41                 | F2                 | 94                       | 29              | hh              | -                           | -               | -                 | -                 | -                                                                             | OFF=0x00, ON=0x7F                                                                                                                    |
|        |       | BEAT FX SELECT (PITCH)         | -      | rotate         | -                   | 5                        | NOTE         | 42                 | F#2                | 94                       | 2A              | hh              | -                           | -               | -                 | -                 | -                                                                             | OFF=0x00, ON=0x7F                                                                                                                    |
|        |       | BEAT FX SELECT (ROLL)          | -      | rotate         | -                   | 5                        | NOTE         | 43                 | G2                 | 94                       | 2B              | hh              | -                           | -               | -                 | -                 | -                                                                             | OFF=0x00, ON=0x7F                                                                                                                    |
|        |       | BEAT FX SELECT (MOBIUS SAW)    | -      | rotate         | -                   | 5                        | NOTE         | 44                 | G#2                | 94                       | 2C              | hh              | -                           | -               | -                 | -                 | -                                                                             | OFF=0x00, ON=0x7F                                                                                                                    |
|        |       | BEAT FX SELECT (MOBIUS TRI)    | -      | rotate         | -                   | 5                        | NOTE         | 45                 | A2                 | 94                       | 2D              | hh              | -                           | -               | -                 | -                 | -                                                                             | OFF=0x00, ON=0x7F                                                                                                                    |
|        | F6    | BEAT FX CH SELECT 1 (CH 1)     | +SHIFT | press          | -                   | 5                        | NOTE         | 16                 | E0                 | 94                       | 10              | hh              | -                           | -               | -                 | -                 | -                                                                             | OFF=0x00, ON=0x7F                                                                                                                    |
|        |       | BEAT FX CH SELECT 2 (CH 2)     | +SHIFT | press          | -                   | 5                        | NOTE         | 24                 | C-1                | 94                       | 1B              | hh              | -                           | -               | -                 | -                 | -                                                                             | OFF=0x00, ON=0x7F                                                                                                                    |
|        |       | BEAT FX CH SELECT 3 (CH 3)     | +SHIFT | press          | -                   | 5                        | NOTE         | 17                 | F0                 | 94                       | 11              | hh              | -                           | -               | -                 | -                 | -                                                                             | OFF=0x00, ON=0x7F                                                                                                                    |
|        |       | BEAT FX CH SELECT 4 (CH 4)     | +SHIFT | press          | -                   | 5                        | NOTE         | 25                 | C#1                | 94                       | 19              | hh              | -                           | -               | -                 | -                 | -                                                                             | OFF=0x00, ON=0x7F                                                                                                                    |
|        |       | BEAT FX CH SELECT SP (SAMPLER) | +SHIFT | press          | -                   | 5                        | NOTE         | 18                 | F#0                | 94                       | 12              | hh              | -                           | -               | -                 | -                 | -                                                                             | OFF=0x00, ON=0x7F                                                                                                                    |
|        |       | BEAT FX CH SELECT MST (MASTER) | +SHIFT | press          | -                   | 5                        | NOTE         | 26                 | D-1                | 94                       | 1A              | hh              | -                           | -               | -                 | -                 | -                                                                             | OFF=0x00, ON=0x7F                                                                                                                    |
|        |       |                                | +SHIFT | press          | -                   | 5                        | NOTE         | 19                 | G0                 | 94                       | 13              | hh              | -                           | -               | -                 | -                 | -                                                                             | OFF=0x00, ON=0x7F                                                                                                                    |
|        |       |                                | +SHIFT | press          | -                   | 5                        | NOTE         | 27                 | D#1                | 94                       | 1B              | hh              | -                           | -               | -                 | -                 | -                                                                             | OFF=0x00, ON=0x7F                                                                                                                    |
|        | F7    | LEVEL/DEPTH                    | -      | rotate         | -                   | 5                        | CC           | 2                  | 34                 | -                        | B4              | 02              | 22                          | MSB<br>LSB      | -                 | -                 | -                                                                             | Min (MSB:0x00, LSB:0x00) ~ Max (MSB:0x7F, LSB:0x7F)<br>When turned fully counterclockwise : Min<br>When turned fully clockwise : Max |
|        | F8    | BEAT FX ON/OFF                 | +SHIFT | press          | -                   | 5                        | NOTE         | 71                 | B4                 | 94                       | 47              | hh              | 94                          | 47              | hh                | OFF=0x00, ON=0x7F | OFF=0x00, ON=0x7F                                                             |                                                                                                                                      |
|        | F9    | BEAT FX Beat indicator         | -      | -              | -                   | 5                        | CC           | 100                | -                  | -                        | -               | -               | -                           | B4              | 64                | hh                | hh:03=1/4, 04=1/2, 21=3/4, 05=1, 06=2(light 1 and 4), 07=4, 08=8, 09=16,0A=32 |                                                                                                                                      |
|        | PAD   | P1                             | PAD 1  | +SHIFT         | press               | Hot Cue mode             | 8/10/12/14   | NOTE               | 0                  | C-1                      | 9p              | 00              | hh                          | 9p              | 00                | hh                | OFF=0x00, ON=0x7F                                                             |                                                                                                                                      |
|        |       |                                |        | +SHIFT         | press               | Stems mode               | 8/10/12/14   | NOTE               | 16                 | E0                       | 9p              | 10              | hh                          | 9p              | 10                | hh                | OFF=0x00, ON=0x7F                                                             |                                                                                                                                      |
|        |       |                                |        | +SHIFT         | press               | Beat Jump mode           | 8/10/12/14   | NOTE               | 32                 | G#1                      | 9p              | 20              | hh                          | 9p              | 20                | hh                | OFF=0x00, ON=0x7F                                                             |                                                                                                                                      |
|        |       |                                |        | +SHIFT         | press               | Sampler mode             | 8/10/12/14   | NOTE               | 32                 | G#1                      | 9p              | 20              | hh                          | 9p              | 20                | hh                | OFF=0x00, ON=0x7F                                                             |                                                                                                                                      |
|        |       |                                |        | +SHIFT         | press               | Keyboard mode            | 8/10/12/14   | NOTE               | 48                 | C3                       | 9p              | 30              | hh                          | 9p              | 30                | hh                | OFF=0x00, ON=0x7F                                                             |                                                                                                                                      |
|        |       |                                |        | +SHIFT         | press               | Keyboard mode            | 8/10/12/14   | NOTE               | 48                 | C3                       | 9p              | 30              | hh                          | 9p              | 30                | hh                | OFF=0x00, ON=0x7F                                                             |                                                                                                                                      |
|        |       |                                |        | +SHIFT         | press               | Pad FX mode              | 8/10/12/14   | NOTE               | 64                 | E4                       | 9p              | 40              | hh                          | 9p              | 40                | hh                | OFF=0x00, ON=0x7F                                                             |                                                                                                                                      |
|        |       |                                |        | +SHIFT         | press               | Pad FX mode              | 8/10/12/14   | NOTE               | 64                 | E4                       | 9p              | 40              | hh                          | 9p              | 40                | hh                | OFF=0x00, ON=0x7F                                                             |                                                                                                                                      |
| +SHIFT |       |                                |        | press          | Beat Loop mode      | 8/10/12/14               | NOTE         | 80                 | G#5                | 9p                       | 50              | hh              | 9p                          | 50              | hh                | OFF=0x00, ON=0x7F |                                                                               |                                                                                                                                      |
| +SHIFT |       |                                |        | press          | Beat Loop mode      | 8/10/12/14               | NOTE         | 80                 | G#5                | 9p                       | 50              | hh              | 9p                          | 50              | hh                | OFF=0x00, ON=0x7F |                                                                               |                                                                                                                                      |
| P2     |       | PAD 2                          | +SHIFT | press          | Key Shift mode      | 8/10/12/14               | NOTE         | 96                 | C7                 | 9p                       | 60              | hh              | 9p                          | 60              | hh                | OFF=0x00, ON=0x7F |                                                                               |                                                                                                                                      |
|        |       |                                | +SHIFT | press          | Key Shift mode      | 8/10/12/14               | NOTE         | 96                 | C7                 | 9p                       | 60              | hh              | 9p                          | 60              | hh                | OFF=0x00, ON=0x7F |                                                                               |                                                                                                                                      |
|        |       |                                | +SHIFT | press          | Hot Cue mode        | 8/10/12/14               | NOTE         | 112                | E8                 | 9p                       | 70              | hh              | 9p                          | 70              | hh                | OFF=0x00, ON=0x7F |                                                                               |                                                                                                                                      |
|        |       |                                | +SHIFT | press          | Hot Cue mode        | 8/10/12/14               | NOTE         | 112                | E8                 | 9p                       | 70              | hh              | 9p                          | 70              | hh                | OFF=0x00, ON=0x7F |                                                                               |                                                                                                                                      |
|        |       |                                | +SHIFT | press          | Stems mode          | 8/10/12/14               | NOTE         | 1                  | C#-1               | 9p                       | 01              | hh              | 9p                          | 01              | hh                | OFF=0x00, ON=0x7F |                                                                               |                                                                                                                                      |
|        |       |                                | +SHIFT | press          | Stems mode          | 8/10/12/14               | NOTE         | 17                 | F0                 | 9p                       | 11              | hh              | 9p                          | 11              | hh                | OFF=0x00, ON=0x7F |                                                                               |                                                                                                                                      |
|        |       |                                | +SHIFT | press          | Beat Jump mode      | 8/10/12/14               | NOTE         | 17                 | F0                 | 9p                       | 11              | hh              | 9p                          | 11              | hh                | OFF=0x00, ON=0x7F |                                                                               |                                                                                                                                      |
|        |       |                                | +SHIFT | press          | Beat Jump mode      | 8/10/12/14               | NOTE         | 33                 | A1                 | 9p                       | 21              | hh              | 9p                          | 21              | hh                | OFF=0x00, ON=0x7F |                                                                               |                                                                                                                                      |
|        |       |                                | +SHIFT | press          | Sampler mode        | 8/10/12/14               | NOTE         | 33                 | A1                 | 9p                       | 21              | hh              | 9p                          | 21              | hh                | OFF=0x00, ON=0x7F |                                                                               |                                                                                                                                      |
|        |       |                                | +SHIFT | press          | Sampler mode        | 8/10/12/14               | NOTE         | 49                 | C#3                | 9p                       | 31              | hh              | 9p                          | 31              | hh                | OFF=0x00, ON=0x7F |                                                                               |                                                                                                                                      |
| P3     |       | PAD 3                          | +SHIFT | press          | Keyboard mode       | 8/10/12/14               | NOTE         | 49                 | C#3                | 9p                       | 31              | hh              | 9p                          | 31              | hh                | OFF=0x00, ON=0x7F |                                                                               |                                                                                                                                      |
|        |       |                                | +SHIFT | press          | Keyboard mode       | 8/10/12/14               | NOTE         | 49                 | C#3                | 9p                       | 31              | hh              | 9p                          | 31              | hh                | OFF=0x00, ON=0x7F |                                                                               |                                                                                                                                      |
|        |       |                                | +SHIFT | press          | Pad FX mode         | 8/10/12/14               | NOTE         | 65                 | F4                 | 9p                       | 41              | hh              | 9p                          | 41              | hh                | OFF=0x00, ON=0x7F |                                                                               |                                                                                                                                      |
|        |       |                                | +SHIFT | press          | Pad FX mode         | 8/10/12/14               | NOTE         | 65                 | F4                 | 9p                       | 41              | hh              | 9p                          | 41              | hh                | OFF=0x00, ON=0x7F |                                                                               |                                                                                                                                      |
|        |       |                                | +SHIFT | press          | Beat Loop mode      | 8/10/12/14               | NOTE         | 81                 | A5                 | 9p                       | 51              | hh              | 9p                          | 51              | hh                | OFF=0x00, ON=0x7F |                                                                               |                                                                                                                                      |
|        |       |                                | +SHIFT | press          | Beat Loop mode      | 8/10/12/14               | NOTE         | 81                 | A5                 | 9p                       | 51              | hh              | 9p                          | 51              | hh                | OFF=0x00, ON=0x7F |                                                                               |                                                                                                                                      |
|        |       |                                | +SHIFT | press          | Key Shift mode      | 8/10/12/14               | NOTE         | 97                 | C#7                | 9p                       | 61              | hh              | 9p                          | 61              | hh                | OFF=0x00, ON=0x7F |                                                                               |                                                                                                                                      |
|        |       |                                | +SHIFT | press          | Key Shift mode      | 8/10/12/14               | NOTE         | 97                 | C#7                | 9p                       | 61              | hh              | 9p                          | 61              | hh                | OFF=0x00, ON=0x7F |                                                                               |                                                                                                                                      |
|        |       |                                | +SHIFT | press          | Hot Cue mode        | 8/10/12/14               | NOTE         | 113                | F8                 | 9p                       | 71              | hh              | 9p                          | 71              | hh                | OFF=0x00, ON=0x7F |                                                                               |                                                                                                                                      |
|        |       |                                | +SHIFT | press          | Hot Cue mode        | 8/10/12/14               | NOTE         | 113                | F8                 | 9p                       | 71              | hh              | 9p                          | 71              | hh                | OFF=0x00, ON=0x7F |                                                                               |                                                                                                                                      |
| P4     |       | PAD 4                          | +SHIFT | press          | Stems mode          | 8/10/12/14               | NOTE         | 2                  | D-1                | 9p                       | 02              | hh              | 9p                          | 02              | hh                | OFF=0x00, ON=0x7F |                                                                               |                                                                                                                                      |
|        |       |                                | +SHIFT | press          | Stems mode          | 8/10/12/14               | NOTE         | 2                  | D-1                | 9p                       | 02              | hh              | 9p                          | 02              | hh                | OFF=0x00, ON=0x7F |                                                                               |                                                                                                                                      |
|        |       |                                | +SHIFT | press          | Beat Jump mode      | 8/10/12/14               | NOTE         | 18                 | F#0                | 9p                       | 12              | hh              | 9p                          | 12              | hh                | OFF=0x00, ON=0x7F |                                                                               |                                                                                                                                      |
|        |       |                                | +SHIFT | press          | Beat Jump mode      | 8/10/12/14               | NOTE         | 18                 | F#0                | 9p                       | 12              | hh              | 9p                          | 12              | hh                | OFF=0x00, ON=0x7F |                                                                               |                                                                                                                                      |
|        |       |                                | +SHIFT | press          | Sampler mode        | 8/10/12/14               | NOTE         | 34                 | A#1                | 9p                       | 22              | hh              | 9p                          | 22              | hh                | OFF=0x00, ON=0x7F |                                                                               |                                                                                                                                      |
|        |       |                                | +SHIFT | press          | Sampler mode        | 8/10/12/14               | NOTE         | 34                 | A#1                | 9p                       | 22              | hh              | 9p                          | 22              | hh                | OFF=0x00, ON=0x7F |                                                                               |                                                                                                                                      |
|        |       |                                | +SHIFT | press          | Keyboard mode       | 8/10/12/14               | NOTE         | 50                 | D3                 | 9p                       | 32              | hh              | 9p                          | 32              | hh                | OFF=0x00, ON=0x7F |                                                                               |                                                                                                                                      |
|        |       |                                | +SHIFT | press          | Keyboard mode       | 8/10/12/14               | NOTE         | 50                 | D3                 | 9p                       | 32              | hh              | 9p                          | 32              | hh                | OFF=0x00, ON=0x7F |                                                                               |                                                                                                                                      |
|        |       |                                | +SHIFT | press          | Pad FX mode         | 8/10/12/14               | NOTE         | 66                 | F#4                | 9p                       | 42              | hh              | 9p                          | 42              | hh                | OFF=0x00, ON=0x7F |                                                                               |                                                                                                                                      |
|        |       |                                | +SHIFT | press          | Pad FX mode         | 8/10/12/14               | NOTE         | 66                 | F#4                | 9p                       | 42              | hh              | 9p                          | 42              | hh                | OFF=0x00, ON=0x7F |                                                                               |                                                                                                                                      |
| P5     | PAD 5 | +SHIFT                         | press  | Beat Loop mode | 8/10/12/14          | NOTE                     | 82           | A#5                | 9p                 | 52                       | hh              | 9p              | 52                          | hh              | OFF=0x00, ON=0x7F |                   |                                                                               |                                                                                                                                      |
|        |       | +SHIFT                         | press  | Beat Loop mode | 8/10/12/14          | NOTE                     | 82           | A#5                | 9p                 | 52                       | hh              | 9p              | 52                          | hh              | OFF=0x00, ON=0x7F |                   |                                                                               |                                                                                                                                      |
|        |       | +SHIFT                         | press  | Key Shift mode | 8/10/12/14          | NOTE                     | 98           | D7                 | 9p                 | 62                       | hh              | 9p              | 62                          | hh              | OFF=0x00, ON=0x7F |                   |                                                                               |                                                                                                                                      |
|        |       | +SHIFT                         | press  | Key Shift mode | 8/10/12/14          | NOTE                     | 98           | D7                 | 9p                 | 62                       | hh              | 9p              | 62                          | hh              | OFF=0x00, ON=0x7F |                   |                                                                               |                                                                                                                                      |
|        |       | +SHIFT                         | press  | Hot Cue mode   | 8/10/12/14          | NOTE                     | 114          | F#8                | 9p                 | 72                       | hh              | 9p              | 72                          | hh              | OFF=0x00, ON=0x7F |                   |                                                                               |                                                                                                                                      |
|        |       | +SHIFT                         | press  | Hot Cue mode   | 8/10/12/14          | NOTE                     | 114          | F#8                | 9p                 | 72                       | hh              | 9p              | 72                          | hh              | OFF=0x00, ON=0x7F |                   |                                                                               |                                                                                                                                      |
|        |       | +SHIFT                         | press  | Stems mode     | 8/10/12/14          | NOTE                     | 3            | D#-1               | 9p                 | 03                       | hh              | 9p              | 03                          | hh              | OFF=0x00, ON=0x7F |                   |                                                                               |                                                                                                                                      |
|        |       | +SHIFT                         | press  | Stems mode     | 8/10/12/14          | NOTE                     | 3            | D#-1               | 9p                 | 03                       | hh              | 9p              | 03                          | hh              | OFF=0x00, ON=0x7F |                   |                                                                               |                                                                                                                                      |
|        |       | +SHIFT                         | press  | Beat Jump mode | 8/10/12/14          | NOTE                     | 19           | G0                 | 9p                 | 13                       | hh              | 9p              | 13                          | hh              | OFF=0x00, ON=0x7F |                   |                                                                               |                                                                                                                                      |
|        |       | +SHIFT                         | press  | Beat Jump mode | 8/10/12/14          | NOTE                     | 19           | G0                 | 9p                 | 13                       | hh              | 9p              | 13                          | hh              | OFF=0x00, ON=0x7F |                   |                                                                               |                                                                                                                                      |

| Group | Fig.           | User Interface |          |          |                     | MIDI assign reference 1  |              |                    | MIDI-IN<br>(to computer) |                 |                 | MIDI-OUT<br>(from computer) |                 |                   | Details (Data 2)  |                 |
|-------|----------------|----------------|----------|----------|---------------------|--------------------------|--------------|--------------------|--------------------------|-----------------|-----------------|-----------------------------|-----------------|-------------------|-------------------|-----------------|
|       |                | UI name        | +SHIFT   | Trigger  | Condition<br>(mode) | MIDI<br>Channel<br>(Dec) | NOTE<br>/ CC | MIDI Data (Data 1) |                          | Status<br>(Hex) | Data 1<br>(Hex) | Data 2<br>(Hex)             | Status<br>(Hex) | Data 1<br>(Hex)   |                   | Data 2<br>(Hex) |
|       |                |                |          |          |                     |                          |              | (Dec)              | (English<br>scale)       |                 |                 |                             |                 |                   |                   |                 |
| PAD   | P6             | PAD 6          | +SHIFT   | press    | Hot Cue mode        | 8/10/12/14               | NOTE 5       | F-1                | 9p                       | 05              | hh              | 9p                          | 05              | hh                | OFF=0x00, ON=0x7F |                 |
|       |                |                |          |          |                     | 9/11/13/15               | NOTE 5       | F-1                | 9p                       | 05              | hh              | 9p                          | 05              | hh                | OFF=0x00, ON=0x7F |                 |
|       |                |                |          |          | Stems mode          | 8/10/12/14               | NOTE 21      | A0                 | 9p                       | 15              | hh              | 9p                          | 15              | hh                | OFF=0x00, ON=0x7F |                 |
|       |                |                |          |          |                     | 9/11/13/15               | NOTE 21      | A0                 | 9p                       | 15              | hh              | 9p                          | 15              | hh                | OFF=0x00, ON=0x7F |                 |
|       |                |                |          |          | Beat Jump mode      | 8/10/12/14               | NOTE 37      | C#2                | 9p                       | 25              | hh              | 9p                          | 25              | hh                | OFF=0x00, ON=0x7F |                 |
|       |                |                |          |          |                     | 9/11/13/15               | NOTE 37      | C#2                | 9p                       | 25              | hh              | 9p                          | 25              | hh                | OFF=0x00, ON=0x7F |                 |
|       |                |                |          |          | Sampler mode        | 8/10/12/14               | NOTE 53      | F3                 | 9p                       | 35              | hh              | 9p                          | 35              | hh                | OFF=0x00, ON=0x7F |                 |
|       |                |                |          |          |                     | 9/11/13/15               | NOTE 53      | F3                 | 9p                       | 35              | hh              | 9p                          | 35              | hh                | OFF=0x00, ON=0x7F |                 |
|       |                |                |          |          | Keyboard mode       | 8/10/12/14               | NOTE 69      | A4                 | 9p                       | 45              | hh              | 9p                          | 45              | hh                | OFF=0x00, ON=0x7F |                 |
|       |                |                |          |          |                     | 9/11/13/15               | NOTE 69      | A4                 | 9p                       | 45              | hh              | 9p                          | 45              | hh                | OFF=0x00, ON=0x7F |                 |
|       |                |                |          |          | Pad FX mode         | 8/10/12/14               | NOTE 85      | C#6                | 9p                       | 55              | hh              | 9p                          | 55              | hh                | OFF=0x00, ON=0x7F |                 |
|       |                |                |          |          |                     | 9/11/13/15               | NOTE 85      | C#6                | 9p                       | 55              | hh              | 9p                          | 55              | hh                | OFF=0x00, ON=0x7F |                 |
|       | P7             | PAD 7          | +SHIFT   | press    | Beat Loop mode      | 8/10/12/14               | NOTE 101     | F7                 | 9p                       | 65              | hh              | 9p                          | 65              | hh                | OFF=0x00, ON=0x7F |                 |
|       |                |                |          |          |                     | 9/11/13/15               | NOTE 101     | F7                 | 9p                       | 65              | hh              | 9p                          | 65              | hh                | OFF=0x00, ON=0x7F |                 |
|       |                |                |          |          | Key Shift mode      | 8/10/12/14               | NOTE 117     | A8                 | 9p                       | 75              | hh              | 9p                          | 75              | hh                | OFF=0x00, ON=0x7F |                 |
|       |                |                |          |          |                     | 9/11/13/15               | NOTE 117     | A8                 | 9p                       | 75              | hh              | 9p                          | 75              | hh                | OFF=0x00, ON=0x7F |                 |
|       |                |                |          |          | Hot Cue mode        | 8/10/12/14               | NOTE 6       | F#-1               | 9p                       | 06              | hh              | 9p                          | 06              | hh                | OFF=0x00, ON=0x7F |                 |
|       |                |                |          |          |                     | 9/11/13/15               | NOTE 6       | F#-1               | 9p                       | 06              | hh              | 9p                          | 06              | hh                | OFF=0x00, ON=0x7F |                 |
|       |                |                |          |          | Stems mode          | 8/10/12/14               | NOTE 22      | A#0                | 9p                       | 16              | hh              | 9p                          | 16              | hh                | OFF=0x00, ON=0x7F |                 |
|       |                |                |          |          |                     | 9/11/13/15               | NOTE 22      | A#0                | 9p                       | 16              | hh              | 9p                          | 16              | hh                | OFF=0x00, ON=0x7F |                 |
|       |                |                |          |          | Beat Jump mode      | 8/10/12/14               | NOTE 38      | D2                 | 9p                       | 26              | hh              | 9p                          | 26              | hh                | OFF=0x00, ON=0x7F |                 |
|       |                |                |          |          |                     | 9/11/13/15               | NOTE 38      | D2                 | 9p                       | 26              | hh              | 9p                          | 26              | hh                | OFF=0x00, ON=0x7F |                 |
|       |                |                |          |          | Sampler mode        | 8/10/12/14               | NOTE 54      | F#3                | 9p                       | 36              | hh              | 9p                          | 36              | hh                | OFF=0x00, ON=0x7F |                 |
|       |                |                |          |          | P8                  | PAD 8                    | +SHIFT       | press              |                          | 8/10/12/14      | NOTE 54         | F#3                         | 9p              | 36                | hh                | 9p              |
|       |                | 9/11/13/15     | NOTE 54  | F#3      |                     |                          |              |                    | 9p                       | 36              | hh              | 9p                          | 36              | hh                | OFF=0x00, ON=0x7F |                 |
|       | Keyboard mode  | 8/10/12/14     | NOTE 70  | A#4      |                     |                          |              |                    | 9p                       | 46              | hh              | 9p                          | 46              | hh                | OFF=0x00, ON=0x7F |                 |
|       |                | 9/11/13/15     | NOTE 70  | A#4      |                     |                          |              |                    | 9p                       | 46              | hh              | 9p                          | 46              | hh                | OFF=0x00, ON=0x7F |                 |
|       | Pad FX mode    | 8/10/12/14     | NOTE 86  | D6       |                     |                          |              |                    | 9p                       | 56              | hh              | 9p                          | 56              | hh                | OFF=0x00, ON=0x7F |                 |
|       |                | 9/11/13/15     | NOTE 86  | D6       |                     |                          |              |                    | 9p                       | 56              | hh              | 9p                          | 56              | hh                | OFF=0x00, ON=0x7F |                 |
|       | Beat Loop mode | 8/10/12/14     | NOTE 102 | F#7      |                     |                          |              |                    | 9p                       | 66              | hh              | 9p                          | 66              | hh                | OFF=0x00, ON=0x7F |                 |
|       |                | 9/11/13/15     | NOTE 102 | F#7      |                     |                          |              |                    | 9p                       | 66              | hh              | 9p                          | 66              | hh                | OFF=0x00, ON=0x7F |                 |
|       | Key Shift mode | 8/10/12/14     | NOTE 118 | A#8      |                     |                          |              |                    | 9p                       | 76              | hh              | 9p                          | 76              | hh                | OFF=0x00, ON=0x7F |                 |
|       |                | 9/11/13/15     | NOTE 118 | A#8      |                     |                          |              |                    | 9p                       | 76              | hh              | 9p                          | 76              | hh                | OFF=0x00, ON=0x7F |                 |
|       | Hot Cue mode   | 8/10/12/14     | NOTE 7   | G-1      |                     |                          |              |                    | 9p                       | 07              | hh              | 9p                          | 07              | hh                | OFF=0x00, ON=0x7F |                 |
|       |                | 9/11/13/15     | NOTE 7   | G-1      |                     |                          |              |                    | 9p                       | 07              | hh              | 9p                          | 07              | hh                | OFF=0x00, ON=0x7F |                 |
|       | P9             | HOT CUE MODE   | +SHIFT   | press    | Stems mode          | 8/10/12/14               | NOTE 23      | B0                 | 9p                       | 17              | hh              | 9p                          | 17              | hh                | OFF=0x00, ON=0x7F |                 |
|       |                |                |          |          |                     | 9/11/13/15               | NOTE 23      | B0                 | 9p                       | 17              | hh              | 9p                          | 17              | hh                | OFF=0x00, ON=0x7F |                 |
|       |                |                |          |          | Beat Jump mode      | 8/10/12/14               | NOTE 39      | D#2                | 9p                       | 27              | hh              | 9p                          | 27              | hh                | OFF=0x00, ON=0x7F |                 |
|       |                |                |          |          |                     | 9/11/13/15               | NOTE 39      | D#2                | 9p                       | 27              | hh              | 9p                          | 27              | hh                | OFF=0x00, ON=0x7F |                 |
|       |                |                |          |          | Sampler mode        | 8/10/12/14               | NOTE 55      | G3                 | 9p                       | 37              | hh              | 9p                          | 37              | hh                | OFF=0x00, ON=0x7F |                 |
|       |                |                |          |          |                     | 9/11/13/15               | NOTE 55      | G3                 | 9p                       | 37              | hh              | 9p                          | 37              | hh                | OFF=0x00, ON=0x7F |                 |
|       |                |                |          |          | Keyboard mode       | 8/10/12/14               | NOTE 71      | B4                 | 9p                       | 47              | hh              | 9p                          | 47              | hh                | OFF=0x00, ON=0x7F |                 |
|       |                |                |          |          |                     | 9/11/13/15               | NOTE 71      | B4                 | 9p                       | 47              | hh              | 9p                          | 47              | hh                | OFF=0x00, ON=0x7F |                 |
|       |                |                |          |          | Pad FX mode         | 8/10/12/14               | NOTE 87      | D#6                | 9p                       | 57              | hh              | 9p                          | 57              | hh                | OFF=0x00, ON=0x7F |                 |
|       |                |                |          |          |                     | 9/11/13/15               | NOTE 87      | D#6                | 9p                       | 57              | hh              | 9p                          | 57              | hh                | OFF=0x00, ON=0x7F |                 |
|       |                |                |          |          | Beat Loop mode      | 8/10/12/14               | NOTE 103     | G7                 | 9p                       | 67              | hh              | 9p                          | 67              | hh                | OFF=0x00, ON=0x7F |                 |
|       |                |                |          |          |                     | 9/11/13/15               | NOTE 103     | G7                 | 9p                       | 67              | hh              | 9p                          | 67              | hh                | OFF=0x00, ON=0x7F |                 |
|       | P10            | STEMS MODE     | +SHIFT   | press    | Key Shift mode      | 8/10/12/14               | NOTE 119     | B8                 | 9p                       | 77              | hh              | 9p                          | 77              | hh                | OFF=0x00, ON=0x7F |                 |
|       |                |                |          |          | 9/11/13/15          | NOTE 119                 | B8           | 9p                 | 77                       | hh              | 9p              | 77                          | hh              | OFF=0x00, ON=0x7F |                   |                 |
| -     |                |                |          |          | 1/2/3/4             | NOTE 27                  | D#1          | 9n                 | 1B                       | hh              | 9n              | 1B                          | hh              | OFF=0x00, ON=0x7F |                   |                 |
| P11   | BEAT JUMP MODE | +SHIFT         | press    | -        | 1/2/3/4             | NOTE 105                 | A7           | 9n                 | 69                       | hh              | 9n              | 69                          | hh              | OFF=0x00, ON=0x7F |                   |                 |
|       |                |                |          | -        | 1/2/3/4             | NOTE 30                  | F#1          | 9n                 | 1E                       | hh              | 9n              | 1E                          | hh              | OFF=0x00, ON=0x7F |                   |                 |
|       |                |                |          | -        | 1/2/3/4             | NOTE 107                 | B7           | 9n                 | 6B                       | hh              | 9n              | 6B                          | hh              | OFF=0x00, ON=0x7F |                   |                 |
| P12   | SAMPLER MODE   | +SHIFT         | press    | -        | 1/2/3/4             | NOTE 32                  | G#1          | 9n                 | 20                       | hh              | 9n              | 20                          | hh              | OFF=0x00, ON=0x7F |                   |                 |
|       |                |                |          | -        | 1/2/3/4             | NOTE 109                 | C#8          | 9n                 | 6D                       | hh              | 9n              | 6D                          | hh              | OFF=0x00, ON=0x7F |                   |                 |
|       |                |                |          | -        | 1/2/3/4             | NOTE 34                  | A#1          | 9n                 | 22                       | hh              | 9n              | 22                          | hh              | OFF=0x00, ON=0x7F |                   |                 |
|       | long press     | -              | 1/2/3/4  | NOTE 111 | D#8                 | 9n                       | 6F           | hh                 | 9n                       | 6F              | hh              | OFF=0x00, ON=0x7F           |                 |                   |                   |                 |
|       |                | -              | 1/2/3/4  | NOTE 121 | C#9                 | 9n                       | 79           | hh                 | 9n                       | 79              | hh              | OFF=0x00, ON=0x7F           |                 |                   |                   |                 |

MIDI-OUT

| Group                | Communication<br>name  | Function                | MIDI assign reference 1  |              |                    |                    | MIDI-IN<br>(to computer) |                 |                 | MIDI-OUT<br>(from computer) |                 |                 | Details (Data 2)  |
|----------------------|------------------------|-------------------------|--------------------------|--------------|--------------------|--------------------|--------------------------|-----------------|-----------------|-----------------------------|-----------------|-----------------|-------------------|
|                      |                        |                         | MIDI<br>Channel<br>(Dec) | NOTE<br>/ CC | MIDI Data (Data 1) |                    | Status<br>(Hex)          | Data 1<br>(Hex) | Data 2<br>(Hex) | Status<br>(Hex)             | Data 1<br>(Hex) | Data 2<br>(Hex) |                   |
|                      |                        |                         |                          |              | (Dec)              | (English<br>scale) |                          |                 |                 |                             |                 |                 |                   |
| Illumination Control | LOAD (DECK 1)          | Track Load Illumination | 16                       | NOTE         | 0                  | C-1                | -                        | -               | -               | 9F                          | 00              | hh              | OFF=0x00, ON=0x7F |
|                      | LOAD (DECK 2)          |                         | 16                       | NOTE         | 1                  | C#-1               | -                        | -               | -               | 9F                          | 01              | hh              | OFF=0x00, ON=0x7F |
|                      | LOAD (DECK 3)          |                         | 16                       | NOTE         | 2                  | D-1                | -                        | -               | -               | 9F                          | 02              | hh              | OFF=0x00, ON=0x7F |
|                      | LOAD (DECK 4)          |                         | 16                       | NOTE         | 3                  | D#-1               | -                        | -               | -               | 9F                          | 03              | hh              | OFF=0x00, ON=0x7F |
|                      | JOG indicator (DECK 1) | JOG Illumination        | 16                       | CC           | 0                  | -                  | -                        | -               | -               | BF                          | 00              | hh              | hh : 0x00-0x48    |
|                      | JOG indicator (DECK 2) |                         | 16                       | CC           | 1                  | -                  | -                        | -               | -               | BF                          | 01              | hh              | hh : 0x00-0x48    |
|                      | JOG indicator (DECK 3) |                         | 16                       | CC           | 2                  | -                  | -                        | -               | -               | BF                          | 02              | hh              | hh : 0x00-0x48    |
|                      | JOG indicator (DECK 4) |                         | 16                       | CC           | 3                  | -                  | -                        | -               | -               | BF                          | 03              | hh              | hh : 0x00-0x48    |
|                      |                        |                         |                          |              |                    |                    |                          |                 |                 |                             |                 |                 |                   |
|                      |                        |                         |                          |              |                    |                    |                          |                 |                 |                             |                 |                 |                   |