



## Hercules P32 DJ MIDI COMMAND LIST

Rev1.0



- **GLOBAL MIXER → Midi Channel 1 (0x B0 XX / 0x 90 XX)**

MIDI INPUT			
MIDI CONTROL	MESSAGE	MESSAGE TYPE	VALUE DESCRIPTION
XFADER	B0 01 Value	Analog – Coarse (128 values)	00 > 7F : Full Left > Full Right
BROWSE_ENC	B0 02 Value	Incremental – Coarse (24values)	7F > 40 : CCW Slow>Fast 01 > 3F : CW Slow>Fast
BROWSE_BTN	90 01 Value	Button-Toggling Output	"7F" : Pressed – "00" : Released
REC	90 02 Value	Button-Toggling Output	"7F" : Pressed – "00" : Released
SLIP	90 03 Value	Button-Toggling Output	"7F" : Pressed – "00" : Released
VOL_UP	90 04 Value	Button-Toggling Output	"7F" : Pressed – "00" : Released
VOL_DOWN	90 05 Value	Button-Toggling Output	"7F" : Pressed – "00" : Released

MIDI OUTPUT		
MIDI CONTROL	MESSAGE	VALUE DESCRIPTION
XFADER		
BROWSE_ENC		
BROWSE_BTN		
REC	90 02 Value	00 : OFF 7F: ON "7F" : Pressed – "00" : Released
SLIP	90 03 Value	1 : OFF 7F: ON "7F" : Pressed – "00" : Released
VOL_UP		
VOL_DOWN		

- **GLOBAL MIXER + 'SHIFT' → Midi Channel 4 (0x B3 XX / 0x 93 XX)**

MIDI INPUT			
MIDI CONTROL	MESSAGE	MESSAGE TYPE	VALUE DESCRIPTION
XFADER	B0 01 Value	Analog – Coarse (128 values)	00 > 7F : Full Left > Full Right
BROWSE_ENC	B3 02 Value	Incremental – Coarse (24values)	7F > 40 : CCW Slow>Fast – 01 > 3F : CW Slow>Fast
BROWSE_BTN	93 01 Value	Button-Toggling Output	"7F" : Pressed – "00" : Released
REC	90 02 Value	Button-Toggling Output	"7F" : Pressed – "00" : Released
SLIP	90 03 Value	Button-Toggling Output	"7F" : Pressed – "00" : Released
VOL_UP	N/A	Change audio routing in Headphones	Channel 1-2
VOL_DOWN	N/A	Change audio routing in Headphones	Channel 3-4

MIDI OUTPUT		
MIDI CONTROL	MESSAGE	VALUE DESCRIPTION
XFADER		
BROWSE_ENC		
BROWSE_BTN		
REC	90 02 Value	00 : OFF 7F: ON "7F" : Pressed – "00" : Released
SLIP	90 03 Value	1 : OFF 7F: ON "7F" : Pressed – "00" : Released
VOL_UP		
VOL_DOWN		



- **DECK COMMAND LIST**

**IMPORTANT = All DECKS have the same command list only the MIDI channel changes as defined below:**

**Deck A → Midi Channel 2 (0x B1 XX / 0x 91 XX)**

**Deck A + 'SHIFT' → Midi Channel 5 (0x B4 XX / 0x 94 XX)**

**DeckB → Midi Channel 3 (0x B2 XX / 0x 92 XX)**

**DeckB + 'SHIFT' → Midi Channel 6 (0x B5 XX / 0x 95 XX)**

MIDI INPUT				
MIDI CONTROL	MESSAGE	NOTE	MESSAGE TYPE	VALUE DESCRIPTION
VOL_A	B1 01 Value		Analog – Coarse (128 values)	00 > 7F : Full Left > Full Right
LOW_A	B1 02 Value		Analog – Coarse (128 values)	00 > 7F : Full Left > Full Right
MID_A	B1 03 Value		Analog – Coarse (128 values)	00 > 7F : Full Left > Full Right
HIGH_A	B1 04 Value		Analog – Coarse (128 values)	00 > 7F : Full Left > Full Right
FILTER_A	B1 05 Value		Incremental – Coarse (24 values)	7F > 40 : CCW Slow>Fast 01 > 3F : CW Slow>Fast
FX1_LVL_A	B1 06 Value		Analog – Coarse (128 values)	00 > 7F : Full Left > Full Right
FX2_LVL_A	B1 07 Value		Analog – Coarse (128 values)	00 > 7F : Full Left > Full Right
FX3_LVL_A	B1 08 Value		Analog – Coarse (128 values)	00 > 7F : Full Left > Full Right
DRY_WET_A	B1 09 Value		Analog – Coarse (128 values)	00 > 7F : Full Left > Full Right
LOOP_ENC_A	B1 0A Value		Incremental – Coarse (24 values)	7F > 40 : CCW Slow>Fast 01 > 3F : CW Slow>Fast
LOOP_BTN_A	91 01 Value		Button-Toggling Output	"7F" : Pressed – "00" : Released
FILTER_ON_A	91 02 Value		Button-Toggling Output	"7F" : Pressed – "00" : Released
FX1_ON_A	91 03 Value		Button-Toggling Output	"7F" : Pressed – "00" : Released
FX2_ON_A	91 04 Value		Button-Toggling Output	"7F" : Pressed – "00" : Released
FX3_ON_A	91 05 Value		Button-Toggling Output	"7F" : Pressed – "00" : Released
MACROFX_ON_A	91 06 Value		Button-Toggling Output	"7F" : Pressed – "00" : Released
SHIFT_A	91 07 Value		Button-Toggling Output	"7F" : Pressed – "00" : Released
SYNC_A	91 08 Value		Button-Toggling Output	"7F" : Pressed – "00" : Released
CUE_A	91 09 Value		Button-Toggling Output	"7F" : Pressed – "00" : Released
PLAY_A	91 0A Value		Button-Toggling Output	"7F" : Pressed – "00" : Released
MODE1_A	91 0B Value		Button-Toggling Output	"7F" : Pressed – "00" : Released
MODE2_A	91 0C Value		Button-Toggling Output	"7F" : Pressed – "00" : Released
MODE3_A	91 0D Value		Button-Toggling Output	"7F" : Pressed – "00" : Released
MODE4_A	91 0E Value		Button-Toggling Output	"7F" : Pressed – "00" : Released
LOAD_A	91 0F Value		Button-Toggling Output	"7F" : Pressed – "00" : Released
PFL_A	91 10 Value		Button-Toggling Output	"7F" : Pressed – "00" : Released



P1_A (HOTCUE)	91 54 Value	C6	Button-Toggling Output	"7F" : Pressed – "00" : Released
P2_A (HOTCUE)	91 55 Value	C#6	Button-Toggling Output	"7F" : Pressed – "00" : Released
P3_A (HOTCUE)	91 56 Value	D6	Button-Toggling Output	"7F" : Pressed – "00" : Released
P4_A (HOTCUE)	91 57 Value	D#6	Button-Toggling Output	"7F" : Pressed – "00" : Released
P5_A (HOTCUE)	91 58 Value	E6	Button-Toggling Output	"7F" : Pressed – "00" : Released
P6_A (HOTCUE)	91 59 Value	F6	Button-Toggling Output	"7F" : Pressed – "00" : Released
P7_A (HOTCUE)	91 5A Value	F#6	Button-Toggling Output	"7F" : Pressed – "00" : Released
P8_A (HOTCUE)	91 5B Value	G6	Button-Toggling Output	"7F" : Pressed – "00" : Released
P9_A (HOTCUE)	91 5C Value	G#6	Button-Toggling Output	"7F" : Pressed – "00" : Released
P10_A (HOTCUE)	91 5D Value	A6	Button-Toggling Output	"7F" : Pressed – "00" : Released
P11_A (HOTCUE)	91 5E Value	A#6	Button-Toggling Output	"7F" : Pressed – "00" : Released
P12_A (HOTCUE)	91 5F Value	B6	Button-Toggling Output	"7F" : Pressed – "00" : Released
P13_A (HOTCUE)	91 60 Value	C7	Button-Toggling Output	"7F" : Pressed – "00" : Released
P14_A (HOTCUE)	91 61 Value	C#7	Button-Toggling Output	"7F" : Pressed – "00" : Released
P15_A (HOTCUE)	91 62 Value	D7	Button-Toggling Output	"7F" : Pressed – "00" : Released
P16_A (HOTCUE)	91 63 Value	D#7	Button-Toggling Output	"7F" : Pressed – "00" : Released
P1_A (LOOP)	91 44 Value	G#4	Button-Toggling Output	"7F" : Pressed – "00" : Released
P2_A (LOOP)	91 45 Value	A4	Button-Toggling Output	"7F" : Pressed – "00" : Released
P3_A (LOOP)	91 46 Value	A#4	Button-Toggling Output	"7F" : Pressed – "00" : Released
P4_A (LOOP)	91 47 Value	B4	Button-Toggling Output	"7F" : Pressed – "00" : Released
P5_A (LOOP)	91 48 Value	C5	Button-Toggling Output	"7F" : Pressed – "00" : Released
P6_A (LOOP)	91 49 Value	C#5	Button-Toggling Output	"7F" : Pressed – "00" : Released
P7_A (LOOP)	91 4A Value	D5	Button-Toggling Output	"7F" : Pressed – "00" : Released
P8_A (LOOP)	91 4B Value	D#5	Button-Toggling Output	"7F" : Pressed – "00" : Released
P9_A (LOOP)	91 4C Value	E5	Button-Toggling Output	"7F" : Pressed – "00" : Released
P10_A (LOOP)	91 4D Value	F5	Button-Toggling Output	"7F" : Pressed – "00" : Released
P11_A (LOOP)	91 4E Value	F#5	Button-Toggling Output	"7F" : Pressed – "00" : Released
P12_A (LOOP)	91 4F Value	G5	Button-Toggling Output	"7F" : Pressed – "00" : Released
P13_A (LOOP)	91 50 Value	G#5	Button-Toggling Output	"7F" : Pressed – "00" : Released
P14_A (LOOP)	91 51 Value	A5	Button-Toggling Output	"7F" : Pressed – "00" : Released
P15_A (LOOP)	91 52 Value	A#5	Button-Toggling Output	"7F" : Pressed – "00" : Released
P16_A (LOOP)	91 53 Value	B5	Button-Toggling Output	"7F" : Pressed – "00" : Released
P1_A (SLICER)	91 34 Value	E3	Button-Toggling Output	"7F" : Pressed – "00" : Released
P2_A (SLICER)	91 35 Value	F3	Button-Toggling Output	"7F" : Pressed – "00" : Released
P3_A (SLICER)	91 36 Value	F#3	Button-Toggling Output	"7F" : Pressed – "00" : Released
P4_A (SLICER)	91 37 Value	G3	Button-Toggling Output	"7F" : Pressed – "00" : Released
P5_A (SLICER)	91 38 Value	G#3	Button-Toggling Output	"7F" : Pressed – "00" : Released
P6_A (SLICER)	91 39 Value	A3	Button-Toggling Output	"7F" : Pressed – "00" : Released
P7_A (SLICER)	91 3A Value	A#3	Button-Toggling Output	"7F" : Pressed – "00" : Released
P8_A (SLICER)	91 3B Value	B3	Button-Toggling Output	"7F" : Pressed – "00" : Released
P9_A (SLICER)	91 3C Value	C4	Button-Toggling Output	"7F" : Pressed – "00" : Released
P10_A (SLICER)	91 3D Value	C#4	Button-Toggling Output	"7F" : Pressed – "00" : Released
P11_A (SLICER)	91 3E Value	D4	Button-Toggling Output	"7F" : Pressed – "00" : Released
P12_A (SLICER)	91 3F Value	D#4	Button-Toggling Output	"7F" : Pressed – "00" : Released



P13_A (SLICER)	91 40 Value	E4	Button-Toggling Output	"7F" : Pressed – "00" : Released
P14_A (SLICER)	91 41 Value	F4	Button-Toggling Output	"7F" : Pressed – "00" : Released
P15_A (SLICER)	91 42 Value	F#4	Button-Toggling Output	"7F" : Pressed – "00" : Released
P16_A (SLICER)	91 43 Value	G4	Button-Toggling Output	"7F" : Pressed – "00" : Released
P1_A (SAMPLER)	91 24 Value	C2	Button-Toggling Output	"7F" : Pressed – "00" : Released
P2_A (SAMPLER)	91 25 Value	C#2	Button-Toggling Output	"7F" : Pressed – "00" : Released
P3_A (SAMPLER)	91 26 Value	D2	Button-Toggling Output	"7F" : Pressed – "00" : Released
P4_A (SAMPLER)	91 27 Value	D#2	Button-Toggling Output	"7F" : Pressed – "00" : Released
P5_A (SAMPLER)	91 28 Value	E2	Button-Toggling Output	"7F" : Pressed – "00" : Released
P6_A (SAMPLER)	91 29 Value	F2	Button-Toggling Output	"7F" : Pressed – "00" : Released
P7_A (SAMPLER)	91 2A Value	F#2	Button-Toggling Output	"7F" : Pressed – "00" : Released
P8_A (SAMPLER)	91 2B Value	G2	Button-Toggling Output	"7F" : Pressed – "00" : Released
P9_A (SAMPLER)	91 2C Value	G#2	Button-Toggling Output	"7F" : Pressed – "00" : Released
P10_A (SAMPLER)	91 2D Value	A2	Button-Toggling Output	"7F" : Pressed – "00" : Released
P11_A (SAMPLER)	91 2E Value	A#2	Button-Toggling Output	"7F" : Pressed – "00" : Released
P12_A (SAMPLER)	91 2F Value	B2	Button-Toggling Output	"7F" : Pressed – "00" : Released
P13_A (SAMPLER)	91 30 Value	C3	Button-Toggling Output	"7F" : Pressed – "00" : Released
P14_A (SAMPLER)	91 31 Value	C#3	Button-Toggling Output	"7F" : Pressed – "00" : Released
P15_A (SAMPLER)	91 32 Value	D3	Button-Toggling Output	"7F" : Pressed – "00" : Released
P16_A (SAMPLER)	91 33 Value	D#3	Button-Toggling Output	"7F" : Pressed – "00" : Released

MIDI OUTPUT		
MIDI CONTROL	MESSAGE	VALUE DESCRIPTION
VOL_A		
LOW_A		
MID_A		
HIGH_A		
FILTER_A		
FX1_LVL_A		
FX2_LVL_A		
FX3_LVL_A		
DRY_WET_A		
LOOP_ENC_A		
LOOP_BTN_A		
FILTER_ON_A		
FX1_ON_A	91 03 Value	"7F" : Pressed – "00" : Released
FX2_ON_A	91 04 Value	"7F" : Pressed – "00" : Released
FX3_ON_A	91 05 Value	"7F" : Pressed – "00" : Released
MACROFX_ON_A	91 06 Value	"7F" : Pressed – "00" : Released
SHIFT_A	91 07 Value	"7F" : Pressed – "00" : Released
SYNC_A	91 08 Value	"7F" : Pressed – "00" : Released
CUE_A	91 09 Value	"7F" : Pressed – "00" : Released



PLAY_A	91 0A Value	"7F" : Pressed – "00" : Released
MODE1_A		LED Controlled by Firmware
MODE2_A		LED Controlled by Firmware
MODE3_A		LED Controlled by Firmware
MODE4_A		LED Controlled by Firmware
LOAD_A		
PFL_A	91 10 Value	"7F" : Pressed – "00" : Released
P1_A (HOTCUE)	91 54 Value	"7F" : Pressed – "00" : Released
P2_A (HOTCUE)	91 55 Value	"7F" : Pressed – "00" : Released
P3_A (HOTCUE)	91 56 Value	"7F" : Pressed – "00" : Released
P4_A (HOTCUE)	91 57 Value	"7F" : Pressed – "00" : Released
P5_A (HOTCUE)	91 58 Value	"7F" : Pressed – "00" : Released
P6_A (HOTCUE)	91 59 Value	"7F" : Pressed – "00" : Released
P7_A (HOTCUE)	91 5A Value	"7F" : Pressed – "00" : Released
P8_A (HOTCUE)	91 5B Value	"7F" : Pressed – "00" : Released
P9_A (HOTCUE)	91 5C Value	"7F" : Pressed – "00" : Released
P10_A (HOTCUE)	91 5D Value	"7F" : Pressed – "00" : Released
P11_A (HOTCUE)	91 5E Value	"7F" : Pressed – "00" : Released
P12_A (HOTCUE)	91 5F Value	"7F" : Pressed – "00" : Released
P13_A (HOTCUE)	91 60 Value	"7F" : Pressed – "00" : Released
P14_A (HOTCUE)	91 61 Value	"7F" : Pressed – "00" : Released
P15_A (HOTCUE)	91 62 Value	"7F" : Pressed – "00" : Released
P16_A (HOTCUE)	91 63 Value	"7F" : Pressed – "00" : Released
P1_A (LOOP)	91 44 Value	"7F" : Pressed – "00" : Released
P2_A (LOOP)	91 45 Value	"7F" : Pressed – "00" : Released
P3_A (LOOP)	91 46 Value	"7F" : Pressed – "00" : Released
P4_A (LOOP)	91 47 Value	"7F" : Pressed – "00" : Released
P5_A (LOOP)	91 48 Value	"7F" : Pressed – "00" : Released
P6_A (LOOP)	91 49 Value	"7F" : Pressed – "00" : Released
P7_A (LOOP)	91 4A Value	"7F" : Pressed – "00" : Released
P8_A (LOOP)	91 4B Value	"7F" : Pressed – "00" : Released
P9_A (LOOP)	91 4C Value	"7F" : Pressed – "00" : Released
P10_A (LOOP)	91 4D Value	"7F" : Pressed – "00" : Released
P11_A (LOOP)	91 4E Value	"7F" : Pressed – "00" : Released
P12_A (LOOP)	91 4F Value	"7F" : Pressed – "00" : Released
P13_A (LOOP)	91 50 Value	"7F" : Pressed – "00" : Released
P14_A (LOOP)	91 51 Value	"7F" : Pressed – "00" : Released
P15_A (LOOP)	91 52 Value	"7F" : Pressed – "00" : Released
P16_A (LOOP)	91 53 Value	"7F" : Pressed – "00" : Released
P1_A (SLICER)	91 34 Value	"7F" : Pressed – "00" : Released
P2_A (SLICER)	91 35 Value	"7F" : Pressed – "00" : Released
P3_A (SLICER)	91 36 Value	"7F" : Pressed – "00" : Released
P4_A (SLICER)	91 37 Value	"7F" : Pressed – "00" : Released
P5_A (SLICER)	91 38 Value	"7F" : Pressed – "00" : Released



P6_A (SLICER)	91 39 Value	"7F" : Pressed – "00" : Released
P7_A (SLICER)	91 3A Value	"7F" : Pressed – "00" : Released
P8_A (SLICER)	91 3B Value	"7F" : Pressed – "00" : Released
P9_A (SLICER)	91 3C Value	"7F" : Pressed – "00" : Released
P10_A (SLICER)	91 3D Value	"7F" : Pressed – "00" : Released
P11_A (SLICER)	91 3E Value	"7F" : Pressed – "00" : Released
P12_A (SLICER)	91 3F Value	"7F" : Pressed – "00" : Released
P13_A (SLICER)	91 40 Value	"7F" : Pressed – "00" : Released
P14_A (SLICER)	91 41 Value	"7F" : Pressed – "00" : Released
P15_A (SLICER)	91 42 Value	"7F" : Pressed – "00" : Released
P16_A (SLICER)	91 43 Value	"7F" : Pressed – "00" : Released
P1_A (SAMPLER)	91 24 Value	"7F" : Pressed – "00" : Released
P2_A (SAMPLER)	91 25 Value	"7F" : Pressed – "00" : Released
P3_A (SAMPLER)	91 26 Value	"7F" : Pressed – "00" : Released
P4_A (SAMPLER)	91 27 Value	"7F" : Pressed – "00" : Released
P5_A (SAMPLER)	91 28 Value	"7F" : Pressed – "00" : Released
P6_A (SAMPLER)	91 29 Value	"7F" : Pressed – "00" : Released
P7_A (SAMPLER)	91 2A Value	"7F" : Pressed – "00" : Released
P8_A (SAMPLER)	91 2B Value	"7F" : Pressed – "00" : Released
P9_A (SAMPLER)	91 2C Value	"7F" : Pressed – "00" : Released
P10_A (SAMPLER)	91 2D Value	"7F" : Pressed – "00" : Released
P11_A (SAMPLER)	91 2E Value	"7F" : Pressed – "00" : Released
P12_A (SAMPLER)	91 2F Value	"7F" : Pressed – "00" : Released
P13_A (SAMPLER)	91 30 Value	"7F" : Pressed – "00" : Released
P14_A (SAMPLER)	91 31 Value	"7F" : Pressed – "00" : Released
P15_A (SAMPLER)	91 32 Value	"7F" : Pressed – "00" : Released
P16_A (SAMPLER)	91 33 Value	"7F" : Pressed – "00" : Released
Display_Both_A	B1 1B Value	0..11 = loop size 1/32 to 64 12...14 = ". ", ". .", ". ." 15...127 custom to be defined
Display_DG1_A	B1 1C	1 bit for each segment from 0 to 7F
Display_DG2_A	B1 1D	1 bit for each segment from 0 to 7F



The pads color can be managed by choosing the velocity as described below:

<b><u>Manage Pads Colors :</u></b>	
Pads can be <b>Red</b> , <b>Blue</b> and <b>Purple</b> with different brightness.	
To manage all this states, we will use <b>Velocity values</b> like this :	
Velocity	Status
0	OFF
<b>1 =&gt; 0x28 (40d)</b>	Color <b>Red</b> , dimmed to bright
<b>0x29 (41d) =&gt; 0x50 (80d)</b>	Color <b>Blue</b> , dimmed to bright
<b>0x51 (81d) =&gt; 0x78 (120d)</b>	Color <b>Purple</b> , dimmed to bright
0x79...0x7C (121d...124d)	OFF
0x7D (125d)	<b>RED</b> Max
0x7E (126d)	<b>Blue</b> Max
0x7F (127d)	<b>Purple</b> Max