Table 1

Section	MIDI In (Press)	MIDI In (Release)
Encoder Assign		
Track	90 28 7f	90 28 00
Pan/Surround	90 2a 7f	90 2a 00
EQ	90 2c 7f	90 2c 00
Send	90 29 7f	90 29 00
Plug-in	90 2b 7f	90 2b 00
Inst	90 2d 7f	90 2d00
Counter		
Display/Name	90 34 7f	90 34 00
SMPTE/Beats	90 35 7f	90 35 00
Global View		
Global View	90 33 7f	90 33 00
MIDI Tracks	90 3e 7f	90 3e 00
Inputs	90 3f 7f	90 3f 00
Audio Tracks	90 40 7f	90 40 00
Audio Inst	90 41 7f	90 41 00
Aux	90 42 7f	90 42 00
Buses	90 43 7f	90 43 00
Outputs	90 44 7f	90 44 00
User	90 45 7f	90 45 00
Function		
F1	90 36 7f	90 36 00
F2	90 37 7f	90 37 00
F3	90 38 7f	90 38 00
F4	90 39 7f	90 39 00
F5	90 3a 7f	90 3a 00
F6	90 3b 7f	90 3b 00
F7	90 3c 7f	90 3c 00

Section	MIDI In (Press)	MIDI In (Release)
F8	90 3d 7f	90 3d 00
Modify		
Shift	90 46 7f	90 46 00
Option	90 47 7f	90 47 00
Ctrl	90 48 7f	90 48 00
Alt	90 49 7f	90 49 00
Automation		
Read/Off	90 4a 7f	90 4a 00
Write	90 4b 7f	90 4b 00
Trim	90 4c 7f	90 4c 00
Touch	90 4d 7f	90 4d 00
Latch	90 4e 7f	90 4e 00
Group	90 4f 7f	90 4f 00
Utility		
Save	90 50 7f	90 50 00
Undo	90 51 7f	90 51 00
Cancel	90 52 7f	90 52 00
Enter	90 53 7f	90 53 00
Transport		
Marker	90 54 7f	90 54 00
Nudge	90 55 7f	90 55 00
Cycle (Loop)	90 56 7f	90 56 00
Drop	90 57 7f	90 57 00
Replace	90 58 7f	90 58 00
Click	90 59 7f	90 59 00
Solo	90 5a 7f	90 5a 00
Rew <<	90 5b 7f	90 5b 00
FF >>	90 5c 7f	90 5c 00
Stop	90 5d 7f	90 5d 00

Section	MIDI In (Press)	MIDI In (Release)
Play/Pause	90 5e 7f	90 5e 00
Rec	90 5f 7f	90 5f 00
Navigation		
Bank <	90 2e 7f	90 2e 00
Bank >	90 2f 7f	90 2e 00
Channel <	90 30 7f	90 30 00
Channel >	90 31 7f	90 31 00
Zoom	90 64 7f	90 64 00
Up	90 60 7f	90 60 00
Down	90 61 7f	90 61 00
Left	90 62 7f	90 62 00
Right	90 63 7f	90 63 00
Scrub	90 65 7f	90 65 00
Jog Wheel	b0 3c 41 (left)	b0 3c 01 (right)
Master		
Flip	90 32 7f	90 32 00
Fader - Touch	90 70 7f, e8 28 00	90 70 00
Fader - Throw	e8 7c 7f (+10)	e8 00 00 (-inf)
Channel		
Arm 1	90 00 7f	90 00 00
Arm 2	90 01 7f	90 01 00
Arm 3	90 02 7f	90 02 00
Arm 4	90 03 7f	90 03 00
Arm 5	90 04 7f	90 04 00
Arm 6	90 05 7f	90 05 00
Arm 7	90 06 7f	90 06 00
Arm 8	90 07 7f	90 07 00
Solo 1	90 08 7f	90 08 00
Solo 2	90 09 7f	90 09 00

Section	MIDI In (Press)	MIDI In (Release)
Solo 3	90 0a 7f	90 0a 00
Solo 4	90 0b 7f	90 0b 00
Solo 5	90 0c 7f	90 0c 00
Solo 6	90 0d 7f	90 0d 00
Solo 7	90 0e 7f	90 0e 00
Solo 8	90 0f 7f	90 0f 00
Mute 1	90 10 7f	90 10 00
Mute 2	90 11 7f	90 11 00
Mute 3	90 12 7f	90 12 00
Mute 4	90 13 7f	90 13 00
Mute 5	90 14 7f	90 14 00
Mute 6	90 15 7f	90 15 00
Mute 7	90 16 7f	90 16 00
Mute 8	90 17 7f	90 17 00
Select 1	90 18 7f	90 18 00
Select 2	90 19 7f	90 19 00
Select 3	90 1a 7f	90 1a 00
Select 4	90 1b 7f	90 1b 00
Select 5	90 1c 7f	90 1c 00
Select 6	90 1d 7f	90 1d 00
Select 7	90 1e 7f	90 1e 00
Select 8	90 1f 7f	90 1f 00
Fader 1 - Touch	90 68 7f, e0 28 00	90 68 00
Fader 2 - Touch	90 69 7f, e1 28 00	90 69 00
Fader 3 - Touch	90 6a 7f, e2 28 00	90 6a 00
Fader 4 - Touch	90 6b 7f, e3 28 00	90 6b 00
Fader 5 - Touch	90 6c 7f, e4 28 00	90 6c 00
Fader 6 - Touch	90 6d 7f, e5 28 00	90 6d 00
Fader 7 - Touch	90 6e 7f, e6 28 00	90 6e 00
Fader 8 - Touch	90 6f 7f, e7 28 00	90 6f 00

Section	MIDI In (Press)	MIDI In (Release)
Fader 1 - Throw	e0 7c 7f (+10)	e0 00 00 (-inf)
Fader 2 - Throw	e1 7c 7f	e1 00 00
Fader 3 - Throw	e2 7c 7f	e2 00 00
Fader 4 - Throw	e3 7c 7f	e3 00 00
Fader 5 - Throw	e4 7c 7f	e4 00 00
Fader 6 - Throw	e5 7c 7f	e5 00 00
Fader 7 - Throw	e6 7c 7f	e6 00 00
Fader 8 - Throw	e7 7c 7f	e7 00 00
Rotary 1 - Press	90 20 7f	90 20 00
Rotary 2 - Press	90 21 7f	90 21 00
Rotary 3 - Press	90 22 7f	90 22 00
Rotary 4 - Press	90 23 7f	90 23 00
Rotary 5 - Press	90 24 7f	90 24 00
Rotary 6 - Press	90 25 7f	90 25 00
Rotary 7 - Press	90 26 7f	90 26 00
Rotary 8 - Press	90 27 7f	90 27 00
Rotary 1*	b0 10 **41** (left/acw)	b0 10 **01** (right/cw)
Rotary 2*	b0 11 **41**	b0 11 **01**
Rotary 3*	b0 12 **41**	b0 12 **01**
Rotary 4*	b0 13 **41**	b0 13 **01**
Rotary 5*	b0 14 **41**	b0 14 **01**
Rotary 6*	b0 15 **41**	b0 15 **01**
Rotary 7*	b0 16 **41**	b0 16 **01**
Rotary 8*	b0 17 **41**	b0 17 **01**
	***3rd binary value changes based on velocity?**	
MIDI Out:	Automatically and constantly displays:	
	d0 80000000 00	
	d0 80000000 00	

Section	MIDI In (Press)	MIDI In (Release)
	d0 80000010 00	
	d0 80000010 00	
	d0 80000020 00	
	d0 80000020 00	
	d0 80000030 00	
	d0 80000030 00	
	d0 80000040 00	
	d0 80000040 00	
	d0 80000050 00	
	d0 80000050 00	
	d0 80000060 00	
	d0 80000060 00	
	d0 80000070 00	
	d0 80000070 00	