

## HAVOCH200 DMX Chart

Channel		name	function	Min DMX	Max DMX
Standard	Basic				
1	1	Pan	Pan Coarse	0	255
2	2	Pan fine	Pan Fine	0	255
3	3	Tilt	Tilt Coarse	0	255
4	4	Tilt fine	Tilt Fine	0	255
5	5	XY Speed	Fast to Slow	0	255
6	6	Shutter	Close	0	1
			Strobe from slow to fast	2	62
			Open	63	64
			Pulse in from slow to fast	65	125
			Open	126	127
			Pulse out from slow to fast	128	188
			Open	189	190
			Randon from slow to fast	191	251
Open	252	255			
7	7	Dimmer	Dimmer(Close to Open)	0	255
8		Dimmer Fine	Dimmer(Close to Open)	0	255
9	8	Color Wheel	Indexed		
			Open	0	8
			Open + DARK RED	9	17
			DARK RED	18	26
			DARK RED + CYAN	27	35
			CYAN	36	44
			CYAN + YELLOW	45	53
			YELLOW	54	62
			YELLOW + MAGENTA	63	71
			MAGENTA	72	80
			MAGENTA + ACQUAMARINE	81	89
			ACQUAMARINE	90	98
			ACQUAMARINE + DEEP ORANGE	99	107
DEEP ORANGE	108	116			

			DEEP ORANGE + FOREST GREEN	117	125
			FOREST GREEN	126	134
			FOREST GREEN + CTO 3200K	135	143
			CTO 3200K	144	152
			CTO 3200K + 6000K	153	161
			6000K	162	170
			6000K + LAVANDER	171	179
			LAVANDER	180	188
			LAVANDER + DEEP BLUE	189	197
			DEEP BLUE	198	206
			DEEP BLUE + Open	207	215
			Forward Spin		
			From fast to slow	216	234
			Stop		
			Stop	235	236
			Reverse Spin		
			From slow to fast	237	255
			Indexed		
			Open	0	9
			GOBO 1	10	19
			GOBO 2	20	29
			GOBO 3	30	39
			GOBO 4	40	49
			GOBO 5	50	59
			GOBO 6	60	69
			GOBO 7	70	79
			GOBO 8	80	89
			Shake		
			GOBO 1 from slow to fast	90	99
			GOBO 2 from slow to fast	100	109
			GOBO 3 from slow to fast	110	119
			GOBO 4 from slow to fast	120	129
			GOBO 5 from slow to fast	130	139
			GOBO 6 from slow to fast	140	149
			GOBO 7 from slow to fast	150	159
			GOBO 8 from slow to fast	160	169
			Forward Spin		
			From fast to slow	170	211
			Stop		
			Stop	212	213
			Reverse Spin		
			From slow to fast	214	255
10	9	Rot Gobo	Indexed		
			Lineary from 0° to 360°	0	127
			Forward Spin		
			From fast to slow	128	190
11	10	Gobo Rot	Indexed		
			Lineary from 0° to 360°	0	127
			Forward Spin		
			From fast to slow	128	190

			Stop		
			Stop	191	192
			Reverse Spin		
			From slow to fast	193	255
12		Gobo Rot Fine	Lineary from 0° to 360° (Indexed)	0	255
			Indexed		
			Open	0	3
			GOBO 1	4	7
			GOBO 2	8	11
			GOBO 3	12	15
			GOBO 4	16	19
			GOBO 5	20	23
			GOBO 6	24	27
			GOBO 7	28	31
			GOBO 8	32	35
			GOBO 9	36	39
			GOBO 10	40	43
			GOBO 11	44	47
			GOBO 12	48	51
			GOBO 13	52	55
			GOBO 14	56	59
			GOBO 15	60	63
			GOBO 16	64	67
			GOBO 17	68	71
			Shake		
13	11	Fixed Gobo	GOBO 1 from slow to fast	72	75
			GOBO 2 from slow to fast	76	79
			GOBO 3 from slow to fast	80	83
			GOBO 4 from slow to fast	84	87
			GOBO 5 from slow to fast	88	91
			GOBO 6 from slow to fast	92	95
			GOBO 7 from slow to fast	96	99
			GOBO 8 from slow to fast	100	103
			GOBO 9 from slow to fast	104	107
			GOBO 10 from slow to fast	108	111
			GOBO 11 from slow to fast	112	115
			GOBO 12 from slow to fast	116	119
			GOBO 13 from slow to fast	120	123
			GOBO 14 from slow to fast	124	127
			GOBO 15 from slow to fast	128	131
			GOBO 16 from slow to fast	132	135
			GOBO 17 from slow to fast	136	139
			Forward Spin		
			From fast to slow	140	196
			Stop		
			Stop	197	198

			Reverse Spin		
			From slow to fast	199	255
14	12	Prism 1	Open	0	127
			Prism insert	128	255
15	13	Prism 1 Rotation	Indexed		
			Lineary from 0° to 360°	0	127
			Forward Spin		
			From fast to slow	128	190
			Stop		
			Stop	191	192
			Reverse Spin		
			From slow to fast	193	255
16	14	Frost	Continuous		
			Lineary from 0% to 100%	0	255
17	15	Zoom	Lineary from in to out	0	255
18		Zoom Fine	Lineary from in to out	0	255
19	16	Focus	Lineary from in to out	0	255
20		Focus Fine	Lineary from in to out	0	255
21	17	Control	No Function/Safe	0	1
			PAN REVERSE ON	2	3
			PAN REVERSE OFF	4	5
			TILT REVERSE ON	6	7
			TILT REVERSE OFF	8	9
			PAN/TILT MODE FAST	10	11
			PAN/TILT MODE MEDIUM	12	13
			PAN/TILT MODE SLOW	14	15
			MOVEMENT IN BLACKOUT ON	16	17
			MOVEMENT IN BLACKOUT OFF	18	19
			COLOR WHEEL 1 BLACKOUT ON (index)	20	21
			COLOR WHEEL 1 BLACKOUT OFF (index)	22	23
			ROTATING GOBO WHEEL BLACKOUT ON (index)	24	25
			ROTATING GOBO WHEEL BLACKOUT OFF (index)	26	27
			FIXED GOBO WHEEL BLACKOUT ON (index)	28	29
			FIXED GOBO WHEEL BLACKOUT OFF (index)	30	31
			COLOR WHEEL 1 CONTINUOUS MOVEMENT (index)	32	33
			COLOR WHEEL 1 STEP MOVEMENT (index)	34	35
			ROTATING GOBO WHEEL CONTINUOUS MOVEMENT (index)	36	37
			ROTATING GOBO WHEEL STEP MOVEMENT (index)	38	39
			FIXED GOBO WHEEL CONTINUOUS MOVEMENT (index)	40	41
			FIXED GOBO WHEEL STEP MOVEMENT (index)	42	43
			Reserved	44	45
			Reserved	46	47
			DISPLAY ON	48	49
			DISPLAY 10S	50	51
			DISPLAY 20S	52	53

DISPLAY 30S	54	55
FLIP DISPLAY ON	56	57
FLIP DISPLAY OFF	58	59
FLIP DISPLAY AUTO	60	61
KEY LOCK ON	62	63
KEY LOCK OFF	64	65
FAN MODE AUTO	66	67
FAN MODE SILENT	68	69
FAN MODE HIGH	70	71
NO SIGNAL HOLD	72	73
NO SIGNAL BLACKOUT	74	75
STATUS LED ON	76	77
STATUS LED OFF	78	79
DIMMER CURVE LINEAR	80	81
DIMMER CURVE S-CURVE	82	83
DIMMER CURVE SQUARE LAW	84	85
DIMMER CURVE INVERSE SQUARE LAW	86	87
DIMMER SPEED AUTO	88	89
DIMMER SPEED FAST	90	91
DIMMER SPEED MEDIUM	92	93
DIMMER SPEED SLOW	94	95
LED FREQUENCY 600HZ	96	97
LED FREQUENCY 1200HZ	98	99
LED FREQUENCY 2000HZ	100	101
LED FREQUENCY 4000HZ	102	103
LED FREQUENCY 6000HZ	104	105
LED FREQUENCY 25KHZ	106	107
LED FREQUENCY 50KHZ	108	109
INVERT ZOOM OFF	110	111
INVERT ZOOM ON	112	113
RESET ALL	114	115
RESET PAN/TILT	116	117
RESET COLOR 1	118	119
RESET ROTATING GOBO	120	121
RESET GOBO ROTATION	122	123
RESET FIXED GOBO	124	125
RESET ZOOM	126	127
RESET FOCUS	128	129
RESET PRISM	130	131
RESET FROST	132	133
Reserved	134	253
FACTORY DEFAULT OF CONTROL FUNCTIONS	254	255