

# HAVOCW19x40 DMX CHART

Channel							Name	Function	Min DMX	Max DMX
V1.0.00										
Main Engine				Pixel Engine						
Basic	STD	EXT	Basic 2	OFF	Ring	Pixel				
1	1	1	1				Pan	Pan Coarse	0	255
2	2	2	2				Pan Fine	Pan Fine	0	255
3	3	3	3				Tilt	Tilt Coarse	0	255
4	4	4	4				Tilt Fine	Tilt Fine	0	255
5	5	5	5				XY Speed	fastest to Slowest	0	255
6	6	6	6				Dimmer	Dimmer(0->100%)	0	250
7	7	7	7				Dimmer Fine	Dimmer Fine(0->100%)	0	255
8	8	8	8				Shutter/Strobe	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								
9	9	9	9				Red	Red	0	255
	10	10	10				Red Fine	Red Fine	0	255
10	11	11	11				Green	Green	0	255
	12	12	12				Green Fine	Green Fine	0	255
11	13	13	13				Blue	Blue	0	255
	14	14	14				Blue Fine	Blue Fine	0	255
12	15	15	15				White	White	0	255
	16	16	16				White Fine	White Fine	0	255
13	17	17	17				Color Macro	Color Macro	0	255
14	18	18	18				CTO	lineary from 2800K to 10000K	0	255
15	19	19	19				Zoom	0 - 100%	0	255

	20	20	20				Zoom Fine	0 - 100%	0	255
16	21	21					Crossfade from Artnet to Klingnet	0 - 100%	0	255
17	22	22					Crossfade for Pixel Engine	0 - 100%	0	255
18	23	23					Crossfade from White to Color	0 - 100%	0	255
							No Function/Safe		0	1
							Reserved		2	3
							Reserved		4	5
							PAN REVERSE ON		6	7
							PAN REVERSE OFF		8	9
							TILT REVERSE ON		10	11
							TILT REVERSE OFF		12	13
							PAN/TILT MODE FAST		14	15
							PAN/TILT MODE MEDIUM		16	17
							PAN/TILT MODE SLOW		18	19
							MOVEMENT IN BLACKOUT ON		20	21
							MOVEMENT IN BLACKOUT OFF		22	23
							HOME POSITION STANDARD		24	25
							HOME POSITION CUSTOM		26	27
							DISPLAY ON		28	29
							DISPLAY 10S		30	31
							DISPLAY 20S		32	33
							DISPLAY 30S		34	35
							FLIP DISPLAY ON		36	37
							FLIP DISPLAY OFF		38	39
							FLIP DISPLAY AUTO		40	41
							KEY LOCK ON		42	43
							KEY LOCK OFF		44	45
							FAN MODE AUTO		46	47
							FAN MODE SILENT		48	49
							FAN MODE HIGH		50	51
							WHITE CALIBRATION OFF		52	53

19	24	24	21				Control	WHITE CALIBRATION STUDIO	54	55
								Tungsten emulation on	56	57
								Tungsten emulation off	58	59
								NO SIGNAL HOLD	60	61
								NO SIGNAL BLACKOUT	62	63
								Reserved	64	65
								Reserved	66	67
								DIMMER CURVE LINEAR	68	69
								DIMMER CURVE S-CURVE	70	71
								DIMMER CURVE SQUARE LAW	72	73
								DIMMER CURVE INVERSE SQUARE LAW	74	75
								DIMMER SPEED AUTO	76	77
								DIMMER SPEED FAST	78	79
								DIMMER SPEED MEDIUM	80	81
								DIMMER SPEED SLOW	82	83
								LED FREQUENCY 600HZ	84	85
								LED FREQUENCY 1200HZ	86	87
								LED FREQUENCY 2000HZ	88	89
								LED FREQUENCY 4000HZ	90	91
								LED FREQUENCY 6000HZ	92	93
								LED FREQUENCY 25KHZ	94	95
								LED FREQUENCY 50KHZ	96	97
								INVERT MAPPING ON	98	99
								INVERT MAPPING OFF	100	101
								RESET ALL	102	103
								RESET PAN/TILT	104	105
								RESET ZOOM	106	107
								Reserved	108	253
								FACTORY DEFAULT OF CONTROL FUNCTIONS	254	255
	25	25	22				CTO on colors	0 - 100%	0	255
								-25	0	127
	26	26	23				Tint	0	128	128
								+25	129	255
								No FX	0	16

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Pattern

FX 1	17	22
FX 2	23	28
FX 3	29	34
FX 4	35	40
FX 5	41	46
FX 6	47	52
FX 7	53	58
FX 8	59	64
FX 9	65	70
FX 10	71	76
FX 11	77	82
FX 12	83	88
FX 13	89	94
FX 14	95	100
FX 15	101	106
FX 16	107	112
FX 17	113	118
FX 18	119	124
FX 19	125	130
FX 20	131	136
FX 21	137	142
FX 22	143	148
FX 23	149	154
FX 24	155	160
FX 25	161	166
FX 26	167	172
FX 27	173	178
FX 28	179	184
FX 29	185	190
FX 30	191	196
FX 31	197	202
FX 32	203	208
FX 33	209	214
FX 34	215	220

								FX 35	221	226
								FX 36	227	232
								FX 37	233	238
								FX 38	239	244
								FX 39	245	250
								FX 40	251	255
		28					Pattern Speed	Indexing	0	127
								CW from fast to slow	128	190
								Stop	191	192
								CCW from slow to fast	193	255
		29					Pattern Fade	0 - 100%	0	255
		30					Pattern Transition	0 - 100%	0	255
		31					Foreground Intensity	0 - 100%	0	255
		32					Foreground Strobe	See Shutter/Strobe Channel	0	255
		33					Background Intensity	0 - 100%	0	255
		34					Background Strobe	See Shutter/Strobe Channel	0	255
		35					Background Red	0 - 100%	0	255
		36					Background Green	0 - 100%	0	255
		37					Background Blue	0 - 100%	0	255
		38					Background White	0 - 100%	0	255
					1		Ring 1 Red	0 - 100%	0	255
					2		Ring 1 Green	0 - 100%	0	255
					3		Ring 1 Blue	0 - 100%	0	255
					4		Ring 1 White	0 - 100%	0	255
					5		Ring 2 Red	0 - 100%	0	255
					6		Ring 2 Green	0 - 100%	0	255
					7		Ring 2 Blue	0 - 100%	0	255
					8		Ring 2 White	0 - 100%	0	255
					9		Ring 3 Red	0 - 100%	0	255
					10		Ring 3 Green	0 - 100%	0	255
					11		Ring 3 Blue	0 - 100%	0	255
					12		Ring 3 White	0 - 100%	0	255
					1		Red 1	0 - 100%	0	255
					2		Green 1	0 - 100%	0	255

						3	Blue 1	0 - 100%	0	255
						4	White 1	0 - 100%	0	255
						5	Red 2	0 - 100%	0	255
						6	Green 2	0 - 100%	0	255
						7	Blue 2	0 - 100%	0	255
						8	White 2	0 - 100%	0	255
						9	Red 3	0 - 100%	0	255
						10	Green 3	0 - 100%	0	255
						11	Blue 3	0 - 100%	0	255
						12	White 3	0 - 100%	0	255
						...		0 - 100%	0	255
						73	Red 19	0 - 100%	0	255
						74	Green 19	0 - 100%	0	255
						75	Blue 19	0 - 100%	0	255
						76	White 19	0 - 100%	0	255