

HALO Driver - DMX protocol, version 1.2

24 CH IntelliFlex Mode

Port/Channel						DMX Value	Function	Type of control
1	2	3	4	5	6			
Layer 1								
1	25	49	73	97	121		Intensity	
						0 - 255	Intensity 0% -> 100%	proportional
2	26	50	74	98	122		Red 1 - Background or 2nd FX colour	
						0 - 255	Colour saturation control 0 ->100%	proportional
3	27	51	75	99	123		Green 1 - Background or 2nd FX colour	
						0 - 255	Colour saturation control 0 ->100%	proportional
4	28	52	76	100	124		Blue 1 - Background or 2nd FX colour	
						0 - 255	Colour saturation control 0 ->100%	proportional
5	29	53	77	101	125		Red 2 - Main FX colour	
						0 - 255	Colour saturation control 0 ->100%	proportional
6	30	54	78	102	126		Green 2 - Main FX colour	
						0 - 255	Colour saturation control 0 ->100%	proportional
7	31	55	79	103	127		Blue 2 - Main FX colour	
						0 - 255	Colour saturation control 0 ->100%	proportional
8	32	56	80	104	128		FX Select	
							See table below	
9	33	57	81	105	129		Rotate	
						0	No rotation	step
						1-127	Forwards Rotation (fast -> slow)	proportional
						128	Pause rotate	step
						129-255	Backwards Rotation (slow -> fast)	proportional
10	34	57	82	106	130		Repeat	
						0	Full	step
						1-63	x 2	step
						64-127	x 4	step
						128-195	x 8	step
						196-254	x 16	step
						255	x 32	step
11	35	59	83	107	131		Direction	
						0-63	Forwards	step
						64-127	Reverse	step
						128-191	Mirror Out	step
						192-255	Mirror In	step
12	36	60	84	108	132		Rotate offset	
						0 - 255	Offsets start point of rotating effects over each port	proportional
Layer 2								
13	37	61	85	109	133		Intensity	
						0 - 255	Intensity 0% -> 100%	proportional
14	38	62	86	110	134		Red 1 - Background or 2nd FX colour	
						0 - 255	Colour saturation control 0 ->100%	proportional
15	39	63	87	111	135		Green 1 - Background or 2nd FX colour	
						0 - 255	Colour saturation control 0 ->100%	proportional
16	40	64	88	112	136		Blue 1 - Background or 2nd FX colour	
						0 - 255	Colour saturation control 0 ->100%	proportional
17	41	65	89	113	137		Red 2 - Main FX colour	

Port/Channel						DMX Value	Function	Type of control
1	2	3	4	5	6			
						0 - 255	Colour saturation control 0 ->100%	proportional
18	42	66	90	114	138		Green 2 - Main FX colour	
						0 - 255	Colour saturation control 0 ->100%	proportional
19	43	67	91	115	139		Blue 2 - Main FX colour	
						0 - 255	Colour saturation control 0 ->100%	proportional
20	44	68	92	116	140		FX Select	
							See table below	
21	45	69	93	117	141		Rotate	
						0	Off	step
						1-127	Forwards Rotation (fast -> slow)	proportional
						128	Pause rotate	step
						129-255	Backwards Rotation (slow -> fast)	proportional
22	46	70	94	118	142		Repeat	
						0	Full	step
						1-63	x 2	step
						64-127	x 4	step
						128-195	x 8	step
						196-254	x 16	step
						255	x 32	step
23	47	71	95	119	143		Direction	
						0-63	Forwards	step
						64-127	Reverse	step
						128-191	Mirror Out	step
						192-255	Mirror In	step
24	48	72	96	120	144		Rotate offset	
						0 - 255	Offsets start point of rotating effects over each port	proportional
Port/Channel						DMX Value	Function	Type of control
1	2	3	4	5	6			
8/20	32/44	56/68	80/92	104/116	128/140		FX Select	
						0	Off	step
							<i>One colour Paparazzi-Snap</i>	
						1	Example Effect	step
						2	Slow- low density	step
						3	Slow - medium density	step
						4	Slow - high density	step
						5	Slow - linear	step
						6	Medium - low density	step
						7	Medium - medium density	step
						8	Medium - high density	step
						9	Medium - linear	step
						10	Fast - low density	step
						11	Fast- medium density	step
						12	Fast - high density	step
						13	Fast - linear	step
							<i>One colour Paparazzi-Fade</i>	
						14	Example Effect	step

Port/Channel						DMX Value	Function	Type of control
1	2	3	4	5	6			
						15	Slow- low density	step
						16	Slow - medium density	step
						17	Slow - high density	step
						18	Slow - linear	step
						19	Medium - low density	step
						20	Medium - medium density	step
						21	Medium - high density	step
						22	Medium - linear	step
						23	Fast - low density	step
						24	Fast- medium density	step
						25	Fast - high density	step
						26	Fast - linear	step
							<i>Two colour Paparazzi-Snap</i>	
						27	Example Effect	step
						28	Slow- low density	step
						29	Slow - medium density	step
						30	Slow - high density	step
						31	Slow - linear	step
						32	Medium - low density	step
						33	Medium - medium density	step
						34	Medium - high density	step
						35	Medium - linear	step
						36	Fast - low density	step
						37	Fast- medium density	step
						38	Fast - high density	step
						39	Fast - linear	step
							<i>Two colour Paparazzi-Fade</i>	
						40	Example Effect	step
						41	Slow- low density	step
						42	Slow - medium density	step
						43	Slow - high density	step
						44	Slow - linear	step
						45	Medium - low density	step
						46	Medium - medium density	step
						47	Medium - high density	step
						48	Medium - linear	step
						49	Fast - low density	step
						50	Fast- medium density	step
						51	Fast - high density	step
						52	Fast - linear	step
							<i>Trace 1-Uniform Decay</i>	
						53	Example Effect	step
						54	Slow - short tail	step
						55	Slow - medium tail	step
						56	Slow- long tail	step
						57	Medium -short tail	step
						58	Medium - medium tail	step
						59	Medium - long tail	step

Port/Channel						DMX Value	Function	Type of control
1	2	3	4	5	6			
						60	Fast - short tail	step
						61	Fast - medium tail	step
						62	Fast - long tail	step
							<i>Trace 2-Uniform Decay (colour mix with base)</i>	
						63	Example Effect	step
						64	Slow - short tail	step
						65	Slow - medium tail	step
						66	Slow- long tail	step
						67	Medium -short tail	step
						68	Medium - medium tail	step
						69	Medium - long tail	step
						70	Fast - short tail	step
						71	Fast - medium tail	step
						72	Fast - long tail	step
							<i>Trace 3-Uniform Colour</i>	
						73	Example Effect	step
						74	Slow - short tail	step
						75	Slow - medium tail	step
						76	Slow- long tail	step
						77	Medium -short tail	step
						78	Medium - medium tail	step
						79	Medium - long tail	step
						80	Fast - short tail	step
						81	Fast - medium tail	step
						82	Fast - long tail	step
							<i>Trace 4-Uniform Colour (colour mix with base)</i>	
						83	Example Effect	step
						84	Slow - short tail	step
						85	Slow - medium tail	step
						86	Slow- long tail	step
						87	Medium -short tail	step
						88	Medium - medium tail	step
						89	Medium - long tail	step
						90	Fast - short tail	step
						91	Fast - medium tail	step
						92	Fast - long tail	step
							<i>Jockey</i>	
						93	Example Effect	step
						94	Smallest	step
						95	..	step
						96	..	step
						97	..	step
						98	..	step
						99	..	step
						100	..	step
						101	..	step
						102	Biggest	step
							<i>Checkers</i>	

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3 CH Strobe Mode

Port/Channel						DMX	Function	Type of control
1	2	3	4	5	6	Value		
1	4	7	10	13	16		Strobe Intensity	
						0 - 255	Intensity 0% -> 100%	proportional
2	5	8	11	14	17		Flash Rate	
						0 - 255	Flash rate per second	proportional
3	6	9	12	15	18		Flash Duration	
						0 - 255	Duration of flash	proportional

3 CH RGB Mode

Port/Channel						DMX	Function	Type of control
1	2	3	4	5	6	Value		
1	4	7	10	13	16		Red	
						0 - 255	Colour saturation control 0 ->100%	proportional
2	5	8	11	14	17		Blue	
						0 - 255	Colour saturation control 0 ->100%	proportional
3	6	9	12	15	18		Green	
						0 - 255	Colour saturation control 0 ->100%	proportional

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Intelli-Mapping Mode

Port/Channel						DMX	Function	Type of control
1	2	3	4	5	6	Value		
Layer 1								
1	1	1	1	1	1		Intensity	
						0 - 255	Intensity 0% -> 100%	proportional
2	2	2	2	2	2		Red 1 - Background or 2nd FX colour	
						0 - 255	Colour saturation control 0 ->100%	proportional
3	3	3	3	3	3		Green 1 - Background or 2nd FX colour	
						0 - 255	Colour saturation control 0 ->100%	proportional
4	4	4	4	4	4		Blue 1 - Background or 2nd FX colour	
						0 - 255	Colour saturation control 0 ->100%	proportional
5	5	5	5	5	5		Red 2 - Main FX colour	
						0 - 255	Colour saturation control 0 ->100%	proportional
6	6	6	6	6	6		Green 2 - Main FX colour	
						0 - 255	Colour saturation control 0 ->100%	proportional
7	7	7	7	7	7		Blue 2 - Main FX colour	
						0 - 255	Colour saturation control 0 ->100%	proportional
8	8	8	8	8	8		FX Select	
							See table below	
9	9	9	9	9	9		Rotate	
						0	No rotation	step
						1-127	Forwards Rotation (fast -> slow)	proportional
						128	Pause rotate	step
						129-255	Backwards Rotation (slow -> fast)	proportional
10	10	10	10	10	10		Repeat	
						0	Full	step
						1-63	x 2	step
						64-127	x 4	step
						128-195	x 8	step
						196-254	x 16	step
						255	x 32	step
11	11	11	11	11	11		Direction	
						0-63	Forwards	step
						64-127	Reverse	step
						128-191	Mirror Out	step
						192-255	Mirror In	step
12	12	12	12	12	12		Rotate offset	
						0 - 255	Offsets start point of rotating effects over each port	proportional
Layer 2								
13	13	13	13	13	13		Intensity	
						0 - 255	Intensity 0% -> 100%	proportional
14	14	14	14	14	14		Red 1 - Background or 2nd FX colour	
						0 - 255	Colour saturation control 0 ->100%	proportional
15	15	15	15	15	15		Green 1 - Background or 2nd FX colour	
						0 - 255	Colour saturation control 0 ->100%	proportional
16	16	16	16	16	16		Blue 1 - Background or 2nd FX colour	
						0 - 255	Colour saturation control 0 ->100%	proportional
17	17	17	17	17	17		Red 2 - Main FX colour	

Port/Channel						DMX Value	Function	Type of control
1	2	3	4	5	6			
						2	Slow- low density	step
						3	Slow - medium density	step
						4	Slow - high density	step
						5	Slow - linear	step
						6	Medium - low density	step
						7	Medium - medium density	step
						8	Medium - high density	step
						9	Medium - linear	step
						10	Fast - low density	step
						11	Fast- medium density	step
						12	Fast - high density	step
						13	Fast - linear	step
							<i>One colour Paparazzi-Fade</i>	
						14	Example Effect	step
						15	Slow- low density	step
						16	Slow - medium density	step
						17	Slow - high density	step
						18	Slow - linear	step
						19	Medium - low density	step
						20	Medium - medium density	step
						21	Medium - high density	step
						22	Medium - linear	step
						23	Fast - low density	step
						24	Fast- medium density	step
						25	Fast - high density	step
						26	Fast - linear	step
							<i>Two colour Paparazzi-Snap</i>	
						27	Example Effect	step
						28	Slow- low density	step
						29	Slow - medium density	step
						30	Slow - high density	step
						31	Slow - linear	step
						32	Medium - low density	step
						33	Medium - medium density	step
						34	Medium - high density	step
						35	Medium - linear	step
						36	Fast - low density	step
						37	Fast- medium density	step
						38	Fast - high density	step
						39	Fast - linear	step
							<i>Two colour Paparazzi-Fade</i>	
						40	Example Effect	step
						41	Slow- low density	step
						42	Slow - medium density	step
						43	Slow - high density	step
						44	Slow - linear	step
						45	Medium - low density	step
						46	Medium - medium density	step

Port/Channel						DMX Value	Function	Type of control
1	2	3	4	5	6			
						47	Medium - high density	step
						48	Medium - linear	step
						49	Fast - low density	step
						50	Fast- medium density	step
						51	Fast - high density	step
						52	Fast - linear	step
							<i>Trace 1-Uniform Decay</i>	
						53	Example Effect	step
						54	Slow - short tail	step
						55	Slow - medium tail	step
						56	Slow- long tail	step
						57	Medium -short tail	step
						58	Medium - medium tail	step
						59	Medium - long tail	step
						60	Fast - short tail	step
						61	Fast - medium tail	step
						62	Fast - long tail	step
							<i>Trace 2-Uniform Decay (colour mix with base)</i>	
						63	Example Effect	step
						64	Slow - short tail	step
						65	Slow - medium tail	step
						66	Slow- long tail	step
						67	Medium -short tail	step
						68	Medium - medium tail	step
						69	Medium - long tail	step
						70	Fast - short tail	step
						71	Fast - medium tail	step
						72	Fast - long tail	step
							<i>Trace 3-Uniform Colour</i>	
						73	Example Effect	step
						74	Slow - short tail	step
						75	Slow - medium tail	step
						76	Slow- long tail	step
						77	Medium -short tail	step
						78	Medium - medium tail	step
						79	Medium - long tail	step
						80	Fast - short tail	step
						81	Fast - medium tail	step
						82	Fast - long tail	step
							<i>Trace 4-Uniform Colour (colour mix with base)</i>	
						83	Example Effect	step
						84	Slow - short tail	step
						85	Slow - medium tail	step
						86	Slow- long tail	step
						87	Medium -short tail	step
						88	Medium - medium tail	step
						89	Medium - long tail	step
						90	Fast - short tail	step

Port/Channel						DMX Value	Function	Type of control
1	2	3	4	5	6			
						91	Fast - medium tail	step
						92	Fast - long tail	step
							<i>Jockey</i>	
						93	Example Effect	step
						94	Smallest	step
						95	..	step
						96	..	step
						97	..	step
						98	..	step
						99	..	step
						100	..	step
						101	..	step
						102	Biggest	step
							<i>Checkers</i>	
						103	Example effects	step
						104	1/2's	step
						105	1/4's	step
						106	1/8's	step
						107	1/16's	step
						108	1/32's	step
						109	1/64's	step
						110	Rotating 1/4's	step
						111	Rotating 1/16's	step
						112	Rotating 1/32's	step
							<i>Colour Merge</i>	
						113	Example Effect	step
						114	Full	step
						115	Three Quarter	step
						116	Half	step
						117	Quarter	step
							<i>Colour Wave</i>	
						118	Example Effect	step
						119	V. Small	step
						120	Small	step
						121	Medium	step
						122	Large	step
							<i>Colour Wave (colour Mix)</i>	
						123	Example Effect	step
						124	V. Small	step
						125	Small	step
						126	Medium	step
						127	Large	step
							<i>Sweep</i>	
						128	Example Effect	step
						129	V. Slow	step
						130	Slow	step
						131	Medium	step
						132	Fast	step

