



MERLIN DMX CHART

PR-2473

Short Mode	Standard Mode	Extended Mode	Function	DMX Value	Description
1	1	1	Strobe	000-010	Close
				011-025	Open
				026-225	Strobe speed from slow to fast
				226-246	Random strobe from slow to fast
				247-255	Open
2	2	2	Dimmer	000-005	Close
				006-255	Linear dimming (0-100%)
	3	3	Dimmer Fine	000-255	Dimmer in 16 bit
3	4	4	CYM Macro	000-016	White
				017-035	Yellow+ Magenta=Red
				036-054	Yellow
				055-073	Yellow +Cyan=Green
				074-092	Cyan
				093-111	Cyan + Magenta= Violet
				112-128	Magenta
				129-255	CYM color mixing from slow to fast
4	5	5	Cyan	000-255	Cyan (linear 0~100%)
		6	Cyan Fine	000-255	Cyan in 16 Bit
5	6	7	Yellow	000-255	Yellow (linear 0~100%)
		8	Yellow Fine	000-255	Yellow in 16 Bit
6	7	9	Magenta	000-255	Magenta (linear 0~100%)
		10	Magenta Fine	000-255	Magenta in 16 Bit
7	8	11	CTO	000-005	White
					006-255
		12	CTO Fine	000-255	CTO in 16 Bit
8	9	13	Color Wheel	0-63	Indexing(0-360degrees)
				64-68	Color1(Red)
				69-73	Color2(Light Green)
				74-78	Color3(Blue)
				79-83	Color4(Cyan)
				84-88	Color5(Yellow)
				89-93	Color6(Magetna)
				94-98	Color7(Orange)
				99-103	Color8(Green)
				104-108	Color9(Dark Blue)
				109-113	Color10(UV)
				114-118	Color11(Light Yellow)
				119-123	Color12(Dark Yellow)
				124-127	White
				192-255	Rotation ,Anti-Clockwise from fast to slow
	10	14	Color Wheel	0-255	Color Wheel in 16 Bit
				0-19	White
				20-25	Gobo1
				26-31	Gobo2
				32-37	Gobo3
				38-43	Gobo4

9	11	15	Fixed Gobo Wheel	44-49	Gobo5
				50-55	Gobo6
				56-61	Gobo7
				62-67	Gobo8
				68-73	Gobo9
				74-79	Gobo10
				80-85	Gobo11
				86-91	Gobo12
				92-97	Gobo13
				98-103	Gobo14
				104-109	Gobo15
				110-115	Gobo16
				116-121	Gobo17
				122-127	Gobo18
				128-155	Clockwise rotation from slow to fast
				156-183	Anti-Clockwise rotation from slow to fast
				184-187	Shake effect 1 from slow to fast
				188-191	Shake effect 2 from slow to fast
				192-195	Shake effect 3 from slow to fast
				196-199	Shake effect 4 from slow to fast
				200-203	Shake effect 5 from slow to fast
				204-207	Shake effect 6 from slow to fast
				208-211	Shake effect 7 from slow to fast
				212-215	Shake effect 8 from slow to fast
				216-219	Shake effect 9 from slow to fast
				220-223	Shake effect 10 from slow to fast
				224-227	Shake effect 11 from slow to fast
				228-231	Shake effect 12 from slow to fast
				232-235	Shake effect 13 from slow to fast
				236-239	Shake effect 14 from slow to fast
240-243	Shake effect 15 from slow to fast				
244-247	Shake effect 16 from slow to fast				
248-251	Shake effect 17 from slow to fast				
252-255	Shake effect 18 from slow to fast				
10	12	16	Rotating Gobo Wheel	0-15	White
				16-31	Gobo 1
				32-47	Gobo 2
				48-63	Gobo 3
				64-79	Gobo 4
				80-95	Gobo 5
				96-111	Gobo 6
				112-127	Gobo 7
				128-156	Rotation (clockwise From slow to Fast)
				157-185	Reverse Rotationz(anti-clockwise From slow to Fast)
				186-195	Shake of Gobo 1 from slow to fast
				196-215	Shake of Gobo 2 from slow to fast
				216-225	Shake of Gobo 3 from slow to fast
				226-235	Shake of Gobo 4 from slow to fast
				236-245	Shake of Gobo 5 from slow to fast
				236-245	Shake of Gobo 6 from slow to fast
246-255	Shake of Gobo 7 from slow to fast				
11	13	17	Gobo Rotation	000-128	Gobo Indexing(0~360 degrees)
				129-188	Rotation (Clockwise From slow to Fast)
				189-195	Stop
				196-255	Rotation (Anti-Clockwise From slow to Fast)

	14	18	Gobo Rotation Fine	000-255	Gobo Rotation in 16 Bit
12	15	19	Graphic Effect Wheel	000-020	No
				021-255	Effect Wheel In
13	16	20	Graphic Effect Wheel Rotation	0-127	Rotation from slow to fast
				128-255	Reverse Rotation from slow to fast
14	17	21	Prism Group1	000-016	Open
				017-127	Prism1
				128-255	Prism2
15	18	22	Prism Group1 Rotation	000-128	Prism Indexing
				129-191	Rotation(Clockwise from slow to fast)
				192	Stop
				193-255	Rotation(Anti- Clockwise from slow to fast)
16	19	23	Prism Group2	000-016	White
				017-127	Prism3
				128-255	Frost In
17	20	24	Prism Group2 Rotation	000-128	Prism Indexing
				129-191	Rotation(Clockwise from slow to fast)
				192	Stop
				193-255	Rotation(Anti- Clockwise from slow to fast)
18	21	25	Focus	000-255	Linear Focus
	22	26	Focus Fine	000-255	Focus in 16 bit precision
19	23	27	Zoom	000-255	Linear Zoom
	24	28	Zoom Fine	000-255	Zoom in 16 bit precision
20	25	29	Pan	000-255	Pan(0°~540°)
	26	30	Pan Fine	000-255	Pan in 16 bit precision
21	27	31	Tilt	000-255	Tilt(0°~270°)
	28	32	Tilt Fine	000-255	Tilt in 16 bit precision
	29	33	Pan & Tilt	000-255	Pan & Tilt Speed from Fast to Slow
22	30	34	Control	000-019	Reserved
				The following functions will be activated after the DMX value has been held for more than 5s. And the following settings are void if the lamp is off.	
				020-024	Display On
				025-029	Display Off
				030-034	Reserved
				035-039	Lamp Half Power
				040-044	Lamp Full Power
				045-089	Reserved
				090-094	Pan & Tilt Speed Mode
				095-099	Pan & Tilt Time Mode
				100-129	Reserved
				130-139	Lamp On
				140-149	Pan & Tilt Reset
				150-159	Color System Reset
				160-169	Gobo Wheel Reset
				170-179	Dimmer/Shutter Reset
				180-189	Zoom/Frost/Focus/Prism Reset
				190-199	Reserved
				200-209	Total Reset
				210-229	Reserved
230-239	Lamp Off				
240-255	Reserved				

1. The projector can't be turned on within 1 minute after the lamp-off.
2. Fan error can cause lamp-off.
3. Note: "Speed Mode" means Pan and Tilt will move from Point A to Point B at their respective maximum speeds."Time Mode" means both Pan and Tilt will arrive at designated point at the same time. It's advised Time Mode be used if the projector runs circles or in oblique lines.

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