

9.4 DMX protocol

DMX channel	Value	Percent	Function
1	0 - 19	0 - 7	Reset, lamp on/off, shutter Shutter closed
	20 - 49	8 - 19	Shutter open
	50 - 72	20 - 27	Strobe fast → slow
	73 - 127	28 - 49	Shutter open
	128 - 147	50 - 57	Random strobe fast
	148 - 167	58 - 65	Random strobe medium
	168 - 187	66 - 73	Random strobe slow
	188 - 207	74 - 81	Shutter open
	208 - 217	82 - 85	Reset ⁽¹⁾
	218 - 227	86 - 89	Shutter open
	228 - 237	90 - 92	Lamp power on
	238 - 247	93 - 97	Shutter open
	248 - 255	97 - 100	Lamp power off: value must be held for 5 seconds ⁽²⁾
	2	0 - 255	0 - 100
3	0 - 255	0 - 100	Intensity fine Low → high
4	0 - 255	0 - 100	Cyan White → cyan
5	0 - 255	0 - 100	Magenta White → magenta
6	0 - 255	0 - 100	Yellow White → yellow
7	0	0	Color wheel scroll and rotation Indexed scrolling Slot 1
	1 - 49	1 - 19	Slot 1 → Slot 2
	50	20	Slot 2
	51 - 99	20 - 39	Slot 2 → Slot 3
	100	39	Slot 3
	101 - 149	40 - 58	Slot 3 → Slot 4
	150	59	Slot 4
	151 - 199	59 - 78	Slot 4 → Slot 1
	200 - 227	78 - 89	Continuous rotation Clockwise fast → slow
	228 - 255	89 - 100	Counter-clockwise slow → fast

8	0 - 9	0 - 3	Rotating gobos selection and rotation Selection (<i>set indexing angle on channels 9 + 10</i>) Open Gobo 1 Gobo 2 Gobo 3 Reserved: selecting this value has no effect Continuous rotation (<i>set speed on channels 9 + 10</i>) Open Gobo 1 rotation Gobo 2 rotation Gobo 3 rotation Reserved: selecting this value has no effect
	10 - 19	4 - 7	
	20 - 29	8 - 11	
	30 - 39	12 - 15	
	40 - 99	16 - 39	
	100 - 109	39 - 43	
	110 - 119	43 - 47	
	120 - 129	47 - 51	
	130 - 139	51 - 54	
	140 - 255	55 - 100	
9	0 - 255	0 - 100	Rotating gobos: indexing and speed Indexing (<i>when selected on channel 8</i>) Gobo indexing 0° - 395° Continuous rotation (<i>when selected on channel 8</i>) No rotation Clockwise slow → fast Counter-clockwise fast → slow No rotation
	0 - 2	0 - 1	
	3 - 127	1 - 49	
	128 - 252	50 - 99	
	253 - 255	100	
10	0 - 255	0 - 100	Rotating gobos: indexing/rotation speed (fine)
11	0 - 9	0 - 3	Animation wheel: angle position and function (<i>set indexing and rotation direction and speed on channel 12</i>) Open Horizontal angle position, indexing Vertical angle position, indexing Horizontal angle position, continuous rotation Vertical angle position, continuous rotation Horizontal → vertical angle position, indexing Horizontal → vertical angle position, continuous rotation Open
	10 - 19	4 - 7	
	20 - 29	8 - 11	
	30 - 39	12 - 15	
	40 - 49	16 - 19	
	50 - 139	20 - 54	
	140 - 229	55 - 90	
	230 - 255	90 - 100	
12	0 - 255	0 - 100	Animation wheel: indexing, rotation speed and direction Indexing (<i>when selected on channel 11</i>) Animation wheel indexing 0 → 395° Rotation (<i>when selected on channel 11</i>) No rotation Clockwise rotation slow → fast Counter clockwise rotation fast → slow No rotation
	0 - 2	0 - 1	
	3 - 127	1 - 49	
	128 - 252	50 - 99	
	253 - 255	100	
13	0 - 255	0 - 100	Focus Infinity → near
14	0 - 255	0 - 100	Focus (fine)
15	0 - 255	0 - 100	Zoom Wide → narrow
16	0 - 255	0 - 100	Zoom (fine)

17	0 - 2	0 - 1	Effects speed
	3 - 245	2 - 95	Tracking mode
	246 - 251	96 - 99	Vector mode fast → slow
	252 - 255	99 - 100	Tracking mode
			Tracking mode, blackout while moving

(1) If DMX reset without confirmation is disabled in the control menus (**Personality** → **DMX Reset**), the Exterior 1200 Image Projector can still be reset via DMX if confirmation is given by setting channels 4 (cyan), 5 (magenta) and 6 (yellow) to a value of 230 - 232.

(2) If DMX lamp off without confirmation is disabled in the control menus (**Personality** → **DMX Lamp off**), the lamp can still be powered off via DMX if confirmation is given by setting channels 4 (cyan), 5 (magenta) and 6 (yellow) to a value of 230 - 232.