

DMX protocol

Robin Viva - DMX protocol				
Version 1.5		Mode 1 - Standard 16 bit, Mode 2 - Reduced 8 bit		
Mode/channel		DMX Value	Function	Type of control
1	2			
1	1		Pan	
		0 - 255	Pan movement by 540°	proportional
2	2		Pan Fine	
		0 - 255	Fine control of pan movement	proportional
3	3		Tilt	
		0 - 255	Tilt movement by 270°	proportional
4	4		Tilt fine	
		0 - 255	Fine control of tilt movement	proportional
5	5		Pan/Tilt speed , Pan/Tilt time	
		0	Standard mode	step
		1	Max. Speed Mode	step
			Pan/Tilt speed mode	
		2 - 255	Speed from max. to min.	proportional
			Pan/Tilt time mode	
		2 - 255	Time from 0.2 s to 25.5 sec.	proportional
6	6		Power/Special functions	
		0 - 9	Reserved	
			<i>To activate following functions, stop in DMX value for at least 3 s and shutter must be closed at least 3 sec. („Shutter,Strobe“ channel 28/22 must be at range: 0-31 DMX). Corresponding menu items are temporarily overridden except DMX Input.</i>	
		10-14	DMX input: Wired DMX *	step
		15-19	DMX input: Wireless DMX *	step
			* function is active only 10 seconds after switching the fixture on	
		20-24	Graphic display On	step
		25-29	Graphic display Off	step
		30-49	Reserved	
		50-54	Dimmer curve: Square law	step
		55-59	Dimmer curve: Linear	step
		60-64	Fans mode: Auto	step
		65-69	Fans mode: High	step
		70-89	Reserved	
		90-94	Pan/Tilt speed mode	step
		95-99	Pan/Tilt time mode	step
		100 - 104	Blackout while pan/tilt moving	step
		105 -109	Disabled blackout while pan/tilt moving	step
		110-114	Blackout while colour wheels moving	step
		115 -119	Disabled blackout while colour wheels moving	step
		120-139	Reserved	step
			<i>To activate following functions, stop in DMX value for at least 3 seconds.</i>	
		140 - 149	Pan/Tilt reset	step
		150 - 159	Colour wheels reset	step
		160 - 169	Gobo wheels + iris reset	step
		170 - 179	Reserved	
		180 - 189	Zoom/focus/frost/prism reset	step
		190 - 199	Reserved	

DMX protocol

Mode/channel		DMX Value	Function	Type of control
1	2			
		200 - 209	Total reset	step
		210-239	Reserved	
		240	Disable "Quiet mode"	step
		241 - 255	"Quiet mode" - fan noise control from min. to max.	proportional
7	7		Colour wheel 1	
			Continual positioning	
		0	Open/white	proportional
		18	Deep red	proportional
		37	Deep blue	proportional
		55	Yellow	proportional
		73	Magenta	proportional
		91	Green	proportional
		110	Congo blue	proportional
		128-129	White	step
			Positioning	
		130-139	Deep red	step
		140-149	Deep blue	step
		150-159	Yellow	step
		160-169	Magenta	step
		170-179	Green	step
		180-189	Congo blue	step
		190 - 215	Forwards rainbow effect from fast to slow	proportional
		216 - 217	No rotation	step
		218 - 243	Backwards rainbow effect from slow to fast	proportional
		244 - 249	Random colour selection by audio control (Set microphone sensitivity in menu „Personality“)	step
		250 - 255	Auto random colour selection from fast to slow	proportional
8	*		Colour wheel 1 - fine positioning	
		0 - 255	Fine positioning	proportional
9	8		Colour wheel 2	
			Continual positioning	
		0	Open/white	proportional
		18	Light green	proportional
		37	Lavander	proportional
		55	Pink	proportional
		73	CTO	proportional
		91	Blue	proportional
		110	Orange	proportional
		128-129	White	step
			Positioning	
		130-139	Light green	step
		140-149	Lavander	step
		150-159	Pink	step
		160-169	CTO	step
		170-179	Blue	step
		180-189	Orange	step
		190 - 215	Forwards rainbow effect from fast to slow	proportional
		216 - 217	No rotation	step

DMX protocol

Mode/channel		DMX Value	Function	Type of control
1	2			
		218 - 243	Backwards rainbow effect from slow to fast	proportional
		244 - 249	Random colour selection by audio control (Set microphone sensitivity in menu „Personality“)	step
		250 - 255	Auto random colour selection from fast to slow	proportional
10	*		Colour wheel 2 - fine positioning	
		0 - 255	Fine positioning	proportional
11	9		Effect Speed <i>Speed of rot. gobo and static gobo selection</i>	
		0-255	Speed of rot. /static gobo selection from max. to min.	proportional
12	10		Colour wheels time	
		0	Function is off	step
		1 - 255	Time of Colour wheels movement (0.1sec-->25.5sec.)	proportional
13	11		Stat. Gobo+Zoom+Focus+Frost+Iris+Prism time	
		0	Function is off	step
		1 - 255	Time of stat. Gobo, zoom, focus,iris and frost movement (0.1 sec-->25.5 sec.)	proportional
		1-50	Time of prism movement (0.1 sec-->5 sec.)	proportional
14	12		Static gobo wheel	
		0-7	Open/hole	step
		9-17	Gobo 1	step
		18-26	Gobo 2	step
		27-35	Gobo 3	step
		36-44	Gobo 4	step
		45-53	Gobo 5	step
		54-62	Gobo 6	step
		63-71	Gobo 7	step
		72-80	Gobo 8	step
		81-91	Gobo 9	step
			<i>Shaking gobos from slow to fast</i>	
		92-103	Gobo 1	proportional
		104-115	Gobo 2	proportional
		116-127	Gobo 3	proportional
		128-139	Gobo 4	proportional
		140-151	Gobo 5	proportional
		152-163	Gobo 6	proportional
		164-175	Gobo 7	proportional
		176-187	Gobo 8	proportional
		188-199	Gobo 9	proportional
		200 - 201	Open/hole	step
		202 - 222	Forwards gobo wheel rotation from fast to slow	proportional
		223 - 243	Backwards gobo wheel rotation from slow to fast	proportional
		244 - 249	Random gobo selection by audio control (Set microphone sensitivity in menu „Personality“)	step
		250 - 255	Auto random gobo selection from fast to slow	proportional
15	13		Rotating gobo wheel <i>In the range of 0-59 DMX the gobo selection speed can be controlled by the Effect Speed channel.</i>	
			<i>Index - set indexing on channel 16/14</i>	

DMX protocol

Mode/channel		DMX Value	Function	Type of control
1	2			
		0-3	Open/hole	step
		4-7	Gobo 1	step
		8-11	Gobo 2	step
		12-15	Gobo 3	step
		16-19	Gobo 4	step
		20-23	Gobo 5	step
		24-27	Gobo 6	step
		28-31	Gobo 7	step
			<i>Rotation - set rotation on channel 16/14</i>	
		32-35	Gobo 1	step
		36-39	Gobo 2	step
		40-43	Gobo 3	step
		44-47	Gobo 4	step
		48-51	Gobo 5	step
		52-55	Gobo 6	step
		56-59	Gobo 7	step
			<i>Shaking gobos from slow to fast</i>	
			<i>Index - set indexing on channel 17/14</i>	
		60 - 69	Gobo 1	proportional
		70 - 79	Gobo 2	proportional
		80 - 89	Gobo 3	proportional
		90 - 99	Gobo 4	proportional
		100 - 109	Gobo 5	proportional
		110 - 119	Gobo 6	proportional
		120 - 129	Gobo 7	proportional
			<i>Shaking gobos from slow to fast</i>	
			<i>Rotation - set rotation on channel 16/14</i>	
		130 - 139	Gobo 1	proportional
		140 - 149	Gobo 2	proportional
		150 - 159	Gobo 3	proportional
		160 - 169	Gobo 4	proportional
		170 - 179	Gobo 5	proportional
		180 - 189	Gobo 6	proportional
		190 - 199	Gobo 7	proportional
		200 - 201	Open/hole	step
		202 - 222	Forwards gobo wheel rotation from fast to slow	proportional
		223 - 243	Backwards gobo wheel rotation from slow to fast	proportional
		244 - 249	Random gobo selection by audio control (Set microphone sensitivity in menu „Personality“)	step
		250 - 255	Auto random gobo selection from fast to slow	proportional
16	14		Rot. Gobo indexing/rotation	
			<i>Gobo indexing - set position on channel 15/13</i>	
		0 - 255	Gobo indexing	proportional
			<i>Gobo rotation - set position on channel 15/13</i>	
		0	No rotation	step
		1 - 127	Forwards gobo rotation from fast to slow	proportional
		128	No rotation - <u>default</u>	step
		129 - 255	Backwards gobo rotation from slow to fast	proportional

DMX protocol

Mode/channel		DMX Value	Function	Type of control
1	2			
17	*		Rot. Gobo indexing/rotation - fine	
		0-255	Fine indexing (rotation)	proportional
18	15		Prism	
		0 - 19	Open position (hole)	step
		20 - 127	3-facet rotating prism	step
			Prism/gobo macros	
		128 - 135	Macro 1	step
		136 - 143	Macro 2	step
		144 - 151	Macro 3	step
		152 - 159	Macro 4	step
		160 - 167	Macro 5	step
		168 - 175	Macro 6	step
		176 - 183	Macro 7	step
		184 - 191	Macro 8	step
		192 - 199	Macro 9	step
		200 - 207	Macro 10	step
		208 - 215	Macro 11	step
		216 - 223	Macro 12	step
		224 - 231	Macro 13	step
		232 - 239	Macro 14	step
		240 - 247	Macro 15	step
		248 - 255	Macro 16	step
19	16		Prism rotation	
		0	No rotation	step
		1 - 127	Forwards rotation from fast to slow	proportional
		128	No rotation - <u>default</u>	step
		129-255	Backwards rotation from slow to fast	proportional
20	17		Frost	
		0	Open	step
		1 - 179	Frost from 0% to 100%	proportional
		180 - 189	100% frost	step
		190 - 211	Pulse closing from slow to fast	proportional
		212 - 233	Pulse opening from fast to slow	proportional
		234 - 255	Ramping from fast to slow	proportional
21	18		Iris	
		0	Open	step
		1 - 179	From max.diameter to min.diameter	proportional
		180 - 191	Closed	step
			Pulse effects with Iris blackout:	
		192 - 219	Pulse opening from slow to fast	proportional
		220 - 247	Pulse closing from fast to slow	proportional
		248 - 249	Random pulse opening (fast)	step
		250 - 251	Random pulse opening (slow)	step
		252 - 253	Random pulse closing (fast)	step
		254 - 255	Random pulse closing (slow)	step
22	*		Iris - fine	
		0 - 255	Fine iris movement	proportional
23	19		Zoom	

DMX protocol

Mode/channel		DMX Value	Function	Type of control
1	2			
		0 - 255	Zoom from max. to min.beam angle	proportional
24	*		Zoom - fine	
		0-255	Fine zooming	proportional
25	20		Focus	
		0 - 255	Continuous adjustment from far to near	proportional
26	*		Focus - fine	
		0- 255	Fine focusing	proportional
27	21		Reserved	
			Reserved for future functions	
28	22		Shutter/ strobe	
		0 - 31	Shutter closed	step
		32 - 63	Shutter open	step
		64 - 95	Strobe-effect from slow to fast	proportional
		96 - 127	Shutter open	step
		128 - 143	Opening pulse in sequences from slow to fast	proportional
		144 - 159	Closing pulse in sequences from fast to slow	proportional
		160 - 191	Shutter open	proportional
		192 - 223	Random strobe-effect from slow to fast	proportional
		224 - 255	Shutter open	step
29	23		Dimmer intensity	
		0 - 255	Dimmer intensity from 0% to 100%	proportional
30	*		Dimmer intensity - fine	
		0 - 255	Fine dimming	proportional
Copyright © 2015-2016 Robe Lighting s.r.o. - All rights reserved				
All Specifications subject to change without notice				