

mLight

M-Profile 1200



User manual

SPECIFICATION

SOURCE

- Light Source: 900W White LED (High CRI 98 version, High uniform version optional)
- Light Color Temperature: 8000K
- Average LED Life: 20,000 Hour

POWER

- Input Voltage: 100-240VAC, 50/60Hz
- Power Consumption: 1200W max. at full output

OPTICAL SYSTEM

- Zoom: 5° - 50° linear motorized
- Prism: 4-facet circular & 6 facet linear rotating prisms, independent control
- Frost: Frost filter hybrid wash effect
- Iris: Linearly Iris with macro function
- Strobe: 0-25Hz variable speed, pulse, and random strobe
- Dimmer: 0-100% variable linear dimming curves
- CRI Filter: CRI > 90

FRAMING SHUTTER

- Shutters: 4 independent framing shutters
- System Rotation: +/- 90°

COLOR

- 7 Dichoric Colors plus open, Index / Bi-directional rotating rainbow effect
- CMY + CTO Color mix system

FIXED GOBOS

- 1 fixed gobo wheels with 8 glass gobos plus open
- Shake / Bi-directional flow effect

ROTATING GOBOS

- 1 rotation gobo wheels with 7 interchangeable glass gobos plus open
- Interchangeable rotating / Shake / Bi-directional variable-speed rotation effect

ANIMATION WHEEL

- 1 Fire effect wheel

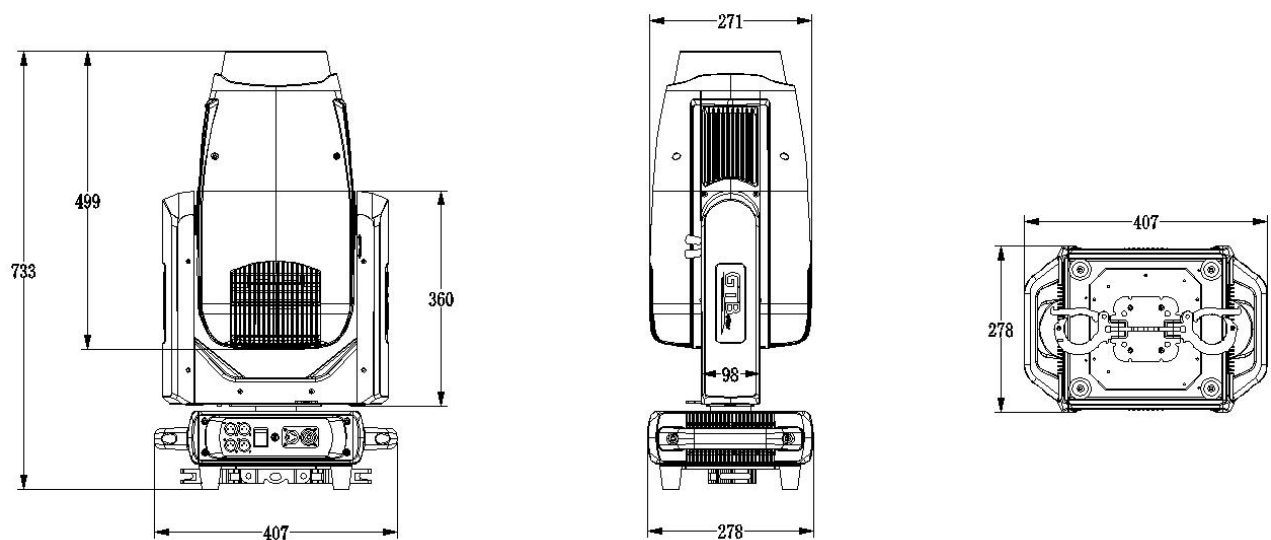
CONTROL / CONNECTION

- DMX Channel: 54/56CHs (Same as Forte channel)
- Control Mode: DMX, Manual
- Control Protocol: DMX, RDM, Artnet optional
- Full Color 180° Reversible LCD
- 3 pin and 5pin DMX In/Out both
- PowerCON ture1 Power Input+Output
- Follow Spot mode(Manual Pan/Tilt)

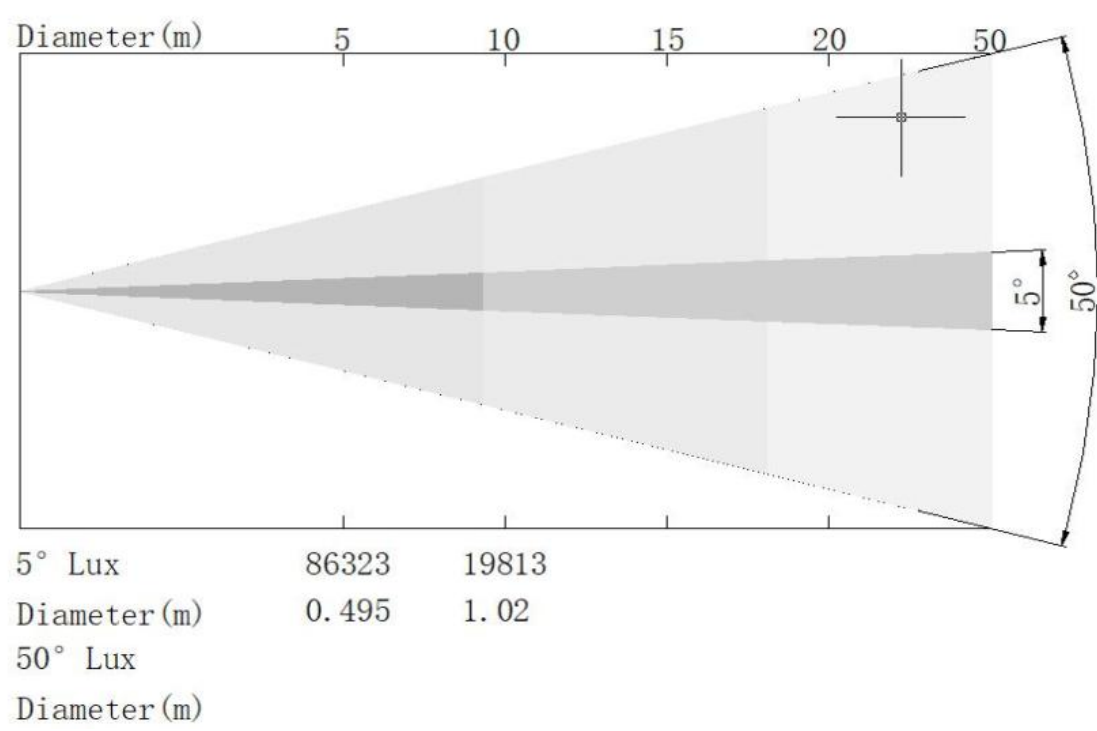
WEIGHT & DIMENSION

- Net Weight: 28kg
- Dimension: 407×278×733mm

Dimension (MM)



Photometric Data



Color Filters



CMY+CTO Filters



Rotating Glass Gobos



Fixed Glass Gobos



Animation Disk



Framing System



Frost&Prisms



DMX Protocol			
Version: 1.2			
Mode 1 - Standard 16 bit, Mode 2 -enhanced gobo control			
Quick overview of default DMX values for each channel			
Mode/Channel		Default DMX Value	Function
1	2		
1	1	128	Pan
2	2	0	Pan Fine
3	3	128	Tilt
4	4	0	Tilt fine
5	5	0	Pan/Tilt speed , Pan/Tilt time
6	6	0	Reserved
7	7	10	Reserved
8	8	128	Reserved
9	9	0	Reserved
10	10	0	Colour wheel 1
11	11	0	Colour wheel 1-fine positioning
12	12	0	Reserved
13	13	0	Reserved
14	14	0	Cyan
15	15	0	Magenta
16	16	0	Yellow
17	17	0	CTO
18	18	128	Reserved
19	19	0	Reserved
20	20	0	Reserved
21	21	0	Reserved
22	22	0	Reserved
23	23	0	Effect wheel positioning

24	24	128	Effect wheel rotation
25	25	0	Effect wheel animations
26	26	0	Fix. Gobo wheel 1
*	27	0	Reserved
27	28	128	Reserved
28	29	0	Reserved
29	30	0	Rot. Gobo wheel 2
*	31	0	Reserved
30	32	128	Rot. Gobo 2 indexing and rotation
31	33	0	Reserved
32	34	0	Prism 1 (6-facet linear)
33	35	128	Prism 1 indexing/rotation
34	36	0	Prism 2 (4-facet)
35	37	128	Prism 2 indexing/rotation
36	38	0	Frost
37	39	0	Iris
38	40	0	Reserved
39	41	128	Zoom
40	42	0	Reserved
41	43	128	Focus
42	44	0	
43	45	128	Framing shutters module rotation
44	46	0	Framing shutter 1- movement
45	47	128	Framing shutter 1- swivelling
46	48	0	Framing shutter 2- movement
47	49	128	Framing shutter 2- swivelling
48	50	0	Framing shutter 3 movement
49	51	128	Framing shutter 3- swivelling
50	52	0	Framing shutter 4 movement
51	53	128	Framing shutter 4- swivelling
52	54	32	Shutter/ strobe
53	55	0	Dimmer intensity
54	56	0	Reserved

Mode/Channel		DMX Value	Function	Type of control
1	2			
1	1		Pan	
		0 - 255	Pan movement by 540° (128=default)	proportional
2	2		Pan Fine	
		0 - 255	Fine control of pan movement (0=default)	proportional
3	3		Tilt	
		0 - 255	Tilt movement by 270° (128=default)	proportional
4	4		Tilt fine	
		0 - 255	Fine control of tilt movement (0=default)	proportional
5	5		Pan/Tilt speed , Pan/Tilt time	
		0	Standard mode (0=default)	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 sec. to 25.5 sec.	proportional
6	6			
7	7			
8	8			
9	9			
10	10		Colour wheel 1	
			Continual positioning	
		0	Open/white (0=default)	proportional
		21	Deep red	proportional
		43	Deep blue	proportional
		64	Orange	proportional
		86	Green	proportional
		107	Congo blue	proportional
		128-129	Open/White	step
			Positioning	

		130-141	Deep red	step
		142-153	Deep blue	step
		154-165	Orange	step
		166-177	Green	step
		178-189	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	step
			(Set microphone sensitivity in menu „Personality“)	
		250 - 255	Auto random colour selection from fast to slow	proportional
11	11		Colour wheel 1 - fine positioning	
		0 - 255	Fine positioning (0=default)	proportional
12	12			
13	13			
14	14		Cyan	
		0 - 255	Cyan from min. saturation --> full cyan (0=default)	proportional
15	15		Magenta	
		0 - 255	Magenta from min. saturation --> full magenta (0=default)	proportional
16	16		Yellow	
		0 - 255	Yellow from min. saturation --> full yellow (0=default)	proportional
17	17		CTO	
		0 - 255	CTO from 6500K --> 3000K (0=default), HP LED module	proportional
			CTO from 5800K --> 2200K (0=default), HCF LED module	proportional
18	18			
19	19			
20	20			
21	21			
22	22			
23	23		Effect wheel positioning	
		0-19	No function (0=default)	step

		20-127	Proportional indexing (73-center)	proportiona l
		128-170	Ramping from open to full position (max--->min. speed)	proportiona l
		171-213	Ramping from open to half position (max. --->min. speed)	proportiona l
		214-255	Ramp. from half position to full position (max. --->min. speed)	proportiona l
24	24		Effect wheel rotation	
		0	No rotation	step
		1 - 127	Forwards rotation from fast to slow	proportiona l
		128	No rotation (128=default)	step
		129 - 255	Backwards rotation from slow to fast	proportiona l
25	25		Effect wheel animations	
		0-7	No animation (0=default)	
			Note : Set suitable DMX value at Focus channel to get desired animation. All animations were created at distance of 5 m from screen with zoom=128 DMX, Focus value is different for each effect (focus value is stated in parentheses for this distance)	
			The following channels are blocked: Effect wheel positioning, Effect wheel rotation, Rotating gobo wheel 1/2, Rot. Gobo 1/2 indexing and rotation, Rot. Gobo wheel 1/2 fine rotation.	
		8-9	Macro 1 (Focus=190)	step
		10-11	Macro 2 (Focus=167)	step
		12-13	Macro 3 (Focus=170)	step
		14-15	Macro 4 (Focus=170)	step
		16-17	Macro 5 (Focus=170)	step
		18-19	Macro 6 (Focus=136)	step
		20-21	Macro 7 (Focus=140)	step
		22-23	Macro 8 (Focus=130)	step
		24-25	Macro 9 (Focus=142)	step
		26-27	Macro 10 (Focus=140)	step
		28-255	Reserved	
26	*		Fixed gobo wheel 1	
			Index - set indexing on channel 27	

		0-4	Open/hole (0=default)	step
		5-8	Gobo 1	step
		9-13	Gobo 2	step
		14-17	Gobo 3	step
		18-22	Gobo 4	step
		23-26	Gobo 5	step
		27-31	Gobo 6	step
			Rotation - set rotation on channel 27	
		32-35	Gobo 1	step
		36-40	Gobo 2	step
		41-44	Gobo 3	step
		45-49	Gobo 4	step
		50-54	Gobo 5	step
		55-59	Gobo 6	step
			Shaking gobos from slow to fast	
			Index - set indexing on channel 27	
		60-71	Gobo 1	proportional
		72-83	Gobo 2	proportional
		84-95	Gobo 3	proportional
		96-106	Gobo 4	proportional
		107-118	Gobo 5	proportional
		119-129	Gobo 6	proportional
			Shaking gobos from slow to fast	
			Rotation - set rotation on channel 27	
		130-141	Gobo 1	proportional
		142-153	Gobo 2	proportional
		154-165	Gobo 3	proportional
		166-176	Gobo 4	proportional
		177-188	Gobo 5	proportional
		189-199	Gobo 6	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	step
			(Set microphone sensitivity in menu „Personality”)	
		250 - 255	Auto random gobo selection from fast to slow	proportional
*	26		Fix. gobo wheel 1	
			Index - set indexing on channel 28	
		0-4	Open/hole (0=default)	step
		5-8	Gobo 1	step
		9-13	Gobo 2	step
		14-17	Gobo 3	step
		18-22	Gobo 4	step
		23-26	Gobo 5	step
		27-31	Gobo 6	step
			Rotation - set rotation on channel 28	
		32-35	Gobo 1	step
		36-40	Gobo 2	step
		41-44	Gobo 3	step
		45-49	Gobo 4	step
		50-54	Gobo 5	step
		55-59	Gobo 6	step
			Continual positioning	
			Index - set indexing on channel 28	
		60	Open/hole	proportional
		70	Gobo 1	proportional
		80	Gobo 2	proportional
		90	Gobo 3	proportional
		100	Gobo 4	proportional
		110	Gobo 5	proportional
		120	Gobo 6	proportional
		130	Open/hole	proportional
			Continual positioning	
			Rotation - set rotation on channel 28	
		131	Open/hole	proportional
		141	Gobo 1	proportional

		151	Gobo 2	proportional
		161	Gobo 3	proportional
		171	Gobo 4	proportional
		181	Gobo 5	proportional
		191	Gobo 6	proportional
		201	Open/hole	proportional
		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	step
			(Set microphone sensitivity in menu „Personality“)	
		250 - 255	Auto random gobo selection from fast to slow	proportional
*	27			
27	28			
28	29		Reserved	
		32-35	Gobo 1	step
		36-40	Gobo 2	step
		41-44	Gobo 3	step
		45-49	Gobo 4	step
		50-54	Gobo 5	step
		55-59	Gobo 6	step
			Shaking gobos from slow to fast	
			Index - set indexing on channel 30	
		60-71	Gobo 1	proportional
		72-83	Gobo 2	proportional
		84-95	Gobo 3	proportional
		96-106	Gobo 4	proportional
		107-118	Gobo 5	proportional
		119-129	Gobo 6	proportional
			Shaking gobos from slow to fast	
			Rotation - set rotation on channel 30	
		130-141	Gobo 1	proportional
		142-153	Gobo 2	proportional

		154-165	Gobo 3	proportional
		166-176	Gobo 4	proportional
		177-188	Gobo 5	proportional
		189-199	Gobo 6	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	step
			(Set microphone sensitivity in menu „Personality“)	
		250 - 255	Auto random gobo selection from fast to slow	proportional
29	30		Rotating gobo wheel 2	
			Index - set indexing on channel 33	
		0-4	Open/hole (0=default)	step
		5-8	Gobo 1	step
		9-13	Gobo 2	step
		14-17	Gobo 3	step
		18-22	Gobo 4	step
		23-26	Gobo 5	step
		27-31	Gobo 6	step
			Rotation - set rotation on channel 32	
		32-35	Gobo 1	step
		36-40	Gobo 2	step
		41-44	Gobo 3	step
		45-49	Gobo 4	step
		50-54	Gobo 5	step
		55-59	Gobo 6	step
			Continual positioning	
			Index - set indexing on channel 32	
		60	Open/hole	proportional
		70	Gobo 1	proportional
		80	Gobo 2	proportional
		90	Gobo 3	proportional
		100	Gobo 4	proportional
		110	Gobo 5	proportional
		120	Gobo 6	proportional

		130	Open/hole	proportional
			Continual positioning	
			Rotation - set rotation on channel 32	
		131	Open/hole	proportional
		141	Gobo 1	proportional
		151	Gobo 2	proportional
		161	Gobo 3	proportional
		171	Gobo 4	proportional
		181	Gobo 5	proportional
		191	Gobo 6	proportional
		201	Open/hole	proportiona l
		202 - 222	Forwards gobo wheel rotation from fast to slow	proportiona l
		223 - 243	Backwards gobo wheel rotation from slow to fast	proportiona l
		244 - 249	Random gobo selection by audio control	step
			(Set microphone sensitivity in menu „Personality“)	
		250 - 255	Auto random gobo selection from fast to slow	proportiona l
*	31			
30	32		Rot. Gobo 2 indexing and rotation	
			Gobo indexing - set position on channel 29/30	
		0 - 255	Gobo indexing	proportiona l
			Gobo rotation - set position on channel 29/30	
		0	No rotation	step
		1 - 127	Forwards gobo rotation from fast to slow	proportiona l
		128	No rotation (128=default)	step
		129 - 255	Backwards gobo rotation from slow to fast	proportiona l
31	33			
32	34		Prism 1 (6-facet linear)	
		0 - 19	Open position - hole (0=default)	step
		20 - 73	Prism 1 indexing	step
		74-127	Prism 1 rotation	step

			Prism 1 /gobo macros	
			The following channels are blocked: Prism 1, Prism 1 indexing/ rotation, Rotating gobo 1/2 wheel, Rot. Gobo 1/2 indexing and rotation, Rot. Gobo 1/2 fine rotation.	
		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
33	35		Prism 1 indexing/rotation	
			Prism 1 indexing - set position on channel 32/34	
		0 - 255	Prism 1 indexing	proportional
			Prism 1 rotation - set position on channel 32/34	
		0	No rotation	step
		1 - 127	Forwards prism rotation from fast to slow	proportional
		128	No rotation (128=default)	step
		129-255	Backwards prism rotation from slow to fast	proportional
34	36		Prism 2 (6-facet circular)	
		0 - 19	Open position - hole (0=default)	step
		20-127	Prism 2 rotation	step
			Prism 2 /gobo macros	
			The following channels are blocked: Prism 2, Prism 2 rotation, Rotating gobo wheel 1/2, Rot. Gobo 1/2 indexing and rotation,	

			Rot. Gobos 1/2 fine rotation.	
		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
35	37		Prism 2 rotation	
		0	No rotation	step
		1 - 127	Forwards prism rotation from fast to slow	proportional
		128	No rotation (128=default)	step
		129-255	Backwards prism rotation from slow to fast	proportional
36	38		Frost	
		0	Open (0=default)	step
			Light Frost	
		1-50	Light Frost from 0% to 100%	proportional
		51-53	100% Light Frost	step
		54-63	Pulse closing from slow to fast	proportional
		64-73	Pulse opening from fast to slow	proportional
		74-83	Ramping from fast to slow	proportional
		84-86	Open	step
			Medium Frost	

		87-136	Medium Frost from 0% to 100%	proportional
		137-139	100% Medium Frost	step
		140-149	Pulse closing from slow to fast	proportional
		150-159	Pulse opening from fast to slow	proportional
		160-169	Ramping from fast to slow	proportional
		170-255	Open	step
37	39		Iris	
		0	Open (0=default)	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
38	40			
39	41		Zoom	
		0 - 255	Zoom from max. to min. beam angle (128=default)	proportional
40	42		Zoom - fine	
		0-255	Fine zooming (0=default)	proportional
41	43		Focus	
		0 - 255	Continuous adjustment from far to near (128=default)	proportional
42	44			
43	45		Framing shutters module rotation	
		0-127	Rotation from right (0°) to 60°	proportional
		128	Centre (128=default)	step
		129-255	Rotation from 60° to left (120°)	proportional
44	46		Framing shutter 1- movement	
		0-255	Movement from Outward to Inward (0=default)	proportional

45	47		Framing shutter 1- swivelling	
		0-127	Swivelling from -30 degrees towards 0 degrees	proportional
		128	0 degrees (128=default)	step
		129-255	Swivelling from 0 degrees to +30 degrees	proportional
46	48		Framing shutter 2- movement	
		0-255	Movement from Outward to Inward (0=default)	proportional
47	49		Framing shutter 2- swivelling	
		0-127	Swivelling from -30 degrees towards 0 degrees	proportional
		128	0 degrees (128=default)	step
		129-255	Swivelling from 0 degrees to +30 degrees	proportional
48	50		Framing shutter 3 movement	
		0-255	Movement from Outward to Inward (0=default)	proportional
49	51		Framing shutter 3- swivelling	
		0-127	Swivelling from -30 degrees towards 0 degrees	proportional
		128	0 degrees (128=default)	step
		129-255	Swivelling from 0 degrees to +30 degrees	proportional
50	52		Framing shutter 4 movement	
		0-255	Movement from Outward to Inward (0=default)	proportional
51	53		Framing shutter 4- swivelling	
		0-127	Swivelling from -30 degrees towards 0 degrees	proportional
		128	0 degrees (128=default)	step
		129-255	Swivelling from 0 degrees to +30 degrees	proportional
52	54		Shutter/ strobe	
		0 - 31	Shutter closed	step
		32 - 63	Shutter open (32=default)	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	step

		192 - 223	Random strobe-effect from slow to fast	proportiona l
		224 - 255	Shutter open	step
53	55		Dimmer intensity	
		0 - 255	Dimmer intensity from 0% to 100% (0=default)	proportiona l
54	56			
All Specifications subject to change without notice				