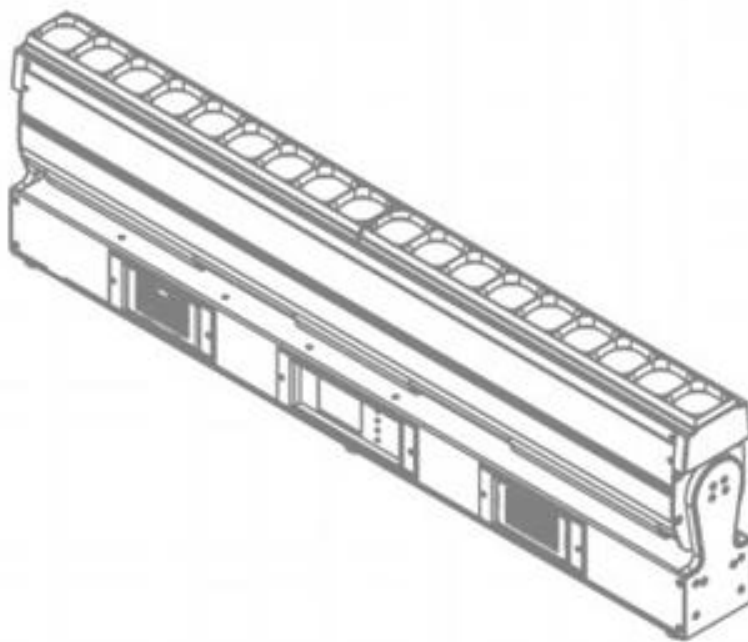
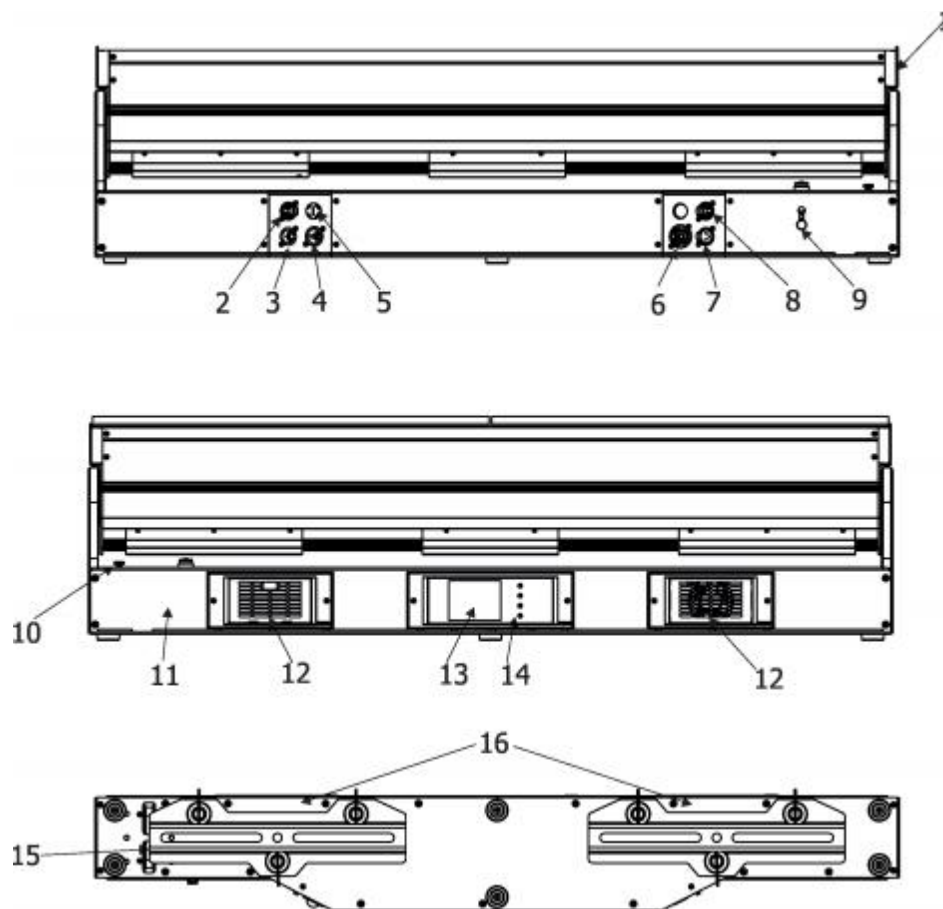


Tetra 18x40W LED Moving Head Light



(User Manual)

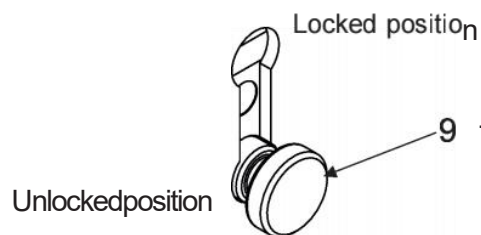
1. Fixture exterior view

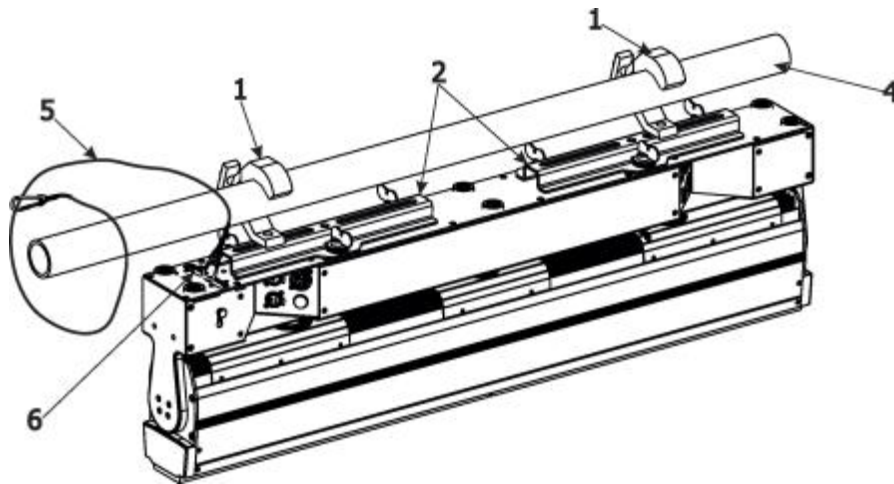


- 1 -Movinghead withlens array
- 2 -Ethernet
- 3 -5-pinDMXIN
- 4 -PowerIN
- 5 -Fuseholder
- 6 -PowerOUT
- 7 -5-pinDMXOUT
- 8 -Ethernet

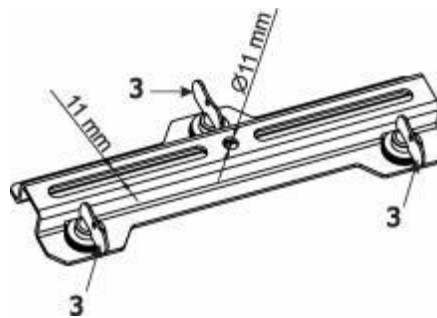
- 9- Tiltlock
- 10 -Sidelock
- 11-Base
- 12- Coolingopenings
- 13- QVGA touch screen
- 14- Controlbuttons
- 15-Attachment point for safety wire
- 16-Mounting adaptors

The moving head has to be locked for transportation or inserting into case - the moving head has to be oriented vertically (optics up) and the tiltlock button (9) has to be in the locked position. To unlock the head, press and move the lock button to the unlocked position before operating the fixture.





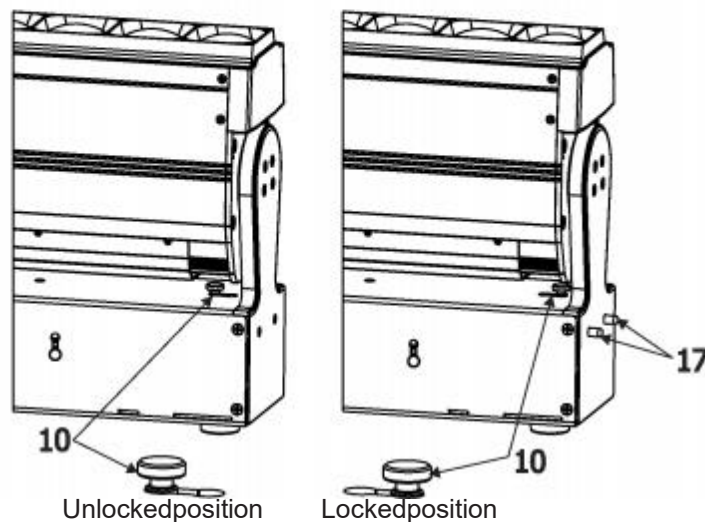
Mounting adaptor



Floor installation

The sidelock (10) allows you to interlock fixtures in a row when fixtures are installed side-by-side. If the sidelock (10) is in a locked position, two pins (17) stick out of the fixture housing and snap into holes in the housing of the adjacent fixture. Do not forget to unlock side locks before dismantling the row of interlocked fixtures.

The sidelock (10) has to be in unlocked position before inserting the fixture to the Quadtop loader case.



Avoid illuminating one fixture with another!

In order to protect the internal parts of the head from the sun, the function PARKING POSITION must be switched ON before switching the fixture off.

The PARKING POSITION function is located on the Power/Special functions channel (120-129 DMX). If the function is on, the fixture will automatically detect via G-sensor whether the fixture is on the floor or hangs on the truss and tilts the moving head to the position in which the moving head will always face down. Owing to this position of the moving head, there is no chance to burn internal parts of the LEDs array by the sunlight.

2. Diffuser and clear lens cover installation

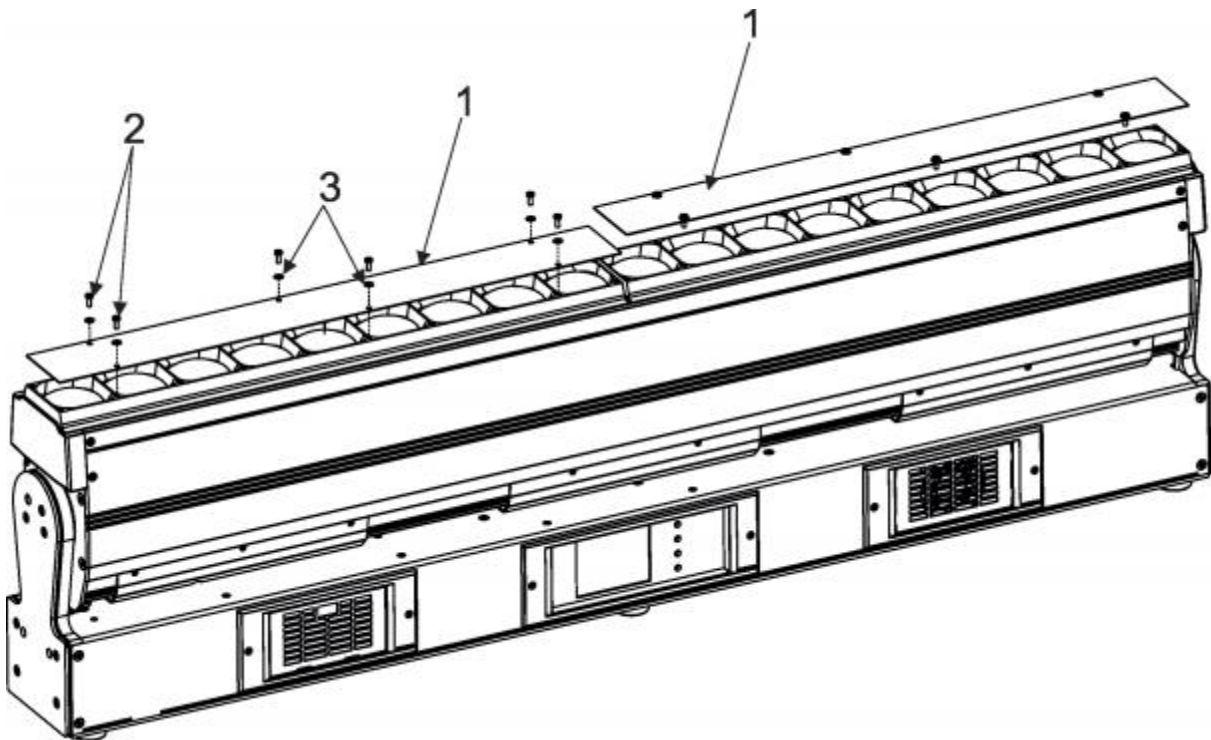
Disconnect the fixture from mains before diffuser or clear lens cover installation.

Diffuser.

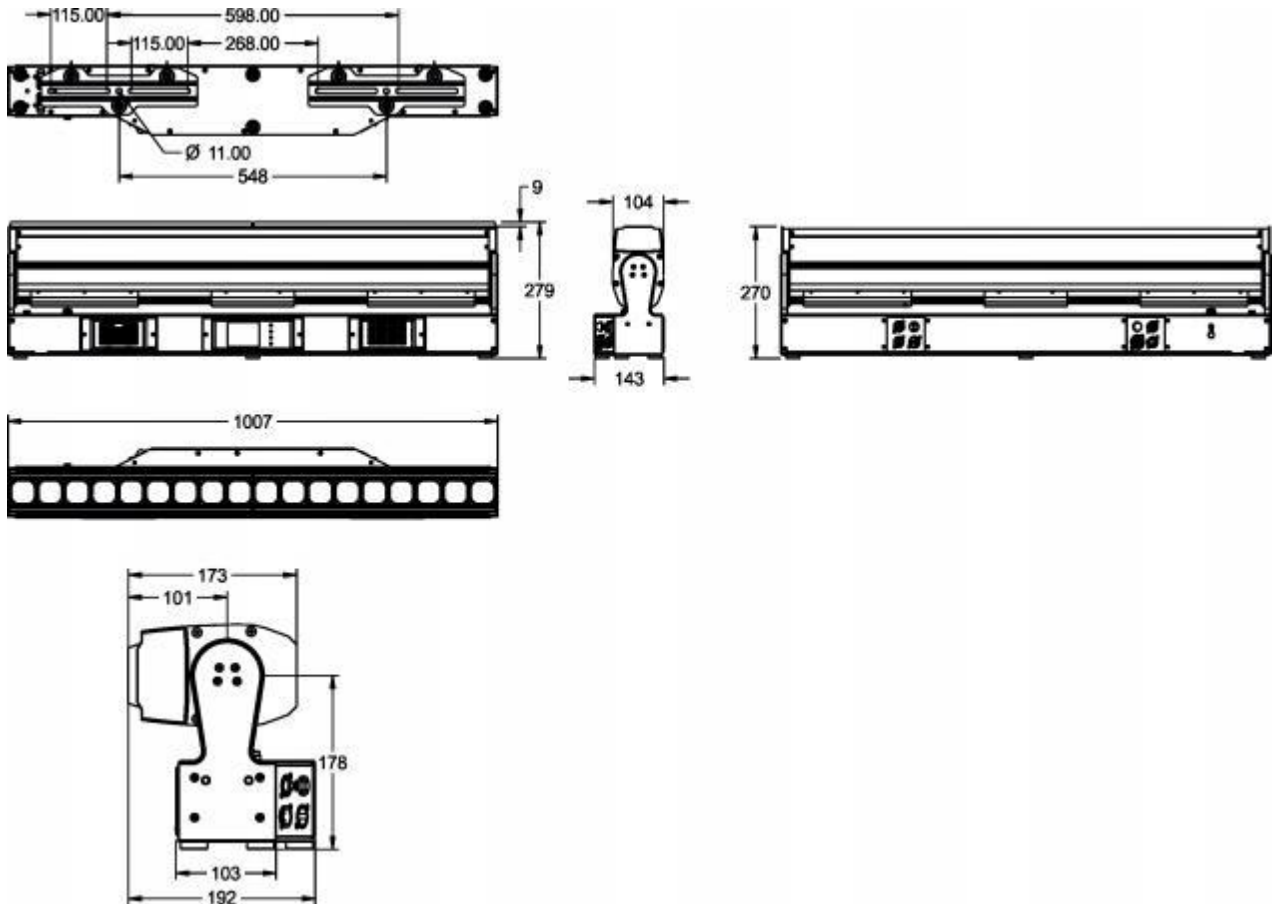
Screw both diffusers (1) on both zoom modules by means of 12 screws M3x8 (2) with washers (3). The sides of the diffusers have to be oriented to the lens.

Clear lens cover.

Screw both covers (1) on both zoom modules by means of 12 screws M3x8 (2) with rubber rings (3).



Dimensions (mm)



Optional accessories

- Upgrade kit CRMX Universal 260 (P/N99030100)
- Safety wire 35kg (P/N99011963)
- Daisy Chain powerCON TRUE1In/Out, EU, 2m, Indoor (P/N13052439)
- Daisy Chain powerCON TRUE1In/Out, US, 2m, Indoor (P/N13052440)
- Daisy Chain powerCON TRUE1In/Out, EU, 5m, Indoor (P/N13052444)
- Omega Adaptor CL- variable 2pcs in box (P/N10980550)
- Diffuser 2o for Robin Tetra 2 (P/N10980593)
- Clear lens cover Tetra 2 (P/N10980606)

3. Maintenance and cleaning

It is absolutely essential that the fixture is kept clean and that dust, dirt and smoke-fluid residues must not buildup on or inside optical system. Otherwise, the fixture's light output will be significantly reduced. Regular cleaning will not only ensure the maximum light output, but will also allow the fixture to function reliably throughout its life. A soft lint-free cloth moistened with any weak detergent solution is recommended for cleaning fixture's covers, under no circumstances should alcohol or solvents be used!

DANGER !
**Disconnect from the mains before starting any
 maintenance and cleaning work.**

The interior of the fixture should be cleaned at least annually using a vacuum cleaner or compressed air. The cooling fans in the base should be cleaned at least once a year.

Important! Never use alcohols (ethanol, methanol, isopropyl alcohol), acetone and another aggressive solvents for cleaning the LED lens array. Do not immerse lenses in liquid (e.g. water) during cleaning.

1. Use low pressure compressed air to remove coarse dust from lenses.
2. Use distilled water with weak detergent solution and lint-free small cloth for further cleaning of lenses.
3. Use an antistatic, alcohol-free screen cleaner (we recommend the Lyreco Screen Cleaner) and polish lenses until they are dry.
4. Check the lenses are dry before reapplying power.

Important! Check the air filter in the fixture base periodically and clean before they become clogged!

Periodically clean air filter placed in the fixture's base. The air filter cover is fastened by means of magnets. Use a vacuum cleaner, compressed air or you can wash them and put back dry.

After replacing the air filter, reset the elapsed time counter in the menu "Information" (Information--->Air Filters--->Elapsed Time).

Replacing the fuse.

Before replacing the fuse, unplug mains lead.

1. Remove the fuse holder on the rear panel of the base with a fittingscrewdriver from the housing (anti-clockwise).
2. Remove the old fuse from the fuseholder.
3. Install the new fuse in the fuseholder (only the same type and rating).
4. Replace the fuseholder in the housing and fix it.

Checking plastic parts of the fixture.

The plastic parts of the fixture should be checked for damages and beginning cracks at least every two months. If hint of a crack is found on some plastic part, do not use the fixture until the damaged part will be replaced. Cracks or another damages of the plastic parts can be caused by the fixture transportation or manipulation and also aging process may influence plastic materials.

This checking is necessary for both fixed installations and preparing fixtures for renting. Any free moving parts inside of the fixture, cracked plastic or any plastic part not sitting properly in place need to be immediately replaced.

4. Removing the optical modules

The following instructions are intended for service purposes only.

To remove the optical module from moving head

1. Connect the fixture to mains and after fixture reset go to the tab Manual Control, select item Master Zoom and set it at 0 DMX (both optical modules (1) have to be slid into the moving head).
2. Disconnect the fixture from mains.
3. Unscrew the four securing screws (2) on the guide-pins (3) which prevent the optical modules from sliding from the moving head. If you do not have access to the securing screws, carefully push the optical modules (1) to the head. **Do not touch the plastic lenses bare hands!**
4. To make easier pulling the optical module (1) out of the moving head, screw two screws M3 (e.g. 30 mm long) (7) to the holes with M3 thread as shown on the picture below. The two screws help you to hold the optical module.
5. Carefully take the optical modules (1) out of the guide-tubes (4) and motors (5).

To insert the optical modules back to the moving head

1. Connect the fixture to mains and after fixture reset go to the tab Manual Control, select item the Tilt and set it at 128 DMX and Master Zoom at 255 DMX.
2. Put one optical module (1) to the head in such a way that two guide-pins (3) aim into guide-tubes (4) and two lead screws (6) aim into motors (5).
3. Hold the optical module (1) in this position and slowly change the item Master Zoom from 255 DMX to 0 DMX. Motors "are pulling" the optical module in the head. If the optical module is not fully pulled into the head, carefully push the optical module into the head until you feel a stop. The optical module has to lay horizontally (it must not be askew).
To check the optical module movement, set the Master Zoom at 255-0 DMX a few times. The optical module has to move smoothly in both directions.
4. Set the Master Zoom at 255 DMX and repeat steps 2 and 3 for the second optical module.

5. Appendix -DMX modes overview

Pixelmodes underlined

Mode	DMX Channels	MainFeatures
Mode1	34	16-bit tilt Selection of active zone (rings,sectors) 8-bit control of four individual colours (R,G,B,W)andDimmer Flower effects control Without control of individualpixels.
Mode2	56	16-bit tilt Selection of active zone (rings,sectors) 16-bit control of four individual colours (R,G,B,W)andDimmer Pixelpatterns control (shape, repeat/size, rotation, transition,fade,crossfade,colour) Flower effects control Without control of individualpixels
<u>Mode3</u>	97	16-bit tilt Selection of active zone (rings,sectors) 16-bit control of four individual colours (R,G,B,W)andDimmer Flower effects control Individual control of pixels(R,G,B)
<u>Mode 4</u>	115	16-bit tilt Selection of active zone (rings,sectors) 16-bit control of four individual colours (R,G,B,W)andDimmer Flower effects control Individual control of pixels(R,G,B,W)
<u>Mode5</u>	110	16-bit tilt Selection of active zone (rings,sectors) 16-bit control of four individual colours (R,G,B,W)andDimmer Pixelpatterns control (shape, repeat/size, rotation, transition,fade,crossfade,colour)Flower effects control Individual control of pixels(R,G,B)
<u>Mode6</u>	128	16-bit tilt Selection of active zone (rings,sectors) 16-bit control of four individual colours (R,G,B,W)andDimmer Pixelpatterns control (shape, repeat/size, rotation, transition,fade,crossfade,colour)Flower effects control Individual control of pixels(R,G,B,W)

DMXprotocol

Mode/channel						DMX Value	Function	Type of control
1	2	3	4	5	6			
						0-255	Coloursaturationcontrol - coarse 0-100%(255=default)	proportional
21	26	26	26	26	26	0-31	FlowerEffect1 - Shutter/st Shutterclosed	step
						32-63	Shutteropen(32=default)	step
						64-95	St-effectfromslowtofast	proportional
						96-127	Shutteropen	step
						128-143	Openingpulseinsequencesfromslowtofast	proportional
						144-159	Closingpulseinsequencesfromfasttoslow	proportional
						160-191	Shutteropen	step
						192-223	Randomst-effectfromslowtofast	proportional
						224-255	Shutteropen	step
22	27	27	27	27	27	0-255	FlowerEffect1 -Dimmer intensity(8bit) Dimmerintensityfrom 0% to100%(255=default)	proportional
23	28	28	28	28	28	0	FlowerEffect 2 Openposition-	step
						1-127	withoutFlowerEffect(0=default)	proportional
						128	FlowerEffectforwardsrotationfromfasttoslow	step
						129-255	w FlowerEffect -withoutrotation Backwardsrotationfromslowtofast	proportional
24	29	29	29	29	29	0-255	FlowerEffect2 -Red/Cyan (8bit) Coloursaturationcontrol - coarse0-100%(255=default)	proportional
25	30	30	30	30	30	0-255	FlowerEffect 2 - Green/Magenta(8bit) Coloursaturationcontrol - coarse 0-100%(255=default)	proportional
26	31	31	31	31	31	0-255	Flower effect 2-Blue/Yellow(8bit) Coloursaturationcontrol - coarse0-100%(255=default)	proportional
27	32	32	32	32	32	0-255	FlowerEffect2 - White(8bit) Coloursaturationcontrol - coarse 0-100%(255=default)	proportional
28	33	33	33	33	33	0-31	FlowerEffect2 - Shutter/st Shutterclosed	step
						32-63	Shutteropen(32=default)	step
						64-95	St-effectfromslowtofast	proportional
						96-127	Shutteropen	step
						128-143	Openingpulseinsequencesfromslowtofast	proportional
						144-159	Closingpulseinsequencesfromfasttoslow	proportional
						160-191	Shutteropen	step
						192-223	Randomst-effectfromslowtofast	proportional
						224-255	Shutteropen	step
29	34	34	34	34	34	0-255	FlowerEffect2 -Dimmer intensity(8bit) Dimmerintensityfrom 0% to100%(255=default)	proportional
30	35	35	35	35	35	0-255	Master Zoom <i>The relation between Master zoom and Zoom 1/Zoom2 is LTP (Latest Takes Precedence). If you send the change of the zooms within the sameDMXframe, the Zoom 1/Zoom 2 will have priority.</i> Zoomfrommax. tomin.beamangle(128=default)	proportional
*	36	36	36	36	36	0-255	Master Zoom- fine Finezooming(0=default)	proportional
31	37	37	37	37	37	0-255	Zoom1 Zoomfrommax. tomin.beamangle(128=default)	proportional
*	38	38	38	38	38		Zoom1 -fine	

Mode/channel						DMX Value	Function	Type of control
1	2	3	4	5	6			
						0-255	Finezooming(0=default)	proportional
32	39	39	39	39	39	0-255	Zoom2 Zoomfrommax. tomin.beamangle(128=default)	proportional
*	40	40	40	40	40	0-255	Zoom2- fine Finezooming(0=default)	proportional
*	41	*	*	41	41	0-2	Pattern selection Nopattern(0=default)	
						3-4	Pattern1	step
						5-6	Pattern2	step
						7-8	Pattern3	step
						9-10	Pattern4	step
						11-12	Pattern5	step
						13-14	Pattern6	step
						15-16	Pattern7	step
						17-18	Pattern8	step
						19-20	Pattern9	step
						21-22	Pattern10	step
						23-24	Pattern11	step
						25-26	Pattern12	step
						27-255	RAWDMX	proportional
*	42	*	*	42	42	0-2	Pattern -Repeat(Size) Variant1(0=default)	step
						3-4	Variant2	step
						5-6	Variant3	step
						7-8	Variant4	step
						9-10	Variant5	step
						11-12	Variant6	step
						13-14	Variant7	step
						15-16	Variant8	step
						17-18	Variant9	step
						19-20	Variant10	step
						21-22	Variant11	step
						23-24	Variant12	step
						25-26	Variant13	step
						27-28	Variant14	step
						29-30	Variant15	step
						31-32	Variant16	step
						33-34	Variant17	step
						35-255	RawDMX	proportional
*	43	*	*	43	43	0	Pattern -Movement Nomovement	step
						1-127	Patternmovementfromfasttoslow	proportional
						128	Pause - withoutmovement(128=default)	step
						129-255	Backwardspatternmovementfromslowtofast	proportional
*	44	*	*	44	44	0	Pattern -Fade Snap(0=default)	step
						1-255	Fade frommin. tomax.	proportional
*	45	*	*	45	45		Pattern -Transition	

Mode/channel						DMX Value	Function	Type of control
1	2	3	4	5	6			
						0	Nofade(0=default)	step
						1	100ms	step
						:		
						255	4sec	step
*	46	*	*	46	46	0	Pattern -Crossfade	
						1-255	Background	step
							CrossfadebetweenBackground andPattern 0-100%(255=default)	proportional
*	47	*	*	47	47	0-255	Pattern -Red(8-bit)	
							Coloursaturationcontrol - coarse0-100%(255=default)	proportional
*	48	*	*	48	48	0-255	Pattern - Green(8-bit)	
							Coloursaturationcontrol - coarse0-100%(255=default)	proportional
*	49	*	*	49	49	0-255	Pattern -Blue(8-bit)	
							Coloursaturationcontrol - coarse0-100%(255=default)	proportional
*	50	*	*	50	50	0-255	Pattern - White(8-bit)	
							Coloursaturationcontrol - coarse0-100%(255=default)	proportional
*	51	*	*	51	51	0-2	Pattern - Colourmacro	
							Nomacro(0=default)	step
							Macros 2-23	
							allowcontrolofcolourchangespeedfrommax. tomin.	
						3-8	Macro1	step
						9-14	Macro2	proportional
						15-20	Macro3	proportional
						21-26	Macro4	proportional
						27-32	Macro5	proportional
						33-38	Macro6	proportional
						39-44	Macro7	proportional
						45-50	Macro8	proportional
						51-56	Macro9	proportional
						57-62	Macro10	proportional
						63-68	Macro11	proportional
						69-74	Macro12	proportional
						75-80	Macro13	proportional
						81-86	Macro14	proportional
						87-92	Macro15	proportional
						93-98	Macro16	proportional
						99-104	Macro17	proportional
						105-110	Macro18	proportional
						111-116	Macro19	proportional
						117-122	Macro20	proportional
						123-128	Macro21	proportional
						129-134	Macro22	proportional
						135-140	Macro23	proportional
						141-255	RawDMX	proportional
*	52	*	*	52	52	0-31	Pattern - Shutter/st	
							Shutterclosed	step
						32-63	Shutteropen(32=default)	step
						64-95	St effect fromslowtofast	proportional
						96-127	Shutteropen	step

Mode/channel						DMX Value	Function	Type of control
1	2	3	4	5	6			
						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 st effect from slow to fast	proportional
						224-255	Shutter open	step
*	53	*	*	53	53		Pattern -Dimmer intensity(8bit)	
						0-255	Dimmer intensity from 0% to 100% (255=default)	proportional
33	54	41	41	54	54		Master Shutter/ st	
						0-31	Shutter closed	step
						32-63	Shutter open (32=default)	step
						64-95	St 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 st effect from slow to fast	proportional
						224-255	Shutter open	step
34	55	42	42	55	55		Master Dimmer intensity(8bit)	
						0-255	Dimmer intensity from 0% to 100% (0=default)	proportional
*	56	43	43	56	56		Master Dimmer intensity - fine(16bit)	
						0-255	Fine dimming (0=default)	proportional
*	*	44	44	57	57		Red pixel 1	
						0-255	Red LED saturation control 0-100% (0=default)	proportional
*	*	45	45	58	58		Green pixel 1	
						0-255	Green LED saturation control 0-100% (0=default)	proportional
*	*	46	46	59	59		Blue pixel 1	
						0-255	Blue LED saturation control 0-100% (0=default)	proportional
*	*	*	47	*	60		White pixel 1	
						0-255	White LED saturation control 0-100% (0=default)	proportional
							:	
*	*	95	112	108	125		Red pixel 18	
						0-255	Red LED saturation control 0-100% (0=default)	proportional
*	*	96	113	109	126		Green pixel 18	
						0-255	Green LED saturation control 0-100% (0=default)	proportional
*	*	97	114	110	127		Blue pixel 18	
						0-255	Blue LED saturation control 0-100% (0=default)	proportional
*	*	*	115	*	128		White pixel 18	
						0-255	White LED saturation control 0-100% (0=default)	proportional
* function is active only 10 seconds after switching the fixture on								
** In the Tungsten effects simulation the Dimmer channel imitates behaviour of the halogen lamp during dimming								
*** Select RGB or CMY mixing mode on channel "Power/Special functions"								
**** You can adjust selected frequency in 6 steps Up or Down around selected frequency - see table below.								
Default value of PWM frequency set in the fixture is 300Hz.								
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Robin Tetra1/Tetra 2 - colours on VirtualColourWheel				
Colourname	Red (DMX)	Green (DMX)	Blue (DMX)	White (DMX)
Filter 4(MediumBastard Amber)	255	118	0	109
Filter25(SunsetRed)	255	50	0	3
Filter19(Fire)	255	13	0	0
Filter26(BrightRed)	255	0	0	0
Filter58(Lavender)	117	0	97	110
Filter68(SkyBlue)	42	195	100	0
Filter 36(MediumPink)	255	74	8	24
Filter 89(MossGreen)	69	245	0	3
Filter 88(LimeGreen)	187	226	0	0
Filter 90(Dark YellowGreen)	0	255	1	0
Filter 49(MediumPurple)	255	0	27	0
Filter52(LightLavender)	227	86	14	134
Filter102(Light Amber)	233	164	0	0
Filter103(Straw)	207	137	0	33
Filter140(SummerBlue)	0	161	7	218
Filter124(DarkGreen)	29	255	0	12
Filter106(PrimaryRed)	242	1	1	0
Filter111(DarkPink)	255	67	11	49
Filter115(PeacockBlue)	0	255	28	41
Filter126(Mauve)	255	0	39	0
Filter117(SteelBlue)	163	255	14	161
Filter118(LightBlue)	0	255	61	34
Filter122(Fern Green)	98	255	3	2
Filter182(LightRed)	255	16	2	0
Filter121(Filter Green)	165	255	0	0
Filter128(BrightPink)	255	0	13	32
Filter131(MarineBlue)	73	245	27	30
Filter132(MediumBlue)	0	193	113	0
Filter134(Golden Amber)	191	83	0	0
Filter135(Deep Golden Amber)	255	52	0	0
Filter136(PaleLavender)	164	96	29	54
Filter137(SpecialLavender)	130	60	63	102
Filter138(Pale Green)	226	255	0	51
Filter798(ChrysalisPink)	49	0	98	14
Filter141(BrightBlue)	8	176	62	0
Filter147(Apricot)	215	104	0	15
Filter148(BrightRose)	255	3	0	37
Filter152(PaleGold)	202	115	0	39
Filter154(PaleRose)	214	107	0	48
Filter157(Pink)	255	56	5	48
Filter143(PaleNavyBlue)	0	193	72	148
Filter162(Bastard Amber)	223	153	6	41
Filter164(FlameRed)	255	27	0	4
Filter165(DaylightBlue)	23	236	87	81
Filter169(Lilac Tint)	206	123	0	110
Filter170(DeepLavender)	235	123	41	33
Filter172(LagoonBlue)	0	255	54	0

Colourname	Red (DMX)	Green (DMX)	Blue (DMX)	White (DMX)
Filter194(SurprisePink)	110	0	21	255
Filter180(DarkLavender)	136	43	181	89
Filter181(CongoBlue)	37	0	255	0
Filter197(AliceBlue)	107	220	129	0
Filter201(Full C.T.Blue)	179	255	57	34
Filter202(Half C.T.Blue)	217	255	37	3
Filter203(QuarterC.T.Blue)	236	255	30	3
Filter204(Full C.T.Orange)	230	125	3	7
Filter219(FluorescentGreen)	99	148	16	50
Filter206(QuarterC.T.Orange)	204	140	0	57
Filter247(FilterMinus Green)	255	81	0	193
Filter 248(HalfMinusGreen)	255	144	0	137
Filter281(ThreeQuarterC.T.Blue)	225	255	72	160
Filter285(ThreeQuarterC.T.Orange)	199	124	0	17
Filter352(GlacierBlue)	0	161	65	90
Filter353(LighterBlue)	0	115	37	97
Filter507(Madge)	255	31	0	0
Filter778(Millennium Gold)	255	65	0	0
Filter793(VanityFair)	255	0	13	16

56C H	Channel Name	Channel Value	Channel Function
1	Y axle	0-255	0-180°
2	Y-axis Adjustment	0-255	fine-tuning
3	Y-axis Speed	0-255	Y-axis speed decreases from fast to slow
4	macro	0-10	NF
		11-24	Dimming Speed 1
		25-37	Dimming Speed 2
		38-42	Dimming Curve 1
		43-47	Dimming Curve 2
		48-52	Dimming Curve 3
		53-57	Dimming Curve 4
		58-255	NF
5	LED frequency	0-4	NF
		5-9	4KHz
		10-14	NF
		15-19	20KHz
		20-255	NF
6	LED frequency fine tuning	0-255	NF
7	Color Macro	0	NF
		1-2	Medium Bastard Amber
		3-4	Sunset Red
		5-6	Fire
		7-8	Bright Red
		9-10	Lavender
		11-12	Sky Blue
		13-14	Medium Pink)
		15-16	Moss Green

	17-18	Lime Green
	19-20	Dark Yellow Green
	21-22	Medium Purple
	23-24	Light Lavender
	25-26	Light Amber
	27-28	Straw
	29-30	Summer Blue
	31-32	Dark Green
	33-34	Primary Red
	35-36	(Dark Pink
	37-38	Peacock Blue
	39-40	Mauve
	41-42	Steel Blue
	43-44	Light Blue
	45-46	Filter 122 (Fern Green)
	47-48	Filter 182 (Light Red)
	49-50	Filter 121 (Filter Green)
	51-52	Filter 128 (Bright Pink)
	53-54	Filter 131 (Marine Blue)
	55-56	Filter 132 (Medium Blue)
	57-58	Filter 134 (Golden Amber)
	59-60	Filter 135 (Deep Golden Amber)
	61-62	Filter 136 (Pale Lavender)
	63-64	Filter 137 (Special Lavender)
	65-66	Filter 138 (Pale Green)
	67-68	Filter 798 (Chrysalis Pink)
	69-70	Filter 141 (Bright Blue)
	71-72	Filter 147 (Apricot)
	73-74	Filter 148 (Bright Rose)
	75-76	Filter 152 (Pale Gold)
	77-78	Filter 154 (Pale Rose)
	79-80	Filter 157 (Pink)
	81-82	Filter 143 (Pale Navy Blue)
	83-84	Filter 162 (Bastard Amber)
	85-86	Filter 164 (Flame Red)
	87-88	Filter 165 (Daylight Blue)
	89-90	Filter 169 (Lilac Tint)
	91-92	Filter 170 (Deep Lavender)
	93-94	Filter 172 (Lagoon Blue)
	95-96	Filter 194 (Surprise Pink)
	97-98	Filter 180 (Dark Lavender)
	99-100	Filter 181 (Congo Blue)
	101-102	Filter 197 (Alice Blue)
	103-104	Filter 201 (Full C.T. Blue)
	105-106	Filter 202 (Half C.T. Blue)
	107-108	Filter 203 (Quarter C.T. Blue)
	109-110	Filter 204 (Full C.T. Orange)
	111-112	Filter 219 (Fluorescent Green)
	113-114	Filter 206 (Quarter C.T. Orange)
	115-116	Filter 247 (Filter Minus Green)
	117-118	Filter 248 (Half Minus Green)
	119-120	Filter 281 (Three Quarter C.T. Blue)
	121-122	Filter 285 (Three Quarter C.T. Orange)
	123-124	Filter 352 (Glacier Blue)
	125-126	Filter 353 (Lighter Blue)

		127-128	Filter 507 (Madge)
		129-130	Filter 778 (Millennium Gold)
		131-132	Filter 793 (Vanity Fair)
		133-235	DMX
		236-245	Rainbow effect from slow to fast (with gradient)
		246-255	Rainbow effect from slow to fast (no gradient)
8	red	0-255	Dimming 0–100%
9	Red Fine Adjustment	0-255	fine-tuning
10	green	0-255	Dimming 0–100%
11	Green Fine Adjustment	0-255	fine-tuning
12	blue	0-255	Dimming 0–100%
13	Blue Fine Adjustment	0-255	fine-tuning
14	white	0-255	Dimming 0–100%
15	White Fine Adjustment	0-255	fine-tuning
16	CTO	0	NF
		1-255	From cold to warm
17	Background Stroboscopic Effect	0-31	Light Cclusion
		32-63	opening the light
		64-95	Standard stroboscopic effect, from slow to fast
		96-127	opening the light
		128-143	Slow start, fast stop; from slow to fast
		144-159	Slow start, fast finish; gradually slow down.
		160-191	opening the light
		192-223	Random stroboscopic effect, from slow to fast
		224-255	opening the light
18	Background Dimming	0-255	Dimming 0–100%
19	Background Dimming Fine Adjustment	0-255	fine-tuning
20	Color Mixing Mode	0-9	Global Color
		10-19	Maximum Value Mode
		20-29	Minimum Value Mode
		30-39	Multiplication Mode (Whole Control * Point Control)
		40-49	Addition Mode (Whole Control + Point Control)
		50-59	Subtraction Mode (Whole Control-Point Control)
		60-69	Reverse Subtraction Mode (Point Control-Overall Control)
		70-79	Color Background
		80-127	DMX
		128	Overall Control Priority
		129-254	Cross Gradient (from full-control gradient to point-controlled gradient)
		255	Point Control Priority
21	Flower Effect 1	0	NF
		1-127	From fast to slow in the forward direction
		128	Stop
		129-255	Reverse from slow to fast

22	Flower Effect 1: Red	0-255	Dimming 0–100%
23	Flower Effect 1: Green	0-255	Dimming 0–100%
24	Flower Effect 1: Blue	0-255	Dimming 0–100%
25	Flower Effect 1: White	0-255	Dimming 0–100%
26	Flower Effect 1: Stroboscopic Light	0-31	Light Cclusion
		32-63	opening the light
		64-95	Standard stroboscopic effect, from slow to fast
		96-127	opening the light
		128-143	Slow start, fast stop; from slow to fast
		144-159	Slow start, fast finish; gradually slow down.
		160-191	opening the light
		192-223	Random stroboscopic effect, from slow to fast
		224-255	opening the light
27	Flower Effect 1 Dimming	0-255	Dimming 0–100%
28	Flower Effect 2	0	NF
		1-127	From fast to slow in the forward direction
		128	Stop
		129-255	Reverse from slow to fast
29	Flower Effect 2 Red	0-255	Dimming 0–100%
30	Flower Effect 2: Green	0-255	Dimming 0–100%
31	Flower Effect 2 Blue	0-255	Dimming 0–100%
32	Flower Effect 2 White	0-255	Dimming 0–100%
33	Flower Effect 2: Stroboscopic Light	0-31	Light Cclusion
		32-63	opening the light
		64-95	Standard stroboscopic effect, from slow to fast
		96-127	opening the light
		128-143	Slow start, fast stop; from slow to fast
		144-159	Slow start, fast finish; gradually slow down.
		160-191	opening the light
		192-223	Random stroboscopic effect, from slow to fast
		224-255	opening the light
34	Flower Effect 2 Dimming	0-255	Dimming 0–100%
35	Final Focus Adjustment	0-255	From bottom to top
36	Main Focus Adjustment & Fine Adjustment	0-255	fine-tuning
37	Focus 1	0-255	Focus adjustment 1 from bottom to top
38	Focus adjustment (fine adjustment): 1	0-255	fine-tuning
39	Focus 2	0-255	Focus 2 from bottom to top
40	Focus adjustment (fine adjustment): 2	0-255	fine-tuning
41	effect	0-2	NF

		3-4	Effect 1
		5-6	Effect 2
		7-8	Effect 3
		9-10	Effect 4
		11-12	Effect 5
		13-14	Effect 6
		15-16	Effect 7
		17-18	Effect 8
		19-20	Effect 9
		21-22	Effect 10
		23-24	Effect 11
		25-26	Effect 12
		27-255	DMX
42	effect sizes	0-255	grow from a small beginning into a mighty
43	Effect Speed	0	NF
		1-127	From slow to fast
		128	Stop
		129-255	From fast to slow
44	Effect Gradient	0-255	Effect Gradient
45	Effect Transition	0-255	Effect Transition
46	Effect Cross Gradient	0-255	Cross Gradient
47	Effect Color: Red	0-255	Dimming 0–100%
48	Effect Color: Green	0-255	Dimming 0–100%
49	Effect Color: Blue	0-255	Dimming 0–100%
50	Effect: White	0-255	Dimming 0–100%
51	Effect Color Macro	0-2	NF
		3-8	Color Macro 1
		9-14	Color Macro 2
		15-20	Color Macro 3
		21-26	Color Macro 4
		27-32	Color Macro 5
		33-38	Color Macro 6
		39-44	Color Macro 7
		45-50	Color Macro 8
		51-56	Color Macro 9
		57-62	Color Macro 10
		63-68	Color Macro 11
		69-74	Color Macro 12
		75-80	Color Macro 13
		81-86	Color Macro 14
		87-92	Color Macro 15
		93-98	Color Macro 16
		99-104	Color Macro 17
		105-110	Color Macro 18
		111-116	Color Macro 19
		117-122	Color Macro 20
		123-128	Color Macro 21
		129-134	Color Macro 22
		135-140	Color Macro 23
		141-255	DMX
52	Effect	0-31	Light Cclusion

	Stroboscopic	32-63	opening the light
		64-95	Standard stroboscopic effect, from slow to fast
		96-127	opening the light
		128-143	Slow start, fast stop; from slow to fast
		144-159	Slow start, fast finish; gradually slow down.
		160-191	opening the light
		192-223	Random stroboscopic effect, from slow to fast
53	Effect Dimming	0-255	Dimming 0–100%
54	Total Strobismus	0-31	Light Cclusion
		32-63	opening the light
		64-95	Standard stroboscopic effect, from slow to fast
		96-127	opening the light
		128-143	Slow start, fast stop; from slow to fast
		144-159	Slow start, fast finish; gradually slow down.
		160-191	opening the light
		192-223	Random stroboscopic effect, from slow to fast
55	Total Dimming	0-255	Dimming 0–100%
56	Main Dimming & Fine Adjustment	0-255	fine-tuning

34CH

34 CH	Channel Name	Channel Value	Channel Function
1	Y axle	0-255	0-180°
2	Y-axis Adjustment	0-255	fine-tuning
3	Y-axis Speed	0-255	Y-axis speed decreases from fast to slow
4	macro	0-10	NF
		11-24	Dimming Speed 1
		25-37	Dimming Speed 2
		38-42	Dimming Curve 1
		43-47	Dimming Curve 2
		48-52	Dimming Curve 3
		53-57	Dimming Curve 4
5	LED frequency	58-255	NF
		0-4	NF
		5-9	4KHz
		10-14	NF
		15-19	20KHz
6	LED frequency fine tuning	20-255	NF
		0-255	NF
7	Color Macro	0	NF
		1-2	Medium Bastard Amber
		3-4	Sunset Red
		5-6	Fire

	7-8	Bright Red
	9-10	Lavender
	11-12	Sky Blue
	13-14	Medium Pink
	15-16	Moss Green
	17-18	Lime Green
	19-20	Dark Yellow Green
	21-22	Medium Purple
	23-24	Light Lavender
	25-26	Light Amber
	27-28	Straw
	29-30	Summer Blue
	31-32	Dark Green
	33-34	Primary Red
	35-36	(Dark Pink
	37-38	Peacock Blue
	39-40	Mauve
	41-42	Steel Blue
	43-44	Light Blue
	45-46	Filter 122 (Fern Green)
	47-48	Filter 182 (Light Red)
	49-50	Filter 121 (Filter Green)
	51-52	Filter 128 (Bright Pink)
	53-54	Filter 131 (Marine Blue)
	55-56	Filter 132 (Medium Blue)
	57-58	Filter 134 (Golden Amber)
	59-60	Filter 135 (Deep Golden Amber)
	61-62	Filter 136 (Pale Lavender)
	63-64	Filter 137 (Special Lavender)
	65-66	Filter 138 (Pale Green)
	67-68	Filter 798 (Chrysalis Pink)
	69-70	Filter 141 (Bright Blue)
	71-72	Filter 147 (Apricot)
	73-74	Filter 148 (Bright Rose)
	75-76	Filter 152 (Pale Gold)
	77-78	Filter 154 (Pale Rose)
	79-80	Filter 157 (Pink)
	81-82	Filter 143 (Pale Navy Blue)
	83-84	Filter 162 (Bastard Amber)
	85-86	Filter 164 (Flame Red)
	87-88	Filter 165 (Daylight Blue)
	89-90	Filter 169 (Lilac Tint)
	91-92	Filter 170 (Deep Lavender)
	93-94	Filter 172 (Lagoon Blue)
	95-96	Filter 194 (Surprise Pink)
	97-98	Filter 180 (Dark Lavender)
	99-100	Filter 181 (Congo Blue)

		101-102	Filter 197 (Alice Blue)
		103-104	Filter 201 (Full C.T. Blue)
		105-106	Filter 202 (Half C.T. Blue)
		107-108	Filter 203 (Quarter C.T. Blue)
		109-110	Filter 204 (Full C.T. Orange)
		111-112	Filter 219 (Fluorescent Green)
		113-114	Filter 206 (Quarter C.T. Orange)
		115-116	Filter 247 (Filter Minus Green)
		117-118	Filter 248 (Half Minus Green)
		119-120	Filter 281 (Three Quarter C.T. Blue)
		121-122	Filter 285 (Three Quarter C.T. Orange)
		123-124	Filter 352 (Glacier Blue)
		125-126	Filter 353 (Lighter Blue)
		127-128	Filter 507 (Madge)
		129-130	Filter 778 (Millennium Gold)
		131-132	Filter 793 (Vanity Fair)
		133-235	DMX
		236-245	Rainbow effect from slow to fast (with gradient)
		246-255	Rainbow effect from slow to fast (no gradient)
8	red	0-255	Dimming 0–100%
9	green	0-255	Dimming 0–100%
10	blue	0-255	Dimming 0–100%
11	white	0-255	Dimming 0–100%
12	CTO	0	NF
		1-255	From cold to warm
13	Background Stroboscopic Effect	0-31	Light Cclusion
		32-63	opening the light
		64-95	Standard stroboscopic effect, from slow to fast
		96-127	opening the light
		128-143	Slow start, fast stop; from slow to fast
		144-159	Slow start, fast finish; gradually slow down.
		160-191	opening the light
		192-223	Random stroboscopic effect, from slow to fast
		224-255	opening the light
14	Background Dimming	0-255	Dimming 0–100%
15	Color Mixing Mode	0-9	Global Color
		10-19	Maximum Value Mode
		20-29	Minimum Value Mode
		30-39	Multiplication Mode (Whole Control * Point Control)
		40-49	Addition Mode (Whole Control + Point Control)
		50-59	Subtraction Mode (Whole Control-Point Control)
		60-69	Reverse Subtraction Mode (Point Control-Overall Control)

		70-79	Color Background
		80-127	DMX
		128	Overall Control Priority
		129-254	Cross Gradient (from full-control gradient to point-controlled gradient)
		255	Point Control Priority
16	Flower Effect 1	0	NF
		1-127	From fast to slow in the forward direction
		128	Stop
		129-255	Reverse from slow to fast
17	Flower Effect 1: Red	0-255	Dimming 0–100%
18	Flower Effect 1: Green	0-255	Dimming 0–100%
19	Flower Effect 1: Blue	0-255	Dimming 0–100%
20	Flower Effect 1: White	0-255	Dimming 0–100%
21	Flower Effect 1: Stroboscopic Light	0-31	Light Cclusion
		32-63	opening the light
		64-95	Standard stroboscopic effect, from slow to fast
		96-127	opening the light
		128-143	Slow start, fast stop; from slow to fast
		144-159	Slow start, fast finish; gradually slow down.
		160-191	opening the light
		192-223	Random stroboscopic effect, from slow to fast
		224-255	opening the light
22	Flower Effect 1 Dimming	0-255	Dimming 0–100%
23	Flower Effect 2	0	NF
		1-127	From fast to slow in the forward direction
		128	Stop
		129-255	Reverse from slow to fast
24	Flower Effect 2 Red	0-255	Dimming 0–100%
25	Flower Effect 2: Green	0-255	Dimming 0–100%
26	Flower Effect 2 Blue	0-255	Dimming 0–100%
27	Flower Effect 2 White	0-255	Dimming 0–100%
28	Flower Effect 2: Stroboscopic Light	0-31	Light Cclusion
		32-63	opening the light
		64-95	Standard stroboscopic effect, from slow to fast
		96-127	opening the light

		128-143	Slow start, fast stop; from slow to fast
		144-159	Slow start, fast finish; gradually slow down.
		160-191	opening the light
		192-223	Random stroboscopic effect, from slow to fast
		224-255	opening the light
29	Flower Effect 2 Dimming	0-255	Dimming 0–100%
30	Final Focus Adjustment	0-255	From bottom to top
31	Focus 1	0-255	Focus adjustment 1 from bottom to top
32	Focus 2	0-255	Focus 2 from bottom to top
33	Total Strobismus	0-31	Light Cclusion
		32-63	opening the light
		64-95	Standard stroboscopic effect, from slow to fast
		96-127	opening the light
		128-143	Slow start, fast stop; from slow to fast
		144-159	Slow start, fast finish; gradually slow down.
		160-191	opening the light
		192-223	Random stroboscopic effect, from slow to fast
34	Total Dimming	0-255	Dimming 0–100%

97CH

97 CH	Channel Name	Channel Value	Channel Function
1	Y axle	0-255	0-180°
2	Y-axis Adjustment	0-255	fine-tuning
3	Y-axis Speed	0-255	Y-axis speed decreases from fast to slow
4	macro	0-10	NF
		11-24	Dimming Speed 1
		25-37	Dimming Speed 2
		38-42	Dimming Curve 1
		43-47	Dimming Curve 2
		48-52	Dimming Curve 3
		53-57	Dimming Curve 4
		58-255	NF
5	LED frequency	0-4	NF
		5-9	4KHz
		10-14	NF
		15-19	20KHz
		20-255	NF
6	LED frequency fine tuning	0-255	NF
7	Color Macro	0	NF
		1-2	Medium Bastard Amber
		3-4	Sunset Red
		5-6	Fire
		7-8	Bright Red
		9-10	Lavender

	11-12	Sky Blue
	13-14	Medium Pink)
	15-16	Moss Green
	17-18	Lime Green
	19-20	Dark Yellow Green
	21-22	Medium Purple
	23-24	Light Lavender
	25-26	Light Amber
	27-28	Straw
	29-30	Summer Blue
	31-32	Dark Green
	33-34	Primary Red
	35-36	(Dark Pink
	37-38	Peacock Blue
	39-40	Mauve
	41-42	Steel Blue
	43-44	Light Blue
	45-46	Filter 122 (Fern Green)
	47-48	Filter 182 (Light Red)
	49-50	Filter 121 (Filter Green)
	51-52	Filter 128 (Bright Pink)
	53-54	Filter 131 (Marine Blue)
	55-56	Filter 132 (Medium Blue)
	57-58	Filter 134 (Golden Amber)
	59-60	Filter 135 (Deep Golden Amber)
	61-62	Filter 136 (Pale Lavender)
	63-64	Filter 137 (Special Lavender)
	65-66	Filter 138 (Pale Green)
	67-68	Filter 798 (Chrysalis Pink)
	69-70	Filter 141 (Bright Blue)
	71-72	Filter 147 (Apricot)
	73-74	Filter 148 (Bright Rose)
	75-76	Filter 152 (Pale Gold)
	77-78	Filter 154 (Pale Rose)
	79-80	Filter 157 (Pink)
	81-82	Filter 143 (Pale Navy Blue)
	83-84	Filter 162 (Bastard Amber)
	85-86	Filter 164 (Flame Red)
	87-88	Filter 165 (Daylight Blue)
	89-90	Filter 169 (Lilac Tint)
	91-92	Filter 170 (Deep Lavender)
	93-94	Filter 172 (Lagoon Blue)
	95-96	Filter 194 (Surprise Pink)
	97-98	Filter 180 (Dark Lavender)
	99-100	Filter 181 (Congo Blue)
	101-102	Filter 197 (Alice Blue)
	103-104	Filter 201 (Full C.T. Blue)
	105-106	Filter 202 (Half C.T. Blue)
	107-108	Filter 203 (Quarter C.T. Blue)
	109-110	Filter 204 (Full C.T. Orange)
	111-112	Filter 219 (Fluorescent Green)
	113-114	Filter 206 (Quarter C.T. Orange)
	115-116	Filter 247 (Filter Minus Green)
	117-118	Filter 248 (Half Minus Green)
	119-120	Filter 281 (Three Quarter C.T. Blue)

		121-122	Filter 285 (Three Quarter C.T. Orange)
		123-124	Filter 352 (Glacier Blue)
		125-126	Filter 353 (Lighter Blue)
		127-128	Filter 507 (Madge)
		129-130	Filter 778 (Millennium Gold)
		131-132	Filter 793 (Vanity Fair)
		133-235	DMX
		236-245	Rainbow effect from slow to fast (with gradient)
		246-255	Rainbow effect from slow to fast (no gradient)
8	red	0-255	Dimming 0–100%
9	Red Fine Adjustment	0-255	fine-tuning
10	green	0-255	Dimming 0–100%
11	Green Fine Adjustment	0-255	fine-tuning
12	blue	0-255	Dimming 0–100%
13	Blue Fine Adjustment	0-255	fine-tuning
14	white	0-255	Dimming 0–100%
15	White Fine Adjustment	0-255	fine-tuning
16	CTO	0	NF
		1-255	From cold to warm
17	Background Stroboscopic Effect	0-31	Light Occlusion
		32-63	opening the light
		64-95	Standard stroboscopic effect, from slow to fast
		96-127	opening the light
		128-143	Slow start, fast stop; from slow to fast
		144-159	Slow start, fast finish; gradually slow down.
		160-191	opening the light
		192-223	Random stroboscopic effect, from slow to fast
18	Background Dimming	0-255	opening the light
		224-255	Dimming 0–100%
19	Background Dimming Fine Adjustment	0-255	fine-tuning
20	Color Mixing Mode	0-9	Global Color
		10-19	Maximum Value Mode
		20-29	Minimum Value Mode
		30-39	Multiplication Mode (Whole Control * Point Control)
		40-49	Addition Mode (Whole Control + Point Control)
		50-59	Subtraction Mode (Whole Control-Point Control)
		60-69	Reverse Subtraction Mode (Point Control-Overall Control)
		70-79	Color Background
		80-127	DMX
		128	Overall Control Priority
		129-254	Cross Gradient (from full-control gradient to point-controlled gradient)
		255	Point Control Priority
21	Flower Effect 1	0	NF
		1-127	From fast to slow in the forward direction
		128	Stop
		129-255	Reverse from slow to fast
22	Flower	0-255	Dimming 0–100%

	Effect 1: Red		
23	Flower Effect 1: Green	0-255	Dimming 0–100%
24	Flower Effect 1: Blue	0-255	Dimming 0–100%
25	Flower Effect 1: White	0-255	Dimming 0–100%
26	Flower Effect 1: Stroboscopic Light	0-31	Light Cclusion
		32-63	opening the light
		64-95	Standard stroboscopic effect, from slow to fast
		96-127	opening the light
		128-143	Slow start, fast stop; from slow to fast
		144-159	Slow start, fast finish; gradually slow down.
		160-191	opening the light
		192-223	Random stroboscopic effect, from slow to fast
		224-255	opening the light
27	Flower Effect 1 Dimming	0-255	Dimming 0–100%
28	Flower Effect 2	0	NF
		1-127	From fast to slow in the forward direction
		128	Stop
		129-255	Reverse from slow to fast
29	Flower Effect 2 Red	0-255	Dimming 0–100%
30	Flower Effect 2: Green	0-255	Dimming 0–100%
31	Flower Effect 2 Blue	0-255	Dimming 0–100%
32	Flower Effect 2 White	0-255	Dimming 0–100%
33	Flower Effect 2: Stroboscopic Light	0-31	Light Cclusion
		32-63	opening the light
		64-95	Standard stroboscopic effect, from slow to fast
		96-127	opening the light
		128-143	Slow start, fast stop; from slow to fast
		144-159	Slow start, fast finish; gradually slow down.
		160-191	opening the light
		192-223	Random stroboscopic effect, from slow to fast
		224-255	opening the light
34	Flower Effect 2 Dimming	0-255	Dimming 0–100%
35	Final Focus Adjustment	0-255	From bottom to top
36	Main Focus Adjustment & Fine Adjustment	0-255	fine-tuning
37	Focus 1	0-255	Focus adjustment 1 from bottom to top
38	Focus	0-255	fine-tuning

	adjustment (fine adjustment): 1		
39	Focus 2	0-255	Focus 2 from bottom to top
40	Focus adjustment (fine adjustment): 2	0-255	fine-tuning
41	Total Strobismus	0-31	Light Cclusion
		32-63	opening the light
		64-95	Standard stroboscopic effect, from slow to fast
		96-127	opening the light
		128-143	Slow start, fast stop; from slow to fast
		144-159	Slow start, fast finish; gradually slow down.
		160-191	opening the light
		192-223	Random stroboscopic effect, from slow to fast
42	Total Dimming	0-255	Dimming 0–100%
43	Main Dimming & Fine Adjustment	0-255	fine-tuning
44	LED1 Red	0-255	Dimming 0–100%
45	LED1 Green	0-255	Dimming 0–100%
46	LED 1 Blue	0-255	Dimming 0–100%
47	LED2 Red	0-255	Dimming 0–100%
48	LED2 Green	0-255	Dimming 0–100%
49	LED2 Blue	0-255	Dimming 0–100%
50	LED3 Red	0-255	Dimming 0–100%
51	LED3 Green	0-255	Dimming 0–100%
52	LED3 Blue	0-255	Dimming 0–100%
53	LED4 Red	0-255	Dimming 0–100%
54	LED4 Green	0-255	Dimming 0–100%
55	LED 4 Blue	0-255	Dimming 0–100%
56	LED5 Red	0-255	Dimming 0–100%
57	LED5 Green	0-255	Dimming 0–100%
58	LED5 Blue	0-255	Dimming 0–100%
59	LED6 Red	0-255	Dimming 0–100%
60	LED6 Green	0-255	Dimming 0–100%
61	LED6 Blue	0-255	Dimming 0–100%
62	LED7 Red	0-255	Dimming 0–100%
63	LED7 Green	0-255	Dimming 0–100%
64	LED7 Blue	0-255	Dimming 0–100%
65	LED8 Red	0-255	Dimming 0–100%
66	LED8 Green	0-255	Dimming 0–100%
67	LED8 Blue	0-255	Dimming 0–100%
68	LED 9 Red	0-255	Dimming 0–100%
69	LED 9 Green	0-255	Dimming 0–100%
70	LED 9 Blue	0-255	Dimming 0–100%
71	LED10 Red	0-255	Dimming 0–100%
72	LED10 Green	0-255	Dimming 0–100%
73	LED10 Blue	0-255	Dimming 0–100%

74	LED11 Red	0-255	Dimming 0–100%
75	LED11 Green	0-255	Dimming 0–100%
76	LED11 Blue	0-255	Dimming 0–100%
77	LED12 Red	0-255	Dimming 0–100%
78	LED12 Green	0-255	Dimming 0–100%
79	LED12 Blue	0-255	Dimming 0–100%
80	LED13 Red	0-255	Dimming 0–100%
81	LED13 Green	0-255	Dimming 0–100%
82	LED13 Blue	0-255	Dimming 0–100%
83	LED14 Red	0-255	Dimming 0–100%
84	LED14 Green	0-255	Dimming 0–100%
85	LED14 Blue	0-255	Dimming 0–100%
86	LED15 Red	0-255	Dimming 0–100%
87	LED15 Green	0-255	Dimming 0–100%
88	LED15 Blue	0-255	Dimming 0–100%
89	LED16 Red	0-255	Dimming 0–100%
90	LED16 Green	0-255	Dimming 0–100%
91	LED16 Blue	0-255	Dimming 0–100%
92	LED17 Red	0-255	Dimming 0–100%
93	LED17 Green	0-255	Dimming 0–100%
94	LED17 Blue	0-255	Dimming 0–100%
95	LED18 Red	0-255	Dimming 0–100%
96	LED18 Green	0-255	Dimming 0–100%
97	LED18 Blue	0-255	Dimming 0–100%

115CH

115 CH	Channel Name	Channel Value	Channel Function
1	Y axle	0-255	0-180°
2	Y-axis Adjustment	0-255	fine-tuning
3	Y-axis Speed	0-255	Y-axis speed decreases from fast to slow
4	macro	0-10	NF
		11-24	Dimming Speed 1
		25-37	Dimming Speed 2
		38-42	Dimming Curve 1
		43-47	Dimming Curve 2
		48-52	Dimming Curve 3
		53-57	Dimming Curve 4
		58-255	NF
5	LED frequency	0-4	NF
		5-9	4KHz

		10-14	NF
		15-19	20KHz
		20-255	NF
6	LED frequency fine tuning	0-255	NF
7	Color Macro	0	NF
		1-2	Medium Bastard Amber
		3-4	Sunset Red
		5-6	Fire
		7-8	Bright Red
		9-10	Lavender
		11-12	Sky Blue
		13-14	Medium Pink)
		15-16	Moss Green
		17-18	Lime Green
		19-20	Dark Yellow Green
		21-22	Medium Purple
		23-24	Light Lavender
		25-26	Light Amber
		27-28	Straw
		29-30	Summer Blue
		31-32	Dark Green
		33-34	Primary Red
		35-36	(Dark Pink
		37-38	Peacock Blue
		39-40	Mauve
		41-42	Steel Blue
		43-44	Light Blue
		45-46	Filter 122 (Fern Green)
		47-48	Filter 182 (Light Red)
		49-50	Filter 121 (Filter Green)
		51-52	Filter 128 (Bright Pink)
		53-54	Filter 131 (Marine Blue)
		55-56	Filter 132 (Medium Blue)
		57-58	Filter 134 (Golden Amber)
		59-60	Filter 135 (Deep Golden Amber)
		61-62	Filter 136 (Pale Lavender)
		63-64	Filter 137 (Special Lavender)
		65-66	Filter 138 (Pale Green)
		67-68	Filter 798 (Chrysalis Pink)
		69-70	Filter 141 (Bright Blue)
		71-72	Filter 147 (Apricot)
		73-74	Filter 148 (Bright Rose)
		75-76	Filter 152 (Pale Gold)
		77-78	Filter 154 (Pale Rose)

		79-80	Filter 157 (Pink)
		81-82	Filter 143 (Pale Navy Blue)
		83-84	Filter 162 (Bastard Amber)
		85-86	Filter 164 (Flame Red)
		87-88	Filter 165 (Daylight Blue)
		89-90	Filter 169 (Lilac Tint)
		91-92	Filter 170 (Deep Lavender)
		93-94	Filter 172 (Lagoon Blue)
		95-96	Filter 194 (Surprise Pink)
		97-98	Filter 180 (Dark Lavender)
		99-100	Filter 181 (Congo Blue)
		101-102	Filter 197 (Alice Blue)
		103-104	Filter 201 (Full C.T. Blue)
		105-106	Filter 202 (Half C.T. Blue)
		107-108	Filter 203 (Quarter C.T. Blue)
		109-110	Filter 204 (Full C.T. Orange)
		111-112	Filter 219 (Fluorescent Green)
		113-114	Filter 206 (Quarter C.T. Orange)
		115-116	Filter 247 (Filter Minus Green)
		117-118	Filter 248 (Half Minus Green)
		119-120	Filter 281 (Three Quarter C.T. Blue)
		121-122	Filter 285 (Three Quarter C.T. Orange)
		123-124	Filter 352 (Glacier Blue)
		125-126	Filter 353 (Lighter Blue)
		127-128	Filter 507 (Madge)
		129-130	Filter 778 (Millennium Gold)
		131-132	Filter 793 (Vanity Fair)
		133-235	DMX
		236-245	Rainbow effect from slow to fast (with gradient)
		246-255	Rainbow effect from slow to fast (no gradient)
8	red	0-255	Dimming 0–100%
9	Red Fine Adjustment	0-255	fine-tuning
10	green	0-255	Dimming 0–100%
11	Green Fine Adjustment	0-255	fine-tuning
12	blue	0-255	Dimming 0–100%

13	Blue Fine Adjustment	0-255	fine-tuning
14	white	0-255	Dimming 0–100%
15	White Fine Adjustment	0-255	fine-tuning
16	CTO	0	NF
		1-255	From cold to warm
17	Background Stroboscopic Effect	0-31	Light Cclusion
		32-63	opening the light
		64-95	Standard stroboscopic effect, from slow to fast
		96-127	opening the light
		128-143	Slow start, fast stop; from slow to fast
		144-159	Slow start, fast finish; gradually slow down.
		160-191	opening the light
		192-223	Random stroboscopic effect, from slow to fast
		224-255	opening the light
18	Background Dimming	0-255	Dimming 0–100%
19	Background Dimming Fine Adjustment	0-255	fine-tuning
20	Color Mixing Mode	0-9	Global Color
		10-19	Maximum Value Mode
		20-29	Minimum Value Mode
		30-39	Multiplication Mode (Whole Control * Point Control)
		40-49	Addition Mode (Whole Control + Point Control)
		50-59	Subtraction Mode (Whole Control-Point Control)
		60-69	Reverse Subtraction Mode (Point Control-Overall Control)
		70-79	Color Background
		80-127	DMX
		128	Overall Control Priority
		129-254	Cross Gradient (from full-control gradient to point-controlled gradient)
		255	Point Control Priority
21	Flower Effect 1	0	NF

		1-127	From fast to slow in the forward direction
		128	Stop
		129-255	Reverse from slow to fast
22	Flower Effect 1: Red	0-255	Dimming 0–100%
23	Flower Effect 1: Green	0-255	Dimming 0–100%
24	Flower Effect 1: Blue	0-255	Dimming 0–100%
25	Flower Effect 1: White	0-255	Dimming 0–100%
26	Flower Effect 1: Stroboscopic Light	0-31	Light Cclusion
		32-63	opening the light
		64-95	Standard stroboscopic effect, from slow to fast
		96-127	opening the light
		128-143	Slow start, fast stop; from slow to fast
		144-159	Slow start, fast finish; gradually slow down.
		160-191	opening the light
		192-223	Random stroboscopic effect, from slow to fast
		224-255	opening the light
27	Flower Effect 1 Dimming	0-255	Dimming 0–100%
28	Flower Effect 2	0	NF
		1-127	From fast to slow in the forward direction
		128	Stop
		129-255	Reverse from slow to fast
29	Flower Effect 2 Red	0-255	Dimming 0–100%
30	Flower Effect 2: Green	0-255	Dimming 0–100%
31	Flower Effect 2 Blue	0-255	Dimming 0–100%
32	Flower Effect 2 White	0-255	Dimming 0–100%

33	Flower Effect 2: Stroboscopic Light	0-31	Light Cclusion
		32-63	opening the light
		64-95	Standard stroboscopic effect, from slow to fast
		96-127	opening the light
		128-143	Slow start, fast stop; from slow to fast
		144-159	Slow start, fast finish; gradually slow down.
		160-191	opening the light
		192-223	Random stroboscopic effect, from slow to fast
		224-255	opening the light
34	Flower Effect 2 Dimming	0-255	Dimming 0–100%
35	Final Focus Adjustment	0-255	From bottom to top
36	Main Focus Adjustment & Fine Adjustment	0-255	fine-tuning
37	Focus 1	0-255	Focus adjustment 1 from bottom to top
38	Focus adjustment (fine adjustment): 1	0-255	fine-tuning
39	Focus 2	0-255	Focus 2 from bottom to top
40	Focus adjustment (fine adjustment): 2	0-255	fine-tuning
41	Total Strobismus	0-31	Light Cclusion
		32-63	opening the light
		64-95	Standard stroboscopic effect, from slow to fast
		96-127	opening the light
		128-143	Slow start, fast stop; from slow to fast
		144-159	Slow start, fast finish; gradually slow down.
		160-191	opening the light
		192-223	Random stroboscopic effect, from slow to fast

42	Total Dimming	0-255	Dimming 0–100%
43	Main Dimming & Fine Adjustment	0-255	fine-tuning
44	LED1 Red	0-255	Dimming 0–100%
45	LED1 Green	0-255	Dimming 0–100%
46	LED 1 Blue	0-255	Dimming 0–100%
47	LED 1 White	0-255	Dimming 0–100%
48	LED2 Red	0-255	Dimming 0–100%
49	LED2 Green	0-255	Dimming 0–100%
50	LED2 Blue	0-255	Dimming 0–100%
51	LED2 White	0-255	Dimming 0–100%
52	LED3 Red	0-255	Dimming 0–100%
53	LED3 Green	0-255	Dimming 0–100%
54	LED3 Blue	0-255	Dimming 0–100%
55	LED3 White	0-255	Dimming 0–100%
56	LED4 Red	0-255	Dimming 0–100%
57	LED4 Green	0-255	Dimming 0–100%
58	LED 4 Blue	0-255	Dimming 0–100%
59	LED4 White	0-255	Dimming 0–100%
60	LED5 Red	0-255	Dimming 0–100%
61	LED5 Green	0-255	Dimming 0–100%
62	LED5 Blue	0-255	Dimming 0–100%

63	LED5 White	0-255	Dimming 0–100%
64	LED6 Red	0-255	Dimming 0–100%
65	LED6 Green	0-255	Dimming 0–100%
66	LED6 Blue	0-255	Dimming 0–100%
67	LED6 White	0-255	Dimming 0–100%
68	LED7 Red	0-255	Dimming 0–100%
69	LED7 Green	0-255	Dimming 0–100%
70	LED7 Blue	0-255	Dimming 0–100%
71	LED7 White	0-255	Dimming 0–100%
72	LED8 Red	0-255	Dimming 0–100%
73	LED8 Green	0-255	Dimming 0–100%
74	LED8 Blue	0-255	Dimming 0–100%
75	LED8 White	0-255	Dimming 0–100%
76	LED 9 Red	0-255	Dimming 0–100%
77	LED 9 Green	0-255	Dimming 0–100%
78	LED 9 Blue	0-255	Dimming 0–100%
79	LED 9 White	0-255	Dimming 0–100%
80	LED10 Red	0-255	Dimming 0–100%
81	LED10 Green	0-255	Dimming 0–100%
82	LED10 Blue	0-255	Dimming 0–100%
83	LED10 White	0-255	Dimming 0–100%
84	LED11 Red	0-255	Dimming 0–100%
85	LED11 Green	0-255	Dimming 0–100%
86	LED11 Blue	0-255	Dimming 0–100%

87	LED11 White	0-255	Dimming 0–100%
88	LED12 Red	0-255	Dimming 0–100%
89	LED12 Green	0-255	Dimming 0–100%
90	LED12 Blue	0-255	Dimming 0–100%
91	LED12 White	0-255	Dimming 0–100%
92	LED13 Red	0-255	Dimming 0–100%
93	LED13 Green	0-255	Dimming 0–100%
94	LED13 Blue	0-255	Dimming 0–100%
95	LED13 White	0-255	Dimming 0–100%
96	LED14 Red	0-255	Dimming 0–100%
97	LED14 Green	0-255	Dimming 0–100%
98	LED14 Blue	0-255	Dimming 0–100%
99	LED14 White	0-255	Dimming 0–100%
100	LED15 Red	0-255	Dimming 0–100%
101	LED15 Green	0-255	Dimming 0–100%
102	LED15 Blue	0-255	Dimming 0–100%
103	LED15 White	0-255	Dimming 0–100%
104	LED16 Red	0-255	Dimming 0–100%
105	LED16 Green	0-255	Dimming 0–100%
106	LED16 Blue	0-255	Dimming 0–100%
107	LED16 White	0-255	Dimming 0–100%
108	LED17 Red	0-255	Dimming 0–100%
109	LED17 Green	0-255	Dimming 0–100%
110	LED17 Blue	0-255	Dimming 0–100%

111	LED17 White	0-255	Dimming 0–100%
112	LED18 Red	0-255	Dimming 0–100%
113	LED18 Green	0-255	Dimming 0–100%
114	LED18 Blue	0-255	Dimming 0–100%
115	LED18 White	0-255	Dimming 0–100%

110CH

110 CH	Channel Name	Channel Value	Channel Function
1	Y axle	0-255	0-180°
2	Y-axis Adjustment	0-255	fine-tuning
3	Y-axis Speed	0-255	Y-axis speed decreases from fast to slow
4	macro	0-10	NF
		11-24	Dimming Speed 1
		25-37	Dimming Speed 2
		38-42	Dimming Curve 1
		43-47	Dimming Curve 2
		48-52	Dimming Curve 3
		53-57	Dimming Curve 4
		58-255	NF
5	LED frequency	0-4	NF
		5-9	4KHz
		10-14	NF
		15-19	20KHz
		20-255	NF
6	LED frequency fine tuning	0-255	NF
7	Color Macro	0	NF
		1-2	Medium Bastard Amber
		3-4	Sunset Red
		5-6	Fire
		7-8	Bright Red
		9-10	Lavender
		11-12	Sky Blue
		13-14	Medium Pink)
		15-16	Moss Green
		17-18	Lime Green
		19-20	Dark Yellow Green
		21-22	Medium Purple
		23-24	Light Lavender
		25-26	Light Amber
		27-28	Straw
		29-30	Summer Blue
		31-32	Dark Green
		33-34	Primary Red

		35-36	(Dark Pink
		37-38	Peacock Blue
		39-40	Mauve
		41-42	Steel Blue
		43-44	Light Blue
		45-46	Filter 122 (Fern Green)
		47-48	Filter 182 (Light Red)
		49-50	Filter 121 (Filter Green)
		51-52	Filter 128 (Bright Pink)
		53-54	Filter 131 (Marine Blue)
		55-56	Filter 132 (Medium Blue)
		57-58	Filter 134 (Golden Amber)
		59-60	Filter 135 (Deep Golden Amber)
		61-62	Filter 136 (Pale Lavender)
		63-64	Filter 137 (Special Lavender)
		65-66	Filter 138 (Pale Green)
		67-68	Filter 798 (Chrysalis Pink)
		69-70	Filter 141 (Bright Blue)
		71-72	Filter 147 (Apricot)
		73-74	Filter 148 (Bright Rose)
		75-76	Filter 152 (Pale Gold)
		77-78	Filter 154 (Pale Rose)
		79-80	Filter 157 (Pink)
		81-82	Filter 143 (Pale Navy Blue)
		83-84	Filter 162 (Bastard Amber)
		85-86	Filter 164 (Flame Red)
		87-88	Filter 165 (Daylight Blue)
		89-90	Filter 169 (Lilac Tint)
		91-92	Filter 170 (Deep Lavender)
		93-94	Filter 172 (Lagoon Blue)
		95-96	Filter 194 (Surprise Pink)
		97-98	Filter 180 (Dark Lavender)
		99-100	Filter 181 (Congo Blue)
		101-102	Filter 197 (Alice Blue)
		103-104	Filter 201 (Full C.T. Blue)
		105-106	Filter 202 (Half C.T. Blue)
		107-108	Filter 203 (Quarter C.T. Blue)
		109-110	Filter 204 (Full C.T. Orange)
		111-112	Filter 219 (Fluorescent Green)
		113-114	Filter 206 (Quarter C.T. Orange)
		115-116	Filter 247 (Filter Minus Green)
		117-118	Filter 248 (Half Minus Green)
		119-120	Filter 281 (Three Quarter C.T. Blue)
		121-122	Filter 285 (Three Quarter C.T. Orange)
		123-124	Filter 352 (Glacier Blue)
		125-126	Filter 353 (Lighter Blue)
		127-128	Filter 507 (Madge)
		129-130	Filter 778 (Millennium Gold)
		131-132	Filter 793 (Vanity Fair)
		133-235	DMX
		236-245	Rainbow effect from slow to fast (with gradient)
		246-255	Rainbow effect from slow to fast (no gradient)
8	red	0-255	Dimming 0–100%

9	Red Fine Adjustment	0-255	fine-tuning
10	green	0-255	Dimming 0–100%
11	Green Fine Adjustment	0-255	fine-tuning
12	blue	0-255	Dimming 0–100%
13	Blue Fine Adjustment	0-255	fine-tuning
14	white	0-255	Dimming 0–100%
15	White Fine Adjustment	0-255	fine-tuning
16	CTO	0	NF
		1-255	From cold to warm
17	Background Stroboscopic Effect	0-31	Light Cclusion
		32-63	opening the light
		64-95	Standard stroboscopic effect, from slow to fast
		96-127	opening the light
		128-143	Slow start, fast stop; from slow to fast
		144-159	Slow start, fast finish; gradually slow down.
		160-191	opening the light
		192-223	Random stroboscopic effect, from slow to fast
		224-255	opening the light
18	Background Dimming	0-255	Dimming 0–100%
19	Background Dimming Fine Adjustment	0-255	fine-tuning
20	Color Mixing Mode	0-9	Global Color
		10-19	Maximum Value Mode
		20-29	Minimum Value Mode
		30-39	Multiplication Mode (Whole Control * Point Control)
		40-49	Addition Mode (Whole Control + Point Control)
		50-59	Subtraction Mode (Whole Control-Point Control)
		60-69	Reverse Subtraction Mode (Point Control-Overall Control)
		70-79	Color Background
		80-127	DMX
		128	Overall Control Priority
		129-254	Cross Gradient (from full-control gradient to point-controlled gradient)
		255	Point Control Priority
21	Flower Effect 1	0	NF

		1-127	From fast to slow in the forward direction
		128	Stop
		129-255	Reverse from slow to fast
22	Flower Effect 1: Red	0-255	Dimming 0–100%
23	Flower Effect 1: Green	0-255	Dimming 0–100%
24	Flower Effect 1: Blue	0-255	Dimming 0–100%
25	Flower Effect 1: White	0-255	Dimming 0–100%
26	Flower Effect 1: Stroboscopic Light	0-31	Light Cclusion
		32-63	opening the light
		64-95	Standard stroboscopic effect, from slow to fast
		96-127	opening the light
		128-143	Slow start, fast stop; from slow to fast
		144-159	Slow start, fast finish; gradually slow down.
		160-191	opening the light
		192-223	Random stroboscopic effect, from slow to fast
		224-255	opening the light
27	Flower Effect 1 Dimming	0-255	Dimming 0–100%
28	Flower Effect 2	0	NF
		1-127	From fast to slow in the forward direction
		128	Stop
		129-255	Reverse from slow to fast
29	Flower Effect 2 Red	0-255	Dimming 0–100%
30	Flower Effect 2: Green	0-255	Dimming 0–100%
31	Flower Effect 2 Blue	0-255	Dimming 0–100%
32	Flower Effect 2 White	0-255	Dimming 0–100%
33	Flower Effect 2: Stroboscopic Light	0-31	Light Cclusion
		32-63	opening the light
		64-95	Standard stroboscopic effect, from slow to fast
		96-127	opening the light
		128-143	Slow start, fast stop; from slow to fast
		144-159	Slow start, fast finish; gradually slow down.
		160-191	opening the light
		192-223	Random stroboscopic effect, from slow to fast
		224-255	opening the light
34	Flower Effect 2 Dimming	0-255	Dimming 0–100%

35	Final Focus Adjustment	0-255	From bottom to top
36	Main Focus Adjustment & Fine Adjustment	0-255	fine-tuning
37	Focus 1	0-255	Focus adjustment 1 from bottom to top
38	Focus adjustment (fine adjustment): 1	0-255	fine-tuning
39	Focus 2	0-255	Focus 2 from bottom to top
40	Focus adjustment (fine adjustment): 2	0-255	fine-tuning
41	effect	0-2	NF
		3-4	Effect 1
		5-6	Effect 2
		7-8	Effect 3
		9-10	Effect 4
		11-12	Effect 5
		13-14	Effect 6
		15-16	Effect 7
		17-18	Effect 8
		19-20	Effect 9
		21-22	Effect 10
		23-24	Effect 11
		25-26	Effect 12
		27-255	DMX
42	effect sizes	0-255	grow from a small beginning into a mighty
43	Effect Speed	0	NF
		1-127	From slow to fast
		128	Stop
		129-255	From fast to slow
44	Effect Gradient	0-255	Effect Gradient
45	Effect Transition	0-255	Effect Transition
46	Effect Cross Gradient	0-255	Cross Gradient
47	Effect Color: Red	0-255	Dimming 0–100%
48	Effect Color: Green	0-255	Dimming 0–100%
49	Effect Color: Blue	0-255	Dimming 0–100%

50	Effect: White	0-255	Dimming 0–100%
51	Effect Color Macro	0-2	NF
		3-8	Color Macro 1
		9-14	Color Macro 2
		15-20	Color Macro 3
		21-26	Color Macro 4
		27-32	Color Macro 5
		33-38	Color Macro 6
		39-44	Color Macro 7
		45-50	Color Macro 8
		51-56	Color Macro 9
		57-62	Color Macro 10
		63-68	Color Macro 11
		69-74	Color Macro 12
		75-80	Color Macro 13
		81-86	Color Macro 14
		87-92	Color Macro 15
		93-98	Color Macro 16
		99-104	Color Macro 17
		105-110	Color Macro 18
		111-116	Color Macro 19
		117-122	Color Macro 20
		123-128	Color Macro 21
		129-134	Color Macro 22
		135-140	Color Macro 23
		141-255	DMX
52	Effect Stroboscopic	0-31	Light Cclusion
		32-63	opening the light
		64-95	Standard stroboscopic effect, from slow to fast
		96-127	opening the light
		128-143	Slow start, fast stop; from slow to fast
		144-159	Slow start, fast finish; gradually slow down.
		160-191	opening the light
		192-223	Random stroboscopic effect, from slow to fast
53	Effect Dimming	0-255	Dimming 0–100%
54	Total Strobismus	0-31	Light Cclusion
		32-63	opening the light
		64-95	Standard stroboscopic effect, from slow to fast
		96-127	opening the light
		128-143	Slow start, fast stop; from slow to fast
		144-159	Slow start, fast finish; gradually slow down.
		160-191	opening the light
		192-223	Random stroboscopic effect, from slow to fast
55	Total Dimming	0-255	Dimming 0–100%
56	Main Dimming & Fine Adjustment	0-255	fine-tuning

57	LED1 Red	0-255	Dimming 0–100%
58	LED1 Green	0-255	Dimming 0–100%
59	LED 1 Blue	0-255	Dimming 0–100%
60	LED2 Red	0-255	Dimming 0–100%
61	LED2 Green	0-255	Dimming 0–100%
62	LED2 Blue	0-255	Dimming 0–100%
63	LED3 Red	0-255	Dimming 0–100%
64	LED3 Green	0-255	Dimming 0–100%
65	LED3 Blue	0-255	Dimming 0–100%
66	LED4 Red	0-255	Dimming 0–100%
67	LED4 Green	0-255	Dimming 0–100%
68	LED 4 Blue	0-255	Dimming 0–100%
69	LED5 Red	0-255	Dimming 0–100%
70	LED5 Green	0-255	Dimming 0–100%
71	LED5 Blue	0-255	Dimming 0–100%
72	LED6 Red	0-255	Dimming 0–100%
73	LED6 Green	0-255	Dimming 0–100%
74	LED6 Blue	0-255	Dimming 0–100%
75	LED7 Red	0-255	Dimming 0–100%
76	LED7 Green	0-255	Dimming 0–100%
77	LED7 Blue	0-255	Dimming 0–100%
78	LED8 Red	0-255	Dimming 0–100%
79	LED8 Green	0-255	Dimming 0–100%
80	LED8 Blue	0-255	Dimming 0–100%
81	LED 9 Red	0-255	Dimming 0–100%
82	LED 9 Green	0-255	Dimming 0–100%
83	LED 9 Blue	0-255	Dimming 0–100%
84	LED10 Red	0-255	Dimming 0–100%
85	LED10 Green	0-255	Dimming 0–100%

86	LED10 Blue	0-255	Dimming 0–100%
87	LED11 Red	0-255	Dimming 0–100%
88	LED11 Green	0-255	Dimming 0–100%
89	LED11 Blue	0-255	Dimming 0–100%
90	LED12 Red	0-255	Dimming 0–100%
91	LED12 Green	0-255	Dimming 0–100%
92	LED12 Blue	0-255	Dimming 0–100%
93	LED13 Red	0-255	Dimming 0–100%
94	LED13 Green	0-255	Dimming 0–100%
95	LED13 Blue	0-255	Dimming 0–100%
96	LED14 Red	0-255	Dimming 0–100%
97	LED14 Green	0-255	Dimming 0–100%
98	LED14 Blue	0-255	Dimming 0–100%
99	LED15 Red	0-255	Dimming 0–100%
100	LED15 Green	0-255	Dimming 0–100%
101	LED15 Blue	0-255	Dimming 0–100%
102	LED16 Red	0-255	Dimming 0–100%
103	LED16 Green	0-255	Dimming 0–100%
104	LED16 Blue	0-255	Dimming 0–100%
105	LED17 Red	0-255	Dimming 0–100%
106	LED17 Green	0-255	Dimming 0–100%
107	LED17 Blue	0-255	Dimming 0–100%
108	LED18 Red	0-255	Dimming 0–100%
109	LED18 Green	0-255	Dimming 0–100%
110	LED18 Blue	0-255	Dimming 0–100%

128CH

128 CH	Channel Name	Channel Value	Channel Function
1	Y axle	0-255	0-180°

2	Y-axis Adjustment	0-255	fine-tuning
3	Y-axis Speed	0-255	Y-axis speed decreases from fast to slow
4	macro	0-10	NF
		11-24	Dimming Speed 1
		25-37	Dimming Speed 2
		38-42	Dimming Curve 1
		43-47	Dimming Curve 2
		48-52	Dimming Curve 3
		53-57	Dimming Curve 4
		58-255	NF
5	LED frequency	0-4	NF
		5-9	4KHz
		10-14	NF
		15-19	20KHz
		20-255	NF
6	LED frequency fine tuning	0-255	NF
7	Color Macro	0	NF
		1-2	Medium Bastard Amber
		3-4	Sunset Red
		5-6	Fire
		7-8	Bright Red
		9-10	Lavender
		11-12	Sky Blue
		13-14	Medium Pink)
		15-16	Moss Green
		17-18	Lime Green
		19-20	Dark Yellow Green
		21-22	Medium Purple
		23-24	Light Lavender
		25-26	Light Amber
		27-28	Straw
		29-30	Summer Blue
		31-32	Dark Green
		33-34	Primary Red
		35-36	(Dark Pink
		37-38	Peacock Blue
		39-40	Mauve
		41-42	Steel Blue
		43-44	Light Blue
		45-46	Filter 122 (Fern Green)
		47-48	Filter 182 (Light Red)
		49-50	Filter 121 (Filter Green)
		51-52	Filter 128 (Bright Pink)
		53-54	Filter 131 (Marine Blue)

		55-56	Filter 132 (Medium Blue)
		57-58	Filter 134 (Golden Amber)
		59-60	Filter 135 (Deep Golden Amber)
		61-62	Filter 136 (Pale Lavender)
		63-64	Filter 137 (Special Lavender)
		65-66	Filter 138 (Pale Green)
		67-68	Filter 798 (Chrysalis Pink)
		69-70	Filter 141 (Bright Blue)
		71-72	Filter 147 (Apricot)
		73-74	Filter 148 (Bright Rose)
		75-76	Filter 152 (Pale Gold)
		77-78	Filter 154 (Pale Rose)
		79-80	Filter 157 (Pink)
		81-82	Filter 143 (Pale Navy Blue)
		83-84	Filter 162 (Bastard Amber)
		85-86	Filter 164 (Flame Red)
		87-88	Filter 165 (Daylight Blue)
		89-90	Filter 169 (Lilac Tint)
		91-92	Filter 170 (Deep Lavender)
		93-94	Filter 172 (Lagoon Blue)
		95-96	Filter 194 (Surprise Pink)
		97-98	Filter 180 (Dark Lavender)
		99-100	Filter 181 (Congo Blue)
		101-102	Filter 197 (Alice Blue)
		103-104	Filter 201 (Full C.T. Blue)
		105-106	Filter 202 (Half C.T. Blue)
		107-108	Filter 203 (Quarter C.T. Blue)
		109-110	Filter 204 (Full C.T. Orange)
		111-112	Filter 219 (Fluorescent Green)
		113-114	Filter 206 (Quarter C.T. Orange)
		115-116	Filter 247 (Filter Minus Green)
		117-118	Filter 248 (Half Minus Green)
		119-120	Filter 281 (Three Quarter C.T. Blue)
		121-122	Filter 285 (Three Quarter C.T. Orange)
		123-124	Filter 352 (Glacier Blue)
		125-126	Filter 353 (Lighter Blue)
		127-128	Filter 507 (Madge)
		129-130	Filter 778 (Millennium Gold)
		131-132	Filter 793 (Vanity Fair)
		133-235	DMX
		236-245	Rainbow effect from slow to fast (with gradient)
		246-255	Rainbow effect from slow to fast (no gradient)
8	red	0-255	Dimming 0–100%
9	Red Fine Adjustment	0-255	fine-tuning

10	green	0-255	Dimming 0–100%
11	Green Fine Adjustment	0-255	fine-tuning
12	blue	0-255	Dimming 0–100%
13	Blue Fine Adjustment	0-255	fine-tuning
14	white	0-255	Dimming 0–100%
15	White Fine Adjustment	0-255	fine-tuning
16	CTO	0	NF
		1-255	From cold to warm
17	Background Stroboscopic Effect	0-31	Light Cclusion
		32-63	opening the light
		64-95	Standard stroboscopic effect, from slow to fast
		96-127	opening the light
		128-143	Slow start, fast stop; from slow to fast
		144-159	Slow start, fast finish; gradually slow down.
		160-191	opening the light
		192-223	Random stroboscopic effect, from slow to fast
		224-255	opening the light
18	Background Dimming	0-255	Dimming 0–100%
19	Background Dimming Fine Adjustment	0-255	fine-tuning
20	Color Mixing Mode	0-9	Global Color
		10-19	Maximum Value Mode
		20-29	Minimum Value Mode
		30-39	Multiplication Mode (Whole Control * Point Control)
		40-49	Addition Mode (Whole Control + Point Control)
		50-59	Subtraction Mode (Whole Control-Point Control)
		60-69	Reverse Subtraction Mode (Point Control-Overall Control)
		70-79	Color Background
		80-127	DMX
		128	Overall Control Priority
		129-254	Cross Gradient (from full-control gradient to point-controlled gradient)
		255	Point Control Priority
21	Flower Effect 1	0	NF
		1-127	From fast to slow in the forward direction
		128	Stop
		129-255	Reverse from slow to fast

22	Flower Effect 1: Red	0-255	Dimming 0–100%
23	Flower Effect 1: Green	0-255	Dimming 0–100%
24	Flower Effect 1: Blue	0-255	Dimming 0–100%
25	Flower Effect 1: White	0-255	Dimming 0–100%
26	Flower Effect 1: Stroboscopic Light	0-31	Light Cclusion
		32-63	opening the light
		64-95	Standard stroboscopic effect, from slow to fast
		96-127	opening the light
		128-143	Slow start, fast stop; from slow to fast
		144-159	Slow start, fast finish; gradually slow down.
		160-191	opening the light
		192-223	Random stroboscopic effect, from slow to fast
		224-255	opening the light
27	Flower Effect 1 Dimming	0-255	Dimming 0–100%
28	Flower Effect 2	0	NF
		1-127	From fast to slow in the forward direction
		128	Stop
		129-255	Reverse from slow to fast
29	Flower Effect 2 Red	0-255	Dimming 0–100%
30	Flower Effect 2: Green	0-255	Dimming 0–100%
31	Flower Effect 2 Blue	0-255	Dimming 0–100%
32	Flower Effect 2 White	0-255	Dimming 0–100%
33	Flower Effect 2: Stroboscopic Light	0-31	Light Cclusion
		32-63	opening the light
		64-95	Standard stroboscopic effect, from slow to fast
		96-127	opening the light
		128-143	Slow start, fast stop; from slow to fast
		144-159	Slow start, fast finish; gradually slow down.
		160-191	opening the light

		192-223	Random stroboscopic effect, from slow to fast
		224-255	opening the light
34	Flower Effect 2 Dimming	0-255	Dimming 0–100%
35	Final Focus Adjustment	0-255	From bottom to top
36	Main Focus Adjustment & Fine Adjustment	0-255	fine-tuning
37	Focus 1	0-255	Focus adjustment 1 from bottom to top
38	Focus adjustment (fine adjustment): 1	0-255	fine-tuning
39	Focus 2	0-255	Focus 2 from bottom to top
40	Focus adjustment (fine adjustment): 2	0-255	fine-tuning
41	effect	0-2	NF
		3-4	Effect 1
		5-6	Effect 2
		7-8	Effect 3
		9-10	Effect 4
		11-12	Effect 5
		13-14	Effect 6
		15-16	Effect 7
		17-18	Effect 8
		19-20	Effect 9
		21-22	Effect 10
		23-24	Effect 11
		25-26	Effect 12
		27-255	DMX
42	effect sizes	0-255	grow from a small beginning into a mighty
43	Effect Speed	0	NF
		1-127	From slow to fast
		128	Stop
		129-255	From fast to slow
44	Effect Gradient	0-255	Effect Gradient
45	Effect Transition	0-255	Effect Transition
46	Effect Cross Gradient	0-255	Cross Gradient

47	Effect Color: Red	0-255	Dimming 0–100%
48	Effect Color: Green	0-255	Dimming 0–100%
49	Effect Color: Blue	0-255	Dimming 0–100%
50	Effect: White	0-255	Dimming 0–100%
51	Effect Color Macro	0-2	NF
		3-8	Color Macro 1
		9-14	Color Macro 2
		15-20	Color Macro 3
		21-26	Color Macro 4
		27-32	Color Macro 5
		33-38	Color Macro 6
		39-44	Color Macro 7
		45-50	Color Macro 8
		51-56	Color Macro 9
		57-62	Color Macro 10
		63-68	Color Macro 11
		69-74	Color Macro 12
		75-80	Color Macro 13
		81-86	Color Macro 14
		87-92	Color Macro 15
		93-98	Color Macro 16
		99-104	Color Macro 17
		105-110	Color Macro 18
		111-116	Color Macro 19
		117-122	Color Macro 20
		123-128	Color Macro 21
		129-134	Color Macro 22
		135-140	Color Macro 23
		141-255	DMX
52	Effect Stroboscopic	0-31	Light Cclusion
		32-63	opening the light
		64-95	Standard stroboscopic effect, from slow to fast
		96-127	opening the light
		128-143	Slow start, fast stop; from slow to fast
		144-159	Slow start, fast finish; gradually slow down.
		160-191	opening the light
		192-223	Random stroboscopic effect, from slow to fast
53	Effect Dimming	0-255	Dimming 0–100%
54	Total Strobismus	0-31	Light Cclusion
		32-63	opening the light
		64-95	Standard stroboscopic effect, from slow to

			fast
		96-127	opening the light
		128-143	Slow start, fast stop; from slow to fast
		144-159	Slow start, fast finish; gradually slow down.
		160-191	opening the light
		192-223	Random stroboscopic effect, from slow to fast
55	Total Dimming	0-255	Dimming 0–100%
56	Main Dimming & Fine Adjustment	0-255	fine-tuning
57	LED1 Red	0-255	Dimming 0–100%
58	LED1 Green	0-255	Dimming 0–100%
59	LED 1 Blue	0-255	Dimming 0–100%
60	LED 1 White	0-255	Dimming 0–100%
61	LED2 Red	0-255	Dimming 0–100%
62	LED2 Green	0-255	Dimming 0–100%
63	LED2 Blue	0-255	Dimming 0–100%
64	LED2 White	0-255	Dimming 0–100%
65	LED3 Red	0-255	Dimming 0–100%
66	LED3 Green	0-255	Dimming 0–100%
67	LED3 Blue	0-255	Dimming 0–100%
68	LED3 White	0-255	Dimming 0–100%
69	LED4 Red	0-255	Dimming 0–100%
70	LED4 Green	0-255	Dimming 0–100%
71	LED 4 Blue	0-255	Dimming 0–100%
72	LED4 White	0-255	Dimming 0–100%
73	LED5 Red	0-255	Dimming 0–100%
74	LED5 Green	0-255	Dimming 0–100%

75	LED5 Blue	0-255	Dimming 0–100%
76	LED5 White	0-255	Dimming 0–100%
77	LED6 Red	0-255	Dimming 0–100%
78	LED6 Green	0-255	Dimming 0–100%
79	LED6 Blue	0-255	Dimming 0–100%
80	LED6 White	0-255	Dimming 0–100%
81	LED7 Red	0-255	Dimming 0–100%
82	LED7 Green	0-255	Dimming 0–100%
83	LED7 Blue	0-255	Dimming 0–100%
84	LED7 White	0-255	Dimming 0–100%
85	LED8 Red	0-255	Dimming 0–100%
86	LED8 Green	0-255	Dimming 0–100%
87	LED8 Blue	0-255	Dimming 0–100%
88	LED8 White	0-255	Dimming 0–100%
89	LED 9 Red	0-255	Dimming 0–100%
90	LED 9 Green	0-255	Dimming 0–100%
91	LED 9 Blue	0-255	Dimming 0–100%
92	LED 9 White	0-255	Dimming 0–100%
93	LED10 Red	0-255	Dimming 0–100%
94	LED10 Green	0-255	Dimming 0–100%
95	LED10 Blue	0-255	Dimming 0–100%
96	LED10 White	0-255	Dimming 0–100%
97	LED11 Red	0-255	Dimming 0–100%
98	LED11 Green	0-255	Dimming 0–100%

99	LED11 Blue	0-255	Dimming 0–100%
100	LED11 White	0-255	Dimming 0–100%
101	LED12 Red	0-255	Dimming 0–100%
102	LED12 Green	0-255	Dimming 0–100%
103	LED12 Blue	0-255	Dimming 0–100%
104	LED12 White	0-255	Dimming 0–100%
105	LED13 Red	0-255	Dimming 0–100%
106	LED13 Green	0-255	Dimming 0–100%
107	LED13 Blue	0-255	Dimming 0–100%
108	LED13 White	0-255	Dimming 0–100%
109	LED14 Red	0-255	Dimming 0–100%
110	LED14 Green	0-255	Dimming 0–100%
111	LED14 Blue	0-255	Dimming 0–100%
112	LED14 White	0-255	Dimming 0–100%
113	LED15 Red	0-255	Dimming 0–100%
114	LED15 Green	0-255	Dimming 0–100%
115	LED15 Blue	0-255	Dimming 0–100%
116	LED15 White	0-255	Dimming 0–100%
117	LED16 Red	0-255	Dimming 0–100%
118	LED16 Green	0-255	Dimming 0–100%
119	LED16 Blue	0-255	Dimming 0–100%
120	LED16 White	0-255	Dimming 0–100%
121	LED17 Red	0-255	Dimming 0–100%
122	LED17 Green	0-255	Dimming 0–100%

123	LED17 Blue	0-255	Dimming 0–100%
124	LED17 White	0-255	Dimming 0–100%
125	LED18 Red	0-255	Dimming 0–100%
126	LED18 Green	0-255	Dimming 0–100%
127	LED18 Blue	0-255	Dimming 0–100%
128	LED18 White	0-255	Dimming 0–100%

6. Specification

Power

Input Power: 180-240V~ 50/60Hz

Power: 800W

Light Source

Light Source: 18 x 40W RGBW LEDs

White Light Color Temperature: 6,300K

Luminous Flux: 5,300 lumens

LED Expected Life: 20,000 hours

Optical System

Beam Angle: 4°-45° (Beam End)

Spot Angle: 5°-50° (Beam End)

Control System

4 Buttons Control Panel: LCD Display

Control Protocol: DMX512, RDM, Art-Net, Master-slave, Sound Run, Auto Run

DMX Channel Modes: 6 types

Channel Modes: CH34, CH56, CH97, CH115, CH110, CH128

Software Upgrades: Update software via DMX connection

Tilt Movement

Tilt Operating Angle: 202°

16 bit movement resolution

Electrical and Connectors

Power Socket: Powercon connector input/output

Signal Input/Output: 3-pin or 5-pin XLR socket, RJ45

Body

Appearance: metal, black

IP Rating: IP20

Product Dimensions: 1019.6x153.37x228.76mm

Net Weight: 17.5kg