

IP65 4x40W RGBL PAR CAN WITH HALO EFFECT

USER MANUAL

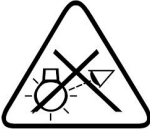


For safety, please read this user manual carefully before initial use.

Tealshine reserves the right to revise the manual at any time. Information and specifications within this manual are subject to change without notice. Tealshine assumes no liability or responsibility for any errors or omissions. Please consult Tealshine for any clarification or information regarding this item.

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1 Important Safety Information

Symbol	Meaning
	General risk.
	Electric shock risk
	Hot surface
	Suitable for indoor use only.
$T_a 45^{\circ}\text{C}$	Maximum operating ambient temperature.
	Minimum distance from illuminated objects.
	Do not stare at the operating light source.
 Risk Group 2	Photobiological safety risk group2
	Never expose the front lens to sunlight or any strong artificial Light source from any angle to avoid damage of head internal parts.



(WEEE)

European Community Directive 2012/19/EU on Waste Electrical and Electronic Equipment.

2 General Warning

Carefully read the instruction contained in this User Manual, as they give important information regarding your safety and others during installation, use, and maintenance of the product.

The unit is not suitable for domestic use and must be installed by qualified personnel only.

The device must always be equipped with an efficient ground connection.

3 Level of protection IP



- The projector is classified as an ordinary appliance and its protection level against the penetration of solid and liquid objects is IP65.
- The projector contains electric and electronic components which should under no circumstances come into contact with oil, water, or any other liquid. The proper functioning of the unit would be compromised should this occur.

4 Included Items

- 1x PowerCON female connector
- 2x Omega clamp with ¼- turn “Fast Lock” connection(For moving head)
- Safety cable(Optional)
- Signal cable

5 General Warranty Conditions

The unit is guaranteed for 12 months from the date of purchase against manufacturing material defects.

The warranty covers defects in materials and workmanship. The warranty is not applicable where a defect is caused by misuse or unauthorized repair of the product.

Any functional or/and physical modification of the product is not allowed.

6 Product Installation

The unit is suitable for dry locations only.

The unit may be either floor or ceiling mounted.

6.1 Floor mounting

For floor mounting installations, This model is supplied with four rubber mounting feet at the base

6.2 Ceiling mounting

For ceiling mounting installations, we recommend the use of appropriate clamps to fix the unit to the mounting surface.

The supporting structure from which the unit is hung should be capable of bearing the weight of the unit, as should any clamps used to hang it.

The structure should also be sufficiently rigid as not to move or shake whilst the device is moving.

Four ¼-turn “Fast Lock” connections placed in the base of the unit allow this model to hang by using Omega brackets (provided with the unit)

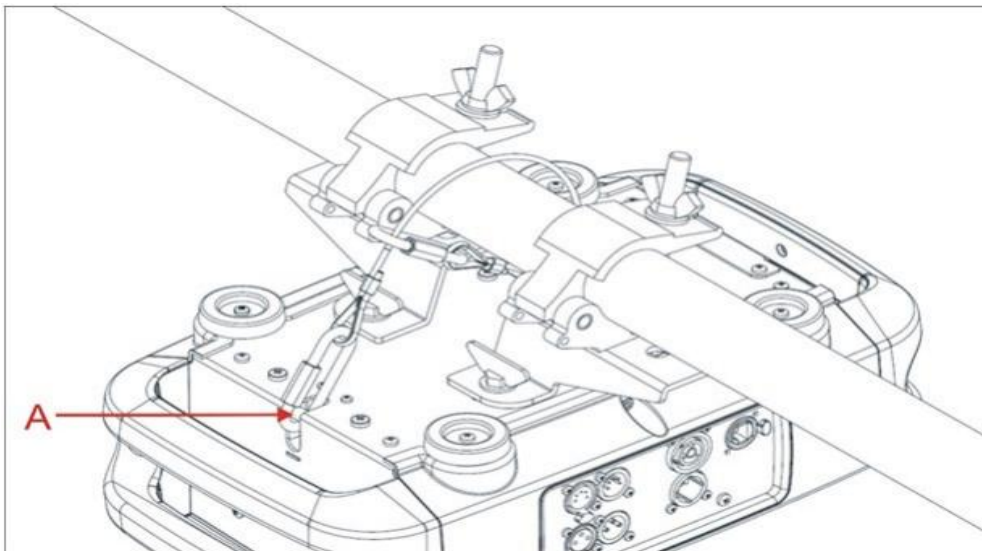
6.3 Safety Cable



A safety cable must be securely fixed to this model and to the suspension truss in order to avoid accidentally falling, should the main fixing point fail.

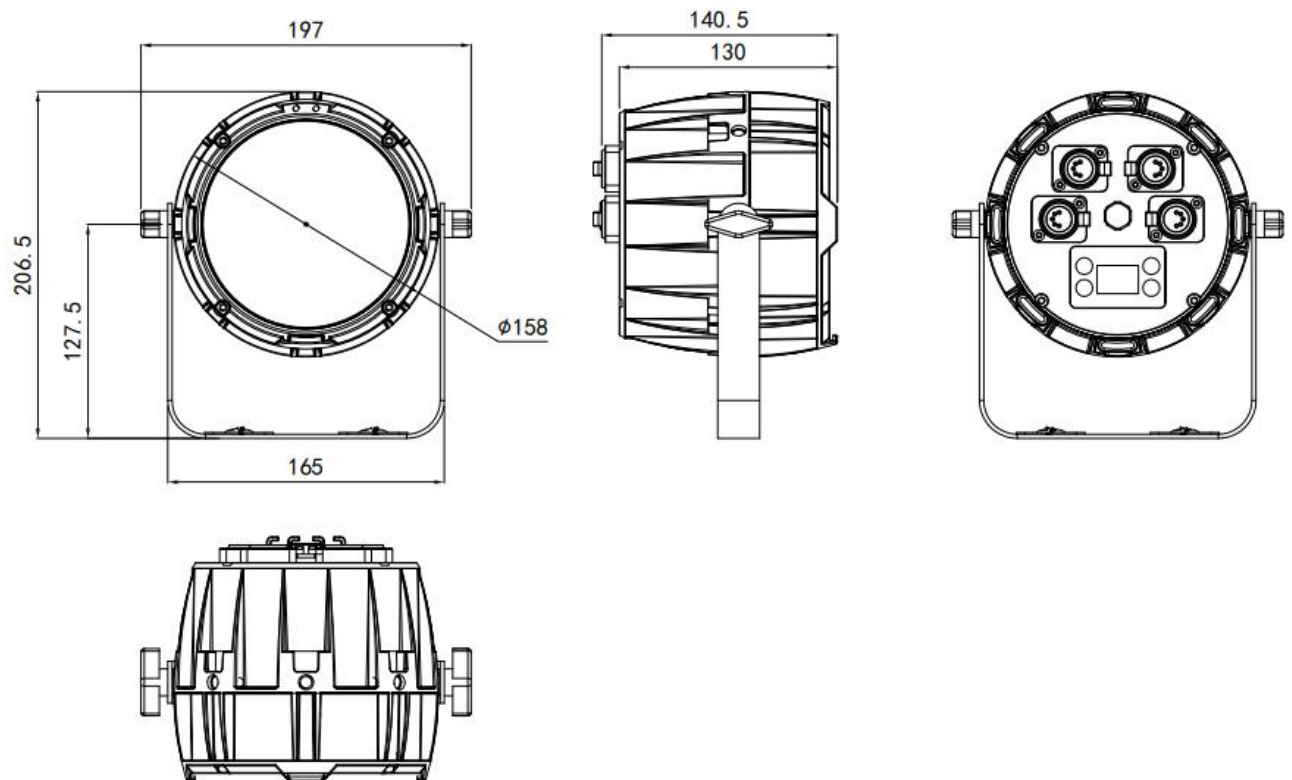
The safety cable used must be approved by a notified body according to IEC 60598-2-17 and must be capable of bearing at least 10 times the weight of the unit. For more information, please refer to an authorized service center.

You may attach the safety cable to the attachment point (A) located at the base of the fixture, as shown in the picture as below.

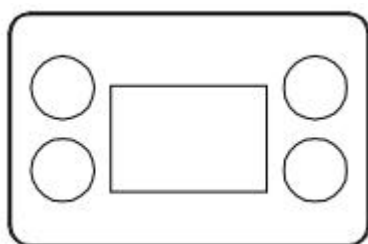


7 Product Features

7.1 Dimensions



7.2 Menu Operation



MENU	- To access the control menus in the display panel. - To return to the previous level in the menu structure without saving any changes. - To exit the menus.
ENTER	- To select any desired menu. - To confirm any selection made or save any changes.
UP / DOWN	- To navigate the menus' structure. - To scroll between any values.

7.3 Menu

Address	Address	001...512	DMX Address Setting
Channel Mode	CH36		Channel Mode
	CH32		
	CH022		
	CH04		
Auto Run	Run(ON/OFF) Program1... Program6 Speed1...Speed5 Delay(OFF-3.2s)		Auto Run
Music Run	Run(ON/OFF) Program1... Program6 Mic-xx		Sound Control
Master	Master/Alone		Master Slave
Set	Reset default	No/Yes	Reset Default
	Advanced	Code:88	Input Password
		Calibration	
		UID Set	
		Cal CTO	
	Signal Set	XLR DMX	Wire DMX
	No Signal	Hold/Black Out	Keep the Original State/Black out
	Dimmer Curve	Linear/S-Curve/Square/Invsquare	Curve Selection
Manu	IR	ON/OFF	IR Setting
	Strobe	000-255	Manual Strobe
	Dimmer	000-255	Manual Master Dimmer
	Red	000-255	Manual Red
	Green	000-255	Manual Green
	Blue	000-255	Manual Blue
	Lemon	000-255	Manual Lemon
	Macro	000-255	Manual Color
	MRot	000-255	Manual Marco Speed
	CCT	000-255	Manual Color Temperature
Informati on	Tint	000-255	Manual Duv Adjustment
	Version	V_10-V_99	Software Version
	Temperature	xxx	Current Temperature

General operation of the setup menu:

- Press UP and DOWN button simultaneously for 3 seconds, the display will reverse.
- The default selection for each setting is highlighted

7.5 DMX Chart

Mode/Channel				Value	Function
CH36	CH32	CH22	CH04		
1	1	1	1		Dimmer
				0..255	Dimmer 0%...100%
2	2	2	2		Dimmer Fine
				0..255	Dimmer Fine 0%...100%
3	3	3	3		Shutter
				0..31	Shutter closed
				32..63	shutter open
				64..95	Strobe effect slow to fast
				96..127	shutter open
				128..143	Opening pulse in sequences slow to fast
				144..159	Closing pulse in sequences fast to slow
				160..191	shutter open
				192..223	Random strobe effect slow to fast
				224..255	shutter open
4	4	4			Red
				0..255	0-100% Red dimmer from dark to bright
5	4	4			Red_Fine
				0..255	0-100% Red Fine dimmer from dark to bright
6	5	5			Green
				0..255	0-100% Green dimmer from dark to bright
7	5	5			Green_Fine
				0..255	0-100% Green Fine dimmer from dark to bright
8	6	6			Blue
				0..255	0-100% Blue dimmer from dark to bright
9	6	6			Blue_Fine
				0..255	0-100% Blue Fine dimmer

Mode/Channel				Value	Function		
					from dark to bright		
10	7	7			Lemon		
				0..255	0-100% Lemon dimmer from dark to bright		
11	7	7			Lemon_Fine		
				0..255	0-100% Lemon Fine dimmer from dark to bright		
12	8				GEL LIBRARY 1		
				0..9	No Function	x	y
				10..11	Lee 002 Rose Pink	0.328	0.202
				12..13	Lee 007 Pale Yellow	0.339	0.363
				14..15	Lee 015 Deep Straw	0.517	0.46
				16..17	Lee 019 fire	0.664	0.31
				18..19	Lee 020 medium amber	0.523	0.419
				20..21	Lee 021 Gold Amber	0.586	0.396
				22..23	Lee 022 Dark Amber	0.647	0.339
				24..25	Lee 025 sunset red	0.566	0.359
				26..27	Lee 046 Dark Magenta	0.572	0.223
				28..29	Lee 049 Medium Purple	0.283	0.101
				30..31	Lee 058 Lavender	0.212	0.099
				32..33	Lee 068 Sky Blue	0.151	0.128
				34..35	Lee 079 Just Blue	0.145	0.072
				36..37	Lee 085 Deeper Blue	0.143	0.065
				38..39	Lee 088 Lime Green	0.356	0.511
				40..41	Lee 089 moss green	0.259	0.547
				42..43	Lee 100 Spring Yellow	0.41	0.502
				44..45	Lee 101 yellow	0.451	0.507
				46..47	Lee 102 light amber	0.434	0.44
				48..49	Lee 103 Straw	0.336	0.359
				50..51	Lee 104 DEEP AMBER	0.496	0.462
				52..53	Lee 105 Orange	0.563	0.428
				54..55	Lee 106 primary red	0.699	0.285
				56..57	Lee 108 English rose	0.412	0.352
				58..59	Lee 111 dark pink	0.389	0.215
				60..61	Lee 113 magenta	0.563	0.217
				62..63	Lee 115 peacock blue	0.134	0.296
				64..65	Lee 117 Steel Lee Blue	0.223	0.278
				66..67	Lee 118 Light Blue	0.149	0.113
				68..69	Lee 119 dark blue	0.142	0.054
				70..71	Lee 121 lee green	0.302	0.534
				72..73	Lee 122 fern green	0.234	0.543
				74..75	Lee 124 dark green	0.123	0.586
				76..77	Lee 126 mauve	0.287	0.082
				78..79	Lee 132 Medium Blue	0.137	0.11
				80..81	Lee 136 Pale Lavender	0.288	0.254
				82..83	Lee 137 Special Lee lavender	0.231	0.175
				84..85	Lee 138 Pale Green	0.331	0.433

Mode/Channel				Value	Function		
				86..87	Lee 139 primary green	0.196	0.712
				88..89	Lee 142 Pale Violet	0.209	0.148
				90..91	Lee 147 apricot	0.446	0.381
				92..93	Lee 151 Gold Tint	0.361	0.321
				94..95	Lee 152 pale gold	0.37	0.332
				96..97	Lee 154 pale rose	0.35	0.318
				98..99	Lee 156 Chocolate	0.38	0.363
				100..101	Lee 164 flame red	0.659	0.302
				102..103	Lee 170 deep lavender	0.278	0.211
				104..105	Lee 174 dark steel Lee blue	0.204	0.205
				106..107	Lee 176 loving amber	0.407	0.321
				108..109	Lee 179 chrome orange	0.52	0.46
				110..111	Lee 180 dark lavender	0.191	0.072
				112..113	Lee 181 congo blue	0.158	0.035
				114..115	Lee 182 Light Red	0.67	0.313
				116..117	Lee 194 Surprise Pink	0.24	0.183
				118..119	Lee 195 zenith blue	0.142	0.046
				120..121	Lee 200 Double C.T. Blue	0.179	0.155
				122..123	Lee 201 Full Lee C.T. Blue	0.228	0.233
				124..125	Lee 202 Half C.T Blue	0.261	0.273
				126..127	Lee 203 Quarter C.T. Blue	0.285	0.294
				128..129	Lee 204 Full Lee C.T. Orange	0.437	0.392
				130..131	Lee 205 Half C.T. Orange	0.374	0.364
				132..133	Lee 206 Quarter C.T. Orange	0.346	0.34
				134..135	Lee 242 Fluorescent 4300 Kevin	0.262	0.346
				136..137	Lee 249 1/4 minus green	0.312	0.307
				138..139	Lee 323 jade	0.165	0.367
				140..141	Lee 328 Follies Pink	0.335	0.18
				142..143	Lee 343 special Lee medium lavender	0.182	0.081
				144..145	Lee 345 fuchsia pink	0.252	0.156
				146..147	Lee 353 lighter blue	0.193	0.246
				148..149	Lee 506 Marlene	0.358	0.344
				150..151	Lee 601 Silver	0.244	0.248
				152..153	Lee 725 Old Steel Lee Blue	0.239	0.27
				154..155	Lee 728 Steel Lee Green	0.256	0.302
				156..157	Lee 731 Dirty Ice	0.293	0.339
				158..159	Lee 765 LEE Yellow	0.389	0.412
				160..161	Lee 777 rust	0.576	0.416
				162..163	Lee 795 Magica Lee Magenta	0.323	0.138
				164..165	Lee 797 Deep Purple	0.235	0.065
				166..255	No Function		
13	9				GELS X-FADE		
				000-255	Fade from gel 1 to gel 2 0 = 100% GEL LIBRARY 1,		

Mode/Channel				Value	Function
					0% GEL LIBRARY 2 128 = 50% GEL LIBRARY 1, 50% GEL LIBRARY 2 255 = 0% GEL LIBRARY 1, 100% GEL LIBRARY 2
14	10				GEL LIBRARY 2
				0..9	No Function
				10..11	Lee 002 Rose Pink
				12..13	Lee 007 Pale Yellow
				14..15	Lee 015 Deep Straw
				16..17	Lee 019 fire
				18..19	Lee 020 medium amber
				20..21	Lee 021 Gold Amber
				22..23	Lee 022 Dark Amber
				24..25	Lee 025 sunset red
				26..27	Lee 046 Dark Magenta
				28..29	Lee 049 Medium Purple
				30..31	Lee 058 Lavender
				32..33	Lee 068 Sky Blue
				34..35	Lee 079 Just Blue
				36..37	Lee 085 Deeper Blue
				38..39	Lee 088 Lime Green
				40..41	Lee 089 moss green
				42..43	Lee 100 Spring Yellow
				44..45	Lee 101 yellow
				46..47	Lee 102 light amber
				48..49	Lee 103 Straw
				50..51	Lee 104 DEEP AMBER
				52..53	Lee 105 Orange
				54..55	Lee 106 primary red
				56..57	Lee 108 English rose
				58..59	Lee 111 dark pink
				60..61	Lee 113 magenta
				62..63	Lee 115 peacock blue
				64..65	Lee 117 Steel Lee Blue
				66..67	Lee 118 Light Blue
				68..69	Lee 119 dark blue
				70..71	Lee 121 lee green
				72..73	Lee 122 fern green
				74..75	Lee 124 dark green
				76..77	Lee 126 mauve
				78..79	Lee 132 Medium Blue
				80..81	Lee 136 Pale Lavender
				82..83	Lee 137 Special Lee lavender
				84..85	Lee 138 Pale Green
				86..87	Lee 139 primary green
				88..89	Lee 142 Pale Violet

Mode/Channel				Value	Function
				90..91	Lee 147 apricot
				92..93	Lee 151 Gold Tint
				94..95	Lee 152 pale gold
				96..97	Lee 154 pale rose
				98..99	Lee 156 Chocolate
				100..101	Lee 164 flame red
				102..103	Lee 170 deep lavender
				104..105	Lee 174 dark steel Lee blue
				106..107	Lee 176 loving amber
				108..109	Lee 179 chrome orange
				110..111	Lee 180 dark lavender
				112..113	Lee 181 congo blue
				114..115	Lee 182 Light Red
				116..117	Lee 194 Surprise Pink
				118..119	Lee 195 zenith blue
				120..121	Lee 200 Double C.T. Blue
				122..123	Lee 201 Full Lee C.T. Blue
				124..125	Lee 202 Half C.T Blue
				126..127	Lee 203 Quarter C.T. Blue
				128..129	Lee 204 Full Lee C.T. Orange
				130..131	Lee 205 Half C.T. Orange
				132..133	Lee 206 Quarter C.T. Orange
				134..135	Lee 242 Fluorescent 4300 Kevin
				136..137	Lee 249 1/4 minus green
				138..139	Lee 323 jade
				140..141	Lee 328 Follies Pink
				142..143	Lee 343 special Lee medium lavender
				144..145	Lee 345 fuchsia pink
				146..147	Lee 353 lighter blue
				148..149	Lee 506 Marlene
				150..151	Lee 601 Silver
				152..153	Lee 725 Old Steel Lee Blue
				154..155	Lee 728 Steel Lee Green
				156..157	Lee 731 Dirty Ice
				158..159	Lee 765 LEE Yellow
				160..161	Lee 777 rust
				162..163	Lee 795 Magical Lee Magenta
				164..165	Lee 797 Deep Purple
				166..255	No Function
15	11				GELS To Colors FADE
				000-255	Fade from gel Mix to Colors Mix 0 = 100% GEL LIBRARY Mix, 0% Colors Mix

Mode/Channel				Value	Function
					128 = 50% GEL LIBRARY Mix, 50% Colors Mix 255 = 0% GEL LIBRARY Mix, 100% Colors Mix
16	12		4		Color Temp
				0..17	No Function
				18..100	1800K-10000K(1Steps 100K)
				101..255	10000K
17	13				Tint (Green Magenta Shift)
				0	Δuv 0 (no shift - on black body curve)
				1..127	Magenta To Δuv 0
				128	Δuv 0 (no shift - on black body curve)
				129..255	Δuv 0 To Green
18	14				Linear Crossfade from Color To CCT whites
				0..255	Color To CCT whites 0-100%
19	15				Macro RUN
				0..15	No function
				16..35	Macro Run 1
				36..55	Macro Run 2
				56..75	Macro Run 3
				76..95	Macro Run 4
				96..115	Macro Run 5
				116..135	Macro Run 6
				136..155	Macro Sound 1
				156..175	Macro Sound 2
				176..195	Macro Sound 3
				196..215	Macro Sound 4
				216..235	Macro Sound 5
				236..255	Macro Sound 6
20	16				Macro Speed
				0..255	Macro Speed from Slow To Fast
21	17	8			Special function
				0..19	No function
				40..44	Linear Dimmer Curve
				45..49	S-Curve Dimmer Curve
				50..54	Square Dimmer Curve
				55..59	InvSquare Dimmer Curve
				60	900HZ LED refresh rate
				61	1000HZ LED refresh rate
				62	1100HZ LED refresh rate
				63	1200HZ LED refresh rate
				64	1300HZ LED refresh rate

Mode/Channel				Value	Function
				65	1400HZ LED refresh rate
				66	1500HZ LED refresh rate
				67	2500HZ LED refresh rate
				68	4000HZ LED refresh rate
				69	5000HZ LED refresh rate
				70	10K HZ LED refresh rate
				71	15K HZ LED refresh rate
				72	20K HZ LED refresh rate
				73	25K HZ LED refresh rate
				60..255	No function
22	18				Internal program Delay(Refresh Run after Change Internal program)
				0..2	No Delay
				3..5	Delay of "Slave Delay Set"(From Display Panel)
				5..7	0.1s Delay
				8..15	0.2s Delay
				16..23	0.3s Delay
				24..31	0.4s Delay
				32..39	0.5s Delay
				40..47	0.6s Delay
				48..55	0.7s Delay
				56..63	0.8s Delay
				64..71	0.9s Delay
				72..79	1s Delay
				80..87	1.1s Delay
				88..95	1.2s Delay
				96..103	1.3s Delay
				104..111	1.4s Delay
				112..119	1.5s Delay
				120..127	1.6s Delay
				128..135	1.7s Delay
				136..143	1.8s Delay
				144..151	1.9s Delay
				152..159	2s Delay
				160..167	2.1s Delay
				168..175	2.2s Delay
				176..183	2.3s Delay
				184..191	2.4s Delay
				192..199	2.5s Delay
				200..207	2.6s Delay
				208..215	2.7s Delay
				216..220	2.8s Delay
				224..231	2.9s Delay
				232..239	3s Delay
				240..247	3.1s Delay

Mode/Channel				Value	Function
				248..255	3.2s Delay
23	19	9			Pix_Dimmer
				0..255	Pix_Dimmer 0%...100%
24	20	10			Pix_Strobe
				0..255	Pix_Strobe Speed 0%...100%
25	21	11			Pix_Red
				0..255	0-100% Pix_Red dimmer from dark to bright
26	22	12			Pix_Green
				0..255	0-100% Pix_Green dimmer from dark to bright
27	23	13			Pix_Blue
				0..255	0-100% Pix_Blue dimmer from dark to bright
28	24	14			Pix_color
				0..0	No Function
				1..15	Red
				16..31	Green
				32..47	Blue
				48..63	Red+Blue
				64..79	Red+Green
				80..95	Green+Blue
				96..111	Red+Blue+Green
				112..127	2700K
				128..143	3200K
				144..159	3500K
				160..175	5000K
				176..191	5500K
				192..207	6000K
				208..223	6500K
				224..239	7000K
				240..255	8000K
29	25	15			Pix_Macro
				0..15	No Function
				16..29	Pix Dynamic Scene1
				30..43	Pix Dynamic Scene2
				44..57	Pix Dynamic Scene3
				58..71	Pix Dynamic Scene4
				72..85	Pix Dynamic Scene5
				86..99	Pix Dynamic Scene6
				100..113	Pix Dynamic Scene7
				114..127	Pix Dynamic Scene8
				128..143	Pix Dynamic Scene9
				142..155	Pix Dynamic Scene10
				156..169	Pix Dynamic Scene11
				170..183	Pix Dynamic Scene12

Mode/Channel				Value	Function
				184..197	Pix Dynamic Scene13
				198..211	Pix Dynamic Scene14
				212..225	Pix Dynamic Scene15
				226..239	Pix Dynamic Scene16
				240..255	Pix Dynamic Scene17
30	26	16			Pix_Macro_Speed
				0..255	Slow to Fast
31	27	17			Expand Patterns
				0..15	No Function
				16..29	Pix Dynamic Scene1
				30..43	Pix Dynamic Scene2
				44..57	Pix Dynamic Scene3
				58..71	Pix Dynamic Scene4
				72..85	Pix Dynamic Scene5
				86..99	Pix Dynamic Scene6
				100..113	Pix Dynamic Scene7
				114..127	Pix Dynamic Scene8
				128..143	Pix Dynamic Scene9
				142..155	Pix Dynamic Scene10
				156..169	Pix Dynamic Scene11
				170..183	Pix Dynamic Scene12
				184..197	Pix Dynamic Scene13
				198..211	Pix Dynamic Scene14
				212..225	Pix Dynamic Scene15
				226..239	Pix Dynamic Scene16
				240..255	Pix Dynamic Scene17
32	28	18			Pix_Foreground dimmer
				0..255	Pix_Expand Patterns Foreground dimmer 0 – 100%. (Foreground Color Share with "Pix_Macro"Channel)
33	29	19			Pix_Background dimmer
				0..255	Pix_Expand Patterns Background dimmer 0 – 100%.
34	30	20			Pix_Background Red
				0..255	Pix_Expand Patterns Background Red 0 – 100%.
35	31	21			Pix_Background Green
				0..255	Pix_Expand Patterns Background Green 0 – 100%.
36	32	22			Pix_Background Blue
				0..255	Pix_Expand Patterns Background Blue 0 – 100%.

The device is controlled by universal DMX 512 protocol, DMX address is the start channel used to receive instructions from the external controller. For independent control, each fixture must be assigned its unique address control channels. For example, there is channel modes: 14/16, if we set the mode at standard 16 channels mode, and there are several models need to be independently controlled, we just simply address first fixture at 1, and second fixture at 17, third one at 33, etc.

- If the devices have the same address, they will behave synchronically.
- Display is flashing when no DMX signal is received.

8 More Functions

- Software upgrade function via DMX cable. If there is any new firmware for this device, it can be upgraded simply via a software upgrade box, without the need to change any mechanical parts. The upgrade box is not included in the package, if you need any further assistance please contact your authorized dealer.
- Hibernation. The device will enter standby mode if activated after a period of disconnecting DMX signal to save power and will wake immediately when the DMX signal is sent or received again.

9 Technical Specifications

Power

- Input Voltage: 90~260V AC, 50/60Hz
- Power Consumption: 200W
- Fuse: F5A, 250V

Photometric

- Light Source: 120W RGLB LEDs+30*0.2W RGB
- LED Lifespan: 50,000hours
- 26°Beam angle

Effects

- Smooth Dimmer: 0~100%(4 user selectable dimming curves)
- Pulse effect
- Strobe:1-30Hz
- Each color mixing with halo effect
- Pure smooth Color Mixing
- Color temperature linear up and down in 1800K-10000K
- Different kinds of preset macro effects with variable speed
- Impressive cross-fade effect
- Outstanding strobe effect with variable speed
- 900-25K LED PWM frequency
- DMX recorder and manual memory function

Control

- Protocol:DMX512, master-slave, sound activated or auto operation
- DMX Channels: 36/32/22/04
- Waterproof 3-pin XLR IN/OUT
- Waterproof PowerCON IN/OUT
- Display: 1.4 inch LCD display
- IR remote(Optional)
- Firmware Upgrade: Upgrade via DMX link

Housing

- Materials: Aluminium die-cast
- Finishing: Matte black
- IP Rating: IP65
- Net Weight: 4.4kgs
- Gross weight:5.4kgs
- Product dimension:197*140.5*206.5mm
- Packing dimension:250*250*280mm
- Rigging: Power cable, signal cable

Cooling System

- Advanced cooling system integrated aluminum
- Constant temperature readout and management function
- Over temperature protection management

Working Environment

- Maximum Ambient Temperature:45°C
- Minimum Operating Temperature:-10°C
- Protection Rating:IP65

Approvals

- CE compliant
- RoHS compliant

10 Periodic check-ups



Warning! Disconnect from mains before serving

10.1 Mechanical Parts

Periodically check all mechanical parts, gears, guides, belts, etc., for wear and tear. Replace them if necessary.

Periodically check the lubrication of all components, particularly the parts subjected to high temperatures. If necessary, apply suitable lubricant (available from factory) where needed.

Check the tension of the belts and adjust them where necessary.

10.2 Electrical Components

Check all electrical components for correct earthing and proper connection of all connectors. Refasten where necessary.