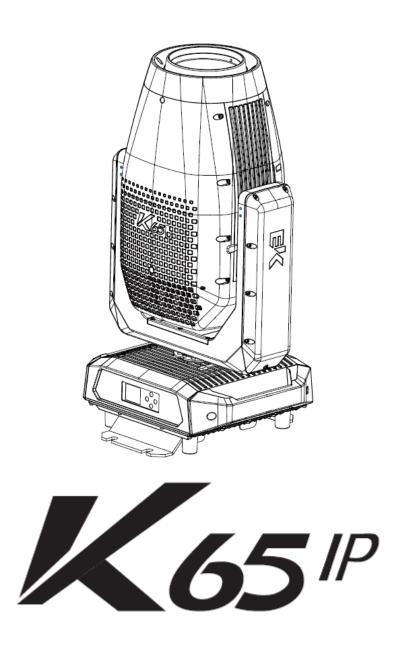
SHOWPRO



K65 IP

LEDMOV600

USER MANUAL



SAFETY

WARNING! Before carrying out any operations with the unit, carefully read this instruction manual and keep it with care for future reference, it contains important information about the installation, use and maintenance of the unit.

General instruction

- The products referred to in this manual conform to the European Community Directives and are therefore marked with CE.
- The unit is supplied with hazardous network voltage (230V[~]). Leave servicing to skilled personnel only. Never make any modifications on the unit not described in this instruction manual, otherwise you will risk an electric shock.
- Connection must be made to power supply system fitted with efficient earthing (Class I appliance according to standard EN60598-1). It is recommended to protect the supply lines of the units from indirect contact and/or shorting to earth by using appropriately sized residual current devices.
- The connection to the main network of electric distribution must be carried out by a qualified electrical installer. Check that the main frequency and voltage correspond to those for which the unit is designed as given on the electrical data label.
- This unit is not for home use, only professional applications.
- Never use the fixture under the following conditions:
 - in places subject to vibrations or bumps
 - in places with a temperature of over 40°C
- Make certain that no flammable liquids, water or metal objects enter the fixture.
- Do not dismantle or modify the fixture.
- All work must always be carried out by qualified technical personnel. Contact the nearest sales point for an inspection or contact the manufacturer directly.
- If the unit is to be put out of operation definitively, take it to a local recycling plant for a dosposal which is not harmful to the environment.

Warnings and installation precautions

- If this device will be operated in any way different to the one described in this manual, it may suffer damage and the guarantee becomes void. Furthermore, any operation may lead to dangers like short circuit, burns, electric shock, etc.
- Before starting any maintenance work or cleaning the fixture, cut off power from the main supply.
- Always additionally secure the fixture with a safety cable. When carrying out any work, always comply scrupulously with all the regulations (particularly regarding safety) currently in force in the country in which the fixture is being used.
- Install the fixture in a well-ventilated place.
- Keep any flammable materials at a safe distance from the fixture.
- Shields, lenses, or ultraviolet screens shall be changed if they have become damaged to such an extent that their effectiveness is impaired.
- The lamp (LED) shall be changed if it has become damaged or thermally deformed.
- Never look directly at the light beam. Please note that fast changes in lighting, e.g., flashing light, may trigger epileptic seizures in photosensitive persons or persons with epilepsy.
- Do not touch the product's housing when operating because it may be very hot.

INTRODUCTION

Features

- · 1000W 6700K LED engine
- · IP65-rated tour-grade construction
- · Compact body, light weight, and quiet operation
- Super high output of 36k lumen
 Wide zoom range from 5°~50°
- · Linear CMY + colour wheel/split colours
- · White colour temperature presets from 3200K~6700K
- · Extremely even spot with flawless field consistency
- · Flawless 16-bit dimmer with SPWM control
- · Smooth 540°/270° pan/tilt movement
- · DMX RDM control

Specifications

Light Source 1000W LED engine

Colour Temperature 6700K

Lumen Output Up to 36000lm Lux Output 90000lux@5M

CRI 68 TM-30-15rg/rf 95/69 TLCI 45

LED Life Over 60K hrs Beam Angle $5^{\circ}\sim50^{\circ}$ PAN 540° TILT 270°

Colour System CMY + CTO (2600K~6200K, linear) + Colour Wheel (6+open)

Gobo System 1 * rotating gobo wheel (7 interchangeable glass gobo + open)

1 * fixed gobo wheel (8 interchangeable glass gobo + open)

1 * animation wheel

Framing System 4 independent blades, each with +/-35° rotation,

complete system with +/-60° rotation

Iris 15-leaf, motorized iris, 15~100% adjustable

Zoom $5^{\circ} \sim 50^{\circ}(10x)$ motorized zoom

Frost Light 1° frost with 0~100% linear adjustment

Strobe 1~30Hz LED Frequency 40K Hz

Dimmer 4 dimming curves

Prism Bi-directional 4-facet prism with variable speed

Mains 100~240V AC, 50~60Hz
Consumption 1260W @ 230VAC
Power Connection PowerCON True One In

Power Factor 0.96@230VAC
Protocol DMX512/RDM
DMX Channel 39CH/41CH

Display 2.83inch TFT disply

Data Connection Seetronic 3Pin (or 5Pin) XLR for DMX, linking up to 32pcs

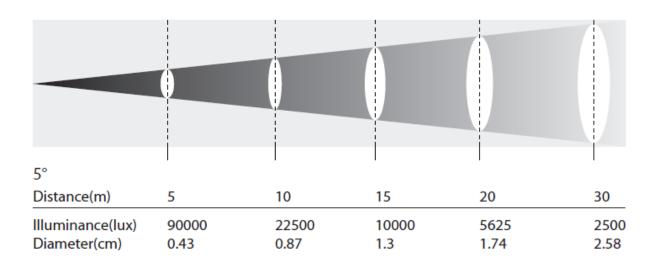
Housing Die-cast magnesium with matt black finishing Cooling Low noise waterproof fan with heat pipe

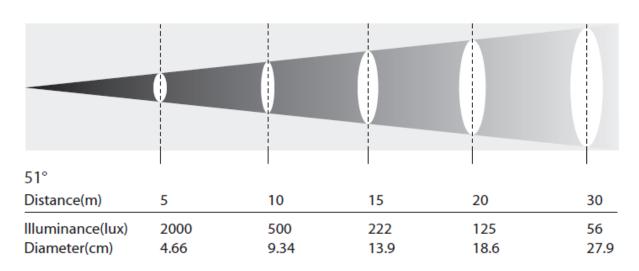
IP Rating IP65
Operating Ambient Tempt. -10~45°C

Dimension 390*334*762mm

Weight 38.5KG

PHOTOMETRICS





COLOUR & GOBO

Colour System





Congo Blue













Rotating Gobo





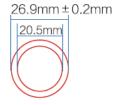












Fixed Gobo













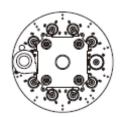




Animation



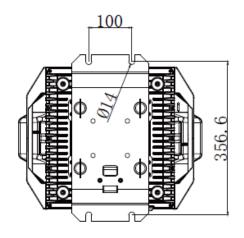
Framing/Shutter

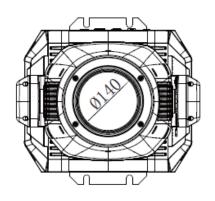


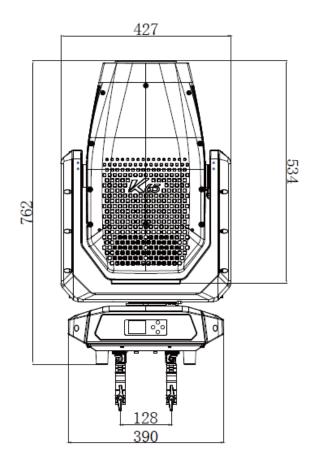
4-Facet Prism

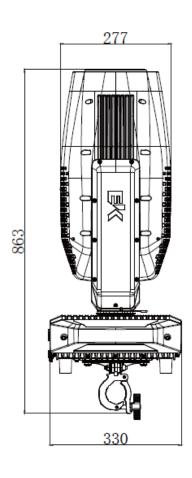


DIMENSIONS



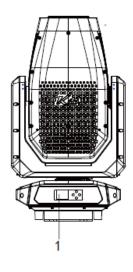






OVERVIEW

Fixture Illustration

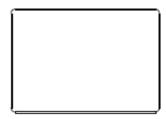


23 4

- 1. CONTROL PANEL
- 2. 3Pin(or 5Pin) DMX In
- 3. 3Pin(or 5Pin) DMX Out

- 4. PowerCon True One In
- 5. Clamp
- 6. Breathing Valve

Control Panel



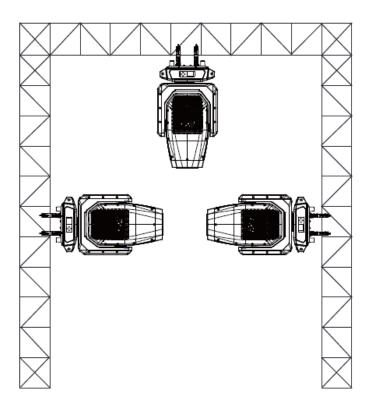


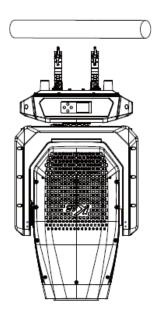
MODE	FUNCTION	EFFECT
MENU	Enter the menu	Menu operation
UP	Scroll up	Increase the numeric value
DOWN	Scroll down	Decrease the numeric value
ENTER	Confirm	Save the function
OK	Confirm	Save the function

If the panel is password-protected, go to the Advanced menu, in the Menu locking submenu, enter the unlock code using the navigation buttons: **1234**

If you want to flip the display, hold **UP + DOWN** buttons for 3 seconds to set display orientation.

INSTALLATION





We recommend the following general guidelines below:

- 1. Always mount this product in a safe position and make sure there is adequate room for ventilation, configuration, and maintenance.
- 2. Keep any inflammable materials at a safe distance from the fixture, as indicated in the safety notes.
- 3. Make sure that the device is not exposed to extreme heat, moisture, or dust.
- 4. Make sure that the structure to which you are hanging the modules can support the weight.

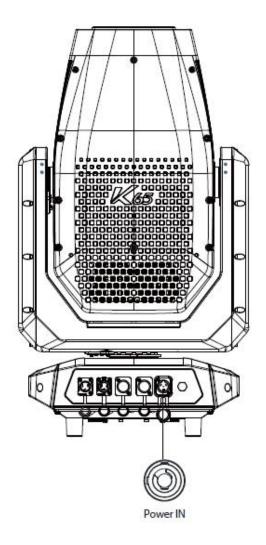
The K65 IP may be set up on a solid and even surface. The unit can also be mounted upside down to a cross arm. For fixing, stable mounting clips are required. The mounting place must have sufficient stability and be able to support a weight of 10 times of the unit's weight.

When carrying out any installation, always comply scrupulously with all the regulations (particularly regarding safety) currently in force in the country in which the fixture's being used.

- · Install the fixture at a suitable location by means of the mounting bracket
- \cdot Always additionally secure the fixture with the safety rope from falling down. For this purpose, fasten the safety rope at a suitable position so that the maximum fall of the fixture will be 20 cm.
- \cdot Adjust the fixture and use the knob to slightly release or tighten the locking mechanism of the bracket if is neccessary

CONNECTION

Power Connection



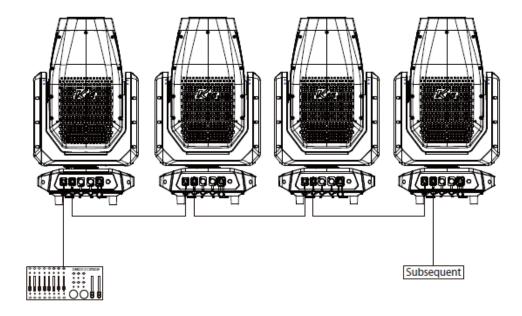
Attention: due to power rating, one 1.5mm² power cable can connect 1 unit maximum

Do not connect more than one unit in series with one power cable

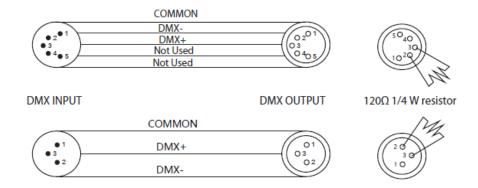
Do not use damaged power cable

Power off the fixture when not in use

Data Connection



- \cdot Depending on the length of the DMX cable run, or other factors, it may be advisable to install a terminator at the last fixture in the run.
- \cdot The illustration below shows the correct placement of a 120 $\!\Omega$ 0.25W resistor in a terminator, as well as the standard DMX signal pin-outs



Example of DMX Addressing

The below table shows an example of starting addresses for four fixtures assuming a first fixture with starting address of 001. The actual starting addresses will be determined by the operator as needed to match external controller settings.

MODE	ALLOCATION	FIXTURE 1	FIXTURE 2	FIXTURE 3	FIXTURE 4
MODE	ALLOCATION	ADDRESS	ADDRESS	ADDRESS	ADDRESS
39CH	001 – 039	001	040	079	118
41CH	001 – 041	001	042	083	124

MENU

NO.	Main Menu	Menu Level 1	Menu Level 2	Menu Level 3	Default
		DMX Address	CH39 1-474		1
	1 CONNECT	DIVIX Address	CH41 1-472		1
1			Standard –		
	CONNECT	DMX Mode	39CH		39CH
		DIVIX IVIOGE	Extended –		39011
			41CH		
			Pan Reverse	No	No
			Tan Neverse	Yes	140
		Movement	Tilt Reverse	No	No
		Wiovernent	THE NEVELSE	Yes	140
			Encoder Pan/Tilt	No	Yes
			Littoder Fally filt	Yes	163
				On	
			Back Light	10s	No
			Dack Light	20s	INO
				30s	
				No	
		Screen	Flip Display	Yes	No
				Auto	
			Warn Cue	No	No
				Yes	INO
			Key Lock	No	No
				Yes	INU
			Dimmer Mode	Dimmer 1	Dimmer 1
2	CETUD			Dimmer 2	
2	SETUP			Dimmer 3	
				Dimmer 4	
				Linear	
			Dimmer Curve	Exponential	Logarithmic
				Logarithmic	
		Fixture		S-Curve	
				Auto	Auto
			Fan Mode	Silent	
			raii ivioue	High	Auto
				Off	
			Temperature	°C	• • • • • • • • • • • • • • • • • • • •
			Unit	°F	°C
		Auto Test	Auto Test		
			Pan	0 – 255	
			Pan Fine	0 – 255	
			Tilt	0 – 255	
		Manual Test	Tilt Fine	0 – 255	
			P/T Speed	0 – 255	
			Shutter	0 – 255	

			1		1
			Dimmer	0 – 255	
			Dim Fine	0 – 255	
			Dim Fade	0 – 255	
			Cyan	0 – 255	
			Magenta	0 – 255	
			Yellow	0 – 255	
			СТО	0 – 255	
			Colour	0 – 255	
			Gobo 1	0 – 255	
			RGobo	0 – 255	
			Gobo 2	0 – 255	
			Prism	0 – 255	
			Rot Prism	0 – 255	
			Frost	0 – 255	
			Focus	0 – 255	
			Focus Fine	0 – 255	
			Zoom	0 – 255	
			Zoom Fine	0 – 255	
			Effect	0 – 255	
			Rot Effect	0 – 255	
			Iris	0 – 255	
			Fr. Shutter 1	0 – 255	
			Mov	0 255	
			Fr. Shutter 1 Swiv	0 – 255	
			Fr. Shutter 2	0 – 255	
			Mov		
			Fr. Shutter 2	0 – 255	
			Swiv		
			Fr. Shutter 3	0 – 255	
			Mov		
			Fr. Shutter 3	0 – 255	
			Swiv		
			Fr. Shutter 4	0 – 255	
			Mov		
			Fr. Shutter 4	0 – 255	
			Swiv		
			Shutter Rot	0 – 255	
			Fr Macros	0 – 255	
			Macro Speed	0 – 255	
			Control	0 – 255	
			All	3 233	
		Reset	Pan/Tilt		
		Neset	Head		
			Pan	0 – 255	
3	ADVANCED		Tilt	0 – 255	
3	ADVANCED				
		Adjust	Cyan	0 – 255	
		-	Magenta	0 – 255	
			Yellow	0 – 255	
			СТО	0 – 255	

		T	T	T	
			Colour	0 – 255	
			Gobo 1	0 – 255	
			RGobo	0 – 255	
			Gobo 2	0 – 255	
			Prism	0 – 255	
			R Prism	0 – 255	
			Effect	0 – 255	
			Focus	0 – 255	
			Zoom	0 – 255	
			Frost	0 – 255	
			Iris	0 – 255	
			Fr. Shutter Rot	0 – 255	
			Fr. Shutter 1 M1	0 – 255	
			Fr. Shutter 1 M2	0 – 255	
			Fr. Shutter 2 M1	0 – 255	
			Fr. Shutter 2 M2	0 – 255	
			Fr. Shutter 3 M1	0 – 255	
			Fr. Shutter 3 M2	0 – 255	
			Fr. Shutter 4 M1	0 – 255	
			Fr. Shutter 4 M2	0 – 255	
			5 (); 5 .	Reset to Default	
			Default Preset	Go Back	
			5	Load Preset 1	
			User Preset 1	Save to Preset 1	
		Factory Reload		Load Preset 2	
			User Preset 2	Save to Preset 2	
			5	Load Preset 3	
			User Preset 3	Save to Preset 3	
		Fixture Hours	0 – 9999		
		Fans Speed	100%		
		•	DISP – V1		
			CTR1-XY - V1		
			CTR2-MOTOR -		
		Software Version	V1		
			CTR3-MOTOR -		
			V1		
			CTR3-MOTOR -		
			V1		
	INICODA ATION	RDM UID	03oFoA7****		
4	4 INFORMATION		Pan	0 – 255	
			Pan Fine	0 – 255	
			Tilt	0 – 255	
			Tilt Fine	0 – 255	
			P/T Speed	0 – 255	
		View DMX	Shutter	0 – 255	
			Dimmer	0 – 255	
			Dim Fine	0 – 255	
			Dim Fade	0 – 255	
			Cyan	0 – 255	
			Magenta	0 – 255	
•		•	-	•	

_	
,	Yellow 0 – 255
	CTO 0 – 255
	Colour 0 – 255
	Gobo 1 0 – 255
F	RGobo 0 – 255
	Gobo 2 0 – 255
	Prism 0 – 255
Ro	ot Prism 0 – 255
	Frost 0 – 255
	Focus 0 – 255
Fo	cus Fine 0 – 255
	Zoom 0 – 255
Zo	om Fine 0 – 255
	Effect 0 – 255
Ro	ot Effect 0 – 255
	Iris 0 – 255
Fr. S	Shutter 1 0 – 255
	Mov
Fr. S	Shutter 1 0 – 255
	Swiv
Fr. S	Shutter 2 0 – 255
	Mov
Fr. S	Shutter 2 0 – 255
	Swiv
Fr. S	Shutter 3 0 – 255
	Mov
Fr. S	Shutter 3 0 – 255
	Swiv
Fr. S	Shutter 4 0 – 255
	Mov
Fr. S	Shutter 4 0 – 255
	Swiv
Shu	utter Rot 0 – 255
	Macros 0 – 255
Mad	cro Speed 0 – 255

DMX CHART

39CH	41CH	Function	Value	Percent/Setting
1	1	Pan	000 – 255	Pan coarse
2	2	Pan Fine	000 – 255	Pan fine
3	3	Tilt	000 – 255	Tilt coarse
4	4	Tilt Fine	000 – 255	Tilt fine
_	_	D/T Cd	000 – 250	Fast to slow
5	5	P/T Speed	251 – 255	Movement with blackout
			000 - 010	Shutter open
			011 – 082	Pulse effect, from slow to fast
			083 – 093	Shutter open
6	6	Shutter	094 – 163	Pulse effect in sequences
			164 – 174	Shutter open
			175 – 243	Random shutter effect, slow to fast
			244 – 255	Shutter open
7	7	Dimmer	000 – 255	0 – 100%
8	8	Dim Fine	000 – 255	0 – 100%
			000 – 051	No Function
			052 – 101	Dimmer 1
9	9	9 Dimmer Mode	102 – 152	Dimmer 2
			153 – 203	Dimmer 3
			204 – 255	Dimmer 4
10	10	Cyan	000 – 255	0 – 100%
11	11	Magenta	000 – 255	0 – 100%
12	12	Yellow	000 – 255	0 – 100%
13	13	СТО	000 – 255	0 – 100%
			000 – 004	Open
			005 – 009	Open + colour 1
			010 - 013	Colour 1
			014 – 018	Colour 1 + colour 2
			019 – 022	Colour 2
			023 – 027	Colour 2 + colour 3
			028 - 031	Colour 3
			032 – 036	Colour 3 + colour 4
14	14	Colour	037 – 040	Colour 4
			041 – 045	Colour 4+ colour 5
			046 – 049	Colour 5
			050 – 054	Colour 5 + colour 6
			055 – 058	Colour 6
			059 – 063	Colour 6 + open
			064 – 095	Stop to fast (forward spin)
			096 – 127	Stop to fast (reverse spin)
			128 – 255	Indexing from 0-360°
			000 – 005	Open
15	15	Rotating Gobo	006 – 010	Position 1
			011 – 015	Position 2

	1			
			016 – 020	Position 3
			021 – 025	Position 4
			026 – 030	Position 5
			031 – 035	Position 6
			036 – 040	Position 7
			041 – 055	Position 1 shake from slow to fast
			056 – 070	Position 2 shake from slow to fast
			071 – 085	Position 3 shake from slow to fast
			086 – 100	Position 4 shake from slow to fast
			101 – 115	Position 5 shake from slow to fast
			116 – 130	Position 6 shake from slow to fast
			131 – 145	Position 7 shake from slow to fast
			146 – 201	Indexing from 0-360°
			202 – 255	Slow to fast (reverse spin)
			000 – 191	Indexing from 0-360°
16	16	Gobo Rotation	192 – 221	Slow to fast (forward spin)
	-0		222 – 225	Stop
			226 – 255	Fast to slow (reverse spin)
	17	Gobo Rotation Fine	000 – 255	
			000 – 007	Open
			008 – 015	Position 1
			016 – 023	Position 2
			024 – 031	Position 3
			032 – 039	Position 4
			040 – 047	Position 5
			048 – 055	Position 6
			056 – 063	Position 7
			064 – 071	Position 8
17	18	Fixed Gobo	072 – 113	Fast to slow (reverse spin)
			114 – 117	Stop
			118 – 159	Slow to fast (forward spin)
			160 – 171	Position 1 shake from slow to fast
			172 – 193	Position 2 shake from slow to fast
			184 – 195	Position 3 shake from slow to fast
			196 – 207	Position 4 shake from slow to fast
			208 – 219	Position 5 shake from slow to fast
			220 – 231	Position 6 shake from slow to fast
			232 – 243	Position 7 shake from slow to fast
	-		244 – 255	Position 8 shake from slow to fast
18	19	Prism	000 – 127	Open
	-		128 – 255	Insertion
			129 199	Indexing from 0-360°
19	20	Prism Rotation	128 – 188	Slow to fast (forward spin)
			189 – 193 194 – 255	Stop
	21	Prism Rotation Fine	+	Fast to slow (reverse spin)
20	21		000 – 255	Dual frost inserted linearly
20 21	23	Frost Focus	000 – 255 000 – 255	Focus coarse
22	24	Focus Fine	000 – 255	Focus coarse Focus fine
23	25	Zoom	000 – 255	Zoom coarse
	23	200111	000 - 255	Zuum cuarse

24	26	Zoom Fine	000 – 255	Zoom fine
25	27	Effect	000 – 255	Zoom me
25	27	Effect		Onen
			000 - 004 005 - 127	Open Slow to fast (forward)
26	28	Effect Rotation		
			128 – 132	Stop
			133 – 255 000 – 063	Slow to fast (reverse)
			064 – 127	From large to small Close from slow to fast
27	29	Iris		
			128 – 191	Open from slow to fast
28	30	Framing Chutter 1 Mayoment	192 – 255 000 – 255	Random open and close Movement from outward to inward
20	30	Framing Shutter 1 Movement	000 – 233	
29	31	Framing Shuttor 1 Swivel	128	Swivelling from -25° - 0° 0°
29	31	Framing Shutter 1 Swivel	129 – 255	Swivelling from 0° - 25°
30	32	Framing Shutter 2 Mayoment	000 – 255	Movement from outward to inward
30	32	Framing Shutter 2 Movement	000 – 255	Swivelling from -25° - 0°
31	33	Framing Shutter 2 Swivel	128	0°
31	33	Framing Shutter 2 Swiver	129 – 255	Swivelling from 0° - 25°
32	34	Framing Shutter 2 Meyement	000 – 255	Movement from outward to inward
32	34	Framing Shutter 3 Movement	000 – 233	Swivelling from -25° - 0°
33	35	Framing Shutter 3 Swivel	128	O°
33		Training Shatter 5 Swiver	129 – 255	Swivelling from 0° - 25°
34	36	Framing Shutter 4 Movement	000 – 255	Movement from outward to inward
34	30	Training Shutter 4 Movement	000 – 233	Swivelling from -25° - 0°
35	37	Framing Shutter 4 Swivel	128	0°
	37	Training Shutter 4 Swiver	129 – 255	Swivelling from 0° - 25°
			000 – 127	Rotation from left to centre
36	38	Framing Shutters Rotation	128	Centre
		Training offactors notation	129 – 255	Rotation from centre to right
			000 – 003	No Function
			004 – 011	Macro 1
			012 – 018	Macro 2
			019 – 025	Macro 3
			026 – 032	Macro 4
			033 – 039	Macro 5
			040 – 047	Macro 6
			048 – 054	Macro 7
			055 – 061	Macro 8
			062 – 068	Macro 9
37	39	Shutter Macros	069 – 075	Macro 10
			076 – 082	Macro 11
			083 – 090	Macro 12
			091 – 097	Macro 13
			098 – 104	Macro 14
			105 – 111	Macro 15
			112 – 118	Macro 16
			119 – 125	Macro 17
			126 – 133	Macro 18
			134 – 140	Macro 19
			141 – 147	Macro 20
·			=	

			_	1
			148 – 155	Macro 21
			156 – 161	Macro 22
			162 – 168	Macro 23
			169 – 176	Macro 24
			177 – 183	Macro 25
			184 – 190	Macro 26
			191 – 197	Macro 27
			198 – 204	Macro 28
			205 – 211	Macro 29
			212 – 219	Macro 30
			220 – 226	Macro 31
			227 -233	Macro 32
			234 – 240	Macro 33
			241 – 247	Macro 34
			248 – 255	Macro 35
38	40	Shutter Macro Speed	000 – 255	Speed from slow to fast
			000 – 025	No Function
20	20 44	4	026 – 076	Head reset
39	41	Control	077 – 127	Pan and Tilt reset
			128 – 255	Reset all

MAINTENANCE

Maintenance and Cleaning the Unit

- Make sure the area below the installation place is free from unwanted persons during setup.
- Switch off the unit, unplug the main cable and wait till the unit has cooled down.
- All screws used for installing the device and any of its parts should be tightly fastened and should not be corroded.
- Housings, fixings and installation spots (celling, trusses, suspensions) should be totally free from any deformation.
- The main cables must be in impeccable condition and should be replaced immediately even when a small problem is detected.
- It is recommended to clean the front lens at regular intervals, from impurities caused by dust, smoke, or other particles to ensure that the light is radiated at maximum brightness. For cleaning, disconnect the main plug from the socket. Use a soft, clean cloth moistened with a mild detergent. Then carefully wipe the parts dry.
- For cleaning other housing parts use only a soft, clean cloth. Never use a liquid, it might penetrate the unit and cause damage to it.



- 1. Disconnect this product from the power outlet.
- 2. Using a screwdriver, unscrew the fuse holder cap from the housing.
- 3. Remove the blown fuse and replace with a good fuse of the same type and rating.
- 4. Screw the fuse holder cap back in place and reconnect power.



TROUBLESHOOTING

Problem	Possible Causes	Checks and Remedies
	-No mains supply	-Check power supply voltage
Fixture does not	-Dimmer fader set to 0	-Increase value of the dimmer channel
light up	-Faulty LED	-Replace the LED board
	-Faulty LED board	-Replace the LED board
General low light	-Dirty lens assembly	-Clean the fixture regularly
intensity	-Misaligned lens assembly	-Install lens assembly properly
Fixture does not	-No power	-Check for power on outlet
	-Loose or damaged power cord	-Check power cord
power up	-Faulty internal power supply	-Replace internal power supply

Contact an authorized service centre in case of technical problems or not reported in the above table cannot be resolved by the procedure given in the table.

