EK

K65 IP

USER MANUAL

CONTENTS

· Errors or omissions may be possible.
· All specifications are subject for change without prior notice.
· You can scan the QR code to visit our website for updates:

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,user 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 serving 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 moreover,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 lable.
- 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℃.
- Make certain that no inflammable liquids,water ot 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 recyling 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 the safety rope.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's being used.
- Install the fixture in a well ventilated place.
- Keep any inflammable 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 + color wheel/split colors
· White color 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
Color Tempeature	7300K
Lumen Output	Up to 34000lm
Lux Output	90000lux@5M
CRI	68
TM-30-15rg/rf	95/69
TLCI	45
LED Life	Over 30K hrs
Beam Angle	5°~50°
PAN	540°
TILT	270°
Color System	CMY + CTO(2500K~6000K, linear) + Color 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, motorzied iris, 15~100% adjustable
Zoom	5° ~ 50°(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	1295W @ 230VAC
Power Connection	PowerCON True One In
Power Factor	0.96@230VAC
Protocol	DMX512/RDM
DMX Channel	39CH/41CH

SPECIFICATIONS

Display	2.83inch TFT disply
Data Connection	Seetronic 3Pin(or 5Pin) XLR for DMX, linking up to 32pcs
Housing	Magnesium alloy, matte black finish
Cooling	Low noise waterproof fan with heat pipe
ip Rating	IP66
Operating Ambient Tempt.	-10~45℃
Dimension	390*334*762mm
Weight	38.5KG

PHOTOMETRICS
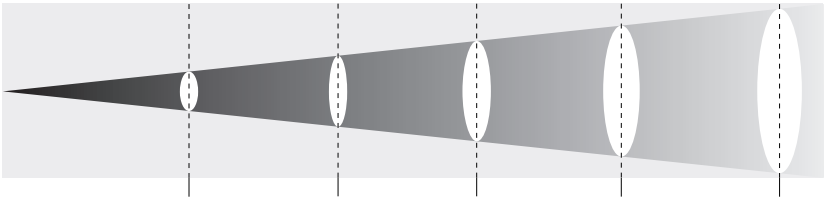
5°

Distance(m)	5	10	15	20	30
Illuminance(lux)	90000	22500	10000	5625	2500
Diameter(m)	0.43	0.87	1.3	1.74	2.58
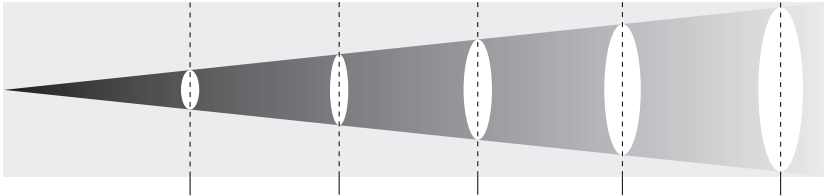
51°

Distance(m)	5	10	15	20	30
Illuminance(lux)	2000	500	222	125	56
Diameter(m)	4.66	9.34	13.9	18.6	27.9

COLOR & GOBO

COLOR SYSTEM

| CRI-4 | Congo Blue | Orange | Deep Green | Blue Brillante | Dark Red | CMY | CTO 2500K- 6000K |

ROTATING GOBO

Ripple Glass

20.5mm

26.9m±0.2mm
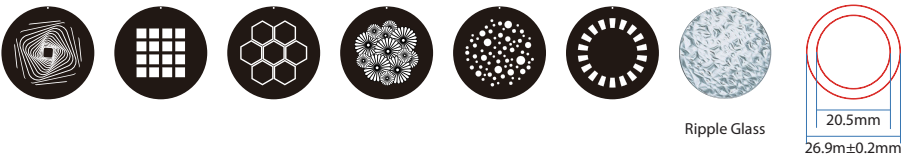
FIXED GOBO

ANIMATION

FRAMING SHUTTER

4-FACET PRISM

DIMENSION

100

Ø14

356.6

Ø140

427

762

534

128

390

277

863

330
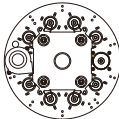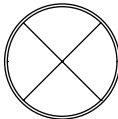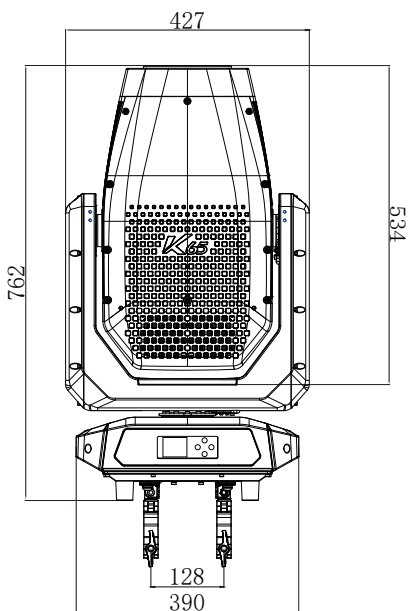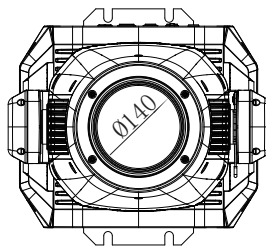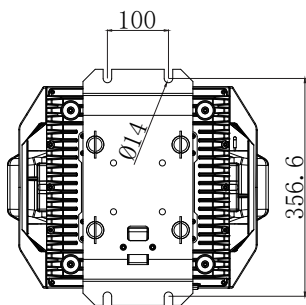
OVERVIEW

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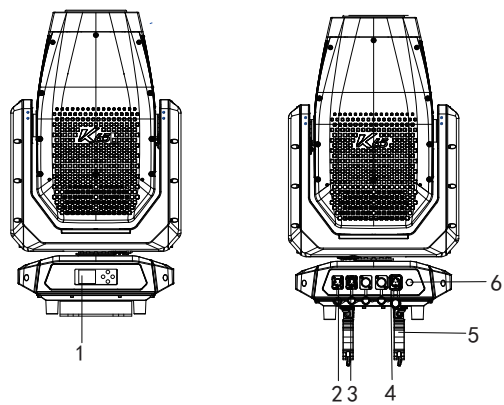
1. CONTROL PANEL
2. 3Pin(or 5Pin) DMX In
3. 3Pin(or 5Pin) DMX Out

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

CONTROL PANEL

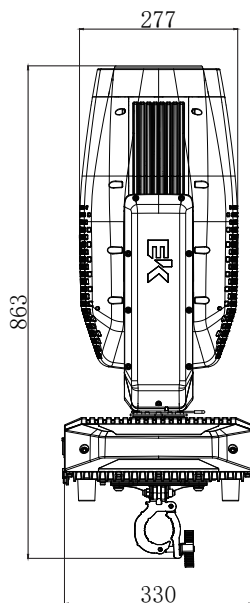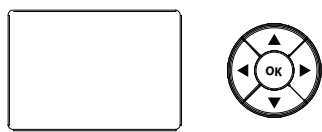| MODE	ILLUSTRATION	FUNCTION DESCRIPTION	EFFECT
MENU	Menu Option	Enter the menu	Menu operation
UP	Up	Scroll up	Increase the numeric value
DOWN	Down	Scroll down	Decrease the numeric value
ENTER	Confirm	Confirm	Save the function
OK	Confirm	Confirm	Save the function

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 3seconds to set display orientation.

INSTALLATION
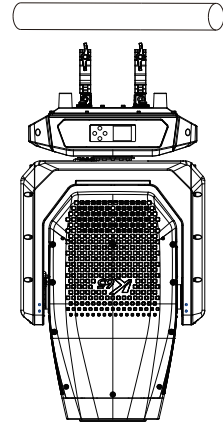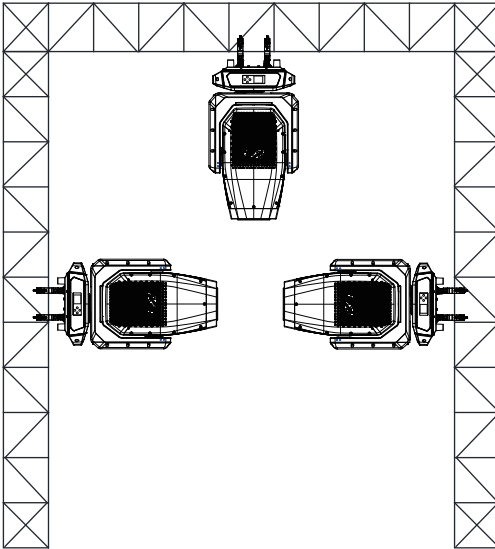
We recommend the following general guidelines below:

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 be sufficient stability and be able to support a weight of 10 times of the unit's weight.
When carrying out any installation, always comply scrrupulously 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
· 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.
· Adjust the fixture and use the knob to slightly release or tighten the locking mechanism of the bracket if is neccessary

CONNECTION

POWER CONNECTION
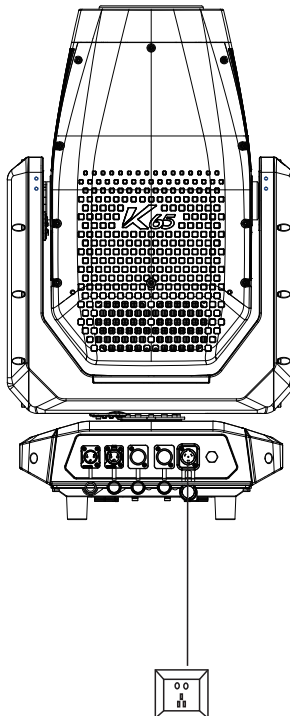
Using PowerCon True One In power cable connected in series

Attention: due to power rating, one 1.5mm² power cable

can connect 1 unit maximum

Power IN

⚠️ WARNING

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

Do not use damage power cable

Power off the fixture when not in use

CONNECTION

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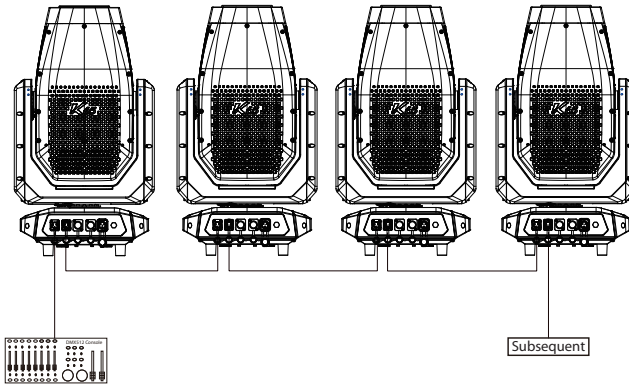
· Depending on the length of the DMX cable run, or other factors, it may be advisable to install a terminator at the last fixture in the run.
· The illustration below shows the correct placement of a 120Ω 0.25W resistor in a terminator, as well as the standard DMX signal pin-outs

	COMMON	
DMX INPUT	DMX-	DMX OUTPUT
	DMX+	
	Not Used	
	Not Used	

120Ω 1/4 W resistor

	COMMON	
	DMX+	
	DMX-	
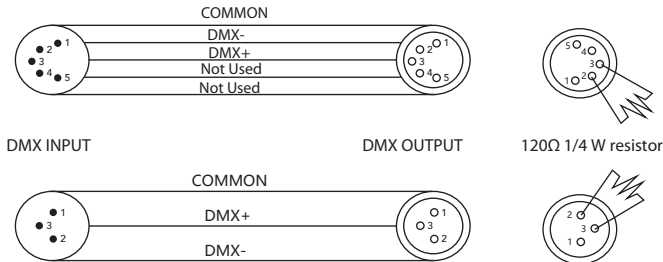
EXAMPLE OF DMX ADDRESSING

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.

Relation between DMX and Address

MODE	ALLOCATION	START ADDRESS 1ST FIXTURE	START ADDRESS 2ND FIXTURE	START ADDRESS 3RD FIXTURE	START ADDRESS 4TH FIXTURE
39CH	001 - 039	001	040	079	118
41CH	001 - 041	001	042	083	124

Follow above method for subsequent fixtures, calculating starting addressed as indicated.

MENU

NO.	Main Menu	Menu Level 1	Menu Level 2	Menu Level 3	Default
1	CONNECT	DMX Address	CH39 1-474 CH41 1-472		Default: 1
		DMX Mode	STANDARD-39CH EXTENDED-41CH		Default: 39CH
2	SETUP	Movement	Pan Reverse	No Yes	Default: NO
			Tilt Reverse	No Yes	Default: NO
			Encoder pan/Tilt	No Yes	Default: YES
		Screen	Back Light	On 10S 20S 30S	Default: NO
			Flip Display	No Yes Auto	Default: No
			Warn Cue	Off On	Default: No
			Key Lock	No Yes	Default: No
		Fixture	Dimmer Mode	Dimmer 1 Dimmer 2 Dimmer 3 Dimmer 4	Default:Dimmer 1
			Dimmer curve	Linear EXPOnentiel Logarithmic S-curve	Default:Logarithmic
			Fan Mode	Auto Silent Silent 2 High Off	Default: Auto
			Temperature unit	°C °F	Default: °C
		Auto Test	Auto Test …		
		Manual Test	Pan	000-255	
			Pan Fine	000-255	
			Tilt	000-255	
			Tilt Fine	000-255	
			P/T Speed	000-255	
			Shutter	000-255	
			Dimmer	000-255	
			Dim Fine	000-255	
			Dim Fade	000-255	
			Cyan	000-255	
			Magenta	000-255	
			Yellow	000-255	
			CTO	000-255	
			Color	000-255	
			Gobo 1	000-255	
			RGobo	000-255	
			Gobo 2	000-255	
			Prism	000-255	
			Rot Prism	000-255	
			Frost	000-255	
			Focus	000-255	
			Focus Fine	000-255	

MENU

NO.	Main Menu	Menu Level 1	Menu Level 2	Menu Level 3	Default
2	SETUP	Manual Test	Zoom	000-255	
			Zoom Fine	000-255	
			Effect	000-255	
			Rot Effect	000-255	
			Iris	000-255	
			Fr.shutter 1 Move.	000-255	
			Fr.shutter 1 Swiv.	000-255	
			Fr.shutter 2 Move.	000-255	
			Fr.shutter 2 Swiv.	000-255	
			Fr.shutter 3 Move.	000-255	
			Fr.shutter 3 Swiv.	000-255	
			Fr.shutter 4 Move.	000-255	
			Fr.shutter 4 Swiv.	000-255	
			Shu Rot.	000-255	
			Fr Macros	000-255	
			Macros Sp	000-255	
			Control	000-255	
3	ADVANCED	Reset	ALL		
			PAN/TILT		
			Head		
		Adjust	Pan	000-255	
			Tilt	000-255	
			Cyan	000-255	
			Magenta	000-255	
			Yellow	000-255	
			CTO	000-255	
			Color	000-255	
			Gobo 1	000-255	
			RGobo 1	000-255	
			Gobo 2	000-255	
			Prism	000-255	
			R Prism	000-255	
			Effect	000-255	
			Focus	000-255	
			Zoom	000-255	
			Frost 1	000-255	
			Iris	000-255	
			Fr.shutters Rot.	000-255	
			Fr.shutter 1 M1	000-255	
			Fr.shutter 1 M2	000-255	
			Fr.shutter 2 M1	000-255	
			Fr.shutter 2 M2	000-255	
			Fr.shutter 3 M1	000-255	
			Fr.shutter 3 M2	000-255	
			Fr.shutter 4 M1	000-255	
			Fr.shutter 4 M2	000-255	
		Factory Reload	Detault preset	Reset To Default	
				GoBack	
			user preset1	Load preset1	
				Save to preset1	
			user preset2	Load preset2	
				Save to preset2	
			user preset3	Load preset3	
				Save to preset3	

MENU

NO.	Main Menu	Menu Level 1	Menu Level 2	Menu Level 3	Default
4	INFORMATION	Fixture hours	0-9999		
		Fans Speed	100%		
		Software Version	DISP- V1.0		
			CTR1-XY- V1.0		
			CTR2-MOTOR-V1.0		
			CTR3-MOTOR-V1.0		
			CTR4-MOTOR-V1.0		
		RDM UID	030F0A7*****		
		View DMX	Pan	000-255	
			Pan Fine	000-255	
			Tilt	000-255	
			Tilt Fine	000-255	
			P/T Speed	000-255	
			Shutter	000-255	
			Dimmer	000-255	
			Dim Fine	000-255	
			Dim Fade	000-255	
			Cyan	000-255	
			Magenta	000-255	
			Yellow	000-255	
			CTO	000-255	
			Color	000-255	
			Gobo 1	000-255	
			RGobo	000-255	
			Gobo 2	000-255	
			Prism	000-255	
			Rot Prism	000-255	
			Frost	000-255	
			Focus	000-255	
			Focus Fine	000-255	
			Zoom	000-255	
			Zoom Fine	000-255	
			Effect	000-255	
			Rot Effect	000-255	
			Iris	000-255	
			Fr.shutter 1 Move.	000-255	
			Fr.shutter 1 Swiv.	000-255	
			Fr.shutter 2 Move.	000-255	
			Fr.shutter 2 Swiv.	000-255	
			Fr.shutter 3 Move.	000-255	
			Fr.shutter 3 Swiv.	000-255	
			Fr.shutter 4 Move.	000-255	
			Fr.shutter 4 Swiv.	000-255	
			shu Rot.	000-255	
			Fr Macros	000-255	
			Macros Sp	000-255	

DMX CHART

39CH	41CH	Function	Value	Precent/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
5	5	P/T Speed	000-250	Fast to slow
			251-255	Movement with Blackout
6	6	Shutter	000-010	No function (shutter open)
			011-082	Pulse-effect, from slow to fast
			083-093	No function (shutter open)
			094-163	Pulse-effect in sequences
			164-174	No function (shutter open)
			175-243	Random Shutter effect, slow to fast
			244-255	No function (shutter open)
7	7	Dimmer	000-255	0~100%
8	8	Dim Fine	000-255	0~100%
9	9	Dimmer Mode	000-051	No function
			052-101	Dimmer 1
			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	CTO	000-255	0~100%
14	14	Color	000-004	Open
			005-009	Open+Color1
			010-013	Color1
			014-018	Color1+Color2
			019-022	Color2
			023-027	Color2+ Color3
			028-031	Color3
			032-036	Color3+ Color4
			037-040	Color4
			041-045	Color4+Color5
			046-049	Color5
			050-054	Color5+ Color6
			055-058	Color6
			059-063	Color6+ Open
			064-095	Stop to fast(Forward Spin)
			096-127	Stop to fast(Reverse Spin)
			128-255	Positioning from 0-360 degrees(Indexing)
15	15	Rotating Gobo	000-005	Open
			006-010	Position 1
			011-015	Position 2
			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

DMX CHART

39CH	41CH	Function	Value	Precent/Setting
15	15	Rotating Gobo	116-130	Position 6 Shake,from slow to fast
			131-145	Position 7 Shake,from slow to fast
			146-201	Positioning from 0-360 degrees(Indexing)
			202-255	Stop to fastest(reverse wheel spin)
16	16	Rotating Gobo, gobo rotation	000-191	Positioning from 0-360 degrees(Indexing)
			192-221	Slow to fast(forward spin)
			222-225	Stop
			226-255	Fast to slow(reverse spin)
/	17	Rotating Gobo, gobo fine	0-255	
17	18	Fixed Gobo	0-7	Open
			8-15	Position 1
			16-23	Position 2
			24-31	Position 3
			32-39	Position 4
			40-47	Position 5
			48-55	Position 6
			56-63	Position 7
			64-71	Position 8
			72-113	Fastest to stop(reverse wheel spin)
			114-117	Positioning from 0-360 degrees(Indexing)
			118-159	Stop to fastest(forward wheel spin)
			160-171	Position 1 Shake,from slow to fast
			172-195	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
19	20	Prism Rot.	000-127	Insertion and Positioning from 0-360(Index)
			128-188	From fast to slow, forward wheel spin
			189-193	Stop
			194-255	From fast to slow, reverse wheel spin
/	21	Rot Prism Fine	000-255	
20	22	Frost	000-255	Dual frost move linearly into the light beam
21	23	Focus	000-255	Focus
22	24	Focus Fine	000-255	Focus Fine
23	25	Zoom	000-255	Zoom
24	26	Zoom Fine	000-255	Zoom Fine
25	27	Effect	000-255	
26	28	Rot Effect	000-004	Open/No Function
			005-127	Forward stop to fastest
			128-132	Stop
			133-255	Reverse stop to fastest
27	29	Iris	000-063	From large to small
			064-127	Close from slow to fast (Effects)
			128-191	Open from slow to fast (Effects)
			192-255	Random open and close
28	30	Framing Shutter 1 movent	000-255	Movement from outward to inward
29	31	Framing Shutter 1 swivelling	000-127	Swivelling from -25 degrees towards 0 degrees
			128	0°
			129-255	Swivelling from 0 degrees to +25 degrees

DMX CHART

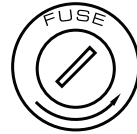| 39CH	41CH	Function	Value	Precent/Setting
30	32	Framing Shutter 2 movent	000-255	Movement from outward to inward
31	33	Framing Shutter 2 swivelling	000-127	Swivelling from -25 degrees towards 0 degrees
			128	0°
			129-255	Swivelling from 0 degrees to +25 degrees
32	34	Framing Shutter 3 movent	000-255	Movement from outward to inward
33	35	Framing Shutter 3 swivelling	000-127	Swivelling from -25 degrees towards 0 degrees
			128	0°
			129-255	Swivelling from 0 degrees to +25 degrees
34	36	Framing Shutter 4 movent	000-255	Movement from outward to inward
35	37	Framing Shutter 4 swivelling	000-127	Swivelling from -25 degrees towards 0 degrees
			128	0°
			129-255	Swivelling from 0 degrees to +25 degrees
36	38	Framing Shutters Rotation	000-127	Rotation from left to center
			128	Center
			129-255	Rotation from center to right
37	39	Shutters Macros	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
			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
			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	Shutters Macro Speed	000-255	Speed From Slow to Fast
39	41	Control	000-025	No Function
			026-076	Head Reset
			077-127	Pan&tilt Reset
			128-255	Reset All

MAINTENANCE

MAINTENANCE AND CLEANING THE UNIT

- Make sure the area below the installation place is free from unwanted person 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,fixations 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 at regular intervals,from impurities caused by dust,smoke,or other particles to ensure that the ligh 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 pernetrate the unit and cause damage to it.

FRONT LENS
ZOOM LENS
FOCUS LENS
CLEAR LENS
CLUSTER LENS
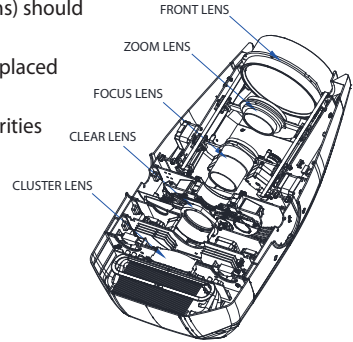
FUSE REPLACEMENT

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 rat
-ing.
4.Screw the fuse holder cap back in place and reconnect power.

FUSE

TROUBLESHOOTING

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

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