# 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 ( $230 \mathrm{~V} \sim$ ). 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 $40^{\circ} \mathrm{C}$
- 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 36 k lumen
- Wide zoom range from $5^{\circ} \sim 50^{\circ}$
- 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 $540^{\circ} / 270^{\circ}$ 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 | $5^{\circ} \sim 50^{\circ}$ |
| PAN | $540^{\circ}$ |
| TILT | $270^{\circ}$ |
| 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 $+/-35^{\circ}$ rotation, complete system with $+/-60^{\circ}$ rotation |
| Iris | 15-leaf, motorized iris, 15~100\% adjustable |
| Zoom | $5^{\circ} \sim 50^{\circ}(10 x)$ motorized zoom |
| Frost | Light $1^{\circ}$ frost with $0 \sim 100 \%$ linear adjustment |
| Strobe | $1 \sim 30 \mathrm{~Hz}$ |
| LED Frequency | 40 K 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. | $-10^{\sim} 45^{\circ} \mathrm{C}$ |
| Dimension | $390^{*} 334^{*} 762 \mathrm{~mm}$ |
| Weight | 38.5 KG |

## PHOTOMETRICS


$51^{\circ}$

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

## COLOUR \& GOBO

## Colour System



## Rotating Gobo



## Fixed Gobo



Animation
Framing/Shutter
4-Facet Prism


## DIMENSIONS



## 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 | 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
- 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



Attention: due to power rating, one $1.5 \mathrm{~mm}^{2}$ 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



- 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 $120 \Omega 0.25 \mathrm{~W}$ 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 <br> ADDRESS | FIXTURE 2 <br> ADDRESS | FIXTURE 3 <br> ADDRESS | FIXTURE 4 <br> ADDRESS |
| :---: | :---: | :---: | :---: | :---: | :---: |
| $39 C H$ | $001-039$ | 001 | 040 | 079 | 118 |
| 41 CH | $001-041$ | 001 | 042 | 083 | 124 |

## MENU



|  |  |  | 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 |  |
|  |  |  | 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 <br> Mov | 0-255 |  |
|  |  |  | Fr. Shutter 1 Swiv | 0-255 |  |
|  |  |  | Fr. Shutter 2 Mov | 0-255 |  |
|  |  |  | Fr. Shutter 2 Swiv | 0-255 |  |
|  |  |  | Fr. Shutter 3 <br> Mov | 0-255 |  |
|  |  |  | Fr. Shutter 3 Swiv | 0-255 |  |
|  |  |  | Fr. Shutter 4 Mov | 0-255 |  |
|  |  |  | Fr. Shutter 4 Swiv | 0-255 |  |
|  |  |  | Shutter Rot | 0-255 |  |
|  |  |  | Fr Macros | 0-255 |  |
|  |  |  | Macro Speed | 0-255 |  |
|  |  |  | Control | 0-255 |  |
|  |  |  | All |  |  |
|  |  | Reset | Pan/Tilt |  |  |
|  |  |  | Head |  |  |
|  |  |  | Pan | 0-255 |  |
| 3 | ADVANCED |  | Tilt | 0-255 |  |
|  |  |  | Cyan | 0-255 |  |
|  |  | Adjust | Magenta | 0-255 |  |
|  |  |  | Yellow | 0-255 |  |
|  |  |  | CTO | 0-255 |  |


|  |  |  | 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 |  |
|  |  |  | Default Preset | Reset to Default |  |
|  |  |  | Default Preset | Go Back |  |
|  |  |  | User Preset 1 | Load Preset 1 |  |
|  |  | Factory Reload | User Preset 1 | Save to Preset 1 |  |
|  |  | Factory Reload | User Preset 2 | Load Preset 2 |  |
|  |  |  | User Preset 2 | Save to Preset 2 |  |
|  |  |  | User Preset 3 | Load Preset 3 |  |
|  |  |  | User Preset 3 | Save to Preset 3 |  |
| 4 | INFORMATION | Fixture Hours | 0-9999 |  |  |
|  |  | Fans Speed | 100\% |  |  |
|  |  |  | DISP - V1 |  |  |
|  |  |  | CTR1-XY - V1 |  |  |
|  |  | Software | CTR2-MOTOR - <br> V1 |  |  |
|  |  | Version | CTR3-MOTOR V1 |  |  |
|  |  |  | CTR3-MOTOR - <br> V1 |  |  |
|  |  | RDM UID | 03oFoA7***** |  |  |
|  |  | View DMX | Pan | 0-255 |  |
|  |  |  | Pan Fine | 0-255 |  |
|  |  |  | Tilt | 0-255 |  |
|  |  |  | Tilt Fine | 0-255 |  |
|  |  |  | P/T Speed | 0-255 |  |
|  |  |  | 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 |  |
|  |  |  | 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 Mov | 0-255 |  |
|  |  |  | Fr. Shutter 1 Swiv | 0-255 |  |
|  |  |  | Fr. Shutter 2 Mov | 0-255 |  |
|  |  |  | Fr. Shutter 2 Swiv | 0-255 |  |
|  |  |  | Fr. Shutter 3 Mov | 0-255 |  |
|  |  |  | Fr. Shutter 3 Swiv | 0-255 |  |
|  |  |  | Fr. Shutter 4 Mov | 0-255 |  |
|  |  |  | Fr. Shutter 4 Swiv | 0-255 |  |
|  |  |  | Shutter Rot | 0-255 |  |
|  |  |  | Fr Macros | 0-255 |  |
|  |  |  | Macro 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 |
| 5 | 5 | P/T Speed | 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 | 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 | CTO | 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 ${ }^{\circ}$ |
| 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 |
|  |  |  | 116-130 | Position 6 shake from slow to fast |
|  |  |  | 131-145 | Position 7 shake from slow to fast |
|  |  |  | 146-201 | Indexing from 0-360 ${ }^{\circ}$ |
|  |  |  | 202-255 | Slow to fast (reverse spin) |
| 16 | 16 | Gobo Rotation | 000-191 | Indexing from 0-360 ${ }^{\circ}$ |
|  |  |  | 192-221 | Slow to fast (forward spin) |
|  |  |  | 222-225 | Stop |
|  |  |  | 226-255 | Fast to slow (reverse spin) |
|  | 17 | Gobo Rotation Fine | 000-255 |  |
| 17 | 18 | Fixed Gobo | 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 |
|  |  |  | 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 |
| 19 | 20 | Prism Rotation | 000-127 | Indexing from 0-360 ${ }^{\circ}$ |
|  |  |  | 128-188 | Slow to fast (forward spin) |
|  |  |  | 189-193 | Stop |
|  |  |  | 194-255 | Fast to slow (reverse spin) |
|  | 21 | Prism Rotation Fine | 000-255 |  |
| 20 | 22 | Frost | 000-255 | Dual frost inserted linearly |
| 21 | 23 | Focus | 000-255 | Focus coarse |
| 22 | 24 | Focus Fine | 000-255 | Focus fine |
| 23 | 25 | Zoom | 000-255 | Zoom coarse |


| 24 | 26 | Zoom Fine | 000-255 | Zoom fine |
| :---: | :---: | :---: | :---: | :---: |
| 25 | 27 | Effect | 000-255 |  |
| 26 | 28 | Effect Rotation | 000-004 | Open |
|  |  |  | 005-127 | Slow to fast (forward) |
|  |  |  | 128-132 | Stop |
|  |  |  | 133-255 | Slow to fast (reverse) |
| 27 | 29 | Iris | 000-063 | From large to small |
|  |  |  | 064-127 | Close from slow to fast |
|  |  |  | 128-191 | Open from slow to fast |
|  |  |  | 192-255 | Random open and close |
| 28 | 30 | Framing Shutter 1 Movement | 000-255 | Movement from outward to inward |
| 29 | 31 | Framing Shutter 1 Swivel | 000-127 | Swivelling from $-25^{\circ}-0^{\circ}$ |
|  |  |  | 128 | $0^{\circ}$ |
|  |  |  | 129-255 | Swivelling from $0^{\circ}-25^{\circ}$ |
| 30 | 32 | Framing Shutter 2 Movement | 000-255 | Movement from outward to inward |
| 31 | 33 | Framing Shutter 2 Swivel | 000-127 | Swivelling from $-25^{\circ}-0^{\circ}$ |
|  |  |  | 128 | $0^{\circ}$ |
|  |  |  | 129-255 | Swivelling from $0^{\circ}-25^{\circ}$ |
| 32 | 34 | Framing Shutter 3 Movement | 000-255 | Movement from outward to inward |
| 33 | 35 | Framing Shutter 3 Swivel | 000-127 | Swivelling from $-25^{\circ}-0^{\circ}$ |
|  |  |  | 128 | $0^{\circ}$ |
|  |  |  | 129-255 | Swivelling from $0^{\circ}-25^{\circ}$ |
| 34 | 36 | Framing Shutter 4 Movement | 000-255 | Movement from outward to inward |
| 35 | 37 | Framing Shutter 4 Swivel | 000-127 | Swivelling from $-25^{\circ}-0^{\circ}$ |
|  |  |  | 128 | $0^{\circ}$ |
|  |  |  | 129-255 | Swivelling from $0^{\circ}-25^{\circ}$ |
| 36 | 38 | Framing Shutters Rotation | 000-127 | Rotation from left to centre |
|  |  |  | 128 | Centre |
|  |  |  | 129-255 | Rotation from centre to right |
| 37 | 39 | Shutter 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 | Shutter Macro Speed | 000-255 | Speed from slow to fast |
| 39 | 41 | Control | 000-025 | No Function |
|  |  |  | 026-076 | Head reset |
|  |  |  | 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.


## 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 rating.
4. Screw the fuse holder cap back in place and reconnect power.


## TROUBLESHOOTING

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

