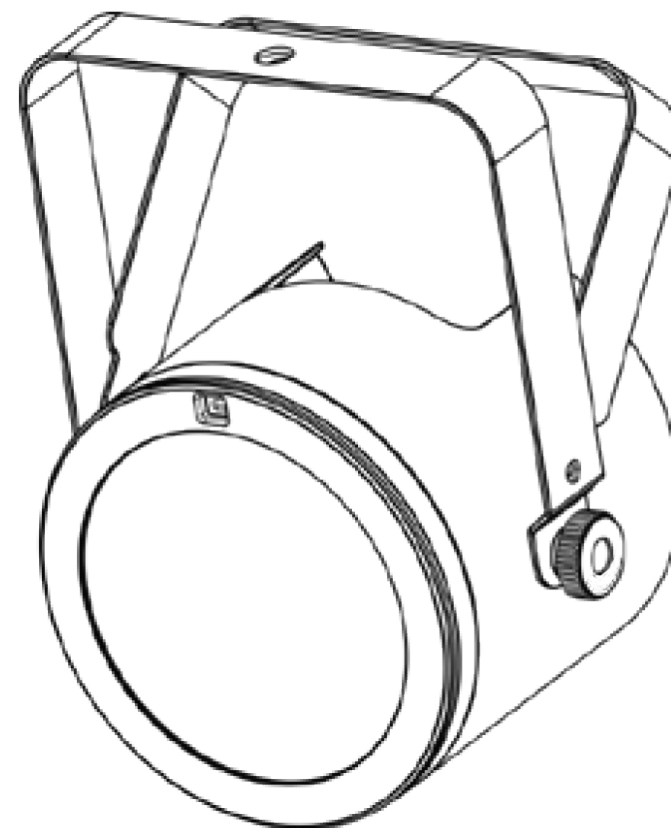


ULTRA PAR

Compact UV wash featuring
ultra wide coverage and
high-output COB LED

NITEC
powered by EK



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 until 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 (ceiling, 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 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 part 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. Remove the safety cap by a screwdriver.
2. Replace the blown fuse with a fuse of the exact same type and rating (T2A-250V).
3. Install the safety cap, and reconnect power.



Fig.7

TROUBLESHOOTING

| Problems | Possible causes | Checks and remedies |
|---------------------------------|---|---|
| Fixture does not light up | <ul style="list-style-type: none"> • No mains supply • Dimmer fader set to 0 • All color faders set to 0 • Faulty LED • Faulty LED board | <ul style="list-style-type: none"> • Check the power supply voltage • Increase the value of the dimmer channels • Increase the value of the color channels • Replace the LED board • Replace the LED board |
| General low light intensity | <ul style="list-style-type: none"> • Dirty lens assembly • Misaligned lens assembly | <ul style="list-style-type: none"> • Clean the fixture regularly • Install lens assembly properly |
| Fixture does not power up | <ul style="list-style-type: none"> • No power • Loose or damaged power cord • Faulty internal power supply | <ul style="list-style-type: none"> • Check for power on power outlet • Check power cord • Replace internal power supply |
| Fixture does not respond to DMX | <ul style="list-style-type: none"> • Wrong DMX addressing • Damaged DMX cables • Bouncing signals | <ul style="list-style-type: none"> • Check control panel and unit addressing • Check DMX cables • Install terminator as suggested |

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




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, usage and maintenance of the unit.



SAFETY

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 a power supply system fitted with efficient earthing (Class I appliance according to standard EN 60598-1). 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 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 45°C.
- Make certain that no inflammable 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 disposal which is not harmful to the environment. 

Warnings and installation precautions

- This equipment is reserved for professional use. It is not intended for domestic use.
- The unit for indoor use only. To prevent or reduce the risk of electrical shock or fire, do not expose the unit to rain or moisture.
- 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 other operation may lead to dangers like short circuit, burns, electric shock, etc.
- Always inspect the mechanical and electrical parts of ULTRA PAR equipment before fitting to check they are not damaged. Do not operate the product if you see damage. If the part is damaged, it has to be replaced by a qualified technician.
- Don't connect the device to a dimmer pack.
- Before starting any maintenance work or cleaning the fixture, cut off power from the main supply.
- Never attach to product other equipment different ULTRA PAR accessories.
- Never let the power-cord come into contact with other cables! Handle the power-cord and all connections with the mains with particular caution!
- Never remove warning or informative labels from the unit.
- Do not shake the device. Avoid brute force when installing or operating the device.
- Make sure that the device is not exposed to extreme heat, moisture or dust.
- Keep any inflammable material at a safe distance from the fixture.
- Make sure that the power-cord is never crimped or damaged. Check the device and the power cord from time to time. If the external cable is damaged, it has to be replaced by a qualified technician.

INTRODUCTION

ULTRA PAR is a compact UV wash utilizing the latest in COB LED technology and delivers saturated backlight coverage.

FEATURES

- Extremely wide UV coverage in a compact package utilizing the latest in Chip-on-Board LED technology
- Magnetic lens attachment system for easy swapping of narrow (30°) and wide (60°) Fresnel lenses (included)
- Die-cast road-worthy custom housing design
- Easily fits inside standard truss dimensions for dramatic uplighting effects
- Side-mounted Power and DMX connections for perfectly flat floor mounting
- High-frequency LED modulation for flicker-free video playback
- Built-in sound-active and auto (stand-alone) programs
- Power In and Out connections for linking multiple units
- USB port for optional UFI wi-fi transceiver for wireless DMX control
- Infrared sensor for optional IR6 remote control

SPECIFICATIONS

| | |
|--------------------|--|
| Light Source: | 1 x 80W Ultraviolet COB LED |
| Beam Angle: | 30° or 60° |
| Field Angle: | 50° or 100° |
| Colors: | UV 400nm |
| Strobe: | 0 - 30 Hz |
| PWM Frequency: | 600 Hz, flicker-free |
| Dimming: | 0-100% dimming |
| Control modes: | DMX, Auto, Sound-Active, Koala wireless DMX (with optional UFI transceiver), IR (with optional IR6 controller) |
| DMX Channels: | 1 / 5 |
| Built-in Programs: | Yes |
| Menu: | 4-digit LED display |
| Mains: | 100 - 240 VAC, 50/60 Hz (auto-ranging) |
| Power: | 61W |
| Power Linking: | Up to 8 units |
| Power connections: | IEC power In/Out |
| Data connections: | 3-pin XLR In/Out for DMX |
| Housing: | Die-cast Aluminium |
| Finish: | Matte Black |
| IP rating: | IP20 |
| Cooling: | Passive |
| Dimensions: | 253 x 200 x 143 mm |
| Weight: | 2 KG |

MASTER/SLAVE OPERATION (via UFI wi-fi transceiver)

ULTRA PAR units can operate in Master/Slave mode wirelessly using the optional UFI wi-fi transceiver. The master UFI-enabled unit can be operated in Auto mode or by the IR6 infrared remote, with the UFI set to transmit. The slave units should all be set to slave mode, with the UFI set to receive.

Note: Slave units should be configured before configuring master unit

Note: All units should be set to same DMX address, mode and UFI channel

Setup as below:

SLAVE UNITS:

Press MENU button until **1-CH** or **5-CH** is displayed

Press ENTER

Set DMX address to **d 1**

Set UFI to preferred receiving channel (1-16)

Attach UFI to the ULTRA PAR's USB port

MASTER UNIT:

Press MENU button until DMX mode is displayed that matches slave configuration

Press ENTER

Set DMX address to **d 1**

Set to Auto mode or control by IR6 infrared remote

Set UFI to chosen transmitting channel (1-16)

Attach UFI to the ULTRA-PAR's USB port

MASTER/SLAVE OPERATION (via DMX cable)

When multiple ULTRA PAR units are used together, Master/Slave mode enables the assignment of one master unit and multiple slave units. The master unit can be operated in stand-alone mode or by IR6 infrared remote control. The slave units should all be set to slave mode.

Note: Slave units should be configured and connected before linking to master unit

Setup as below:

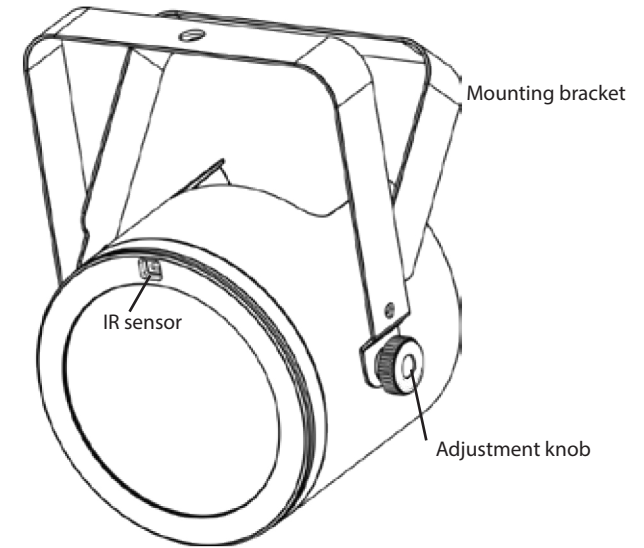
SLAVE UNITS:

Press MENU button until **1-CH** or **5-CH** is displayed
 Press ENTER
 Set DMX address to **d 1**
 Connect DMX cable from master unit to DMX In connector
 Link following slave units in similar cable configuration

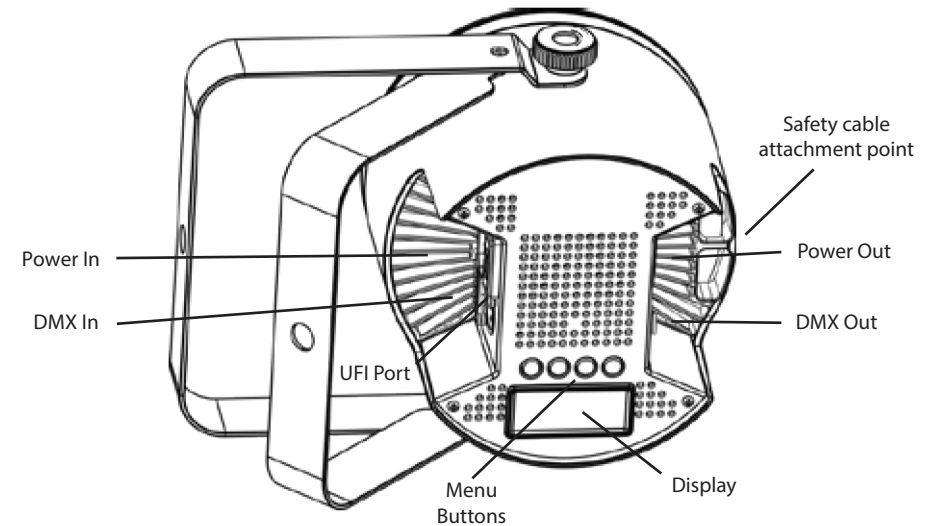
MASTER UNIT:

Set to Auto or control with IR6 infrared remote
 Link to slave units, beginning from the master DMX Out connector

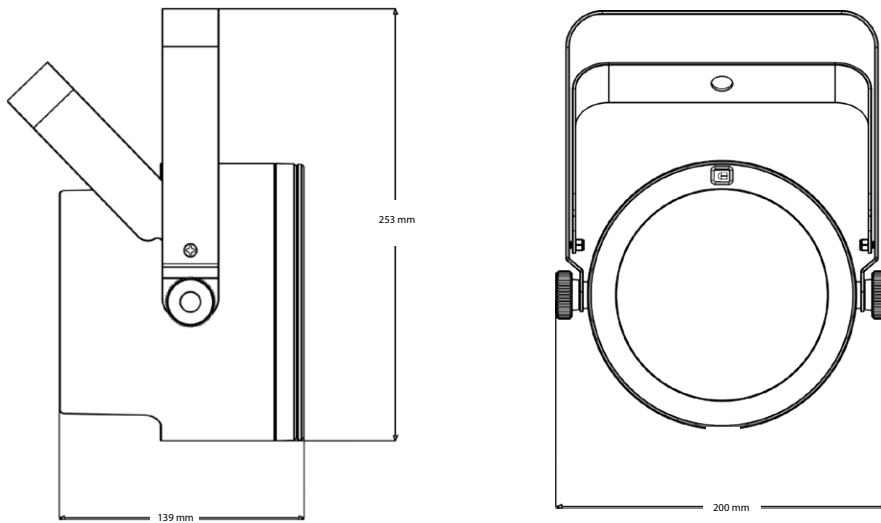
OVERVIEW



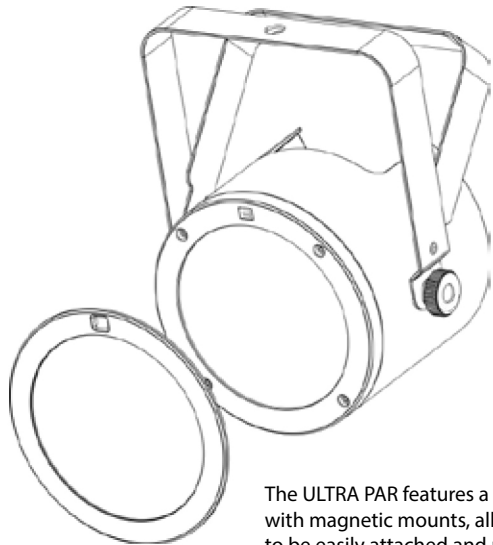
Rear View



DIMENSIONS



MAGNETIC FRESNEL LENS



The ULTRA PAR features a fresnel lens with magnetic mounts, allowing lenses to be easily attached and removed.

INFRARED (IR6) REMOTE CONTROL OPERATION

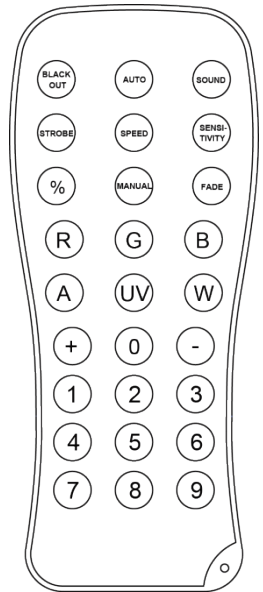
The (optional) IR6 infrared controller enables remote control of the ULTRA PAR.

To pair the IR6 to the ULTRA PAR, follow these steps:

1. Press MENU button until **Ser** is displayed
2. Press ENTER
3. Press UP or DOWN to turn infrared operation ON or OFF
4. Press ENTER

IR6 BUTTON FUNCTIONS

| | |
|--------------------|--|
| AUTO | : Run auto programs |
| FADE | : Fade auto programs |
| SPEED | : Enable speed adjustment of auto programs |
| + / - | : Increase / decrease speed of auto programs |
| SOUND | : Activate sound-active mode |
| + / - | : Select Snd1 or Snd2 sound-active programs |
| SENSITIVITY | : Enable sound sensitivity adjustment |
| + / - | : Increase / decrease sound sensitivity |
| MANUAL | : Enable manual control of UV output level |
| + / - | : Increase / decrease UV output |
| UV | : Also enables manual control of UV output level |
| + / - | : Increase / decrease UV output |
| % | : Also enables adjustment of UV output level |
| + / - | : Increase / decrease UV output |
| STROBE | : Enable adjustment of strobe rate |
| + / - | : Increase / decrease strobe rate |
| STROBE | : Press again to turn off strobe |
| BLACKOUT | : Turn off all UV output |
| BLACKOUT | : Press again to exit blackout mode |
| Note: | : If IR6 remote is not responding, press BLACKOUT to confirm that blackout mode was not mistakenly activated |



OPERATING MODE PRIORITY RANK

Higher priority control modes override lower priority modes

1. UFI
2. DMX (wired)
3. Infrared (IR6 remote)
4. Manual (onboard menu)

STAND-ALONE OPERATION

AUTO PROGRAM MODE

Press MENU button until **P--** is displayed
 Press ENTER
 Press UP or DOWN to select program (**P 1-3**)
 Press ENTER

SELECTING PROGRAM SPEED

Press MENU button until **S--** is displayed
 Press UP or DOWN to select speed (**S 1-100**)
 Press ENTER

SOUND-ACTIVE MODE

Press MENU button until **Snd** is displayed
 Press ENTER
 Press UP or DOWN to select sound-active program (**Snd1** or **Snd2**)
 Press ENTER

ADJUSTING SOUND SENSIVITY

Press MENU button until **Sens** is displayed
 Press UP or DOWN to adjust mic sensitivity (**u 0-100**)
 Press ENTER

MANUAL DIMMING

Press MENU button until **U--** is displayed
 Press ENTER and **d** will be displayed
 Press UP or DOWN to adjust output
 Press ENTER

DIMMING CURVE SELECTION

Press MENU button until **dIM** is displayed
 Press ENTER
 Press UP or DOWN to select **dIM1** (fast), **dIM2** (medium), **dIM3** (slow), or **OFF**
 Press ENTER

READING TEMPERATURE

Press MENU button until **teMP** is displayed
 Press ENTER

CONTROL MENU OVERVIEW

CONTROL PANEL

| BUTTON | FUNCTION |
|--------------|--|
| Menu | Selects operating mode or exits submenus |
| Up | Scrolls up through option lists or selects higher value |
| Down | Scrolls down through option lists or selects lower value |
| Enter | Activates displayed menu option or selected value |

FUNCTION MENU

| MODE | OPTIONS / VALUES | DESCRIPTION | |
|------------------------------|------------------|--------------------------|----------------------------|
| 1-CH | d 1-512 | 1-channel DMX mode | |
| 5-CH | | 5-channel DMX mode | |
| P-- (auto program) | P 1 | Fade effect (in / out) | |
| | P 2 | Pulse effect 0 – 100% | |
| | P 3 | Pulse effect 100 – 0% | |
| S-- | S 1 – 100 | Speed for P1–P3 | |
| Snd (sound-active) | Snd1 | Sound-active mode select | |
| | Snd2 | | |
| SenS | u 0 – 100 | Sound sensitivity level | |
| U-- | d 0 – 255 | Manual dimmer | |
| | | OFF | Dimmer curve select Off |
| | | dIM1 | Dimmer curve select Fast |
| | | dIM2 | Dimmer curve select Medium |
| SER | dIM3 | Dimmer curve select Slow | |
| | On | IR function (on / off) | |
| OFF | | | |
| teMP | -- | Temperature display | |

UFI OPERATION

To enable wireless DMX operation via the optional UFI wi-fi transceiver:

- 1) Set the ULTRA PAR starting DMX address
- 2) Set the UFI sending/receiving channel
- 3) Attach the UFI to the ULTRA PAR USB port
- 4) Use Dipswitch 5 to select UFI send or receive mode.



DMX FUNCTION CHART

5-CHANNEL MODE

| Channel | Function | Value | Percent/Setting |
|---------|------------------------------|---|-------------------------------|
| 1 | UV | 000 - 255 | 0-100% |
| | Strobe (if CH3 = 000-031) | 000 - 015 | No function |
| | | 016 - 255 | Slow -> fast |
| 2 | Speed (if CH3 = 032-223) | 000 - 255 | Slow -> fast |
| | | Sound Sensitivity (if CH3 = 224-255) | 000 - 010 |
| 3 | Programs | 000 - 031 | No function |
| | | 032 - 095 | Pulse effect 0% - 100% |
| | | 096 - 159 | Pulse effect 100% - 0% |
| | | 160 - 223 | Pulse effect 100% - 0% - 100% |
| | | 224 - 240 | Sound active program 1 |
| | | 241 - 255 | Sound active program 2 |
| 4 | Dimmer | 000 - 255 | 0-100% |
| 5 | Dimmer Speed | 000 - 051 | Default |
| | | 052 - 101 | Dimmer speed OFF |
| | | 102 - 152 | Dimmer speed FAST |
| | | 153 - 203 | Dimmer speed MEDIUM |
| | | 204 - 255 | Dimmer speed SLOW |

1-CHANNEL MODE

| Channel | Function | Value | Percent/Setting |
|---------|----------|-----------|-----------------|
| 1 | UV | 000 - 255 | 0-100% |