White-Par 12

LED PAR with 3-in-1 Amber - Warm white - Cool white LEDs projects perfectly mixed and finely tunable white light
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PACKING CONTENT
- WHITE-PAR 12
- Power cord
- User Manual
- Warranty Card
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 40 °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.

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.

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 (T1A-250V).
3. Install the safety cap, and reconnect power.

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

Troubleshooting

<table>
<thead>
<tr>
<th>Problems</th>
<th>Possible causes</th>
<th>Checks and remedies</th>
</tr>
</thead>
</table>
| Fixture does not light up | • No mains supply  
• Dimmer fader set to 0  
• All color faders set to 0  
• Faulty LED  
• Faulty LED board | • 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 | • 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 |
| Fixture does not respond to DMX | • Wrong DMX addressing  
• Damaged DMX cables  
• Bouncing signals | • 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 cannot be resolved by the procedure given in the table.
INTRODUCTION

WHITE-PAR 12 is an LED PAR with 3-in-1 (Amber - Warm White - Cool White) LEDs that projects perfectly mixed and finely tunable white light.

FEATURES

- 12 x 6W 3-in-1 LEDs (Amber + Warm White + Cool White)
- Die-cast housing designed for efficient cooling and road-worthy durability
- High-frequency LED modulation for flicker-free video playback
- Four selectable dimming curves
- Gel frame and gel frame holder included
- Power In and Out connections for linking multiple units
- Built-in sound-active and auto (stand-alone) programs
- USB port for optional UFI wi-fi transceiver for wireless DMX control
- Infrared sensor for optional IR6 remote control

SPECIFICATIONS

Light Source: 12 x 6W Tri LED (Amber / Warm White / Cool White)
Output: 565 lux @ 5m
Beam Angle: 16°
Field Angle: 36°
Strobe: 0 - 30 Hz
Dimming: 0-100% dimming, 4 selectable dimming curves
PWM Frequency: 1200 Hz
Control modes: DMX, Auto, Sound-Active, Koala wireless DMX (with optional UFI transceiver), IR (with optional IR6 controller)
DMX Channels: 3 / 7
Menu: 4-digit LED display
Mains: 100 - 240 VAC, 50/60 Hz (auto-ranging)
Power: 60W
Power connections: IEC power In/Out
Power Linking: Up to 12 units @ 120V – Up to 23 units @ 230V
Data connections: 3-pin XLR In/Out for DMX
Housing: Die-cast Aluminium
Finish: Matte Black
IP rating: IP20
Cooling: Passive
Dimensions: 253 x 290 x 98 mm
Weight: 3.2 KG

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

WHITE-PAR 12 units can operate in Master/Slave mode wirelessly using the optional UFI wi-fi transceiver. The master UFI-enabled unit can be operated in stand-alone mode, 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 3-CH or 7-CH is displayed
Press ENTER
Set DMX address to 1
Set UFI to preferred receiving channel (1-16)
Attach UFI to the WHITE-PAR 12's USB port

MASTER UNIT:
Press MENU button until DMX mode is displayed that matches slave configuration
Press ENTER
Set DMX address to 1
Set to Auto or Sound-Active mode
Set UFI to chosen transmitting channel (1-16)
Attach UFI to the WHITE-PAR 12's USB port

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)
MASTER/SLAVE OPERATION (via DMX cable)

When multiple WHITE-PAR 12 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 (i.e., auto program or sound-active mode -- not DMX mode). The slave units should all be set to slave mode as described below.

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

Setup as below:

SLAVE UNITS:
- Press MENU button until 3-CH or 7-CH is displayed
- Press ENTER
- Set DMX address to 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 Sound-Active mode
- Link to slave units, beginning from the master DMX Out connector
INFRARED (IR6) REMOTE CONTROL OPERATION

The IR6 infrared controller enables remote control of the WHITE-PAR 12.

To pair the IR6 to the WHITE-PAR 12, 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

<table>
<thead>
<tr>
<th>Button</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>AUTO</td>
<td>Run auto programs</td>
</tr>
<tr>
<td>FADE</td>
<td>Fade auto programs</td>
</tr>
<tr>
<td>SPEED</td>
<td>Enable speed adjustment of auto programs</td>
</tr>
<tr>
<td>+ / -</td>
<td>Increase / decrease speed of auto programs</td>
</tr>
<tr>
<td>SOUND</td>
<td>Activate sound-active mode</td>
</tr>
<tr>
<td>SENSITIVITY</td>
<td>Enable sound sensitivity adjustment</td>
</tr>
<tr>
<td>+ / -</td>
<td>Increase / decrease sound sensitivity</td>
</tr>
<tr>
<td>MANUAL</td>
<td>Enable static color selection</td>
</tr>
<tr>
<td>0-9</td>
<td>Select static colors</td>
</tr>
<tr>
<td>A</td>
<td>Select amber</td>
</tr>
<tr>
<td>UV</td>
<td>Select cool white</td>
</tr>
<tr>
<td>W</td>
<td>Select warm white</td>
</tr>
<tr>
<td>+ / -</td>
<td>Increase / decrease output of each color</td>
</tr>
<tr>
<td>%</td>
<td>Enable adjustment of total light output level</td>
</tr>
<tr>
<td>+ / -</td>
<td>Increase / decrease total light output</td>
</tr>
<tr>
<td>STROBE</td>
<td>Enable adjustment of strobe rate</td>
</tr>
<tr>
<td>+ / -</td>
<td>Increase / decrease strobe rate</td>
</tr>
<tr>
<td>STROBE</td>
<td>Press again to turn off strobe</td>
</tr>
<tr>
<td>BLACKOUT</td>
<td>Turn off all light output</td>
</tr>
<tr>
<td>BLACKOUT</td>
<td>Press again to exit blackout mode</td>
</tr>
</tbody>
</table>

Note: If IR6 remote is not responding, press BLACKOUT to confirm that blackout mode was not mistakenly activated
### STAND-ALONE OPERATION

**PRESET COLOR MODE**
Press MENU button until C-- is displayed
Press ENTER
Press UP or DOWN to select C1 - C7
Press ENTER

**AUTO PROGRAM MODE**
Press MENU button until P-- is displayed
Press ENTER
Press UP or DOWN to select P1 - P4
Press ENTER

**SELECTING PROGRAM SPEED**
Press MENU button until S-- is displayed
Press ENTER
Press UP or DOWN to select speed
Press ENTER

**SOUND-ACTIVE MODE**
Press MENU button until Snd is displayed
Press ENTER
Press UP or DOWN to select Snd1 or Snd2
Press ENTER

**ADJUSTING SOUND SENSIVITY**
Press MENU button until Sens is displayed
Press ENTER
Press UP or DOWN to adjust mic sensitivity
Press ENTER

**COLOR MIXING MODE**
Press MENU button until U-- is displayed
Press ENTER to scroll to each color setting for amber, cool white, and warm white
Press UP or DOWN to adjust output (a---, c---, w---)

**SELECTING DIMMER CURVES**
Press MENU button until dIM is displayed
Press ENTER
Press UP or DOWN to select dimmer curve (OFF, dIM1, dIM2, dIM3)
Press ENTER

**ACTIVATING INFRARED REMOTE MODE**
Press MENU button until SEr is displayed
Press ENTER
Press UP or DOWN to select On or OFF
Press ENTER

### CONTROL MENU OVERVIEW

#### CONTROL PANEL

<table>
<thead>
<tr>
<th>BUTTON</th>
<th>FUNCTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Menu</td>
<td>Selects operating mode or exits submenus</td>
</tr>
<tr>
<td>Up</td>
<td>Scrolls up through option lists or selects higher value</td>
</tr>
<tr>
<td>Down</td>
<td>Scrolls down through option lists or selects lower value</td>
</tr>
<tr>
<td>Enter</td>
<td>Activates displayed menu option or selected value</td>
</tr>
</tbody>
</table>

#### FUNCTION MENU

<table>
<thead>
<tr>
<th>MODE</th>
<th>OPTIONS / VALUES</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>3-CH</td>
<td>d001–512</td>
<td>3-channel DMX mode</td>
</tr>
<tr>
<td>7-CH</td>
<td>d001–512</td>
<td>7-channel DMX mode</td>
</tr>
<tr>
<td>C--</td>
<td>C1–7</td>
<td>Static color selection</td>
</tr>
<tr>
<td>P-- (automatic)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>P1</td>
<td>Auto Program 1</td>
<td></td>
</tr>
<tr>
<td>P2</td>
<td>Auto Program 2</td>
<td></td>
</tr>
<tr>
<td>P3</td>
<td>Auto Program 3</td>
<td></td>
</tr>
<tr>
<td>P4</td>
<td>Auto Program 4</td>
<td></td>
</tr>
<tr>
<td>S--</td>
<td>S--1–100</td>
<td>Program speed for P1–P4</td>
</tr>
<tr>
<td>Snd (sound-active)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Snd1</td>
<td>Sound-active Program 1</td>
<td></td>
</tr>
<tr>
<td>Snd2</td>
<td>Sound-active Program 2</td>
<td></td>
</tr>
<tr>
<td>Sens</td>
<td>u--0–100</td>
<td>Sound sensitivity</td>
</tr>
<tr>
<td>U--</td>
<td></td>
<td>Custom static colors</td>
</tr>
<tr>
<td>dIM</td>
<td>OFF</td>
<td>Dimmer speed settings</td>
</tr>
<tr>
<td>SEr</td>
<td>On</td>
<td>Turns infrared on or off</td>
</tr>
<tr>
<td></td>
<td>OFF</td>
<td></td>
</tr>
</tbody>
</table>

ADDRESS THE PAGE NUMBER IN YOUR RESPONSE: 10
To enable wireless DMX operation via the optional UFI wi-fi transceiver:

1) Set the WHITE-PAR 12 starting DMX address
2) Set the UFI sending/receiving channel
3) Attach the UFI to the WHITE-PAR 12 USB port
4) Use Dipswitch 5 to select UFI send or receive mode.

### DMX Function Chart

<table>
<thead>
<tr>
<th>Channel</th>
<th>Function</th>
<th>Value</th>
<th>Percent/Setting</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Amber</td>
<td>000 - 255</td>
<td>0–100%</td>
</tr>
<tr>
<td>2</td>
<td>Cool White</td>
<td>000 - 255</td>
<td>0–100%</td>
</tr>
<tr>
<td>3</td>
<td>Warm White</td>
<td>000 - 255</td>
<td>0–100%</td>
</tr>
<tr>
<td>4</td>
<td>Strobe</td>
<td>000 - 015</td>
<td>No function</td>
</tr>
<tr>
<td></td>
<td></td>
<td>016 - 255</td>
<td>Strobe, slow to fast</td>
</tr>
<tr>
<td>4</td>
<td>Program Speed</td>
<td>000 - 255</td>
<td>Slow to fast speed</td>
</tr>
<tr>
<td></td>
<td></td>
<td>000 - 010</td>
<td>Sound sensitivity OFF</td>
</tr>
<tr>
<td></td>
<td></td>
<td>011 - 255</td>
<td>Low to high sensitivity</td>
</tr>
<tr>
<td>5</td>
<td>Programs</td>
<td>000 - 031</td>
<td>No function</td>
</tr>
<tr>
<td></td>
<td></td>
<td>032 - 063</td>
<td>Pulse effect 0–100%</td>
</tr>
<tr>
<td></td>
<td></td>
<td>064 - 095</td>
<td>Pulse effect 100%–0</td>
</tr>
<tr>
<td></td>
<td></td>
<td>096 - 127</td>
<td>Pulse effect 100%–0–100%</td>
</tr>
<tr>
<td></td>
<td></td>
<td>128 - 159</td>
<td>Auto fade transition</td>
</tr>
<tr>
<td></td>
<td></td>
<td>160 - 191</td>
<td>Auto snap transition (3 colors)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>192 - 223</td>
<td>Auto snap transition (7 colors)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>224 - 255</td>
<td>Sound active mode</td>
</tr>
<tr>
<td>6</td>
<td>Dimmer</td>
<td>000 - 255</td>
<td>0–100%</td>
</tr>
<tr>
<td>7</td>
<td>Dimmer Speed</td>
<td>000 - 051</td>
<td>Dimmer Speed set from display</td>
</tr>
<tr>
<td></td>
<td></td>
<td>052 - 101</td>
<td>Dimmer speed mode off</td>
</tr>
<tr>
<td></td>
<td></td>
<td>102 - 152</td>
<td>Dimmer speed mode 1 fast</td>
</tr>
<tr>
<td></td>
<td></td>
<td>153 - 203</td>
<td>Dimmer speed mode 2 medium</td>
</tr>
<tr>
<td></td>
<td></td>
<td>204 - 255</td>
<td>Dimmer speed mode 3 slow</td>
</tr>
</tbody>
</table>

### 3-Channel Mode

<table>
<thead>
<tr>
<th>Channel</th>
<th>Function</th>
<th>Value</th>
<th>Percent/Setting</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Amber</td>
<td>000 - 255</td>
<td>0–100%</td>
</tr>
<tr>
<td>2</td>
<td>Cool White</td>
<td>000 - 255</td>
<td>0–100%</td>
</tr>
<tr>
<td>3</td>
<td>Warm White</td>
<td>000 - 255</td>
<td>0–100%</td>
</tr>
</tbody>
</table>