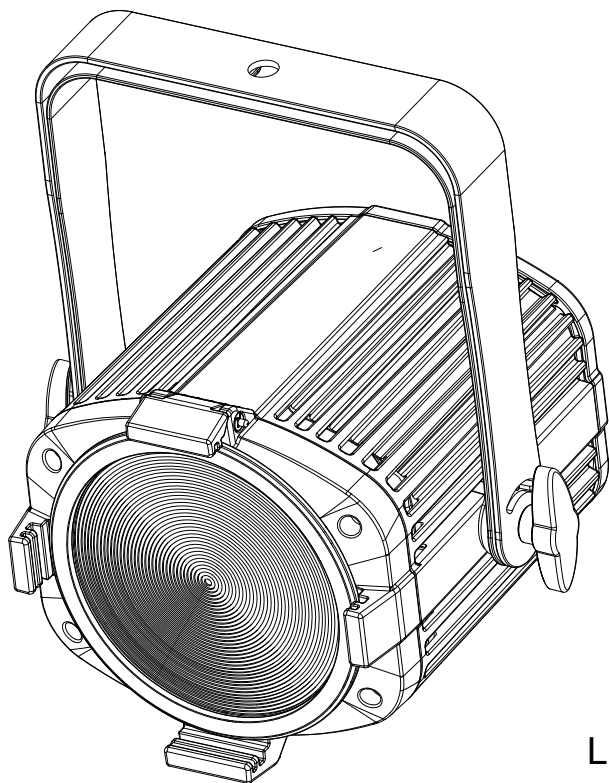


SHOWPRO

NITEC
powered by EK

photon multi_{RGB}

RGB LED Wash
with interchangeable
25- and 45-degree lenses



LEDNIT141

USER MANUAL

EN

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PACKING CONTENT

- PHOTON MULTI RGB
- 1 x 25° Fresnel lens
- 1 x 45° Fresnel lens
- Power cord
- User manual
- Warranty Card

 **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

PHOTON MULTI RGB is an RGB LED Wash with interchangeable 25- and 45-degree lenses

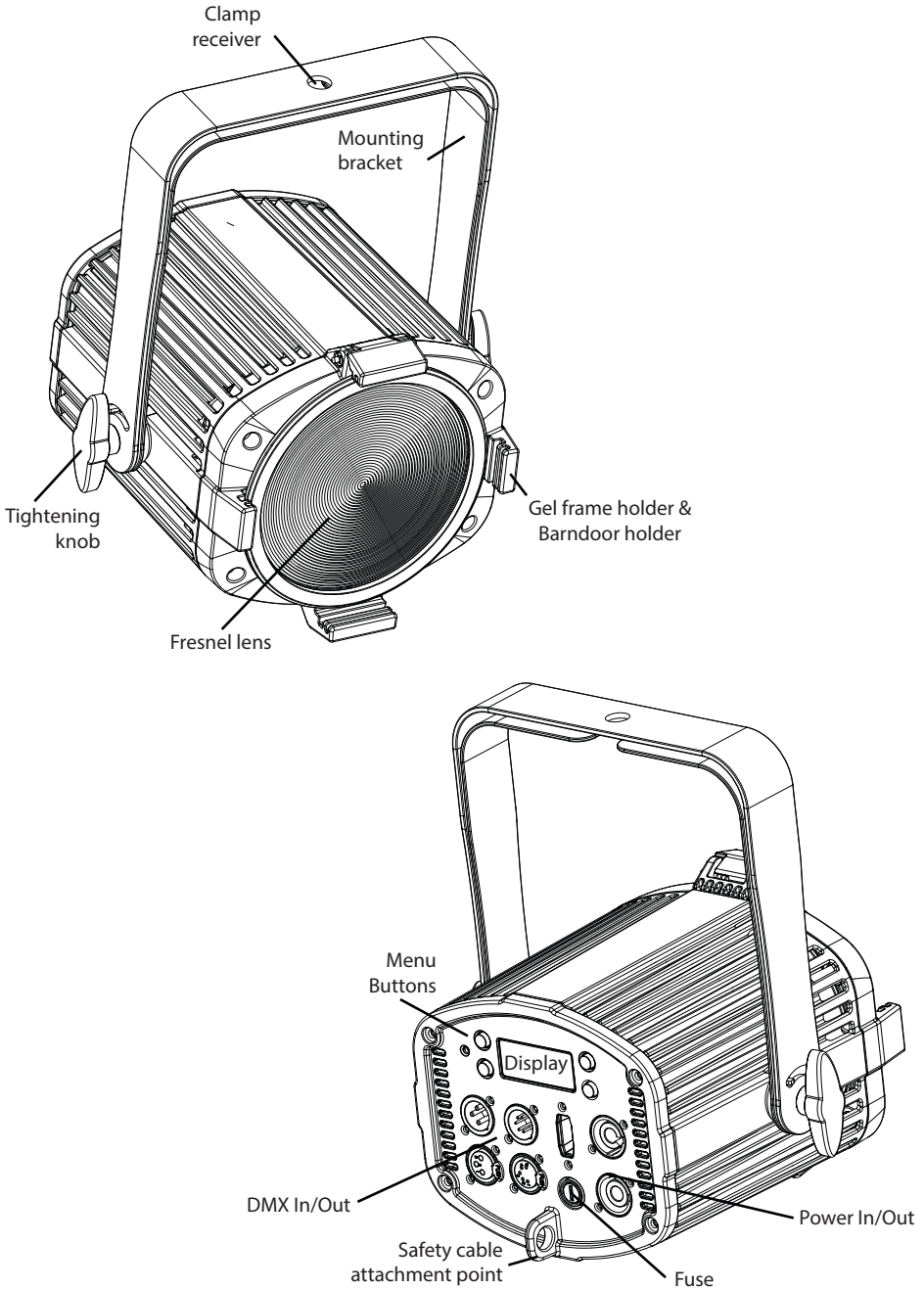
FEATURES

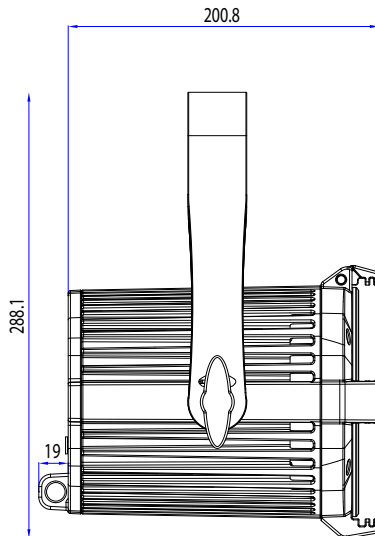
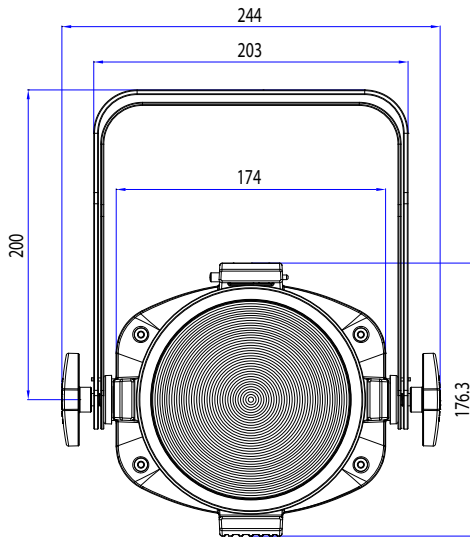
- RGB COB LED array allows for creating saturated pure color mixes
- Interchangeable magnetic lens attachment system for easy selection of 25° or 45° beam angles
- Rugged and lightweight die-cast housing
- Fanless design achieves silent operation
- High-frequency LED modulation for flicker-free video playback
- Built-in sound-active and auto (stand-alone) programs
- Four selectable dimming curves
- Manual dimming and color mixing via onboard menu
- Power In and Out connections for linking multiple units
- Gel frame holder and accessory slot for optional barn doors

SPECIFICATIONS

Light Source:	120W RGB COB LED array
Beam Angle:	35° (without lens), 25° or 45° (with included lenses)
Colors:	RGB
Strobe:	0 - 30 Hz
Dimming:	0-100% dimming, 4 selectable dimming curves
Control modes:	DMX, Manual, Auto, Sound-Active, Master/Slave
DMX Channels:	3 / 4 / 9
Menu:	4-digit LED display
Mains:	100 - 240 VAC, 50/60 Hz (auto-ranging)
Power:	108W
Power Linking:	Up to 9 units @ 120V ~ Up to 18 units @ 230V
Fuse:	T 2A, 250V
Power connections:	IEC power In/Out
Data connections:	3- and 5-pin XLR In/Out for DMX
Housing:	Die-cast Aluminium
Finish:	Matte Black
IP rating:	IP20
Cooling:	Passive
Dimensions:	201 x 244 x 288 mm
Weight:	3.5 KG

OVERVIEW



DIMENSIONS

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	
3-CH	d 1-512	3-channel DMX mode	
4-CH		4-channel DMX mode	
9-CH		9-channel DMX mode (Default)	
C-- (color temp presets)	C 1	Color preset 1	
	C 2	Color preset 2	
	C 3	Color preset 3	
	
	C 16	Color preset 16	
	C 17	Color preset 17	
P-- (auto program)	C 18	Color preset 18	
	P 1	Program 1 (Default)	
	P 2	Program 2	
	P 3	Program 3	
S-- (sound-active)	P 4	Program 4	
	S 1 -100	Speed for P1-P4 (Default = 100)	
Snd (sound-active)	Snd1	Sound-active mode select (Default = Snd1)	
	Snd2		
SenS	u 0-100	Sound sensitivity leve (Default = 80)	
U-- (manual color mixing)	red	d 0-255	Red output 0~100%
	green	d 0-255	Green output 0~100%
	blue	d 0-255	Blue output 0~100%
dIM	OFF	Dimmer curve select	Off
	dIM1	Dimmer curve select	Fast
	dIM2	Dimmer curve select	Medium
	dIM3	Dimmer curve select	Slow
teMP	--	Temperature display	

DMX FUNCTION CHART

3CH	Function	Value	Percent/Setting
1	Red	000-255	0~100%
2	Green	000-255	0~100%
3	Blue	000-255	0~100%

4CH	Function	Value	Percent/Setting
1	Dimmer	000-255	0~100%
2	Red	000-255	0~100%
3	Green	000-255	0~100%
4	Blue	000-255	0~100%

9CH	Function	Value	Percent/Setting
1	Dimmer	000-255	0~100%
2	Red	000-255	0~100%
3	Green	000-255	0~100%
4	Blue	000-255	0~100%
5	Color Macros	000-015	No Function
		016-255	Color Macros
6	Strobe	000-015	No Function
		016-255	Strobe slow to fast
7	Programs	000-031	No Function
		032-063	0%-100%
		064-095	100%-0%
		096-127	100% - 0% - 100%
		128-159	Colors Fade
		160-191	7 Colors snap
		192-223	18 Colors snap
		224-249	Sound 1
250-255	Sound 2		
8	Program Speed	000-255	Speed slow to fast
	Sound Sensitivity	000-010	Sound sensitivity OFF
		011-255	Adjust sound sensitivity
9	Dimmer Speed Mode	000-051	Use preset dimmer speed from display menu
		052-101	Dimmer speed mode OFF
		102-152	Dimmer speed mode1 (fast speed)
		153-203	Dimmer speed mode2 (medium speed)
		204-255	Dimmer speed mode3 (slow speed)

STAND-ALONE OPERATION

AUTO PROGRAM MODE

Press MENU button until **P--** is displayed

Press ENTER

Press UP or DOWN to select program (**P 1-4**)

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 COLOR MIXING

Press MENU button until **U--** is displayed

Press ENTER and **r, g, b** will be 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

COLOR TEMP PRESETS

Press MENU button until **C--** is displayed

Press ENTER

Press UP or DOWN to select preset (**C 1-18**)

Press ENTER

MASTER/SLAVE OPERATION (via DMX cable)

When multiple PHOTON MULTI RGB units are used together, Master/Slave mode enables the assignment of one master unit and multiple slave units.

The master unit should be operated in stand-alone mode.

The slave units should all be set to slave mode as below:

SLAVE UNITS:

Press MENU button until **3-CH**, **4-CH** or **9-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

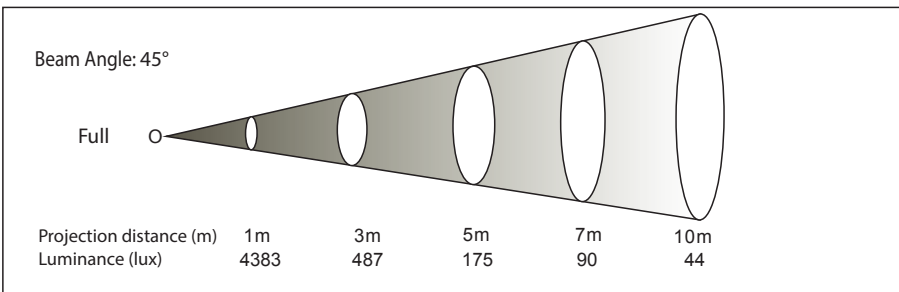
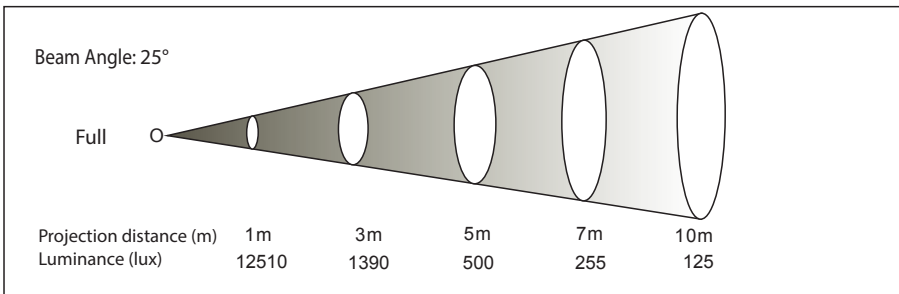
Note: Slave units should be configured and connected before linking to master unit

MASTER UNIT:

Set to a stand-alone mode (auto programs, sound-active or manual dimming setting)

Link to slave units, beginning from the master DMX Out connector

PHOTOMETRICS



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.

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