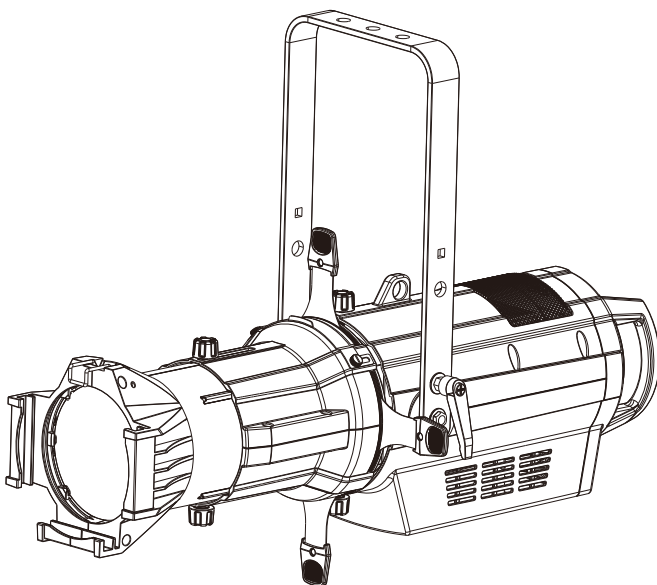


# SHOWPRO

## EK *eprofileFC*

LED PROFILE SPOT - FULL COLOUR

FIRMWARE VERSION 1.0



USER MANUAL




**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 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. 

### 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 other operation may lead to dangers like short circuit, burns, electric shock, etc.
- Before starting any maintenance work or cleaning the projector, cut off power from the main supply.
- Always additionally secure the projector 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 material 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.

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- Mounting bracket
  - Power cord
  - Warranty card
  - User manual

## INTRODUCTION

The EPROFILE FC is a full-color LED profile.

## FEATURES

- Crisp gobo image projection, even at close range
- Extremely flat field projection
- Incorporating the latest advances in LED color-mixing
- 250W RGBA+L (Lime) LED for enhanced color tuning
- Flawless dimming with consistent color temperature throughout the dimming curve
- Flicker-free output with selectable PWM frequencies for worry-free video
- Quiet operation suitable for studio use
- Power linking (PowerCon In/Out)
- Rugged die-cast body and low-maintenance design
- Master/Slave mode, Auto Shows,
- Virtual color wheel (color presets)
- Selectable color temperatures (2800K ~ 6500K) and adjustable white balance
- Manual color selection, mixing and control via onboard menu
- Selection of four dimming curves
- DMX control
- Available optics: 19° - 26° - 36° or 50° (not included)

## SPECIFICATIONS

Light Source:	250W COB RGBAL LED
Beam Angle:	19° / 26° / 36° / 50°
Output:	2154 / 1454 / 839 / 369 LUX @ 5 meters
Focus:	Manual
Strobe:	0-30 Hz
Dimming:	4 dimming curve modes
Control:	DMX
DMX Channels:	6 / 8 / 9 / 12 / 14
Built-in Programs:	Yes
Display:	OLED function menu with 4 touch buttons
Mains:	100V-240V, 50/60 Hz
Consumption:	233W
Power connections:	Neutrik PowerCon In/Out
Data connections:	5-pin XLR In/Out for DMX
Housing:	Diecast aluminium
Finish:	Matte black
IP rating:	IP20
Cooling:	Active (variable speed fan)
Operating temperature:	0°C to 40°C
Max. Housing:	60°C
Dimensions:	625 x 285 x 487 mm
Weight:	9.26 KG

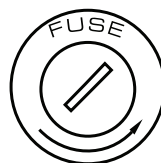
## MAINTENANCE

### 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

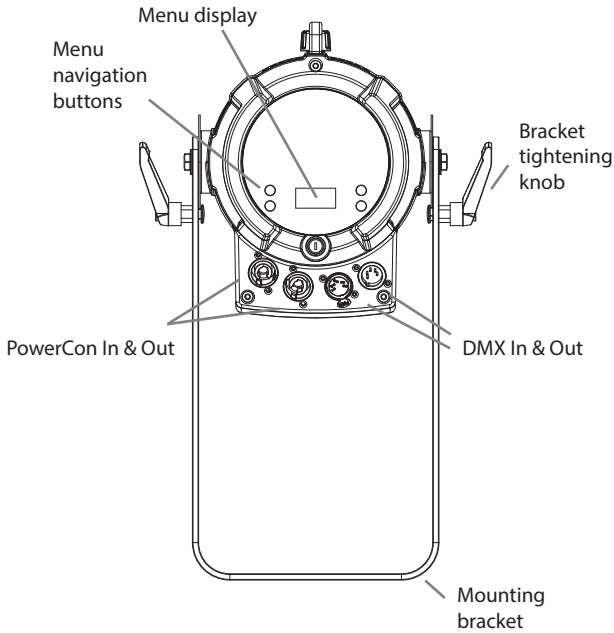
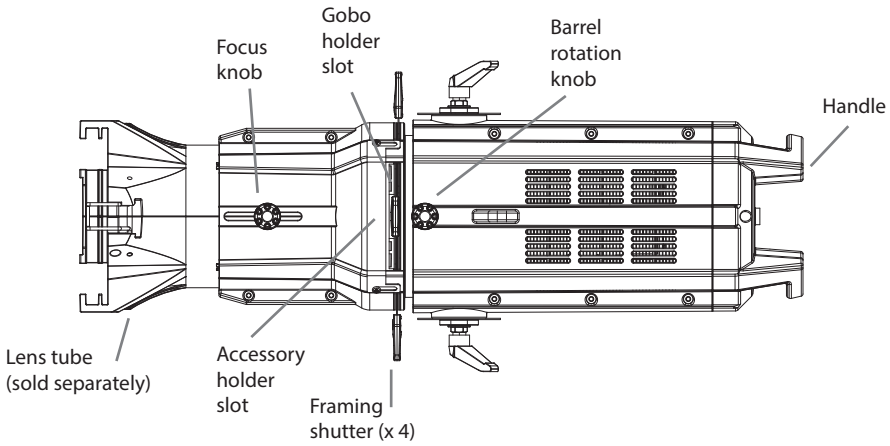
1. Disconnect this product from the power outlet.
2. Using a screwdriver, unscrew the fuse holder cap from the housing.
3. Remove the blown fuse and replace with a good fuse of the same type and rating (250V/T3.15A).
4. Screw the fuse holder cap back in place and reconnect power.



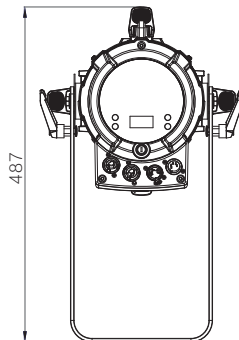
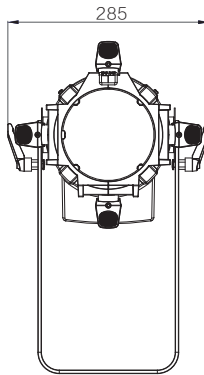
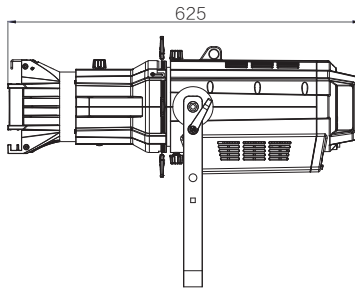
## TROUBLESHOOTING

Problems	Possible causes	Checks and remedies
Fixture does not light up	<ul style="list-style-type: none"> <li>• No mains supply</li> <li>• Dimmer fader set to 0</li> <li>• Faulty LED</li> <li>• Faulty LED board</li> </ul>	<ul style="list-style-type: none"> <li>• Check the power supply voltage</li> <li>• Increase the value of the dimmer channels</li> <li>• Replace the LED board</li> <li>• Replace the LED board</li> </ul>
General low light intensity	<ul style="list-style-type: none"> <li>• Dirty lens assembly</li> <li>• Misaligned lens assembly</li> </ul>	<ul style="list-style-type: none"> <li>• Clean the fixture regularly</li> <li>• Install lens assembly properly</li> </ul>
Fixture does not power up	<ul style="list-style-type: none"> <li>• No power</li> <li>• Loose or damaged power cord</li> <li>• Faulty internal power supply</li> </ul>	<ul style="list-style-type: none"> <li>• Check for power on power outlet</li> <li>• Check power cord</li> <li>• Replace internal power supply</li> </ul>

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.

**OVERVIEW**

## DIMENSIONS



## OPERATION

### DISPLAY MENU FUNCTIONS

- DMX Address: Assign DMX starting address to the EPROFILE FC
- DMX Mode: Select either 6-, 8- or 9-, 12-, or 14-channel mode
- Virtual Color Wheel: Select from 32 different preset colors
- Manual Color Mixer: Manually set RGBAL values to create custom colors
- Auto Show: Select one of five preprogrammed shows
- Master/Slave: Set the EPROFILE FC to function either as a master or slave when linking multiple units
- Dimmer Mode: Select the preferred dimming curve (1 = fast, 2 = medium, 3 = slow)
- White Balance: Adjust RGB values related to set white balance
- LED Frequency: Select the preferred frequency (for achieving flicker-free video playback)
- Fan Mode: Select either variable speed (Auto) or always on (High)
- Back Light: Set display to darken after 10, 20 or 30 seconds, or set to always on (On)
- Information: View operating hours, software version and device ID

### DMX FUNCTIONS

- 6-Channel Mode: Controls dimming of each channel (RGBAL) from 0 ~ 100%  
+ LED frequency select
- 8-Channel Mode: Adds master dimming and strobe functions
- 9-Channel Mode: Adds 16-bit (fine) master dimming control
- 12-Channel Mode: Adds auto programs  
+ Dimmer curve selection  
+ Color macros and presets
- 14-Channel Mode: 16-bit (fine) master and individual color dimming control

### DMX PIN DIAGRAM

**DMX - INPUT**  
XLR plug



Pin1 : GND - Shield  
Pin2 : - Negative  
Pin3 : + Positive  
Pin4 : N/C  
Pin5 : N/C

**DMX - OUTPUT**  
XLR socket



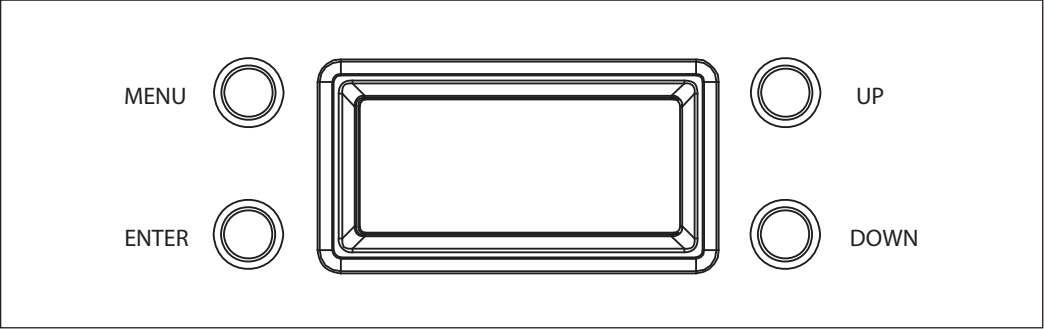


## MENU FUNCTIONS

Main Menu	Menu level 2	Menu level 3		Menu level 4		Defaults
Auto Show	Auto 1	<1-100>				Auto 5 Speed: 100
	Auto 2	<1-100>				
	Auto 3	<1-100>				
	Auto 4	<1-100>				
	Auto 5	<1-100>				
Static	Fixed Color	R	GA	RAL	RGBAL	RGBAL
		G	GL	GBA		
		B	BA	GBL		
		A	BL	BAL		
		L	AL	GAL		
		RG	RGB	RGBA		
		RB	RGA	RGBL		
		RA	RGL	RGAL		
		RL	RBA	RBAL		
		GB	RBL	GBAL		
	Manual Color Mixer	Red	<0-255>			RGL=255
		Green	<0-255>			
		Blue	<0-255>			
		Amber	<0-255>			
		Lime	<0-255>			
Dimmer Mode	Off					OFF
	Dimmer 1					
	Dimmer 2					
	Dimmer 3					
Back Light	On					ON
	10S					
	20S					
	30S					
Information	Fixture Hours	<9999H>				
	Version	<V1.0>				
	UID: ***					

**MENU FUNCTIONS (cont'd)**

Main Menu	Menu level 2	Menu level 3	Menu level 4	Defaults
DMX Address	<001>			001
DMX Channel	6Ch			12CH
	8Ch			
	9Ch			
	12Ch			
	14Ch			
Master/Slave	Master			Slave
	Slave			
White Balance	Manual	Red	<125-255>	RGB=255
		Green	<125-255>	
		Blue	<125-255>	
LED Frequency	600 Hz			1200Hz
	1200 Hz			
	2000 Hz			
	4000 Hz			
	25 KHz			
Fan Mode	Auto			Auto
	High			



## DMX CHARTS

6CH	Function	Value	Percent/Setting
1	Red	000-255	0~100%
2	Green	000-255	0~100%
3	Blue	000-255	0~100%
4	Amber	000-255	0~100%
5	Lime	000-255	0~100%
6	LED Frequency	000-010	Preset LED Frequency from display menu
		011-050	600Hz
		051-100	1200Hz
		101-150	2000Hz
		151-200	4000Hz
		201-255	25KHz

8CH	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	Amber	000-255	0~100%
6	Lime	000-255	0~100%
7	Strobe	000-010	NO Function
		011-255	Strobe Slow to Fast
8	LED Frequency	000-010	Preset LED Frequency from display menu
		011-050	600Hz
		051-100	1200Hz
		101-150	2000Hz
		151-200	4000Hz
		201-255	25KHz

**DMX CHARTS**

9CH	Function	Value	Percent/Setting
1	Dimmer	000-255	0~100%
2	Dimmer Fine	000-255	0~100%
3	Red	000-255	0~100%
4	Green	000-255	0~100%
5	Blue	000-255	0~100%
6	Amber	000-255	0~100%
7	Lime	000-255	0~100%
8	Strobe	000-010	No function
		011-255	Strobe slow to fast
9	LED Frequency	000-010	Preset LED Frequency from display menu
		011-050	600Hz
		051-100	1200Hz
		101-150	2000Hz
		151-200	4000Hz
		201-255	25KHz

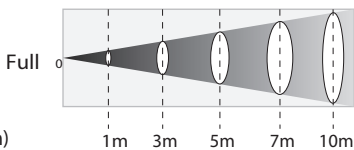
12CH	Function	Value	Percent/Setting
1	Dimmer	000-255	0~100%
2	Red	000-255	0~100%
3	Green	000-255	0~100%
4	Blue	000-255	0~100%
5	Amber	000-255	0~100%
6	Lime	000-255	0~100%
7	Strobe	000-010	No function
		011-255	Strobe slow to fast
8	Color Macros	000~010	No Function
		011~030	R 100%, G 0~100%, B 0%
		031~050	R 100%~0%, G 100%, B 0%
		051~070	R 0%, G 100%, B 0~100%
		071~090	R 0% G 100%~0% B 100%
		091~110	R 0%~100% G 0% B 100%
		111~130	R 100% G 0% B 100%~0%
		131~150	R 100% G 0%~100% B 0%~100%
		151~170	R 100%~0% G 100%~0% B 100%
		171~200	R 100% G 100% B 100%
		201~205	Color 1
		206~210	Color 2
		211-215	Color 3
		216-220	Color 4
		221-225	Color 5
		226-230	Color 6
		231-235	Color 7
		236-240	Color 8
		241-245	Color 9
		246-250	Color 10
		251-255	Color 11
9	Auto programs	000-010	No Function
		011-060	Auto Program 1
		061-110	Auto Program 2
		111-160	Auto Program 3
		161-210	Auto Program 4
		211-255	Auto Program 5 ( Auto Program1-4 )
10	Auto speed	000-255	Auto speed slow to fast
11	Dimmer Speed Mode	000-051	Preset dimmer speed from display menu
		052-101	Dimmer speed mode off
		102-152	Dimmer speed mode1 (fast speed)
		153-203	Dimmer speed mode2 (middle speed)
12	LED Frequency	204-255	Dimmer speed mode3 (slow speed)
		000-010	Preset LED Frequency from display menu
		011-050	600Hz
		051-100	1200Hz
		101-150	2000Hz
		151-200	4000Hz
		201-255	25KHz

**DMX CHARTS**

14CH	Function	Value	Percent/Setting
1	Dimmer	000-255	0~100%
2	Dimmer Fine	000-255	0~100%
3	Red	000-255	0~100%
4	Red Fine	000-255	0~100%
5	Green	000-255	0~100%
6	Green Fine	000-255	0~100%
7	Blue	000-255	0~100%
8	Blue Fine	000-255	0~100%
9	Amber	000-255	0~100%
10	Amber Fine	000-255	0~100%
11	Lime	000-255	0~100%
12	Lime Fine	000-255	0~100%
13	Strobe	000-010	No function
		011-255	Strobe slow to fast
14	LED Frequency	000-010	Preset LED Frequency from display menu
		011-050	600Hz
		051-100	1200Hz
		101-150	2000Hz
		151-200	4000Hz
		201-255	25KHz

## PHOTOMETRICS

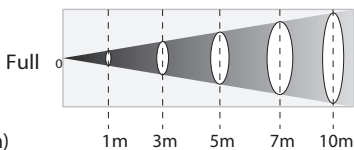
**Beam Angle: 19°**



Distance (m) 1m 3m 5m 7m 10m  
Luminance (lux) 53846 5983 2154 1099 538.5

meters colors	1	3	5	7	10
R	9699	1078	388	197.9	96.99
G	14607	1623	584.3	298.1	146.1
B	2462	273.6	98.49	50.25	24.62
A	10822	1202	432.9	220.9	108.2
L	20425	2269	817	416.8	204.3
RGBAL	53846	5983	2154	1099	538.5

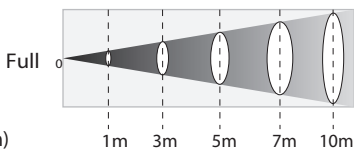
**Beam Angle: 26°**



Distance (m) 1m 3m 5m 7m 10m  
Luminance (lux) 36358 4040 1454 742 363

meters colors	1	3	5	7	10
R	5933	659.2	237.3	121.1	59.33
G	9506	1056	380.2	194	95.06
B	1677	186.4	67.09	34.23	16.77
A	7425	825	297	151.5	74.25
L	15453	1717	618.1	315.4	154.5
RGBAL	36358	4040	1454	742	363

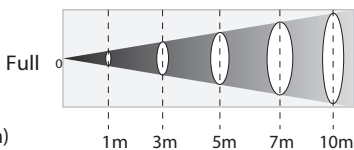
**Beam Angle: 36°**



Distance (m) 1m 3m 5m 7m 10m  
Luminance (lux) 20968 2330 838.7 427.9 209.7

meters colors	1	3	5	7	10
R	3486	387.3	139.4	71.14	34.86
G	5443	604.7	217.7	111.1	43
B	951.3	105.7	38.05	19.41	9.513
A	4320	480	172.8	88.16	43.2
L	8942	993.5	357.7	182.5	89.42
RGBAL	20968	2330	838.7	427.9	209.7

**Beam Angle: 50°**



Distance (m) 1m 3m 5m 7m 10m  
Luminance (lux) 9229 1025 369.1 188.3 92.29

meters colors	1	3	5	7	10
R	1580	175.6	63.22	32.25	15.8
G	2379	264.3	95.16	48.55	23.79
B	412.1	45.79	16.48	8.41	4.121
A	1910	212.3	76.4	38.99	19.1
L	3820	424.5	152.8	77.97	38.2
RGBAL	9229	1025	369.1	188.3	92.29

