EN

LED Profile 250 RGBAL

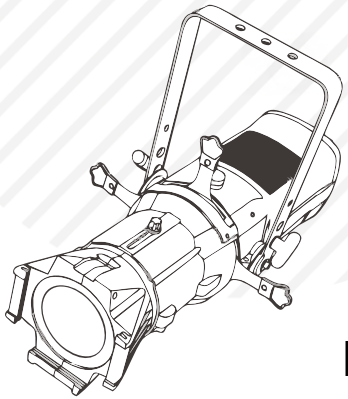
F2000900



User Manual

IP20

KEEP THIS USER MANUAL FOR FUTURE REFERENCE



series EVENT by FLASH

LED Profile 250 RGBAL

CONTENTS

INTRODUCTION 2
SAFETY INFORMATION 3
PACKAGE CONTENTS 4
INSTALLATION 5
CONNECTIONS 6
DMX CHART 8
MAINTENANCE 26
MENU STRUCTURE 27
TECHNICAL DRAWINGS 30
PHOTOMETRICS 31
SPECIFICATIONS 32

INTRODUCTION

We are pleased that you have chosen the **Flash EVENT LED Profile 250 RGBAL**, thereby expanding your professional lighting equipment.
We hope that the device will meet your expectations and inspire you to create new and creative lighting projects.

FOR SAFETY REASONS AND TO ENSURE TROUBLE-FREE OPERATION, PLEASE READ THIS USER MANUAL CAREFULLY.

SAFETY INFORMATION

After unpacking the device, carefully check it for any damage that may have occurred during transportation. If any damage is found, contact your dealer or the manufacturer immediately.



WARNING! Exercise particular caution when operating the device. Dangerous voltage is present inside the device – contact with internal components or wires may result in serious electric shock.

To ensure safe and proper operation, all safety instructions and warnings contained in this user manual must be strictly followed.

WARNING! Keep the device away from rain and moisture. Always disconnect the device from the power supply before opening the housing.



IMPORTANT! The manufacturer shall not be liable for any damage resulting from failure to follow the instructions contained in this user manual or from unauthorized modifications to the device. Damage caused by unauthorized or user-made modifications is not covered by the warranty.

IMPORTANT! The housing may become hot during operation. Before handling, maintaining or performing any other work on the device, allow it to cool down for approximately 20 minutes.

Before connecting the device, ensure that the supply voltage does not exceed the value specified on the rating label or rear panel of the device.



WARNING! The device is not equipped with an ON/OFF switch. To completely disconnect the device from the power supply, unplug the power cable. Always disconnect the device when it is not in use and before cleaning, maintenance or servicing.



Regularly inspect the power cable. Make sure that it is not crushed, excessively bent or damaged by sharp edges. Do not operate the device with a damaged power cable.

Always disconnect the device from the mains when it is not in use and before cleaning. Disconnect the power cable by holding the plug – never pull the plug from the socket by pulling the cable.

The device is designed according to Protection Class I. The yellow/green protective conductor must be properly connected to earth.



IMPORTANT! Electrical connections, repairs and servicing must only be carried out by qualified personnel. Do not connect the device to dimmers or voltage regulators.

Do not switch the device on and off at short intervals, as this may reduce the lifespan of the light source.

WARNING! Do not cover the device during operation or block any ventilation openings. Keep the device away from flammable materials and ensure sufficient space around it to allow unrestricted air circulation.

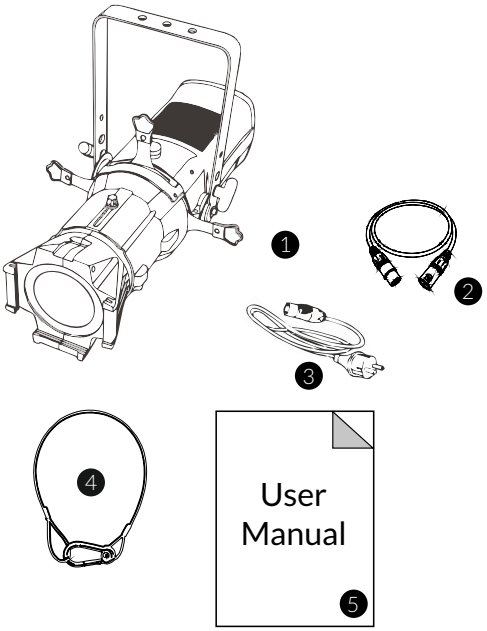
IMPORTANT! During initial operation, a small amount of smoke or a characteristic smell may occur. This may happen during first use and does not necessarily indicate a malfunction.

IMPORTANT! Do not touch the housing with bare hands during operation, as its surface may become very hot. When replacing fuses or other replaceable components, use only parts of the same type and rating.

CAUTION! RISK OF EYE DAMAGE!

Do not look directly into the light source while the device is operating. Intense light may cause eye damage. Particular caution should be exercised by persons sensitive to flashing or intense light.

PACKAGE CONTENTS



The package includes:

1. LED Profile 250 RGBAL (1 pc.)
2. DMX cable (1 pc.)
3. Power cable (1 pc.)
4. Safety cable (1 pc.)
5. User Manual (1 pc.)

INSTALLATION

To ensure an appropriate level of safety, the device must be installed outside walkways, audience areas, and locations accessible to unauthorized persons.

Before mounting the device, ensure that the mounting surface or supporting structure is capable of supporting a point load of at least 10 times the weight of the device.

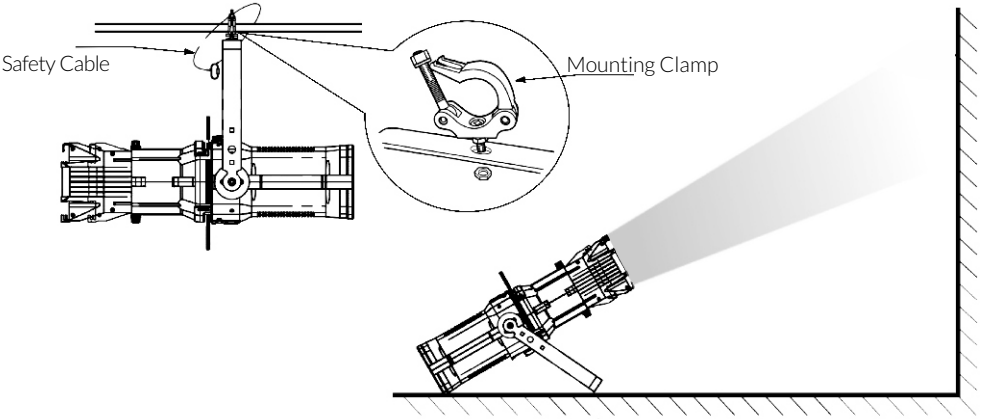
When installed overhead, the device must always be secured with an additional, independent safety attachment, such as an appropriately rated safety cable.

WARNING! Never stand directly below the device during installation, removal, or servicing.

The device may be suspended or placed on a flat, stable, and level surface. Maintain a minimum distance of 0.5 m from flammable materials, including decorative elements.

Always use an appropriately rated safety cable as a secondary safety attachment in case of failure of the primary mounting system.

Truss Mounting



OVERHEAD INSTALLATION

Overhead installation of the device requires appropriate qualifications and experience, including:

- determination of permissible working load limits,
- knowledge of the mounting hardware and systems being used,
- assessment of the supporting structure,
- proper selection of mounting hardware,
- periodic inspection of the device and the entire installation.

Persons without the appropriate qualifications should not attempt to install the device themselves.

WARNING! Improper installation may cause the device to fall, resulting in serious injury or property damage.

Before connecting the power cable, complete all installation procedures and ensure that the installation is correct and secure.

CLAMP MOUNTING

When mounting the device to a truss, attach an appropriately rated mounting clamp to the device bracket using an M10 screw inserted through the central mounting hole.

Only mounting hardware with an appropriate load capacity, suitable for the weight of the device and the type of supporting structure, may be used.

SAFETY CABLE

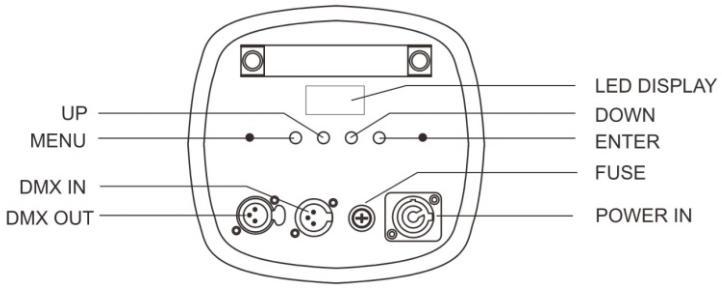
Regardless of the mounting method used, the device must always be secured with an additional safety cable of appropriate load capacity.

The safety cable must be attached exclusively to the dedicated safety attachment point provided by the manufacturer.

WARNING! Do not attach the safety cable to carrying handles or any other parts of the device that are not specifically designed for this purpose.

Before operating the device, ensure that all mounting hardware is properly installed and tightened and that the secondary safety attachment is correctly secured.

CONNECTIONS



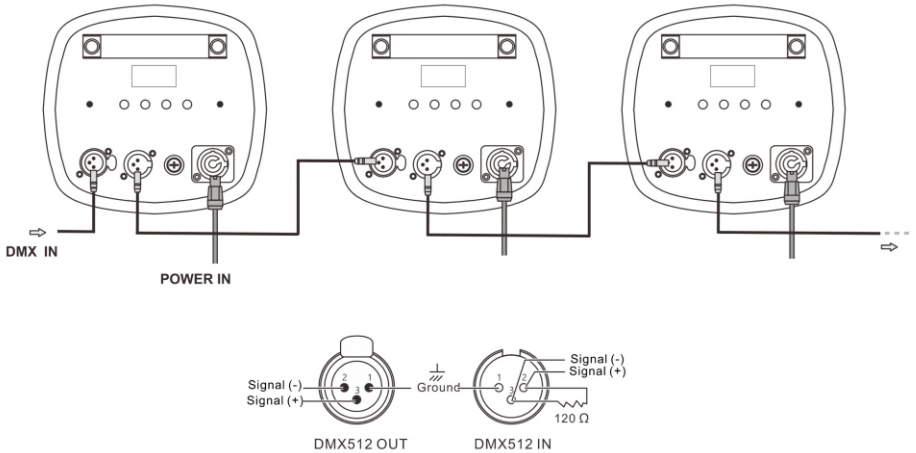
Rear Panel

The DMX512 signal cable used to connect the device to a lighting controller or to connect multiple devices in a DMX chain should have a conductor cross-section of at least 0.5 mm^2. A two-core shielded cable designed for DMX signal transmission must be used.

Connect the XLR cable to the 3-pin female XLR output of the DMX controller and connect the other end to the 3-pin male XLR input of the device.

Multiple devices can be connected in series to form a single DMX chain. Use a two-core shielded DMX cable equipped with the appropriate XLR IN/OUT connectors.

The connection method is shown in the diagram below.



For installations where the DMX cable runs over long distances or in environments with high levels of electromagnetic interference, the use of a DMX terminator is recommended. It helps reduce interference and digital control signal transmission errors.

A DMX terminator is an XLR plug fitted with a 120 Ω resistor connected between pins 2 and 3. The terminator should be connected to the DMX OUT socket of the last device in the DMX chain.

DMX CHARTS

Mode/Channel				Value	Function
CH 24	CH 18	CH 7	CH 4		
1	1	1	1		Dimmer
				0..255	Dimmer 0%...100%
2					Dimmer Fine
				0..255	Dimmer Fine 0%...100%
3	2	2	2		Shutter
				0..31	Shutter closed
				32..63	shutter open
				64..95	Strobe effect slow to fast
				96..127	shutter open
				128..143	Opening pulse in sequences slow to fast
				144..159	Closing pulse in sequences fast to slow

				160..191	shutter open
				192..223	Random strobe effect slow to fast
				224..255	shutter open
4	3	3			**Red**
				0..255	0-100% Red dimmer from dark to bright
5					**Red_Fine**
				0..255	0-100% Red Fine dimmer from da rk to bright
6	4	4			**Green**
				0..255	0-100% Green dimmer from dark to bright
7					**Green_Fine**
				0..255	0-100% Green Fine dimmer from dark to bright
8	5	5			**Blue**
				0..255	0-100% Blue dimmer from dark to

					bright
9					**Blue_Fine**
				0..255	0-100% Blue Fine dimmer from dark to bright
10	6	6			**Lemon**
				0..255	0-100% Lemon dimmer from dark to bright
11					**Lemon_Fine**
				0..255	0-100% Lemon Fine dimmer from dark to bright
12	7	7			**Amber**
				0..255	0-100% Amber dimmer from da rk to bright
13					**Amber_Fine**
				0..255	0-100% Amber Fine dimmer from dark to bright
14	8				**GEL LIBRARY 1**

				0..9	No Function
				10..11	No Function
				12..13	Lee 002 Rose Pink
				14..15	Lee 007 Pale Yellow
				16..17	Lee 015 Deep Stra w
				18..19	Lee 019 fire
				20..21	Lee 020 medium amber
				22..23	Lee 021 Gold Amber
				24..25	Lee 022 Dark Amber
				26..27	Lee 025 sunset red
				28..29	Lee 046 Dark Magenta
				30..31	Lee 049 Medium Purple
				32..33	Lee 058 Lavender
				34..35	Lee 068 Sky Blue
				36..37	Lee 079 Just Blue
				38..39	Lee 085 Deeper Blue
				40..41	Lee 088 Lime Green

				42..43	Lee 089 moss green
				44..45	Lee 100 Spring Yellow
				46..47	Lee 101 yellow
				48..49	Lee 102 light amber
				50..51	Lee 1 03 Straw
				52..53	Lee 104 DEEP AMBER
				54..55	Lee 105 Orange
				56..57	Lee 106 primary red
				58..59	Lee 108 English rose
				60..61	Lee 111 dark pink
				62..63	Lee 113 magenta
				64..65	Lee 115 peacock blue
				66..67	Lee 117 Steel Blue
				68..69	Lee 118 Light Blue
				70..71	Lee 119 dark blue
				72..73	Lee 121 lee green
				74..75	Lee 122 fern green

				76..77	Lee 124 dark green
				78..79	Lee 126 mauve
				80..81	Lee 132 Medium Blue
				82..83	Lee 136 Pale Lavender
				84..85	Lee 137 Special lavender
				86..87	Lee 138 Pale Green
				88..89	Lee 139 primary green
				90..91	Lee 142 Pale Violet
				92..93	Lee 147 apricot
				94..95	Lee 151 Gold Tint
				96..97	Lee 152 pale gold
				98..99	Lee 154 pale rose
				100..101	Lee 156 Chocolate
				102..103	Lee 164 flame red
				104..105	Lee 170 deep lavender
				106..107	Lee 174 dark steel blue
				108..109	Lee 176 loving amber

				110..111	Lee 179 chrome orange
				112..113	Lee 180 dark lavender
				114..115	Lee 181 congo blue
				116..117	Lee 182 Light Red
				118..119	Lee 194 Surprise Pink
				120..121	Lee 195 zenith blue
				122..123	Lee 200 Double C.T. Blue
				124..125	Lee 201 Full C.T. Blue
				126..127	Lee 202 Half C.T Blue
				128..129	Lee 203 Quarter C.T. Bl ue
				130..131	Lee 204 Full C.T. Orange
				132..133	Lee 205 Half C.T. Orange
				134..135	Lee 206 Quarter C.T. Orange
				136..137	Lee 242 Fluorescent 4300 Kevin
				138..139	Lee 249 1/4 minus green
				140..141	Lee 323 jade

				142..143	Lee 328 F ollies Pink
				144..145	Lee 343 special medium lavender
				146..147	Lee 345 fuchsia pink
				148..149	Lee 353 lighter blue
				150..151	Lee 506 Marlene
				152..153	Lee 601 Silver
				154..155	Lee 725 Old Steel Blue
				156..157	Lee 728 Steel Gree n
				158..159	Lee 731 Dirty Ice
				160..161	Lee 765 LEE Yellow
				162..163	Lee 777 rust
				164..165	Lee 795 Magical Magenta
				166..255	Lee 797 Deep Purple
15	9				GELS X-FADE
				000-255	Fade from gel 1 to gel 2 0 = 100% GEL LIBRARY 1, 0% GEL

					LIBRARY 2 128 = 50% GEL LIBRARY 1, 50% GEL LIBRARY 2 255 = 0% GEL LIBRARY 1, 100% GEL LIBRARY 2
16	10				**GEL LIBRARY 2**
				0..9	No Function
				10..11	Lee 002 R ose Pink
				12..13	Lee 007 Pale Yellow
				14..15	Lee 015 Deep Straw
				16..17	Lee 019 fire
				18..19	Lee 020 medium amber
				20..21	Lee 021 Gold Amber
				22..23	Lee 022 Dark Amber
				24..25	Lee 025 sunset red
				26..27	Lee 046 Dark Magenta
				28..29	Lee 049 Medium Purple

				30..31	Lee 058 Lavender
				32..33	Lee 068 Sky Blue
				34..35	Lee 079 Just Blue
				36..37	Lee 085 Deeper Blue
				38..39	Lee 088 Lime Green
				40..41	Lee 089 moss green
				42..43	Lee 100 Spring Yellow
				44..45	Lee 101 yellow
				46..47	Lee 102 light amber
				48..49	Lee 103 Straw
				50..51	Lee 104 DEEP AMBER
				52..53	Lee 105 Orange
				54..55	Lee 106 primary red
				56..57	Lee 108 English rose
				58..59	Lee 111 dark pink
				60..61	Lee 113 mage nta
				62..63	Lee 115 peacock blue

				64..65	Lee 117 Steel Blue
				66..67	Lee 118 Light Blue
				68..69	Lee 119 dark blue
				70..71	Lee 121 lee green
				72..73	Lee 122 fern green
				74..75	Lee 124 dark green
				76..77	Lee 126 mauve
				78..79	Lee 132 Medium Blue
				80..81	Lee 136 Pale Lavender
				82..83	Lee 137 Special lavender
				84..85	Lee 138 Pale Green
				86..87	Lee 139 primary green
				88..89	Lee 142 Pale Violet
				90..91	Lee 147 apricot
				92..93	Lee 151 Gold Tint
				94..95	Lee 152 pale gold
				96..97	Lee 154 pale rose

				98..99	Lee 156 Chocolate
				100..101	Lee 164 flame red
				102..103	Lee 170 deep lavender
				104..105	Lee 174 dark steel blue
				106..107	Lee 176 loving amber
				108..109	Lee 179 chrome ora nge
				110..111	Lee 180 dark lavender
				112..113	Lee 181 congo blue
				114..115	Lee 182 Light Red
				116..117	Lee 194 Surprise Pink
				118..119	Lee 195 zenith blue
				120..121	Lee 200 Double C.T. Blue
				122..123	Lee 201 Full C.T. Blue
				124..125	Lee 202 Half C.T Blue
				126..127	Lee 203 Quarter C.T. Blue
				128..129	Lee 204 Full C.T. Orange
				130..131	Lee 205 Half C.T. Orange

				132..133	Lee 206 Quarter C.T. Orange
				134..135	Lee 242 Fluorescent 4300 Kevin
				136..137	Lee 249 1/4 minus green
				138..139	Lee 323 jade
				140..141	Lee 328 Follies Pink
				142..143	Lee 343 special medium lavender
				144..145	Lee 345 fuchsia pink
				146..147	Lee 353 lighter blue
				148..149	Lee 506 Marlene
				150..151	Lee 601 Silver
				152..153	Lee 725 Old Steel Blue
				154..155	Lee 728 Steel Green
				156..157	Lee 731 Dirty Ice
				158..159	Lee 765 LEE Yellow
				160..161	Lee 777 rust

				162..163	Lee 795 Magical Magenta
				164..165	Lee 797 Deep Purple
				166..255	No Function
17	11				**GELS To Colors FADE**
				000-255	Fade from gel Mix to Colors Mix 0 = 100% GEL LIBRARY Mix, 0% Colors Mix 128 = 50% GEL LIBRARY Mix, 50% Colors Mix 255 = 0% GEL LIBRARY Mix, 100% Colors Mix
18	12		3		**Color Temp**
				0..17	No Function
				18..100	1800K-10000K (1Steps 100K)
				101..255	10000K
19	13		4		**Tint (Green Magenta Shift)**
				0	△uv 0 (no shift - on black body curve)

				1..127	Magenta To △uv 0
				128	△uv 0 (no shift - on black body curve)
				129..255	△uv 0 To Green
20	14				**Linear Crossfade from Color To CCT whites**
				0..255	Color To CCT whites 0 -100%
21	15				**Macro RUN**
				0..15	No function
				16..35	Macro Run 1
				36..55	Macro Run 2
				56..75	Macro Run 3
				76..95	Macro Run 4
				96..115	Macro Run 5
				116..135	Macro Run 6
				136..155	Macro Sound 1
				156..175	Macro Sound 2
				176..195	Macro Sound 3

				196..215	Macro Sound 4
				216..235	Macro Sound 5
				236..255	Macro Sound 6
22	16				**Macro Speed**
				0..255	Macro Speed from Slow To Fast
23	17				**Special function**
				0..19	No function
				20..24	FAN Auto Mode
				25..29	FAN High Speed
				30..34	FAN Mid Speed
				35..39	FAN Low Speed
				40..44	Linear Dimmer Curve
				45..49	S-Curve Dimmer Curve
				50..54	Square Dimmer Curve
				55..59	InvSquare Dimmer Curve
				60..255	No function
24	18				**Internal program Delay (Refresh Run**

					after Change Internal program)
				0..2	No Delay
				3..5	Delay of "Slave Delay Set"(From Display Panel)
				5..7	0.1s Delay
				8..15	0.2s Delay
				16..23	0.3s Delay
				24..31	0.4s Delay
				32..39	0.5s Delay
				40..47	0.6s Delay
				48..55	0.7s Delay
				56..63	0.8s Delay
				64..71	0.9s Delay
				72..79	1s Delay
				80..87	1.1s Delay
				88..95	1.2s Delay
				96..103	1.3s De lay

				104..111	1.4s Delay
				112..119	1.5s Delay
				120..127	1.6s Delay
				128..135	1.7s Delay
				136..143	1.8s Delay
				144..151	1.9s Delay
				152..159	2s Delay
				160..167	2.1s Delay
				168..175	2.2s Delay
				176..183	2.3s Delay
				184..191	2.4s Delay
				192..199	2.5s Delay
				200..207	2.6s Delay
				208..215	2.7s Delay
				216..220	2.8s Delay
				224..231	2.9s Delay
				232..239	3s Delay
				240..247	3.1s Delay
				248..255	3.2s Delay

MAINTENANCE

If the lens is cracked or damaged, it must be replaced immediately. Do not operate the device with a damaged lens.

It is essential to keep the device clean and prevent dust, dirt, and smoke-fluid residues from accumulating on or inside the device. Contamination may significantly reduce the light output and overall performance of the device.

Regular cleaning helps maintain maximum light output and ensures reliable operation throughout the service life of the device.

For cleaning, use a soft, lint-free cloth moistened with a suitable glass cleaning solution. Do not use alcohol or solvents.

DANGER! Disconnect the device from the power supply before carrying out any maintenance or cleaning work.

The front lens should be cleaned at least once a week, as smoke-fluid residues may quickly accumulate on its surface and reduce light output. The cooling fans should be cleaned once a month.

The interior of the device should be cleaned at least once a year using a vacuum cleaner or compressed air. Remove dust and dirt from the fans and ventilation openings using a soft brush and vacuum cleaner.

IMPORTANT! Check the air filters regularly and clean them before they become excessively dirty or clogged.

Clean all four air filters – two located in the device covers and two in the base. The filters can be cleaned using a vacuum cleaner or compressed air. They may also be washed; however, they must be completely dry before being reinstalled.

After cleaning or replacing the air filters, reset their operating time counter in the menu:

Information -> Air Filters -> Elapsed Time

FUSE REPLACEMENT

Before replacing the fuse, always disconnect the device from the power supply.

a) Using a suitable screwdriver, unscrew the fuse holder located on the rear panel of the base by turning it counterclockwise.
b) Remove the used fuse from the fuse holder.
c) Install a new fuse of the same type and identical rating.
d) Reinstall the fuse holder in the housing and secure it properly.

MENU STRUCTURE

MENU			Description
Function Mode	DMX Address	A001~AXXX	DMX address setting
	Channel Mode	CH24	Channel Mode
		CH18	Channel Mode
		CH07	Channel Mode
		CH04	Channel Mode
	Auto Run	Run(ON/OFF)	Auto Run Setting
		Program1...Program6	
		Speed1...Speed5	
		Delay(OFF -3.2s)	
	Music Run	Run(ON/OFF)	Sound Control Setting
		Program1...Program6	
		Mic-XX	

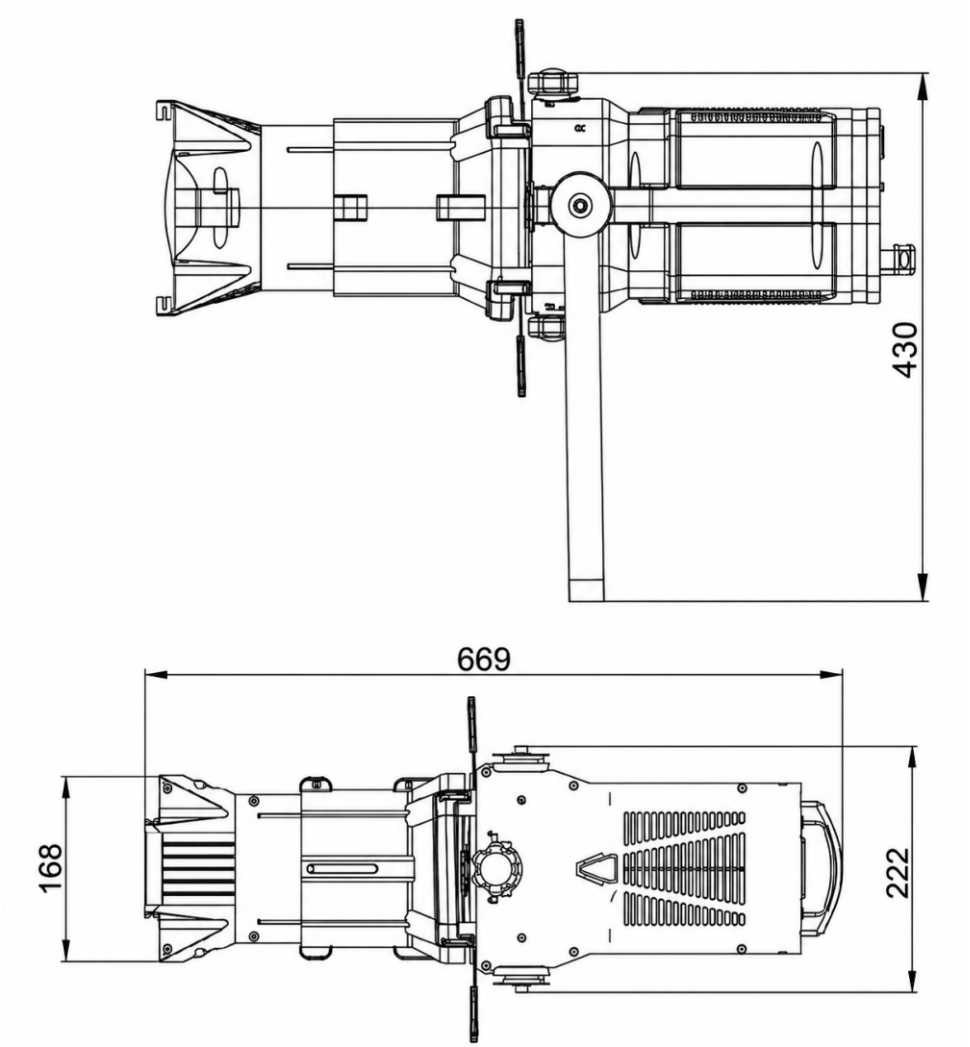
	Master	Master/Alone	Master/Alone Seletion
Set	Reset Default	Yes/No	Reset Default
	Advanced	Code: 88	Enter Password 88 for advanced setting
		Calibration	Calibration
		UID set	UID set
		Cal CTO	Calibration CTO
	Signal Set	XLR DMX	Wired XRLDMX input
		Wireless	Wireless DXM input
		WDMX To XLR	Wireless change to Wired D MX output
	No Sign al	Hold / Black Out	Hold for original status / LED black out
	Dimmer Curve	Linear / S -Curve / Square / InvSquare	Dimmer Curve Selection
	Fan Mode	Auto/Middle/Low/Silent	Fan Mode Setting,

			default Auto
Manual Control	Strobe	0-255	Strobe channle
	Dimmer	0-255	Master dimmer 0 -100%
	Red	0-255	Red dimmer 0 -100%
	Green	0-255	Green dimmer 0 -100%
	Blue	0-255	Blue dimmer 0 -100%
	Lemon	0-255	Lemon dimmer 0 -100%
	Amber	0-255	Amber dimmer 0 -100%
	Marco	0-255	Marco selection
	MRot	0-255	Marco Speed
	CCT	0-255	CCT channel
	Tint	0-255	CCT DUV channel
Information	Version	V_10~V_99	Software version
	Temperature	XXX℃/℉	Current Temperature

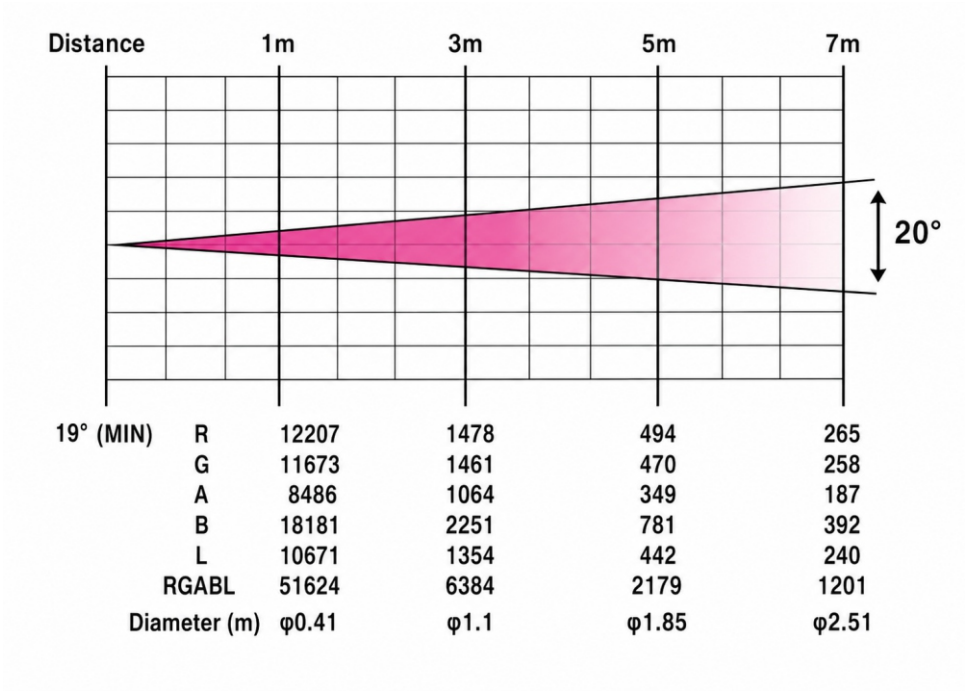
TIP: Press and hold the UP and DOWN buttons simultaneously for 3 seconds to reverse the orientation of the LCD display.

TECHNICAL DRAWINGS

Dimensions (mm)

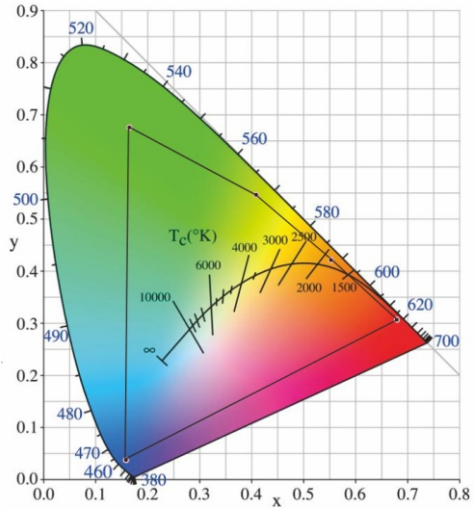


PHOTOMETRICS



19° (MIN)	R	12207	1478	494	265
	G	11673	1461	470	258
	A	8486	1064	349	187
	B	18181	2251	781	392
	L	10671	1354	442	240
	RGABL	51624	6384	2179	1201
	Diameter (m)	φ0.41	φ1.1	φ1.85	φ2.51

CIE 1930:



SPECIFICATIONS

- Light Source: 1 × 250 W RGBAL LED
- CRI: 95.3
- Power Consumption: 300 W
- Power Supply: AC 90–260 V, 50/60 Hz
- Color Mixing: RGBAL, 8/16-bit
- CCT: 8/16-bit
- Tint / DUV: 8/16-bit
- LEE Filter Libraries: 2 × 78 filters, Crossfade function
- Dimmer: 8/16-bit
- Beam Angle: 20°
- Framing Shutters: 4 metal framing blades
- Focus: Manual
- Strobe: 1–25 Hz
- Control: DMX512, Auto, Sound, Master-Slave
- DMX Modes: 4
- DMX Channels: 4–24 CH
- User Interface: Physical buttons, LCD display
- Silent Mode: <38 dBA
- IP Rating: IP20
- Housing: ABS / aluminium
- Cooling: Active
- Mounting: Integrated bracket, mounting hole
- AC IN: PowerCON
- DMX IN/OUT: 3-pin XLR
- Housing Color: Black
- Net Weight: 7.2 kg
- Dimensions: 67 × 28 × 30 cm

USER NOTES



FLASH

FLASH-BUTRYM SP.J.
SKARBIMIERZYCE 18
72-002 DOŁUJE
POLAND

WWW.FLASH-BUTRYM.PL