

USER MANUAL

Expolite FresnelLED 150 FC

led27150FC



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Every fixture is fully tested and properly packed by the manufacturer. Before installation and use, make sure that the packaging and the fixture are in perfect condition. In case of transport damage, contact your dealer and do not operate the fixture.

As part of continuous product development, technical specifications are subject to change without notice.

1.1 Unpacking and transport inspection

WARNING

Read this manual carefully before installation, operation and maintenance. It contains important information on the safe handling of the fixture.

Carefully remove the fixture from the carton and check that all accessories are complete and undamaged. If parts are missing, damaged or the fixture does not operate, do not use it, inform your dealer and keep the carton and shipping documents complete.

1.2 AC power

Confirm the correct mains voltage before operation. The rated current listed is the average current consumption under normal operating conditions. The fixture must be operated on a directly switched circuit. Operation on a dimmer circuit is not permitted; brightness is controlled exclusively via the fixture's internal dimmer channels (0–100 %).

1.3 Safety instructions

- Make sure the mains voltage matches the voltage stated on the fixture.
- Make sure there is no flammable material near the fixture. Keep a minimum distance of 51 cm to adjacent materials.
- Operate the fixture in a well-ventilated place only and keep the air passages clear at all times.
- The maximum ambient temperature is 40 °C (104 °F).
- In case of malfunction, stop using the fixture and contact your dealer. Do not attempt repairs yourself.
- Do not connect the fixture to a dimmer.
- Make sure the power cable is undamaged. Do not pull on the cable.
- Do not look directly into the light source during operation.

1.4 Installation

Bolt the fixture firmly to a suitable quick-lock hook to prevent vibration and slipping during operation. The supporting structure must be able to carry 10 times the weight of the fixture; additionally secure the fixture with a safety cable rated for 12 times its weight. Installation must be carried out by qualified professionals only. Install the fixture in places that are not accessible to people and where no one will pass underneath.

02 SPECIFICATIONS

2.1 Technical data

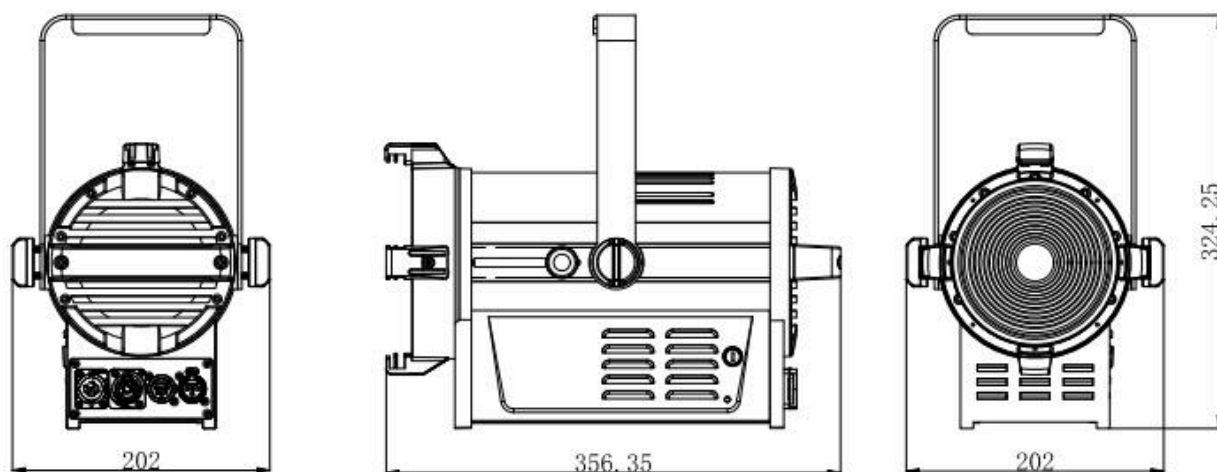
Optics	
Light source	200 W RGBLAC LED, approx. 50,000 h life expectancy
Colour temperature	2000 K – 10,000 K
CRI (average)	≥ 90
Beam angle	15° – 55°
Lens diameter	135 mm
PWM frequency	2 – 25 kHz, selectable
Effects	
Shutter/strobe	electronic
Zoom	manual
Dimming	0 – 100 %, 4 dimming curves
Control	
Protocol	DMX, RDM
DMX channels	6 / 9 / 10
Power	
Input voltage	100 – 240 V AC, 50/60 Hz
Power consumption	150 W
Housing	
Dimensions (L × W × H)	356 × 202 × 324 mm
Weight	6.8 kg (without barndoor)
Colour	black/grey
Material	aluminium alloy, die-cast aluminium
IP rating	IP20
Cooling	PWM-controlled silent fan
Connections	
Power connectors	powerCON TRUE1 in/out
DMX connectors	5-pin XLR in/out
Power cable	1.5 m
Included	barndoor

02 SPECIFICATIONS

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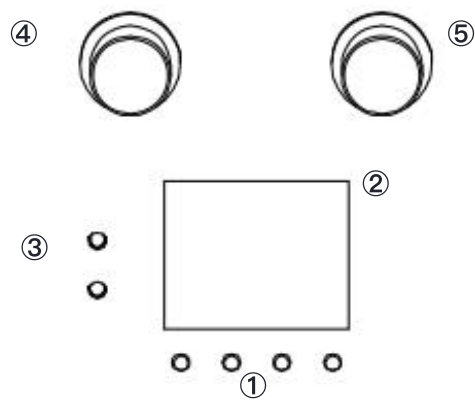
2.2 Dimensions

All dimensions in mm.



03 CONTROL PANEL

3.1 Controls



No.	Element	Function
①	MENU button	Go to menu selection
	DOWN button	Go to the next option
	UP button	Go back to the previous option
	ENTER button	Confirm the selected function
②	Display	1.77" LCD TFT display
③	POWER LED	Lit when mains power is present
	DMX LED	Lit when a DMX signal is present
④	MENU knob	Menu selection, dimming function
⑤	CANCEL knob	Press to return to the main menu

Note: Menu items and DMX function names are given in this manual exactly as they appear on the fixture's display.

04 OPERATION

4.1 Menu structure

Switch on the fixture and press the MENU button to enter menu mode. Use the knob to select the desired menu item and confirm with the MENU button. Then use the knob to select the submenu. Press the knob to save the settings; the fixture automatically returns to the upper menu level.

Menu	Submenu	Range	Default
DMX Address	DMX Address	1–512	1
DMX Mode	6CH / 9CH / 10CH	–	10CH
Manual Mode	Dimmer	0–255	255
	Strobe	0–255	0
	Red	0–255	0
	Green	0–255	0
	Blue	0–255	0
	Lemon	0–255	0
	Amber	0–255	0
	Cyan	0–255	0
	CCT	2000–10000K	–
	ColorMacro	Color1–Color42	–
Setting	Signal	Clear / Keep	Clear
	Backlite	On / Off	On
	Display Lock	On / Off	Off
	Dimming Curve	Linear / Square / Log / S-Line	Linear
	Dimming Hz	2–25K	14K
	Dimming Bit	8Bit / 16Bit	16Bit
	Dimming Speed	0–255	0
	Fan Mode	Smart / Max	Smart
	Reset	Yes / No	No
	Display Flip	Yes / No	No

4.2 DMX settings

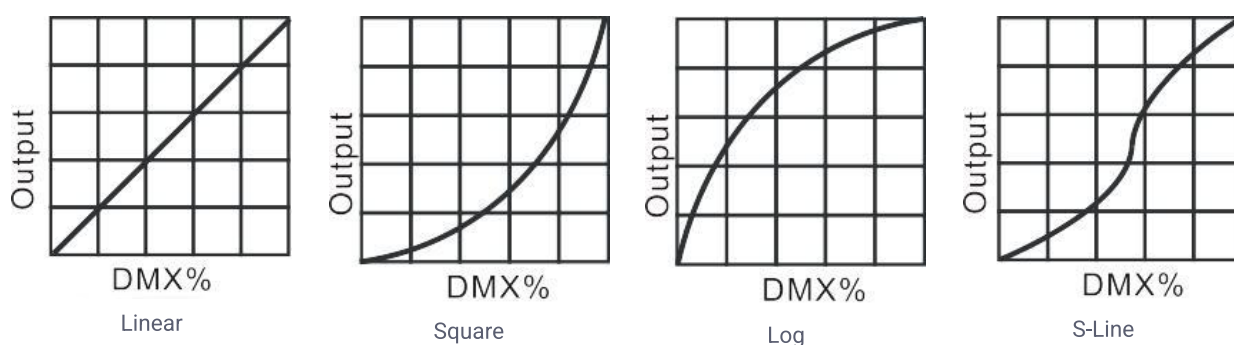
DMX address: Select "DMX Address" and confirm with the MENU button. Use the knob to set the desired DMX address (1–512) and press the MENU knob to save. The start address must be set on the fixture so that it can receive the DMX signal.

Channel mode: Select "DMX Mode" and confirm with the MENU button. Use the knob to select the channel mode: 6CH, 9CH or 10CH.

4.3 Dimming curves

Select "Dimming Curve" and confirm with the MENU knob. Use the knob to select one of the four curves:

1. **Linear:** Light intensity increases proportionally to the DMX value.
2. **Square:** Fine resolution at low intensity values, coarser resolution at high values.
3. **Log:** Coarser resolution at low intensity values, fine resolution at high values.
4. **S-Line:** Fine resolution at low and high intensity values, coarser resolution in the middle range.



4.4 DMX addressing of multiple fixtures

The following table shows the start addresses of the first four fixtures per channel mode:

Channel mode	Fixture 1	Fixture 2	Fixture 3	Fixture 4
6CH	1	7	13	19
9CH	1	10	19	28
10CH	1	11	21	31

4.5 DMX channel assignment — 6CH and 9CH

6CH mode

Channel	Function	Description
1	Red	Red intensity, from dark 000 to bright 255
2	Green	Green intensity, from dark 000 to bright 255
3	Blue	Blue intensity, from dark 000 to bright 255
4	Lemon	Lemon intensity, from dark 000 to bright 255
5	Amber	Amber intensity, from dark 000 to bright 255
6	Cyan	Cyan intensity, from dark 000 to bright 255

9CH mode

Channel	Function	Description
1	Dimmer	Master intensity, from dark 000 to bright 255
2	Strobe	Strobe, from slow to fast
3	Red	Red intensity, from dark 000 to bright 255
4	Green	Green intensity, from dark 000 to bright 255
5	Blue	Blue intensity, from dark 000 to bright 255
6	Lemon	Lemon intensity, from dark 000 to bright 255
7	Amber	Amber intensity, from dark 000 to bright 255
8	Cyan	Cyan intensity, from dark 000 to bright 255
9	CCT	000–010: no function 011–255: 2000 K – 10,000 K

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4.6 DMX channel assignment – 10CH

10CH mode

Channel	Function	Description
1	Dimmer	Master intensity, from dark 000 to bright 255
2	Strobe	Strobe, from slow to fast
3	Red	Red intensity, from dark 000 to bright 255
4	Green	Green intensity, from dark 000 to bright 255
5	Blue	Blue intensity, from dark 000 to bright 255
6	Lemon	Lemon intensity, from dark 000 to bright 255
7	Amber	Amber intensity, from dark 000 to bright 255
8	Cyan	Cyan intensity, from dark 000 to bright 255
9	CCT	000–010: no function 011–255: 2000 K – 10,000 K
10	ColorMacro	000–010: no function 011–255: ColorMacro 1–42

Note: The zoom (15° – 55°) is adjusted manually on the fixture only and cannot be controlled via DMX.

5.1 Common problems

The following are a few common problems that may occur during operation, with suggestions for easy troubleshooting:

The fixture does not work, no light

1. Check the power connection and the main fuse.
2. Measure the mains voltage on the main connector.

The fixture does not respond to the DMX controller

1. The DMX LED should be lit. If not, check the DMX connectors and cables for proper connection.
2. If the DMX LED is lit but the fixture does not respond to the channels, check the address setting and the DMX polarity.
3. If you have intermittent DMX signal problems, check the pins of the connectors on the fixture and on the previous fixture in the chain.
4. Try using another DMX controller.
5. Check whether DMX cables run near or alongside high-voltage cables; this may cause damage or interference to the DMX interface circuit.

6.1 Fixture cleaning

Clean the optics periodically to optimise light output. Cleaning frequency depends on the environment in which the fixture operates: damp, smoky or particularly dirty surroundings can cause greater accumulation of dirt on the fixture's optics.

- Clean with a soft cloth using normal glass cleaning fluid.
- Always dry the parts carefully.
- Clean the external optics at least every 20 days. Clean the internal optics at least every 20 days.



QUESTIONS OR FEEDBACK?

Scan the QR code to get in touch – we're happy to help!