USER MANUAL

ILI LED Fresnel

100W Full-Color LED Fresnel



Read this manual before installation or operation. Keep it with the fixture for future reference.

Compiled from the supplied ILI product specification and same-series operating guidance.

1. Introduction

This professional LED fixture is designed for stage, studio, theatre, television and event applications. Installation, operation and servicing must be performed by qualified personnel in accordance with local regulations.

2. Safety instructions

WARNING - Risk of electric shock, fire and injury. Disconnect power before installation or service.

Do not open the housing. There are no user-serviceable parts inside.

Keep the fixture dry and provide adequate ventilation. Do not cover air inlets or outlets.

Verify the supply voltage and protective earth before connecting power.

Use a safety cable for overhead installation and keep combustible materials away from the fixture.

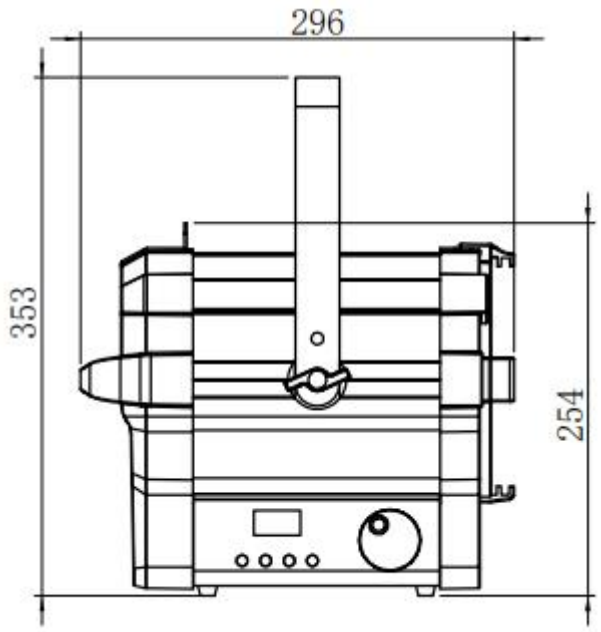
Do not operate the fixture if the housing, lens, cable or connector is damaged.

Allow the fixture to cool before handling, cleaning or service.

3. Product description

Specification	Value
Product model	ILI-FS05-FC
Power voltage	100 - 240V AC, 50/60Hz
Rated power	100W
LED light source	LED module RGBACL
LED lifespan	50000 Hours
Color temperature	2700K-10000K adjustable
CRI	Up to 97
Optical system	Glass lens set+ 120 mm Fresnel lens
Dimming	16 bits 0-100%, 3 dimmer curves optional, dimmer speed optional
Frequency	PWM dimming frequency 1K- 16k Hz optional
Beam angle	14°~55°
Zoom	Motor
Control system	DMX512, RDM, Manual
Signal input&output	XLR5 or XLR3
Channels	8-CH/10-CH/11H-CH/18-CH optional
Display Screen	4-Button display
Cooling system	Silent fan, intelligent automatic temperature regulation system, 3 fan modes optional
Tilt angle	±90°
Ambient environment	-10°C-40°C
Protection class	IP20
Accessories	8-leaf barndoor
Body material	Fire prevention plastic+aluminum housing
Body color	Black
Fixture weight	4.5kg
Fixture Size	313×235×232MM

Fixture dimensions



Dimensions follow the supplied product drawing; verify clearances before installation.

4. Installation

Mount the fixture on a structure capable of supporting at least ten times the fixture weight. Tighten the mounting hardware, attach an independent safety cable and maintain free airflow around the housing.

Aim the fixture only after all fasteners are secure. Inspect the bracket, clamp and safety cable before every use.

5. Power and DMX512 connection

Connect power only after installation is complete. Use approved power and signal cables. For DMX operation, connect the controller output to DMX IN and link DMX OUT to the next fixture. Terminate the final fixture when required by the installation.

Set a unique DMX start address for each independently controlled fixture. Keep signal cable separate from mains cable where practical.

6. Operation

After power-up, use the display and navigation keys to select the DMX address, channel mode and standalone settings available on the fixture. Confirm the selected channel mode matches the controller profile before operation.

DMX modes and channel functions

Use the channel modes stated in the technical specification. Confirm the active mode on the fixture display before patching the controller.

7. Cleaning and maintenance

Disconnect power and allow the fixture to cool. Clean the lens with a soft lint-free cloth and keep ventilation openings free of dust. Do not use solvents or spray liquid into the housing.

Inspect cables, connectors, mounting hardware and the safety attachment regularly. Internal service must be performed by qualified personnel using parts of the same type and rating.

8. Troubleshooting

Problem	Check
No power	Supply, protective earth, power cable, connector and fuse.
No DMX response	Start address, channel mode, cable polarity, termination and controller output.
Intermittent output	Ventilation, ambient temperature, loose connections and thermal protection.
Reduced light output	Lens cleanliness, dimmer setting and temperature status.