



PROFESSIONAL STAGE LIGHTING

Profile LED 300 WW

300W LED Framing Profile Spotlight



USER MANUAL

Caution!



CAUTION: Make sure fixture is properly plugged in and grounded to avoid electrical shock.



Avoid looking directly into the light source from close distances!

Wear protective glasses and other PPE (personal protective equipment) when working on or near the fixture.

Always make sure you are connecting this product to the proper voltage in accordance with the specifications in this manual or on the product's specification label.



DO NOT open housing while fixture is powered on, even if the light source is off. Unplug power cable before opening the housing! Make sure that the power cord is never crimped or damaged by sharp edges. Check the fixture and the power cord from time to time do avoid electrical shock to user or damage to fixture. Make sure to replace the fuse with another of the same type and rating.



For your own safety, please read this user manual carefully before your initial start-up.

Follow operating safety precautions and pay attention to warning sign methods and equipment in this user manual.



Warning! This symbol indicates a hot surface. Certain parts of the housing can become hot during operation. After use, wait for a cool-down period of at least 10 minutes before handling or transporting the device.



T =45°C

Indoor use only! To prevent risk of fire or shock, do not expose this product to rain or moisture. IP 20 rating.

The ambient temperature must always be between -5° C and +45° C.

All persons involved with the installation, operation, and maintenance of this device have to

- Be qualified
- Follow the instructions of this manual
- Consider this manual to be part of the total product
- Keep this manual for the entire service life of the product
- Pass this manual on to every user of the product
- Download the latest version of the user manual from manufacturers website

Introduction

Thank you for having chosen the Studio FR2. You will see you acquired a powerful and versatile fixture for use in both studio and stage. Before your initial start-up, please make sure that there is no damage caused by transportation or shipping. Should there be any damages present please consult your dealer and do not use the device.

Safety instructions

This fixture has left our factory in absolutely perfect condition. In order to maintain this condition and to ensure safe operation, it is absolutely necessary for the user to follow the safety instructions and warning notes written in this user manual. Always disconnect power prior to performing cleaning or any maintenance. There are no user serviceable parts inside the device. Maintenance and service operations are only to be carried out by authorized dealers or service technicians authorized by Acue Lighting, Inc. in order to avoid voiding your warrant

Installation

****SAFETY INFORMATION****

This fixture is designed for indoor use only and must be used in a dry location with adequate ventilation. Ensure that none of the fixture's ventilation slots are blocked.

Fasten the fixture to a secure structure or surface. Do not stand fixture on a surface or leave it where it can be moved or fall over. If you install the fixture in a location where it may cause injury or damage if it falls, make sure secure it as directed in this user manual using a securely anchored safety cable that will hold the fixture if the primary fastening method fails.

Fastening the fixture to a flat surface

The fixture can be fastened to a hard, fixed, flat surface that is oriented at any angle. Ensure that the surface and all fasteners used can support at least 10 times the weight of all fixtures and equipment to be installed on it.

Fasten the fixture securely. Do not stand it on a surface or leave it where it can be moved or fall over.

If you install the fixture in a location where it may cause injury or damage if it falls, secure it as directed below with a securely anchored safety cable that will hold the fixture if the primary fastening method fails.

Mounting the fixture on a truss

The fixture can be clamped to a truss or similar rigging structure in any orientation. When installing the fixture hanging vertically down, you can use an open-type clamp such as a C-clamp or trigger clamp. When installing in any other orientation, you must use a half-coupler clamp that completely encircles the truss tube.

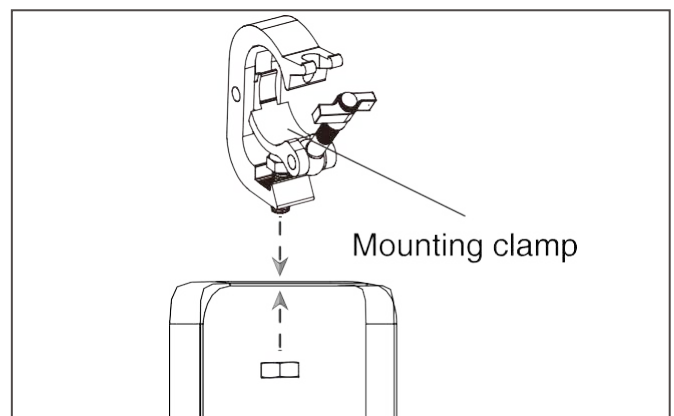
To clamp the fixture to a truss:

1. Check that the rigging structure can support at least 10 times the weight of all fixtures and equipment to be installed on it.
2. Block access under the work area.
3. Fold the legs of the mounting bracket together and bolt a rigging clamp securely to the mounting bracket. The bolt used must be M10, grade 8.8 steel at the minimum. It must pass through both mounting bracket legs and be fastened with a self-locking nut.
4. Working from a stable platform, hang the fixture with its clamp on the truss and fasten the clamp securely.
5. Secure the fixture with a safety cable as directed below.

Securing with a safety cable

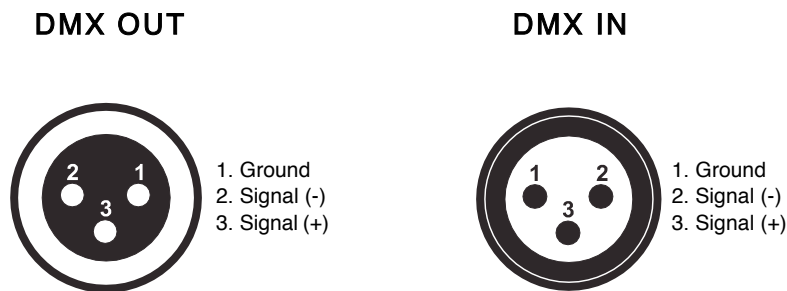
Secure the fixture with a safety cable (or other secondary attachment) that is approved for the weight of the fixture so that the safety cable will hold the fixture if the primary attachment point fails.

Loop the safety cable through the eyebolt in the back of the fixture and around a secure anchoring point. Do not loop the safety cable around the fixture's mounting bracket only, as this will leave the fixture unsecured if it separates from the bracket.



DMX-512 connection/connection between fixtures

Description of the XLR-connection:



If you are using a controller for operation, you can connect the DMX-output of the controller directly to the DMX-input of the first fixture in the DMX-chain. If you wish to connect multiple fixtures to the same chain you may do so using the DMX output of the fixture.

Building a serial DMX-chain:

Connect the DMX-output of the first fixture in the DMX-chain with the DMX-input of the next fixture. Always connect one output with the input of the next fixture until all fixtures are connected.

DMX-512 connection with DMX terminator:

For installations where the DMX cable has to run a long distance or is in an electrically noisy environment, such as in a club or studio, it is recommended to use a DMX terminator. This helps in preventing interference of the digital control signal by electrical noise. The DMX terminator is simply an XLR plug with a 120-ohm resistor connected between pins 2 and 3, which is then plugged into the DMX output socket of the last fixture in the chain.

Caution: For the last fixture in the chain, the DMX-cable has to be terminated with a DMX terminator. Solder a 120 resistor between Signal (-) and Signal (+) into a 3-pin XLR-plug and plug it in the DMX-output of the last fixture.

Power connection:

Power Requirements:

The LED Profile 300 WW luminaire operates on 100 to 240 volts AC (+/- 10%, auto-ranging). This luminaire contains an auto-switching power supply.

Power linking between fixtures:

The fixture has built in powercon in and out sockets. Connect the power out to the power in socket of the next fixture in the chain until all fixtures are connected.

Caution: maximum power linking - 6 units.

Connection with the mains:

Connect the device to the mains with the enclosed powercon cable.

The description of the powercon cable layout are as below:

Cable color	Connection	International
Brown/Black	Live	L
Blue/White	Neutral	N
Yellow/Green	Earth(Ground)	⊥

Operation

The LED Profile 300WW can operate in three different modes. In each mode you can run the fixture as a stand-alone fixture or in a master/slave configuration. This next section will detail the differences in the operating modes.

Control Menu Map

Default setting in **bold**.

MAIN MENU	LEVEL 1	LEVEL 2	LEVEL 3	FUNCTION INSTRUCTION
DMX	001-512			DMX address setting
Mode	DMX	1/2/3CH		DMX channel mode
	Auto	Program	001-008	Preset programs
		Speed	001-009	Programs speed
	Manual	Brightness	000-255	Dimmer 0-100%
Strobe		000-255	Strobe with speed increasing	
Dimmer	Curve	0.3-3.0		Dimmer curves adjustment
	Mode	Standard		Dimmer mode, Standard
		Stage		Dimmer mode, Stage
		TV		Dimmer mode, TV
		Architecture		Dimmer mode, Architecture
		Theatre		Dimmer mode, Theatre
		Studio		Studio power mode, silent
		Custom	Fade in (150 ms~2230 ms)	
Fade out (150 ms~2230 ms)				
Advance	Authorization	On/Off		Advanced settings/calibration(Only qualified technicians should perform this function. Contact your local dealer for password.)
	Signal Priority	DMX		DMX signal priority setting
	Signal Hold	On/Off		Run if signal cut
	RDM	On/Off		RDM function on/off
	Screen Timeout	30S		Display shut off time
		Never		
	Screen Brightness	25-100%		Display brightness
Dimming Freq	1.20 - 24.0 KHz		Dimmer frequency setting	
Reset	Yes/No			System reset
Reverse	Yes/No			Display reverse 180 degree

Addressing

All fixtures should be given a DMX address when using DMX signal, so that the correct fixture responds to the correct control signal. This digital starting address is the channel number from which the fixture starts to listen to the digital control information sent out from the DMX controller. The allocation of this starting address is achieved by setting the correct number on the display located on the base of the device.

You can set the same starting address for all fixtures or a group of fixtures, or make different address for each fixture individually.

If you set the same address, all the units will start to listen to the same control signal from the same channel number. In other words, changing the settings of one channel will affect all the fixtures simultaneously.

If you set a different address, each unit will start to listen to the channel number you have set, based on the quantity of control channels of the unit. This means changing the settings of one channel will affect only the selected fixture.

In the case of the LED Profile 300WW, which is 1/2/3 channels fixture. If you set, for example, the address in the 1 channel mode to channel 2, the device will use the channel 2 for control.

Note: After switching on, the device will automatically detect whether DMX 512 data is received or not. If there is data received at the DMX input, you will see the DMX indicator light in green.

Universal DMX Control

This function allows you to use a universal DMX-512 controller to control the dimmer and strobe of each fixture. A DMX controller allows you to create unique programs tailored to your individual needs.

RDM control

The LED Profile 300WW can communicate using RDM (Remote Device Management) in accordance with ESTA's American National Standard E1.20-2006: Entertainment Technology RDM Remote Device Management Over DMX512 Networks.

RDM is a bi-directional communications protocol for use in DMX512 control systems; it is the open standard for DMX512 device configuration and status monitoring.

The RDM protocol allows data packets to be inserted into a DMX512 data stream without affecting existing non-RDM equipment. It allows a console or dedicated RDM controller to send commands to and receive messages from specific fixtures.

With RDM function, you can set the DMX address of your fixtures remotely. This is especially useful when the device is installed in a remote area.

Each LED Profile 300WW fixture has a factory set RDM UID (unique identification number).

DMX Protocol

1 Channel Mode	Function	Function Control
CH1	Dimmer	000-255: 0-100% dimmer

2 Channels Mode	Function	Function Control
CH1	Dimmer	000-255: 0-100% dimmer
CH2	Strobe	000-255: Strobe with speed increasing

3 Channels Mode	Function	Function Control
CH1	Dimmer	000-255: 0-100% dimmer
CH2	Dimmer fine	000-255: 16 bit dimmer
CH3	Strobe	000-255: Strobe with speed increasing

Fixture Cleaning

Due to fog residue, smoke, and dust cleaning the internal and external optical lenses and mirror should be carried out periodically to optimize light output. Cleaning frequency depends on the environment in which the fixture operates (I.e. smoke, fog residue, dust, dew). In heavy club use we recommend cleaning on a monthly basis. Periodic cleaning will ensure longevity, and crisp light output.

To clean the fixture:

1. Disconnect the fixture from power and allow it to cool for at least 10 minutes.
2. Vacuum or gently blow away dust and loose particles from the outside of the fixture with low-pressure compressed air.
3. Clean the surfaces by wiping gently with a soft, clean lint-free cloth moistened with a weak detergent solution. Do not rub glass surfaces hard: lift particles off with soft repeated pressure. Dry with a soft, clean, lint-free cloth or low-pressure compressed air. Remove stuck particles with an unscented tissue or cotton swab moistened with glass cleaner or distilled water.
4. Check that the fixture is dry before connecting to power.

Fuse Replacement

This fuse is located in a fuse holder next to the MAINS OUT socket on the connections panel. To replace a fuse:

1. Disconnect the fixture from power and allow it to cool for at least 10 minutes.
2. Unscrew the cap of the fuse holder and remove the fuse. Replace with a fuse of the same size and rating only.
3. Reinstall the fuse holder cap before connecting to power.

Troubleshooting

Listed below are a few common problems that you may encounter, with solutions.

The fixture does not work, no light

- Check the connection of power and main fuse. Be sure the external fuse has not blown.
- Measure the mains voltage on the main connector.

Technical specifications

Model	Profile S300
Power supply:	AC100 - 240V, 50/60Hz
Light source:	300W COB LED
Color temperature:	3200K or 5600K optional
Color Rendition:	CRI ≥ 90
Lens:	19°, 26°, 36°, 50° optional
Power connection:	PowerCON in & out
Fuse:	F5A, 250V
Maximum power linking:	6 units
Signal connection:	3-pin XLR in & out
DMX channels:	1/2/3
Control protocol:	DMX512
Housing:	Aluminum
Size:	700 x 270 x 263mm
N.W.:	9.2 kg
G.W.:	11 kg
Environment:	IP20

Please note: All information is subject to change without prior notice 14.05.2022

For more information regarding this or other Acue Lighting products please visit www.AcueLighting.com or contact our headquarters.

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