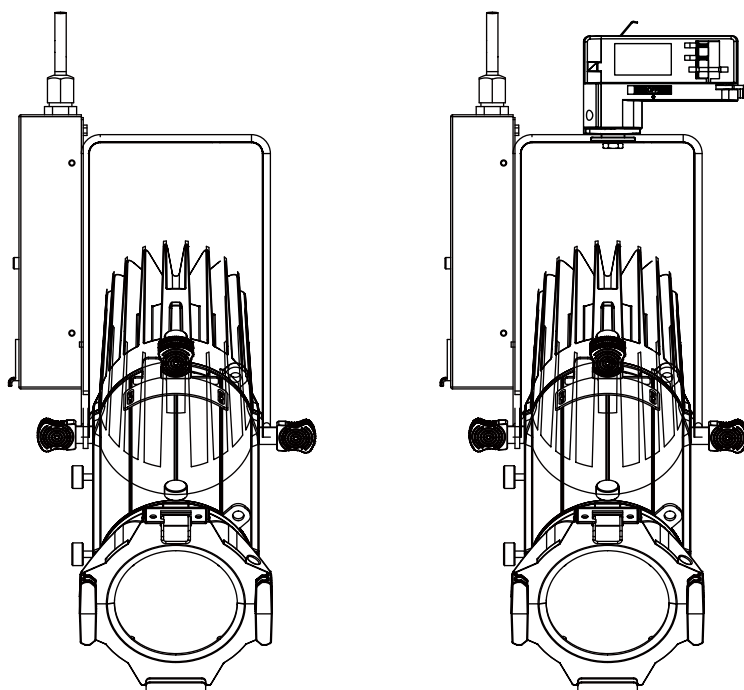


Expo S40C

40W RGBL LED profile spot



USER MANUAL

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Caution!



Be careful with your operations. With a dangerous voltage you can suffer a dangerous electric shock when touching the wires!



Avoid looking directly into the light source!

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. Make sure it is grounded when using it!

Unplug mains lead before opening the housing!

Make sure that the power cord is never crimped or damaged by sharp edges. Check the fixture and the powercord from time to time.

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 you initial start-up.

Follow operating safety precautions and pay attention to warning signs methods and equipment on the 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.

Every person involved with the installation, operation and maintenance of this device has 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 further owner or user of the product
- download the latest version of the user manual from the Internet

Introduction

Thank you for having chosen Expo S40C. You will see you acquired a powerful and versatile device.

Unpack your item. Before you initial start-up, please make sure that there is no damage caused by transportation. Should there be any, consult your dealer and do not use the device.

Safety instructions

This device has left our premises in absolutely perfect condition. In order to maintain this condition and to ensure a safe operation, it is absolutely necessary for the user to follow the safety instructions and warning notes written in this user manual. Always disconnect from the mains, when the device is not in use or before cleaning it. Keep away children and amateurs from the device! There are no serviceable parts inside the device. Maintenance and service operations are only to be carried out by authorized dealers.

Overview

Installation

Read 'Safety information' before installing the fixture.

The 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 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 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 G-clamp. When installing in any other orientation, you must use a half-coupler clamp that completely encircles the truss chord.

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 M8. 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.

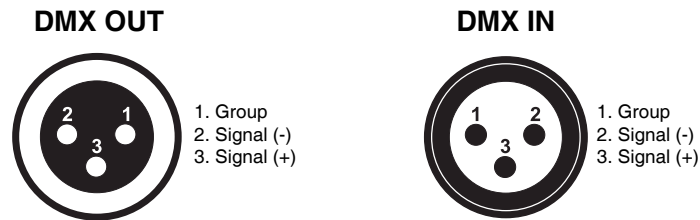
Securing with a safety cable

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 a primary attachment 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

Occupation of the XLR-connection:



If you are using controllers with this occupation, you can connect the DMX-output of the controller directly with the DMX-input of the first fixture in the DMX-chain. If you wish to connect DMX-controllers with other XLR-outputs, you need to use adapter-cables.

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 discotheque, it is recommended to use a DMX terminator. This helps in preventing corruption of the digital control signal by electrical noise. The DMX terminator is simply an XLR plug with a 120 resistor connected between pins 2 and 3, which is then plugged into the output XLR socket of the last fixture in the chain.

Caution: At the last fixture, the DMX-cable has to be terminated with a terminator. Solder a 120 Ω 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 Expo S40C luminaire operates on 100 to 240 volts AC (+/- 10%, auto-ranging). The luminaire contains an auto-ranging power supply.

Connection with the mains:

Connect the device to the mains with the enclosed power supply cable.

The occupation of the connection cables as below:

Cable color	Connection	International
Brown	Live	L
Blue	Neutral	N
Yellow/green	Earth(Ground)	

Operation

Control Menu Map

MAIN MENU	LEVEL 1	FUNCTION INSTRUCTION
A001	001-512	DMX address setting
Chnd	4/6/8CH	Channel Mode
FAIL	BLND	Black field after signal cut
	HOLd	Holding the last signal after breaking the signal
CL01	CL01–CL15	15 static colour mixing modes, up and down keys to select the colour to confirm the strobe mode St00-St16

MAIN MENU	LEVEL 1	FUNCTION INSTRUCTION
AUTO	AUT 0	All effect modes, confirmed speed modes SP01-SP16
	AUT 1	Colour changing self-propelled mode, confirmed speed mode SP01-SP16
	AUT 2	Gradual self-propelled mode, confirmed speed mode SP01-SP16
	AUT 3	Mutation self-propelled mode, confirmed speed mode SP01-SP16
	AUT 4	Colour changing strobe self-propelled mode, confirmed speed mode SP01-SP16
SOU0	SOU0	Voice-activated mode
	SOU1	Colour-changing voice-activated mode
	SOU2	Sudden change voice-activated mode
	SOU3	Colour changing strobe voice-activated mode
NANU	d000-255	dimmer, 0-100%
	R000-255	Red dimmer, 0 - 100%
	G000-255	Green dimmer, 0 - 100%
	B000-255	Blue dimmer, 0 - 100%
	U000-255	Lime dimmer, 0 - 100%
	S.00 - S.20	Strobe, speed increasing
TEST		Colour self-test
LED	ON	Screen on
	OFF	Screen off
VER		Firmware version

DMX Protocol

4 CH Mode	Function	Function Control
CH1	Red	000-255: 0-100% Red dimmer
CH2	Green	000-255: 0-100% Green dimmer
CH3	Blue	000-255: 0-100% Blue dimmer
CH4	Lime	000-255: 0-100% Lime dimmer

6 CH Mode	Function	Function Control
CH1	Dimmer	000-255: 0-100% dimmer
CH2	Strobe	0-10: No function
		11-255: Strobe with speed increasing
CH3	Red	000-255: 0-100% Red dimmer
CH4	Green	000-255: 0-100% Green dimmer
CH5	Blue	000-255: 0-100% Blue dimmer
CH6	Lime	000-255: 0-100% Lime dimmer

8 CH Mode	Function	Function Control
CH1	Dimmer	000-255: 0-100% dimmer
CH2	Red	000-255: 0-100% Red dimmer
CH3	Green	000-255: 0-100% Green dimmer
CH4	Blue	000-255: 0-100% Blue dimmer
CH5	Lime	000-255: 0-100% Lime dimmer
CH6	Strobe	0-10: No function
		11-255: Strobe with speed increasing
CH7	Auto	0-10: No function
		10-50: Mixed colour mode, 8CH for colour selection
		51-100: Jump mode, 8CH for speed
		101-150: Gradient mode, 8CH for speed
		151-200: Mutation mode, 8CH for speed
		201-220: Console jump change voice control
		21-240: Console colour change strobe sound control
		2241-255: Console mutation sound control
CH8	Speed	000-255: slow to fast speeds

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 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 a soft repeated press. 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 reapplying 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	Expo S40C
Power supply:	AC100 - 240V, 50/60Hz
Light source:	40W (25W R+25W G+25W B+25W L)
Zoom range:	15° - 30°
Power connection:	Dedicated power in
Signal connection:	3-pin XLR in & out
Control channels:	4/6/8
Control mode:	DMX, RDM
Housing:	Color black, die-casting aluminum
Size:	408 x 162 x 124mm
N.W.:	2.3 kg
G.W.:	3 kg
Accessories(incl.):	Power cable, Gel frame, Gobo holder, Safety rope
Environment:	IP20

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