

ARTISAN 50C 2540

50W RGBL LED profile spot

USER MANUAL

CE IP20
Indoor



REV 1.0 - 24

English Version

Table of contents

Caution!	3
Introduction	3
Safety instructions	4
Operation.....	5
DMX Protocol	7
Fixture Cleaning.....	9
Troubleshooting	10
Technical specifications.....	10

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

Artisan 50C 2540 is a 50W RGBL LED profile spot. Aluminum housing, fan-free design. With 25° - 40° zoom lens. It's an idea product for art gallery, museum, shopping mall.

Our product incorporates LumenRadio chips, which serve as low-power RF transceivers. These chips are responsible for receiving LumenRadio's proprietary MiraOS protocol or other wireless signals (e.g., 2.4GHz/Sub-GHz) and demodulating them into digital signals.

They support efficient spectrum utilization (e.g., via frequency hopping) and offer strong anti-interference

ARTISAN 50C 2540

capabilities. The chips are typically based on the ARM Cortex-M architecture (such as Nordic's nRF52/nRF53 series), optimized for low power consumption. They also feature AES encryption or LumenRadio's private encryption mechanisms to prevent data tampering and interference.

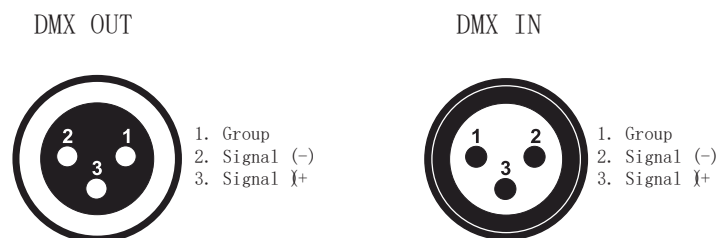
Unpack your item. Before you initial start-up, please make sure that there is no damage caused by transportation. Should there be any, consult your dealer and do not use the device.

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.

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 5-pin XLR-plug and plug it in the DMX-output of the last fixture.

Power connection

Power Requirements

The Artisan 50C 2540 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

The Artisan 50C 2540 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.

Addressing

All fixtures should be given a DMX starting address when using a DMX signal, so that the correct fixture responds to the correct control signals. 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. That means changing the settings of one channel will affect only the selected fixture.

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, the dot in the display will flash.

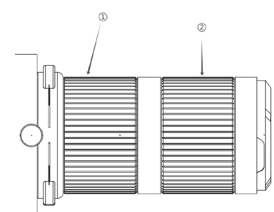
Zoom

This function allows you to adjust the beam width of the fixture.

Step 1: Adjust the zoom by turning the zoom knob clockwise/counter-clockwise.

Step 2: Adjust the focus by turning the focus knob clockwise/counter-clockwise.

Step 3: Adjust the zoom and focus buttons.



ARTISAN 50C 2540

Control Menu Map

MENU	SUB MENU	OPERATION
Addr	d001-d512	RDM/DMX
CHnL	Stag(11CH)	Channel Mode
	ArC.1(3CH)	
	Ar1.d(4CH)	
	ArC.2(4CH)	
	Ar2.d(5CH)	
	Ar2.S(6CH)	
	HSV(3CH)	
SP--	T.(00-99)	Auto program speed increasing
Pr--	Pr01~Pr10	Auto programs
CoLo	C.(01~15)	Color preset
UoL	U.(000-255)	Activate rotary function, Dimme
	C.(000-255)	Activate rotary function, Color & CCT
dEf	2200	Color temperature preset (K)
	2700	
	3200	
	4000	
	4500	
	5000	
	5600	
	6000	
	6500	
	7000	
	7500	
Strb	S.00-S.20	Strobe with speed increasing
rL--	r.(000-255)	Red dimmer
gL--	g.(000-255)	Green dimmer
bL--	b.(000-255)	Blue dimmer
uL--	u.(000-255)	Lime dimmer
nodE	nod.0	Dimmer speed 0 (no delay)
	nod.1	Dimmer speed 1
	nod.2	Dimmer speed 2
	nod.3	Dimmer speed 3
	nod.4	Dimmer speed 4 (slowest speed)
Id	Id.01-Id.66	ID address setting
tEnP	-25~100	Fixture temperature
UErn		Firmware version
2.4G	on/off	
rSEt	yes/no	Reset
pnnF	(1.2 -24.0)F	PWM refresh rate adjustment(KHz)

DMX Protocol

STAG

11Channel Mode	Function	Function Control
CH1	Dimming	000-255: 0-100% Dimming
CH2	Red	000-255: Red 0-100% Dimming
CH3	Green	000-255: Green 0-100% Dimming
CH4	Blue	000-255: Blue 0-100% Dimming
CH5	Lime	000-255: Lime 0-100% Dimming
CH6	Color preset & color temp	000-010: No function
		011-030: Red 100%, Green 0-100%, Blue 0%
		031-050: Red 100-0%, Green 100%, Blue 0%
		051-070: Red 0%, Green 100%, Blue 0-100%
		071-090: Red 0%, Green 100-0%, Blue 100%
		091-110: Red 0~100%, Green 0%, Blue 100%
		111-130: Red 100%, Green 0%, Blue 100-0%
		131-150: Red 100%, Green 0-100%, Blue 0-100%
		151-170: Red 100-0%, Green 100-0%, Blue 100%
		171-200: Red 100%, Green 100%, Blue 100%
		201-205: 2200K
		206-210: 2700K
		211-215: 3200K
		216-220: 4000K
		221-225: 4500K
		226-230: 5000K
		231-235: 5600K
		236-240: 6000K
		241-245: 6500K
		246-250: 7000K
		251-255: 7500K
CH7	Strobe	000-013: Strobe off
		014-255: Strobe with speed increasing
CH8	Auto program	000-020: no function
		021-030: Auto1
		031-040: Auto2
		041-050: Auto3
		051-060: Auto4
		061-070: Auto5
		071-080: Auto6
		081-090: Auto7
		091-100: Auto8
		101-110: Auto9
		111-120: Auto10
		121-255: No function
CH9	Auto program speed	000-255: Speed increasing

ARTISAN 50C 2540

11Channel Mode	Function	Function Control
CH10	Dimmer mode	000-005: Menu setting
		006-055: Dimmer speed 0 (no delay)
		056-105: Dimmer speed 1
		106-155: Dimmer speed 2
		156-205: Dimmer speed 3
		206-255: Dimmer speed 4 (slowest speed)
CH11	ID address setting	000-009: ID1-ID66
		010-019: ID1
		020-029: ID2
		030-039: ID3
		...
		200-209: ID20
		210: ID21
		211: ID22
		...
		255: ID66

ARC.1

3 Channels 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

AR1.D

4 Channels 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

ARC.2

4 Channels 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

ARTISAN 50C 2540

AR2.D

5 Channels 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

AR2.S

6 Channels 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	000-255: Strobe with speed increasing

HSV

3 Channels Mode	Function	Function Control
CH1	Hue	000-255: 0-100% Hue
CH2	Saturation	000-255: 0-100% Saturation
CH3	Value(brightness)	000-255: 0-100% Value(brightness)

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	Artisan 50C 2540
Power supply:	AC100-240V, 50/60Hz
Light source:	100W RGBL LED (25W R + 25W G + 25W B + 25W L)
Color :	RGBL
Color Rendition:	CRI 80+
Zoom range:	25° - 40°
Power connection:	Dedicated power in
Signal connection:	3-pin XLR in & out
DMX channels:	ARC.1(3CH), AR1.D(4CH), ARC.2(4CH), AR2.D(5CH), AR2.S(6CH), HSV(3CH), STAG(11CH)
Control mode:	RDM, DMX, Rotary, Master-slave
Housing:	Color black or white, aluminum
Size(barn door excluded):	279x 90 x 191mm
N.W.:	1.85 kg
Environment:	IP20

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