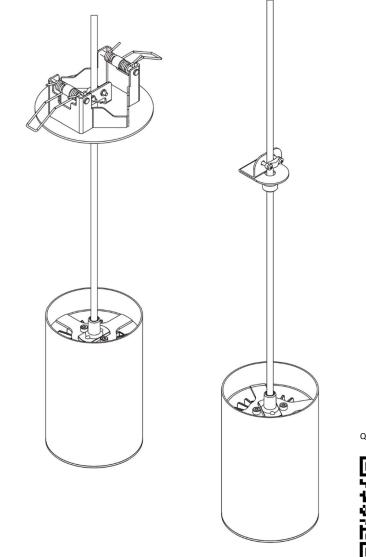


Ambiane[®] SP16 Pendant Remote



QR code for user manual



USER MANUAL

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1. Attention

The unit must be installed by a qualified electrician in accordance with all national and local electrical and construction codes and regulations.

The unit was designed for indoor use only.

Do not install the unit near highly inflammable liquids or materials.

Do not allow anything to rest on the unit.

Do not install the unit near an open flame.

Do not install the unit in dirty, dusty or badly ventilated location.

Avoid looking directly into the light beam at close range!

A ceiling (structure) intended for installation of the unit(s) must safely hold at least 5 times the weight of the unit(s) fastened on it.

Blinking light of this thermally protected luminaire may indicate overheating.

The product (covers and cables) must not be exposed to a high frequency electromagnetic field higher than 3V/m.

Immunity of the equipment is designed according to the standard EN 55035 Electromagnetic compatibility of multimedia equipment - Immunity requirements

Emission of the equipment complies with the standard EN55032 Electromagnetic compatibility of multimedia equipment – Emission Requirements according to class B.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

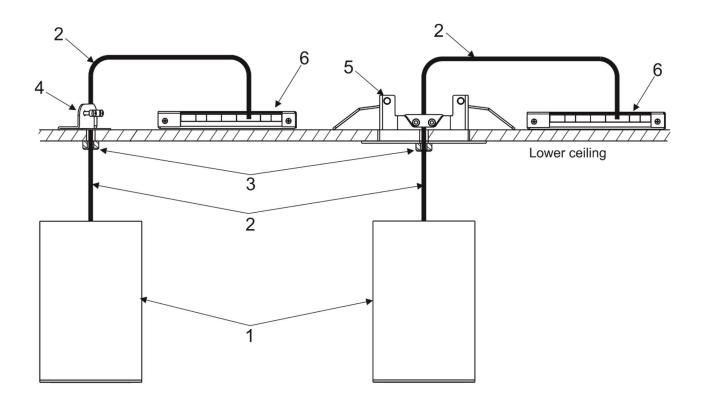
This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

2. Fixture exterior view

Ambiane SP16 Pendant Remote

Ambiane SP16 Pendant Remote with spring clips adaptor



- 1- LED unit
- 2- Hanging cable (LED supply cable)
- 3 Cover of hole
- 4 Adjusting element of cable length
- 5 Spring clips adaptor
- 6 Control unit

3. Installation

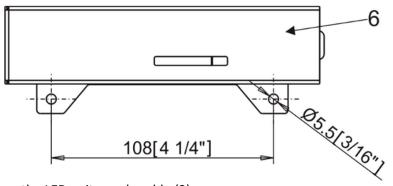
The Ambiane SP16 Pendant Remote must be installed by a qualified electrician in accordance with all national and local electrical and construction codes and regulations.

Always switch off power supply of the control unit before connecting or disconnecting the control unit or the light unit.

The lower ceiling (or another structure) intended for installation of the Ambiane (s) SP16 Pendant Remote must safely hold at least 5 times weight of the Ambiane (s) SP16 Pendant Remote placed on it.

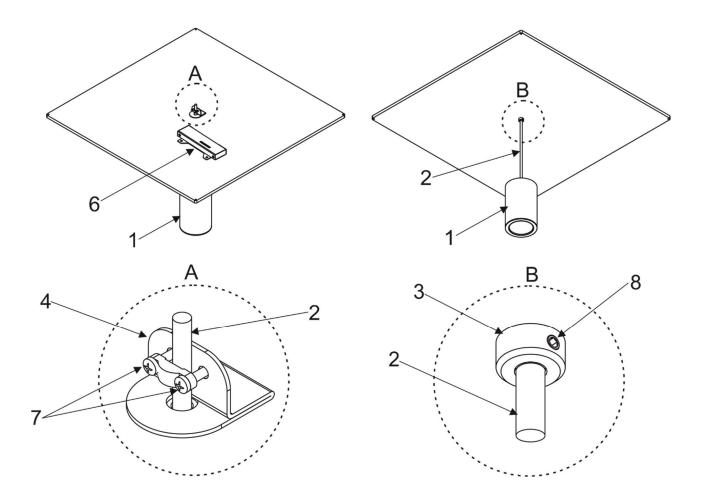
Ambiane SP16 Pendant Remote

- 1. Drill the hole (diameter of 7mm, 1/4") in the lower ceiling for the LED unit supply cable (2).
- 2. Fasten the control unit (6) on the ceiling (lower ceiling) by means of two holes in the housing of the control unit.



- 3. Put the hole cover (3) on the LED unit supply cable (2).
- 4. Pass the LED unit supply cable (2) through hole in the lower ceiling and slide the adjusting element (4) of a cable length on it.
- 5. Secure the LED unit supply cable (2) in desired position by means of two screws (7) in the adjusting element (4).
- 6. Secure the hole cover (3) on the LED unit supply cable under the hole in the lower ceiling by means of the setscrew (8).

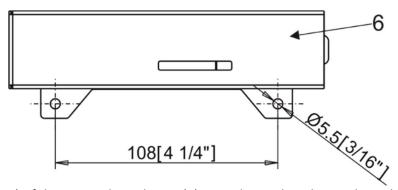
IMPORTANT! TIGHTEN THE SETSCREW (8) WITH CAUTION TO NOT DEMAGE WIRES IN THE CABLE (2).



Ambiane SP16 Pendant Remote with spring clips adaptor

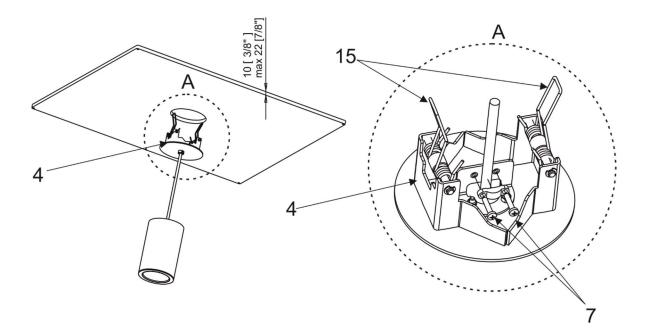
1. Prepare the hole (diameter of 76mm, 3") in the lower ceiling for the spring clips adaptor (4). Thickness of the lower ceiling has to be in range of 10-22mm (3/8"-7/8").

2. Fasten the control unit (6) on the ceiling (lower ceiling) by means of two holes in the housing of the control unit.



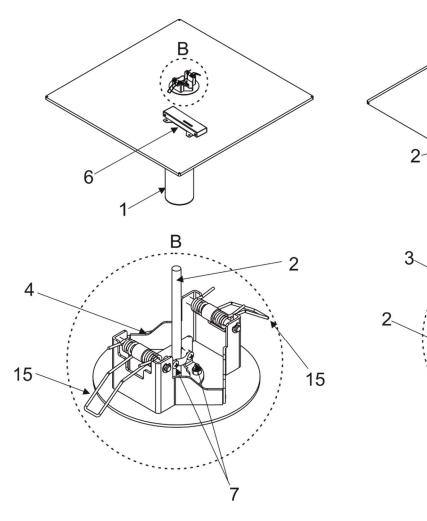
- 3. Bend the spring clips (15) of the spring clips adaptor (4) up and pass the adaptor through the hole in the lower ceiling.
- 3. Put the hole cover (3) on the LED unit supply cable (2).
- 4. Pass the LED unit supply cable (2) through spring clips adaptor (4). length on it.
- 5. Secure the LED unit supply cable (2) in desired position by means of two screws (7) in the spring clips adaptor (4).
- 6. Secure the hole cover (3) on the LED unit supply cable under the hole in the lower ceiling by means of the setscrew (8).

IMPORTANT! TIGHTEN THE SETSCREW (8) WITH CAUTION TO NOT DEMAGE WIRES IN THE CABLE (2).



С

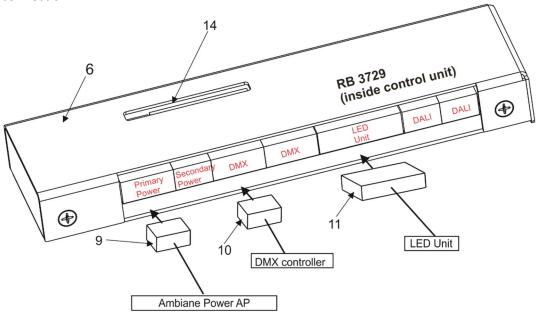
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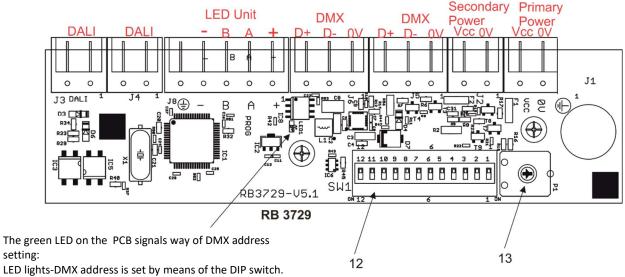


For Both versions of the Ambiane SP16 Pendant Remote

- 7. Install the terminal block (11) on the LED unit supply cable (2) and connect it to the to the PCB RB 3729 of the control unit (6).
- 8. Install the terminal block (10) on the DMX cable and connect it to the PCB RB 3729 of the control unit (6).
- 9. Install the terminal block (9) on the control unit supply cable connect it to the PCB RB 3729 of the control unit (6).
- 10. Install another terminal blocks on cables according to requirements of current installation.

Example of connection:





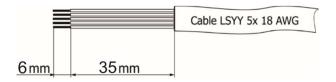
LED does not light- DMX address is set by means of RDM.

Note: The trimmer (13) allows you to set a light intensity (for secondary power only). This trimmer is accessible by aperture (14) in the cover of the control unit (6).

LED unit connection (cable LSYY 5x18 AWG)

Connector	+	Α	В	-
Function	LEDs +	Data A	Data B	LEDs -
Colour of wire	Red	White	Blue	Black

Strip these lengths for cable connection



Primary power connection

Connector	Vcc	0V	
Function	Power +	Power -	

Secondary power connection

Connector	Vcc	0V	
Function	Power +	Power -	

Recommended diameter of conductors with respect to distance between the Control unit and the power supply (e.g. Ambiane Power AP):

Distance/cable length	100 m
Diameters of conductors	1 mm ²

DMX connection

Connector	D+	D-	0V
Function	Data +	Data-	Data ground(shielding)

0-10V connection

Connector	D+	0V
Function	+10V	0V

DMX connectors are used for 0-10V control

The primary power input serves for a standard power (e.g. Ambiane Power AP).

The secondary power input serves for a backup power (in case that primary power failed).

If both power inputs are under voltage, the primary power has a priority and the secondary power is disabled. In case of primary power loss, the secondary power is enabled.

If the fixture is supplied via the secondary power, the light output of the fixture is a white colour 3200K (for RGBW, TW and TD version only) and its light intensity can be set by the trimmer (13) accessible by aperture (14) in the cover of the control unit (6).

11. Set the DIP switch (12) according to your operation mode. This DIP switch is accessible by aperture (14) in the cover of the control unit (6).

The fixture can be controlled by one of the following methods: DMX 512

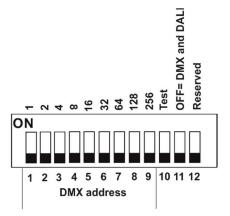
0-10V (PW or TD version only)

The fixture is equipped with two DMX and DALI connection blocks (on the PCB RB 3729) for easy connection to a DMX or DALI chain (In/Out method).

DALI

3.1. DMX and DALI address setting and control

The DIP switch on the control PCB (RB3729) allows you to set DMX address and run a test light.



DIP 10 - if it is switched to ON=test light (the fixture lights at 3200K (for RGBW and TW version)) DIP 11 - has to be switched to OFF position to receive DMX 512 and DALI, position ON=0-10V control

Note: If DIP 11=OFF (fixture is controlled by DMX and DALI), the last coming command switches the fixture to the corresponding operation mode (DMX operation by a DMX command, DALI operation by a DALI command). E.g. the fixture stays in a DALI operation and last coming command is a DMX command which switches the fixture to DMX operation. Next command is a DALI command and switches the fixture to the DALI operation etc.

If you need the permanent DALI operation, you have to send a DALI command 8 to the fixture.

DMX control

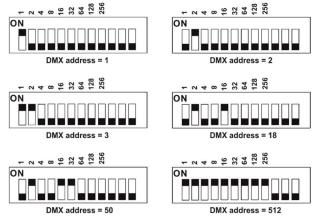
The DMX start address, is the first channel used to receive instructions from the DMX controller. The address may be any channel from 1 to 512. DMX address can be set either by DIP switch or by RDM. DMX address set by RDM overwrites address set by DIP switch and vice versa. The green LED on PCB signals way of DMX address setting:

LED lights-DMX address is set by means of the DIP switch.

LED does not light-DMX address is set by means of RDM.

The DIP 11 has to be set to OFF position.

Example of DMX addresses:



DALI control

Addressing of the fixture has to be made by means of an external DALI controller.

If you need to start the permanent DALI control of the fixture (fixture will not respond to DMX commands), the external DALI controller has to send activating command (8=ON).

If you need to stop the permanent DALI control of the fixture, the external DALI controller has to send deactivating command (0=OFF).

3.2 0-10V control

DIP 11 has to be set in ON position. 0-10V operation has priority to DALI and DMX commands. The option is applicable for the PW and TD version of the Ambiane SP16 Pendant Remote only.

4. RDM

This fixture supports RDM operation. RDM (Remote Device Management) is a bi-directional communication protocol for use in DM X512 control systems, it is the new open standard for DMX512 device configuration and status monitoring.

RDM allows you to set a DMX address, select DMX mode, readout software version of the fixture etc. It is also used for fixture software update by means of the Robe Uploader.

RDM model ID for the Ambiane SP16 is 0x012b.

Parameter ID	Discovery command	SET command	GET command
DISC_UNIQUE_BRANCH	*		
DISC_MUTE	*		
DISC_UN_MUTE	*		
DEVICE_INFO			*
SUPPORTED_PARAMETERS			*
SOFTWARE_VERSION_LABEL			*
DMX_START_ADDRESS		*	*
IDENTIFY_DEVICE		*	*
DEVICE_MODEL_DESCRIPTION			*
MANUFACTURER_LABEL			*
DEVICE_LABEL		*	*
DMX_PERSONALITY		*	*
DMX_PERSONALITY_DESCRIPTION			*
SENSOR_VALUE		*	*
SENSOR_DEFINITION			*
SLOT_INFO			*

Ambiane SP16 Pendant Remote

SLOT_DESCRIPTION		*
DEFAULT_SLOT_VALUE		*
PARAMETER_DESCRIPTION		*

5. DMX protocols

Variant RGBW, version 1.1

Mode 1 Channel	Mode 2 Channel	Mode 3 Channel	Mode 4 Channel	Mode 5 Channel	DMX value	Function	Type of control
1	1	1	-	1		Red	
					0-255	Red LEDs saturation control (0>100%)	proportiona
-	-	2	-	-		Red Fine	
					0-255	Red LEDs saturation control (0>100%)	proportiona
2	2	3	-	2		Green	
					0-255	Green LEDs saturation control (0-100%)	proportiona
-	-	4	-	-		Green Fine	
					0-255	Green LEDs saturation control (0>100%)	proportiona
3	3	5	-	3		Blue	
					0-255	Blue LEDs saturation control (0>100%)	proportiona
-	-	6	-	-		Blue Fine	
					0-255	Blue LEDs saturation control (0>100%)	proportiona
4	-	7	-	4		White	
					0-255	White LEDs saturation control (0>100%)	proportiona
-	-	8	-	-		White Fine	nronortions
					0-255	White LEDs saturation control (0>100%)	proportiona
-	-	9	1			Green correction	stop
					0	Uncorrected white	step proportiona
					1-127	Minus green> uncorrected white	step
					128 129-255	Uncorrected white (128=default)	proportiona
					129-255	Uncorrected white> Plus green	
-	-	10	2			Colour temperature correction (CTC)	
					0	No function (0=default)	step
					1-10	Tungsten dimming 2700 K	step
					11-20	Tungsten dimming 3200 K	step
					21-255	Colour temperature changing 2700 K> 6500 K	proportiona
-	-	11	3	5	0.055	Dimmer	proportiona
					0-255	Light intensity coarse (0>100%)	ргороглопа
-	-	12	-	6	0.255	Dimmer Fine	proportiona
					0-255	Light intensity fine (0>100%).	μομοιτισπα

DMX mode has to be set by RDM.

Variant TW, version 1.2

Mode 1	Mode 2	Mode 3	Mode 4	DMX	Function	Type of
Channel	Channel	Channel	Channel	value		control
1	-	1	-		White colour selection	
				0-255	White from 2700K>4000K	proportional
-	1	-	1		Warm White	
				0-255	Warm white LEDs saturation control (0>100%)	proportional
-	2	-	2		Cool White	
				0-255	Cool white LEDs saturation control (0>100%)	proportional
2	3	2	3		Dimmer	
				0-255	Light intensity (0>100%)	proportional
-	-	3	4		Dimmer Fine	
				0-255	Light intensity fine (min>max)	proportional

Ambiane SP16 Pendant Remote

Mode 1	Mode 2	DMX	Function	Type of	
Channel	Channel	value		control	
1	1		Dimmer		
		0-255	Light intensity coarse (0>100%)	proportional	
-	2		Dimmer Fine		
		0-255	Light intensity (0>100%)	proportional	

6. Technical specifications

Nominal input voltage: Input voltage range: Max. power consumption: Light source: CRI: Beam angle: Projected lumen maintenance: Colour variants: Colour temperature of white:

Control: Settings/Addressing: DMX channels (RGBW variant): DMX channels (TW variant): DMX channels (TD, PW variant): Power supply: Operating ambient temp. range: Max. operating temperature: Total heat dissipation: Cooling: Housing: Weight (without control unit):

Mounting method:

IC rating: Power connection DMX connection: DALI connection: LED unit connection:

Protection factor :

48V DC 44-50V DC 14W **High power LEDs** 90+ 30°, 60° L90B10 >90.000 hrs, Ta = 25°C / 77°F °F) RGBW (W - 2700K or 4000K), Pure White, Tunable White, Tungsten Dim PW 2700 K or 4000K, TW 2700 - 4000K, TD 3200K DMX, DALI 2, RDM, 0-10V **DIP Switch, RDM** 4 (Mode 1), 3 (Mode 2), 12 (Mode 3), 3 (Mode 4), 6 (Mode 5) 2 (Mode 1), 3 (Mode 2) 2 (Mode 1), 2 (Mode 2) Ambiane Power AP, Ambiane Power Rack -20 °C / +40 °C (-4 °F / +104 °F) +75°C (167°F) 26 BTU/h (calculated) Convection High Pressure Die-Cast Aluminium Body 0.8 kg/ 1.8 lbs Pendant with adjustable hanging cable Cut-Out Diameter for Ambiane SP16 Pendant Remote: 7mm; 1/4" Cut-Out Diameter for Ambiane SP16 Pendant Remote with spring clips adaptor: 91mm; 3 9/16" Non-IC rated Connectors Connectors Connectors Connector

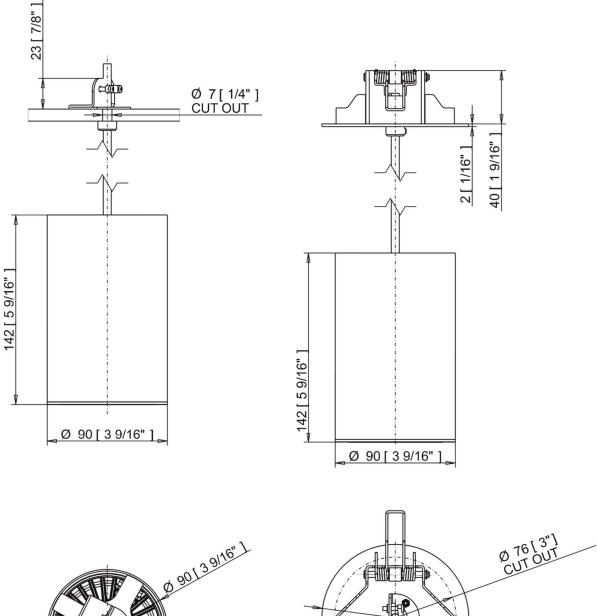
IP20 (CE)/ Dry locations (US)

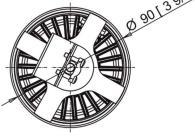
Dimensions

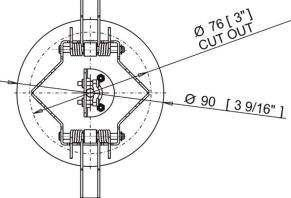
mm [inch]

Ambiane SP16 Pendant Remote

Ambiane SP16 Pendant Remote with spring clips adaptor

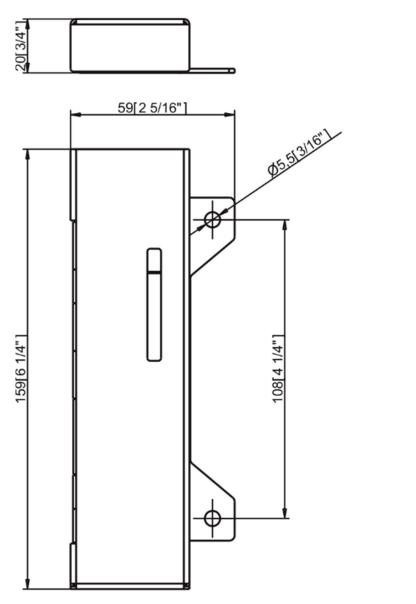






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Control unit



Included items

1 x Ambiane SP16 Pendant Remote

- 1 x Control unit
- 1 x Set of cable connectors
- 1 x User manual

Option items

Ambiane Power AP (P/N 10063994) Ambiane Power Rack (P/N 10063951) Ambiane Power Rack US (P/N 10063873

7. Cleaning and maintenance

Disconnect from the mains before starting any maintenance work

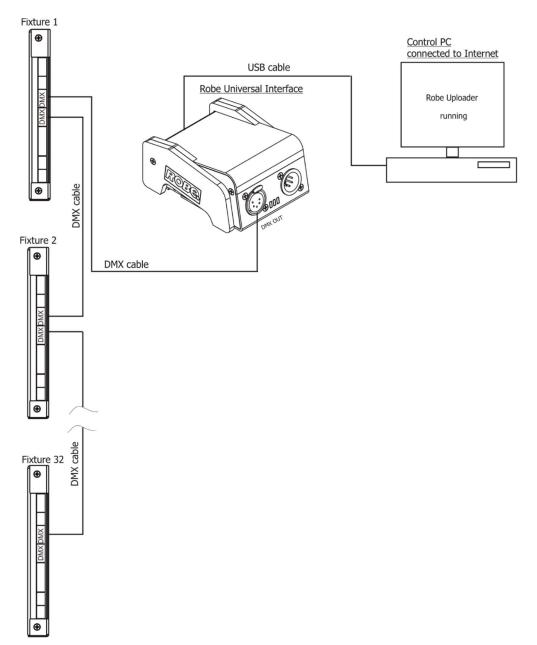
Keep the fixture clean, especially light source and the ribbed ribbed heat sink. Maintenance and service operations are only to be carried out by a qualified person. Should you need any spare parts, please use ROBE OEM parts.

7.1 Software update

The fixture has to be connected to power during software update.

Software update by means of the Robe Uploader

The ROBE Uploader is a software for automatized software update of Robe and Anolis fixtures. It can take advantage of RDM support.



The fixtures have to be connected in a daisy-chain (max. 32 fixtures) and via the Robe Universal Interface/Robe Universal Interface WTX and a USB cable connected to the control PC with the Robe Uploader running. The fixtures have to be connected to power. The control PC should be connected to the Internet.

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The Robe Uploader software and user manual is available at https://www.robe.cz/robe-uploader/

If you do the software update by means of the Robe Uploader, switching fixtures to the update mode (and from the update mode) is made automatically.

Note: The Robe Uploader software cannot be used if fixtures are connected by means of DALI connection.

7.2 Disposing of the product

To preserve the environment please dispose or recycle this product at the end of its life according to the local regulations and codes.

8. ChangeLog

Version of manual	Date of issue	Description of changes						
1.1	22/08/2023	Fixture dimensions changed						
1.2	22/11/2023	Diameters of power cable conductors added						
1.3	28/11/2023	Trademark added						
1.4	25/11/2024	Safety warning chaged						

This section summarizes changes in the user manual.

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