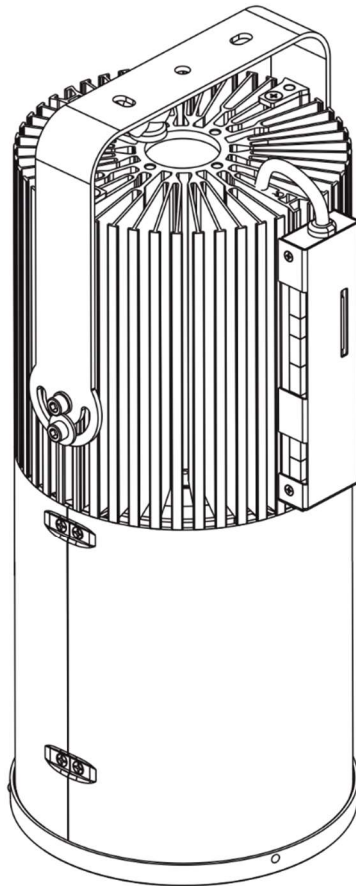


# Ambiane<sup>®</sup> XP56 Recessed US



QR code for 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.

The unit has to be grounded.

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.

Sufficient air accessing to the housing of the unit has to be ensured, there must not be any heat or anti-noise insulation within a 1m x 1m area around the unit (non-IC rated fixture).

Avoid looking directly into the light beam at close range!



Suitable for fastening on  
non-flammable surfaces only



Unsuitable for covering by heat insulation  
material

Immunity of the equipment is designed for electromagnetic environments E1, E2, E3 according to the standard EN55103-2 ed.2 Electromagnetic compatibility. Product family standard for audio, video, audiovisual and entertainment lighting control apparatus for professional use. Part 2: Immunity.

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

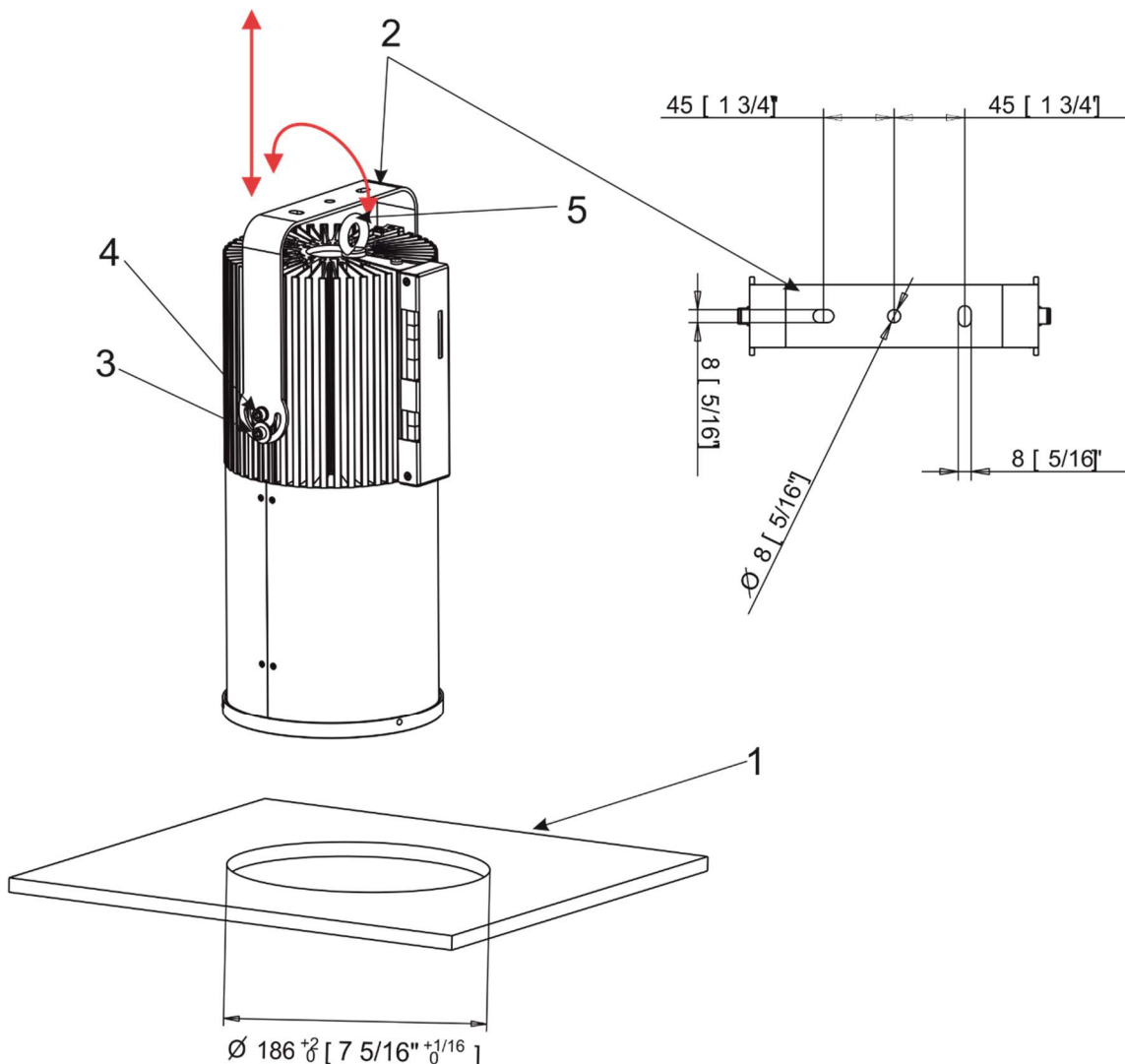
The installation company should check levels of possible interferences above the tested levels E1,E2,E3 given by this standard (e.g. transmitters in surrounding area) before installing the equipment.

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

## 2. Installation

**Always switch off power supply of the unit before connecting or disconnecting the unit**

1. Prepare a circular opening (diameter of 186mm) in the lower ceiling (1) as shown on the picture below.  
 If you will use the Louver for Ambiane XP Recessed, this circular opening in the lower ceiling has to be of diameter of 190mm.  
 If you will use the Top frame for Ambiane XP Recessed, this circular opening in the lower ceiling has to be of diameter of 215mm.  
 Important: The Top frame for Ambiane XP Recessed has to be under lower ceiling before its inserting on the housing of the Ambiane XP56 Recessed.
2. The yoke (2) with three holes serves for fastening the Ambiane XP56 Recessed to the ceiling (construction).  
 To move the yoke (2) up/down, release both screws (3), (4) on each side of the unit.  
 To tilt the yoke in range of +/-90° from the vertical axis, release the screw (3) on each side of the unit  
 Use the Allen key (size 5) to release/tighten screws (3) and (4).  
 The Ambiane XP56 RECESSED has to be secured to the ceiling (construction) via a safety wire pulled through the mounting lug (5) which serves for securing of the Ambiane XP 56 Recessed to the ceiling (construction) .

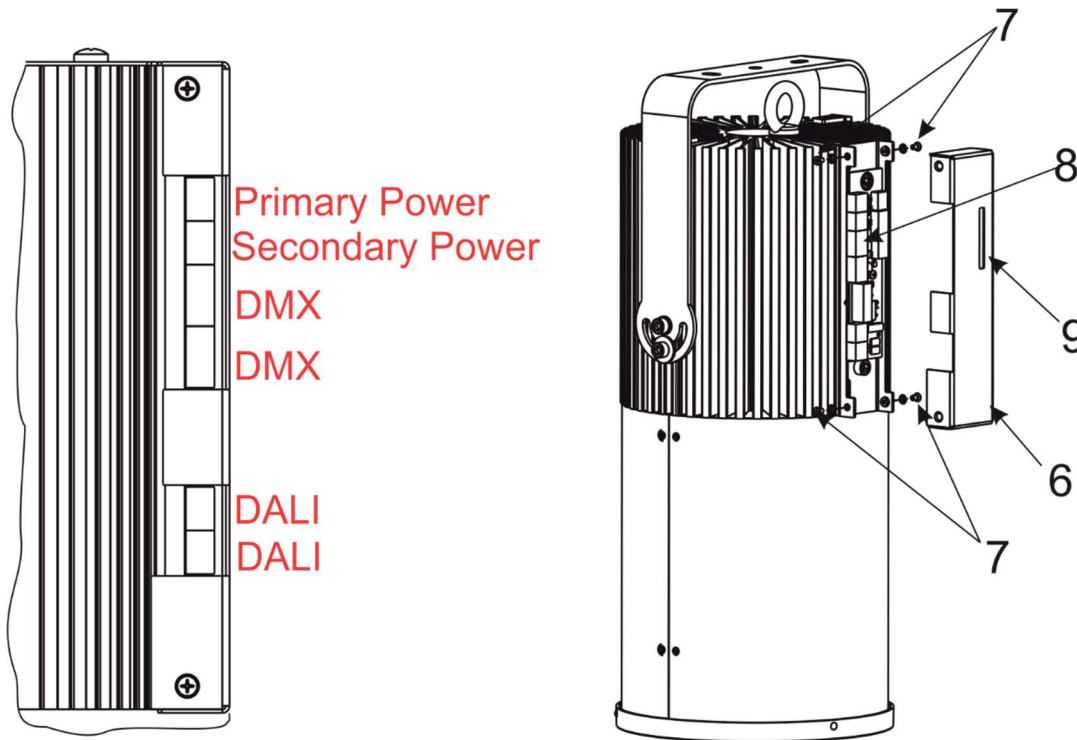


## Ambiane XP56 Recessed US

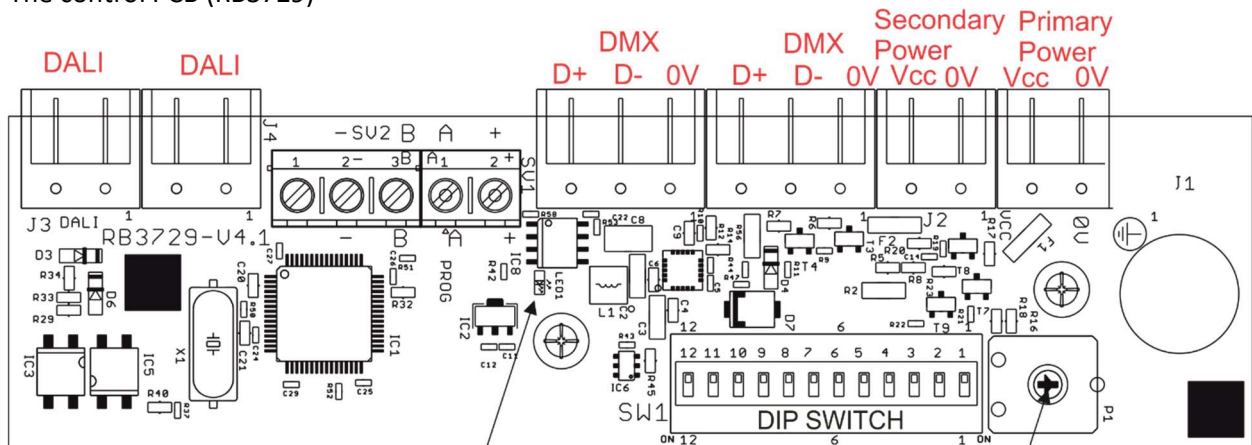
3. Connect cables with installed connectors to the Ambiane XP56 Recessed.

If you need access to the control PCB RB3729 (8), unscrew the four screws (7) on the cover (6).

The aperture (9) in the cover (6) allows you access to DIP switch.



The control PCB (RB3729)



The green LED on the 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.

Trimmer for light intensity setting (for Secondary Power only)

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

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.

## Ambiane XP56 Recessed US

If the fixture is supplied via the secondary power, the light output of the fixture is a white colour 3200K (RGBW, TW version) and its light intensity can be set by a trimmer.

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

DALI

0-10V (for PW or TD version only)

The fixture is equipped with two DMX and DALI connection blocks for easy connection to DMX or DALI chain (In/Out method).

### Primary power connection

Connector	Vcc	0V
Function	Power +	Power -

### Secondary power connection

Connector	Vcc	0V
Function	Power +	Power -

### DMX connection

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

### 0-10V connection

Connector	D+	0V
Function	+10V	0V

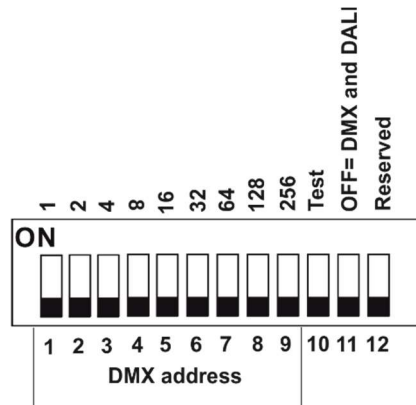
DMX connectors are used for 0-10V control

Max. length of the supply cable between the Ambiane XP56 Recessed and the Ambiane Power XP and Ambiane Power Rack is defined by the following table:

Circular cross-section of wire	Max. cable length
0.5 mm <sup>2</sup>	15 m
1 mm <sup>2</sup>	30 m
1.5 mm <sup>2</sup>	45 m
2 mm <sup>2</sup>	60 m
2.5 mm <sup>2</sup>	75 m

## 2.1. 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

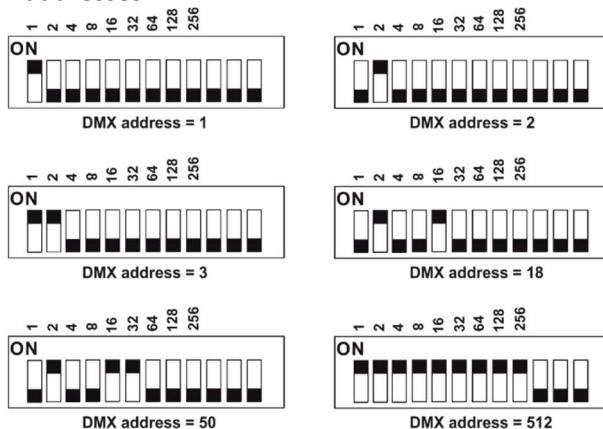
The DMX start address, is the first channel used to receive instructions from the DMX controller. The address may be any channel from 1 to 512. DMX address can be set either by DIP switch or by RDM. DMX address set by RDM overwrites address set by DIP switch and vice versa. The green LED on PCB signals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

**2.2 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 XP56 Recessed only.

**3. RDM**

This fixture supports RDM operation. RDM (Remote Device Management) is a bi-directional communication protocol for use in DMX 512 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 XP56 Recessed is 0x0109.

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 XP56 Recessed US

SLOT_DESCRIPTION			*
DEFAULT_SLOT_VALUE			*
PARAMETER_DESCRIPTION			*

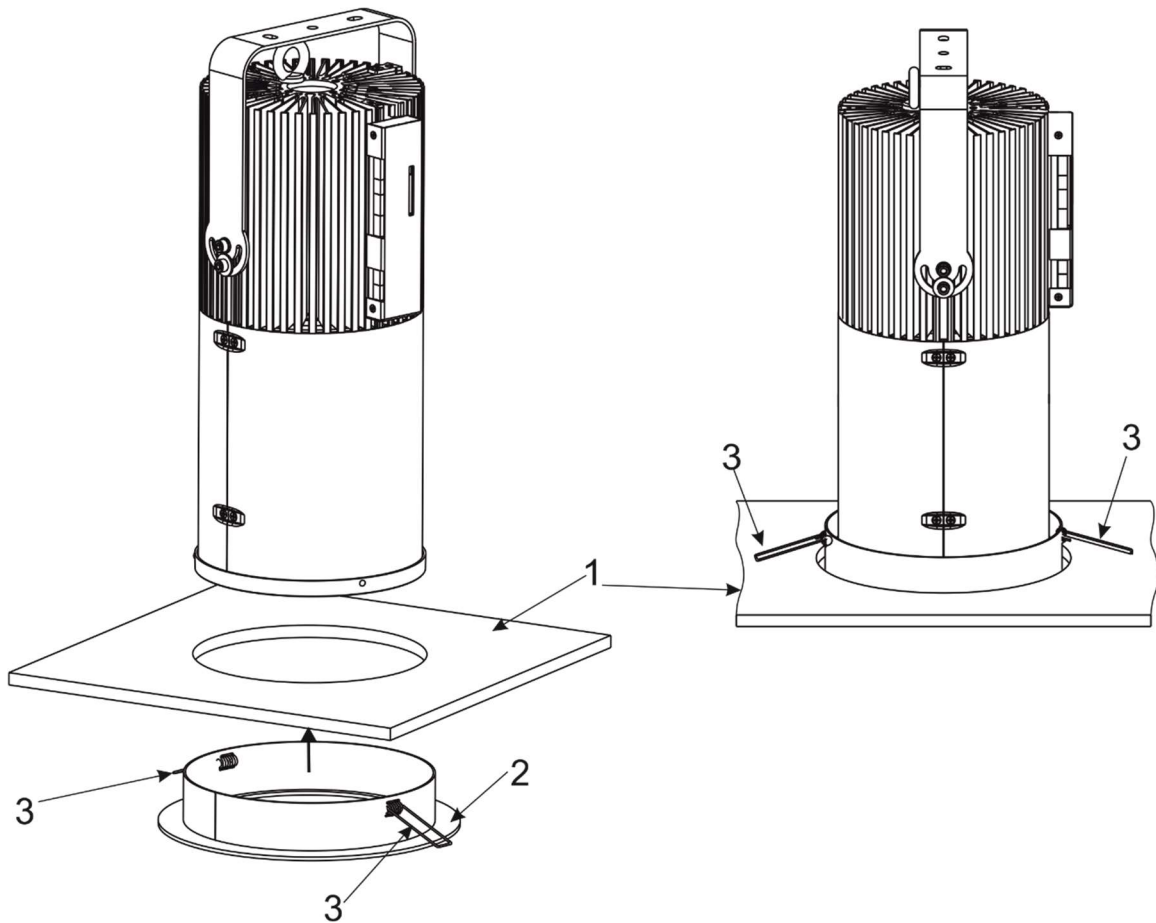
## 4. Optional accessories installation

### 4.1 Top frame installation

The Top frame for Ambiane XP56 Recessed (2) serves for covering of the opening in the lower ceiling (1) if it is required.

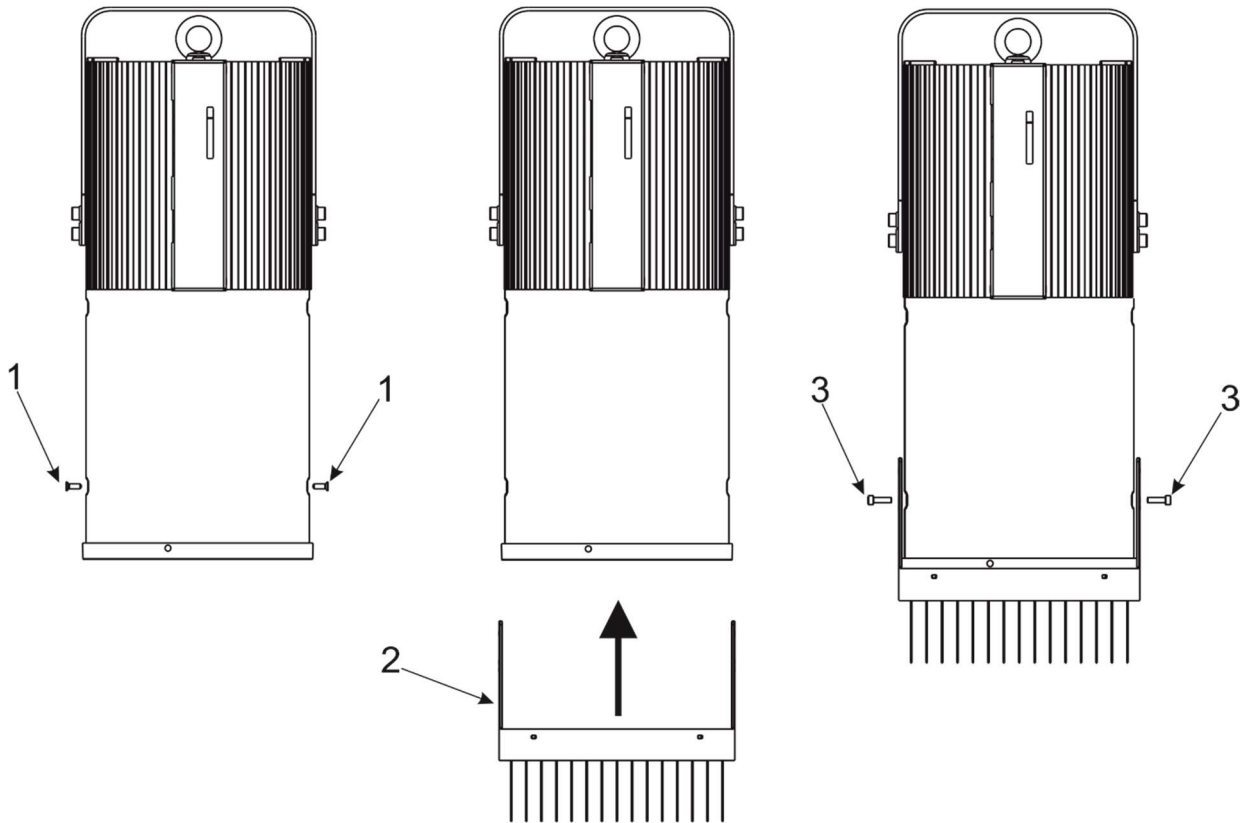
Note: The Top frame has to be placed under lower ceiling before sliding it onto the housing of the Ambiane XP56 Recessed.

1. Slide the Top frame (2) onto the housing of the Ambiane XP56 Recessed through the opening in the lower ceiling.
2. Secure the Top frame in a right position by means of two spring locks (3) which have to lean against ceiling (1).



## 4.2 Louver installation

1. Unscrew two screws(1) on both sides of the Ambiane XP56 Recessed.
2. Slide the louver (2) onto the housing of the Ambiane XP56 Recessed.
3. Secure it by means of two socket head screws M4 x 14 (3) /screws are enclosed with the louver/ on both sides of the housing of the Ambiane XP56 Recessed.

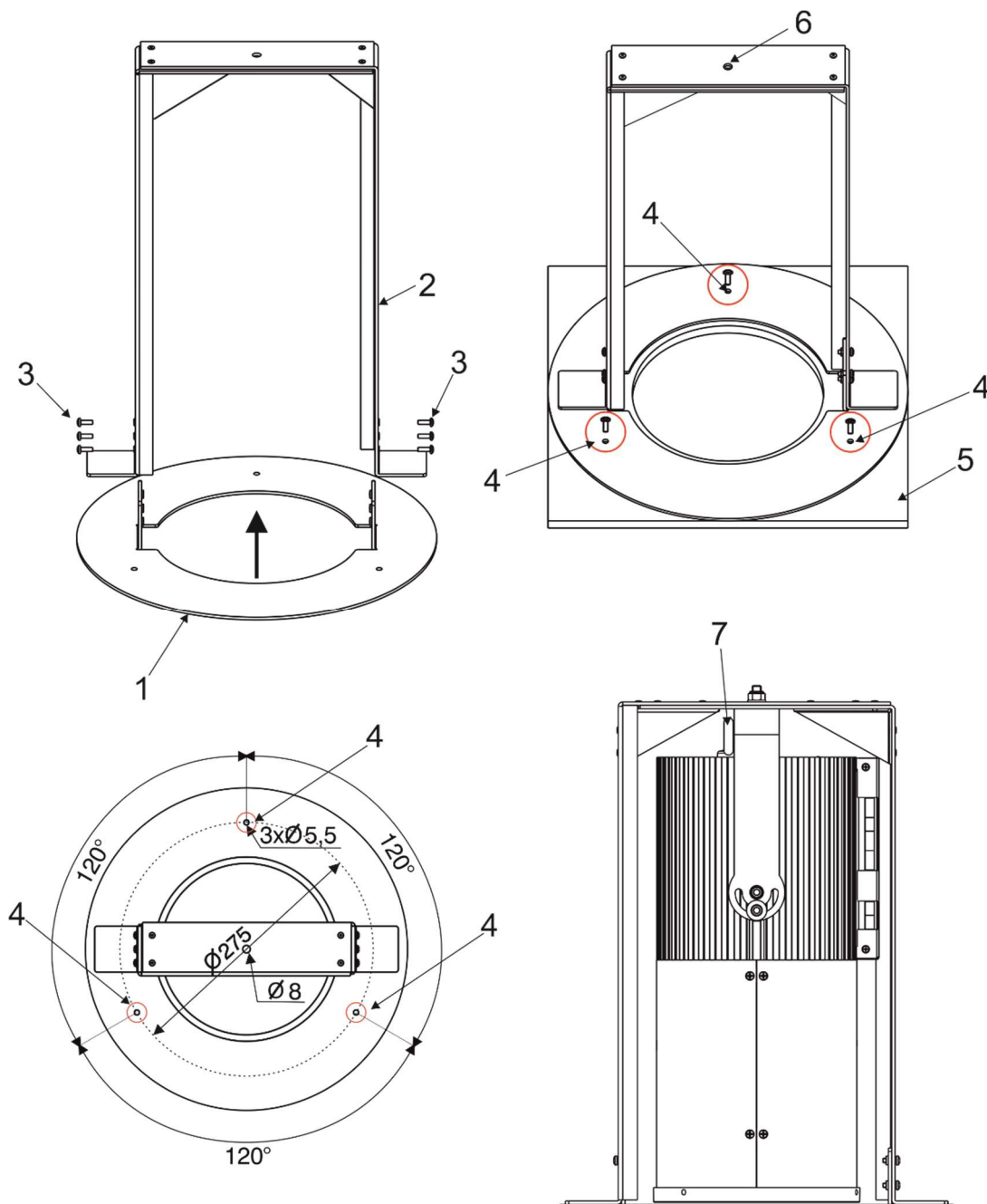


### 4.3 False ceiling mounting adaptor installation

1. Insert the bottom part (1) of the false ceiling mounting adaptor into the top part (2) of the false ceiling mounting adaptor and secure it by means of three screws M4x12 (3) /screws are enclosed with the false ceiling mounting adaptor/ on both sides of the installation tool.
2. Fasten the false ceiling mounting adaptor on the lower ceiling (5) by means of three holes (4) of diameter of 5.5 mm.

**The lower ceiling (or another structure) intended for installation of the false ceiling mounting adaptor(s) must safely hold at least 5 times weight of the Ambiane (s) XP56 Recessed placed on it.**

3. Insert the Ambiane XP56 Recessed into the false ceiling mounting adaptor and screw its yoke to the false ceiling mounting adaptor via the mounting hole (6) of a diameter of 8mm.
4. The Ambiane XP56 Recessed has to be secured to the ceiling (construction) via a safety wire pulled through the mounting lug (7). The Ambiane XP56 Recessed must not be secured to the false ceiling mounting adaptor.



## 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	0-255	<b>Red</b> Red LEDs saturation control (0-->100%)	proportional
-	-	2	-	-	0-255	<b>Red Fine</b> Red LEDs saturation control (0-->100%)	proportional
2	2	3	-	2	0-255	<b>Green</b> Green LEDs saturation control (0-100%)	proportional
-	-	4	-	-	0-255	<b>Green Fine</b> Green LEDs saturation control (0-->100%)	proportional
3	3	5	-	3	0-255	<b>Blue</b> Blue LEDs saturation control (0 -->100%)	proportional
-	-	6	-	-	0-255	<b>Blue Fine</b> Blue LEDs saturation control (0-->100%)	proportional
4	-	7	-	4	0-255	<b>White</b> White LEDs saturation control (0-->100%)	proportional
-	-	8	-	-	0-255	<b>White Fine</b> White LEDs saturation control (0-->100%)	proportional
-	-	9	1	-	0 1-127 128 129- 255	<b>Green correction</b> Uncorrected white Minus green --> uncorrected white Uncorrected white (128=default) Uncorrected white --> Plus green	step proportional step proportional
-	-	10	2	-	0 1-10 11-20 21-255	<b>Colour temperature correction (CTC)</b> No function (0=default) Tungsten dimming 2700 K Tungsten dimming 3200 K Colour temperature changing 2700 K--> 6500 K	step step step proportional
-	-	11	3	5	0-255	<b>Dimmer</b> Light intensity coarse (0-->100%)	proportional
-	-	12	-	6	0-255	<b>Dimmer Fine</b> Light intensity fine (min.-->max.)	proportional

DMX mode has to be set by RDM.

Variant TW, version 1.2

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

## Ambiane XP56 Recessed US

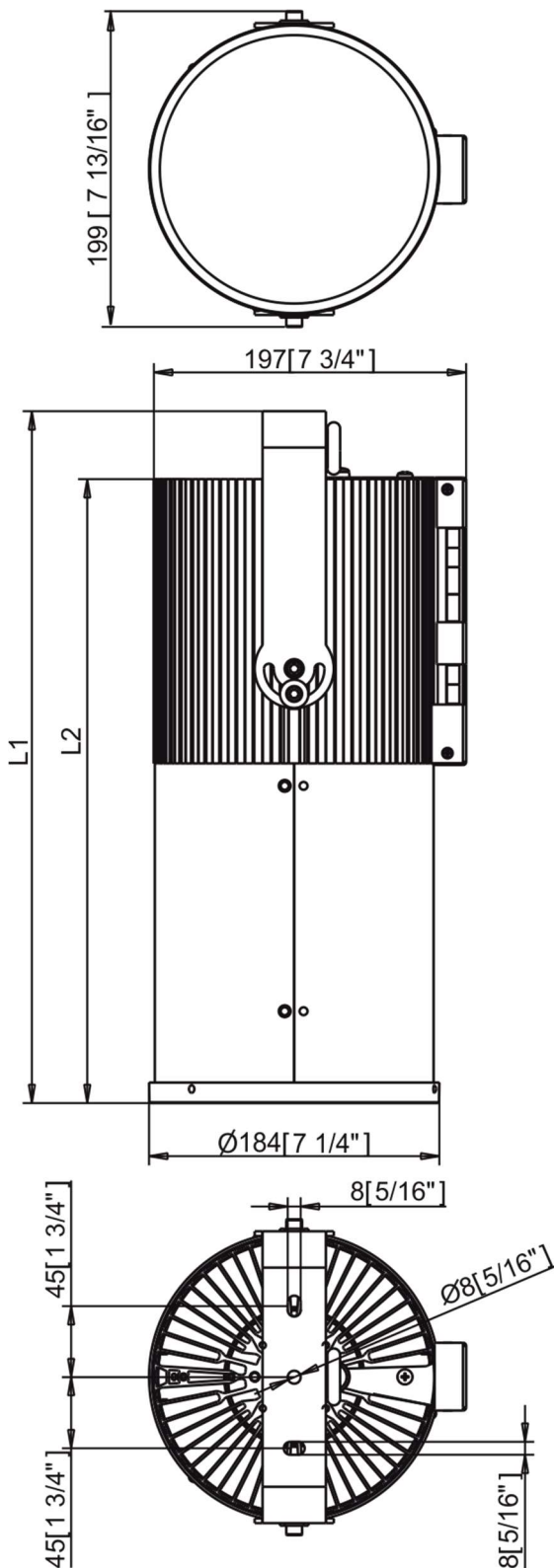
Variant TD, PW version 1.1

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

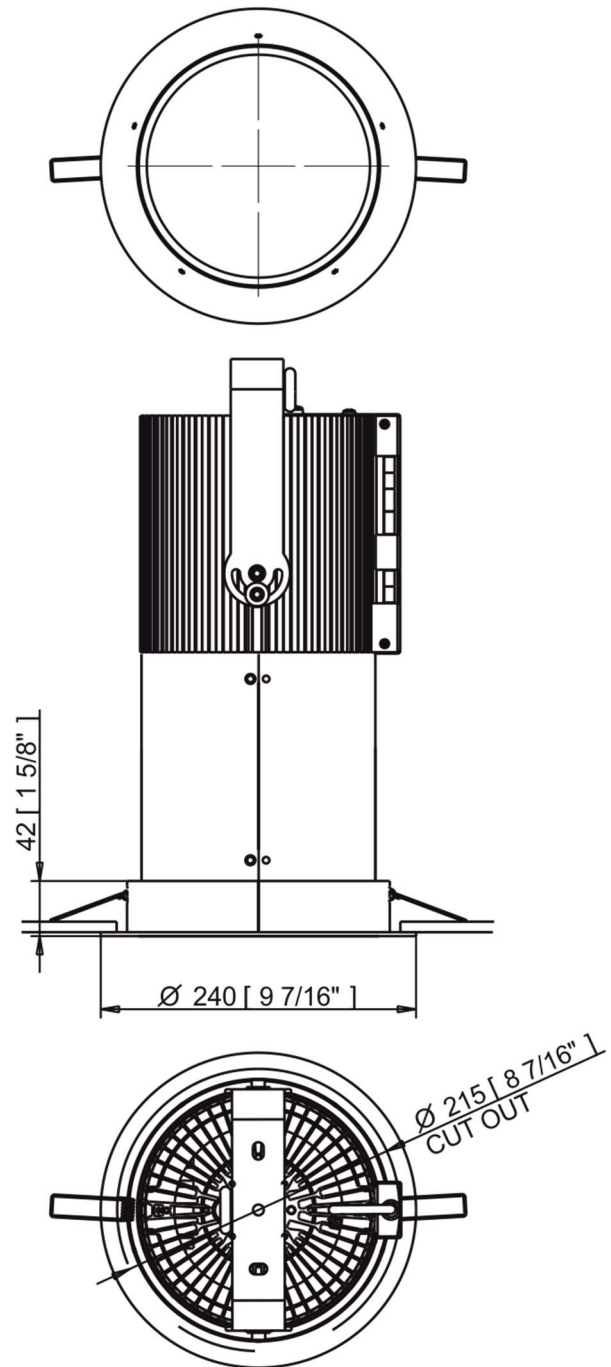
## 6. Technical specifications

Nominal input voltage:	48V DC
Input voltage range:	44-50V DC
Max. power consumption:	150W
Light source:	High Power LED module
Beam angle:	20°, 30°, 45°, 60°
Projected Lumen Maintenance:	L90B10 >90.000 hrs, Ta = 25°C / 77°F °F)
Colour Variants:	RGBW (W - 2700K or 4000K), Pure White, Tunable White, Tungsten Dim
CRI:	90+
Control:	DMX, DALI, 0-10V, RDM
Settings/Addressing:	DIP Switch, RDM
DMX channels (RGBW variant):	4 (Mode 1), 3 (Mode 2), 12 (Mode 3), 3 (Mode 4), 6 (Mode 5)
DMX channels (TW variant):	2 (Mode 1), 3 (Mode 2)
DMX channels (TD, PW variant):	2 (Mode 1), 2 (Mode 2)
Power supply:	Ambiane Power XP, Ambiane Power Rack US
Operating ambient temp. range:	-20 °C / +40 °C (-4 °F / +104 °F)
Operating Temperature:	+70 °C @ Ambient +40 °C (158 °F @ Ambient 104°F)
Total heat dissipation:	382 BTU/h (calculated)
Cooling:	convection
Housing:	High Pressure Die-Cast Aluminium Body
Weight:	
Ambiane XP56 20°	6.2 kg/ 13.66 lbs
Ambiane XP56 30°	6.2 kg/ 13.66 lbs
Ambiane XP56 45°	6.02 kg/ 13.27 lbs
Ambiane XP56 60°	5.9 kg/ 13 lbs
Installation method:	Recessed, via mounted bracket
IC rating:	non-IC rated
Power/DMX/DALI connection:	connectors
Protection factor:	Dry location only

**Dimensions**  
mm [inch]



Ambiane XP56 Recessed with Top frame



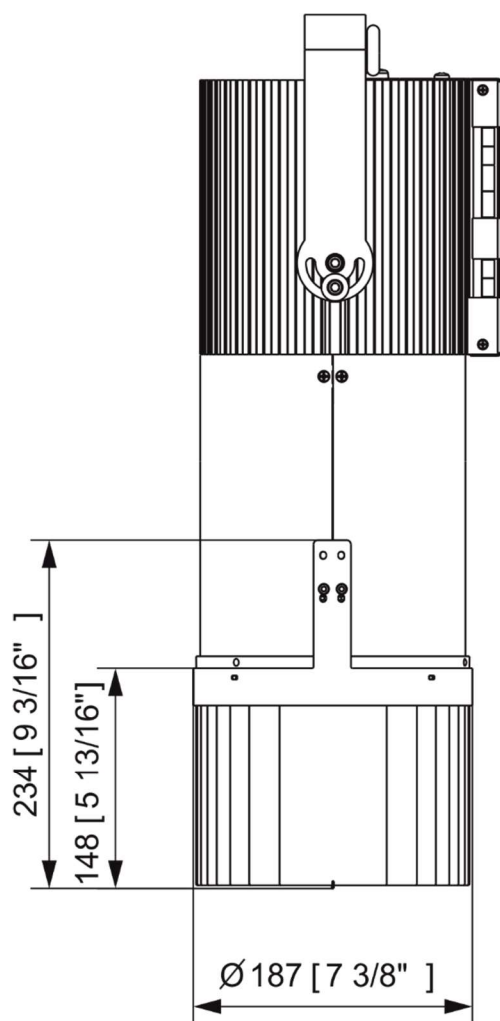
Dimension L1 depends on U-holder position  
 Ambiane XP56 20°/30°, L1=448 [17 5/8"] – 528 [20 13/16"]  
 Ambiane XP56 45°, L1=423 [16 5/8"] – 503 [19 13/16"]  
 Ambiane XP56 60°, L1=394 [15 1/2"] – 474 [18 11/16"]

Ambiane XP56 20°/30°, L2=395 [15 9/16"]  
 Ambiane XP56 45°, L2=370 [14 9/16"]  
 Ambiane XP56 60°, L2=341 [13 7/16"]

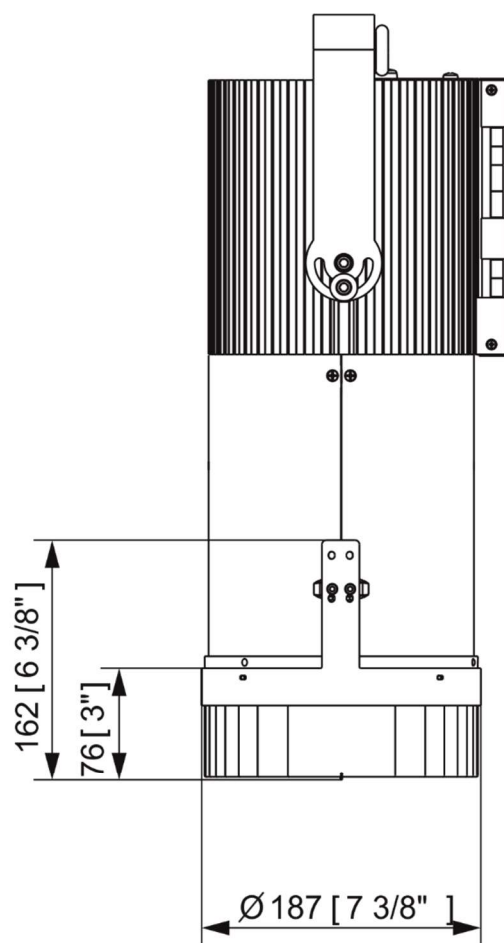


# Ambiane XP56 Recessed US

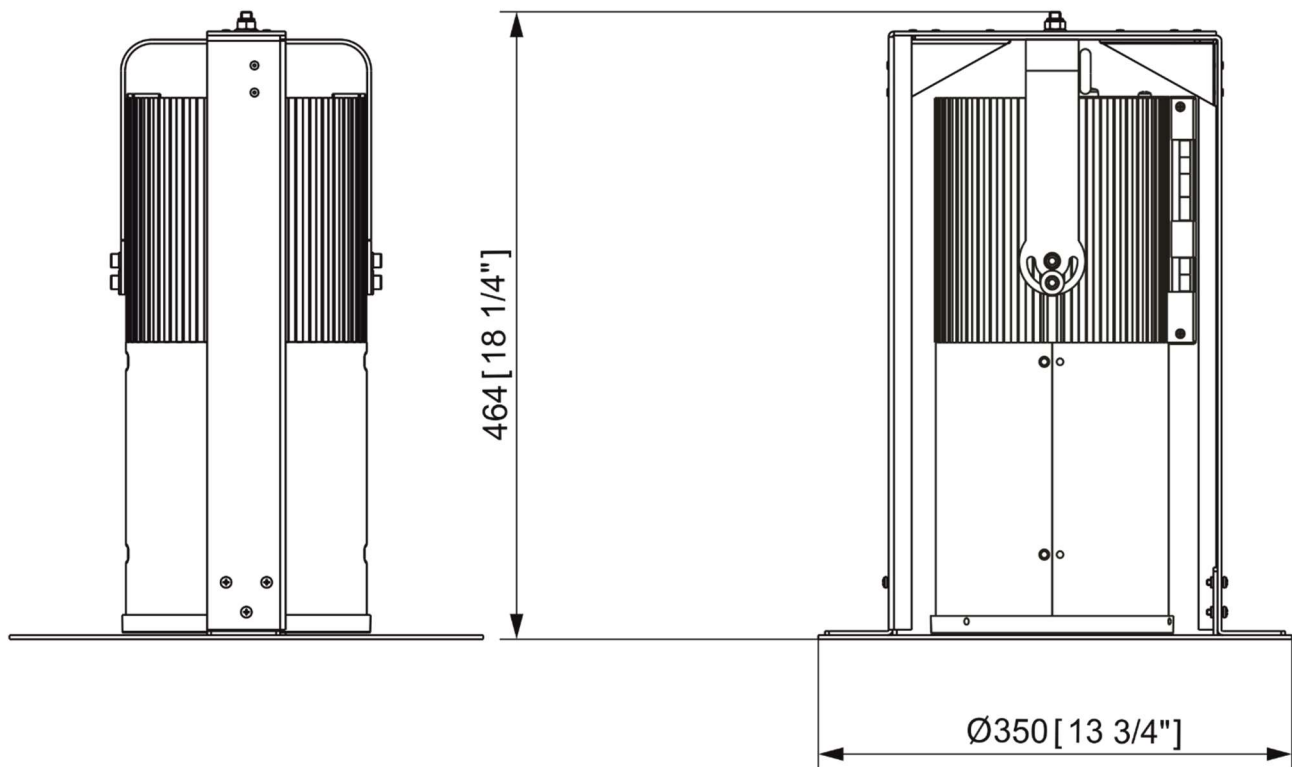
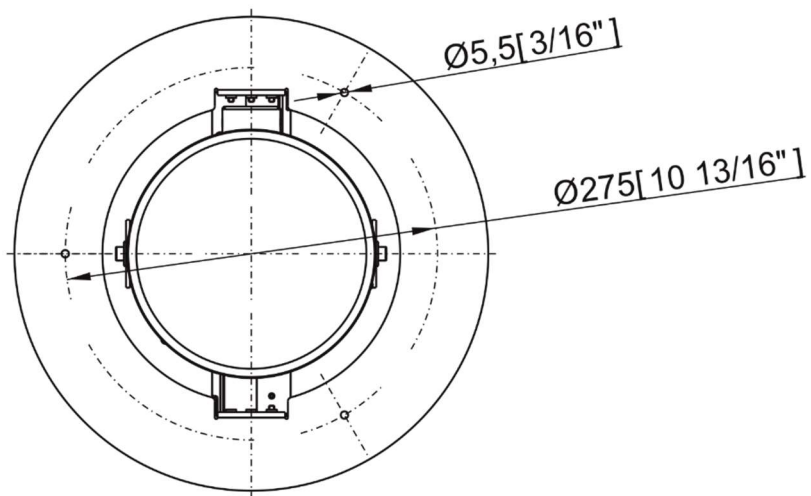
Ambiane XP56 Recessed with Louver 5°



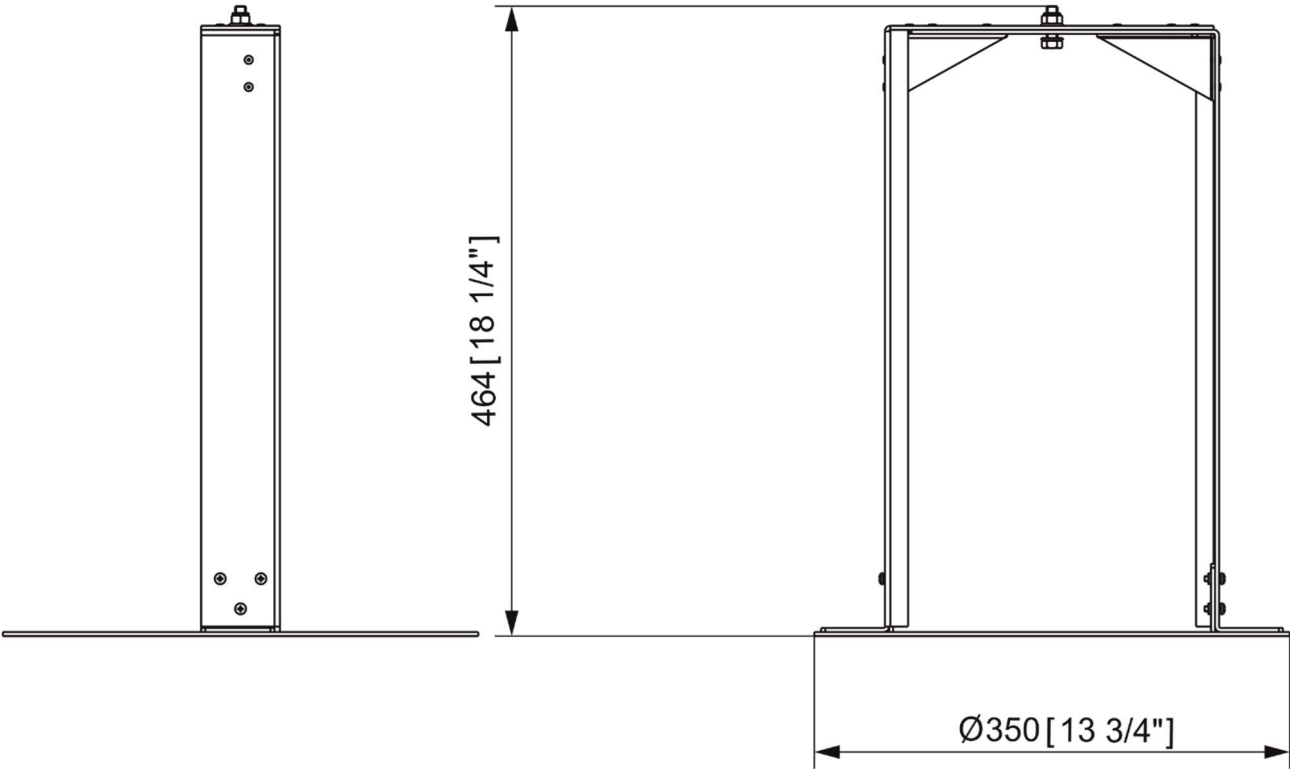
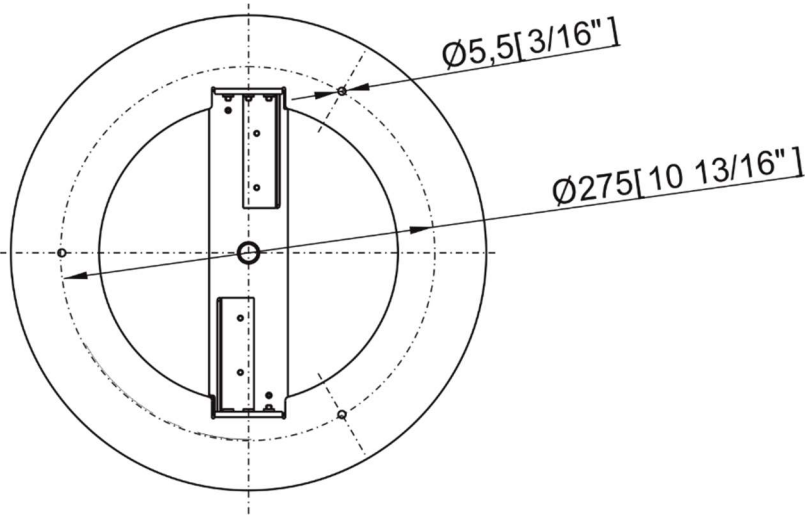
Ambiane XP56 Recessed with Louver 10°



Ambiane XP56 Recessed in the false ceiling mounting adaptor

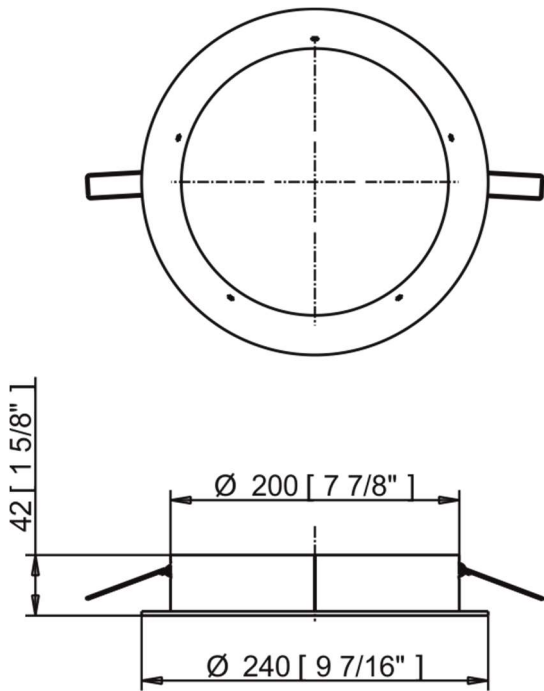


False ceiling mounting adaptor

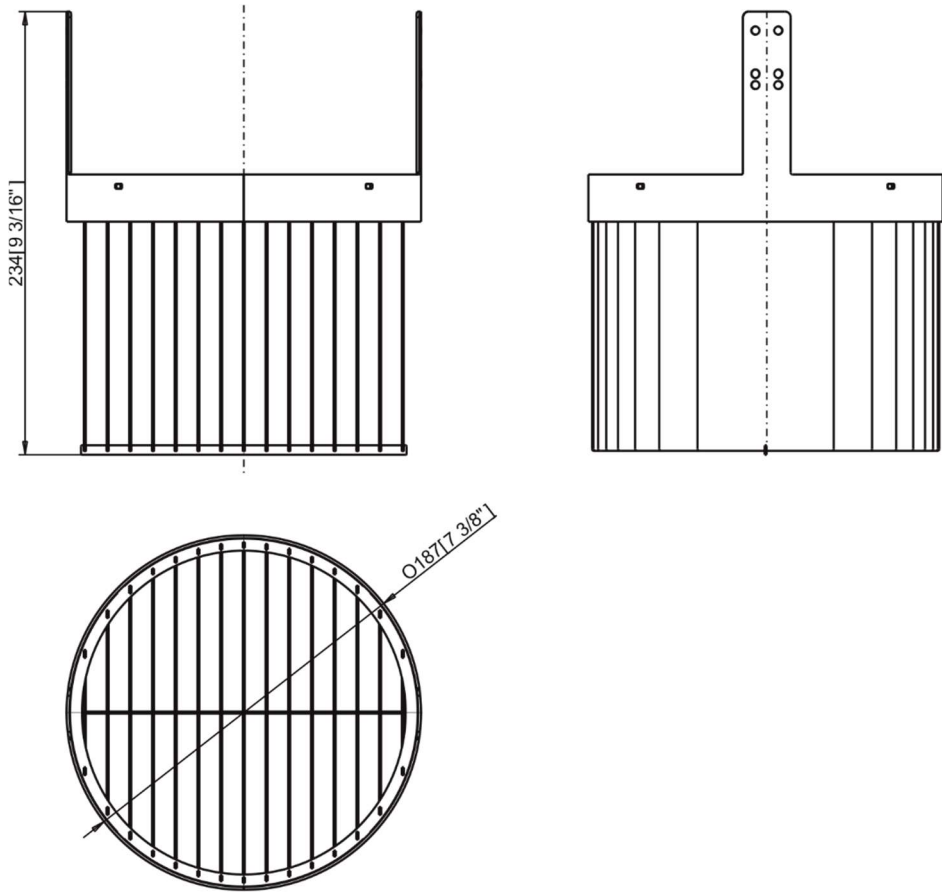


Ambiane XP56 Recessed US

Top frame for Ambiane XP Recessed

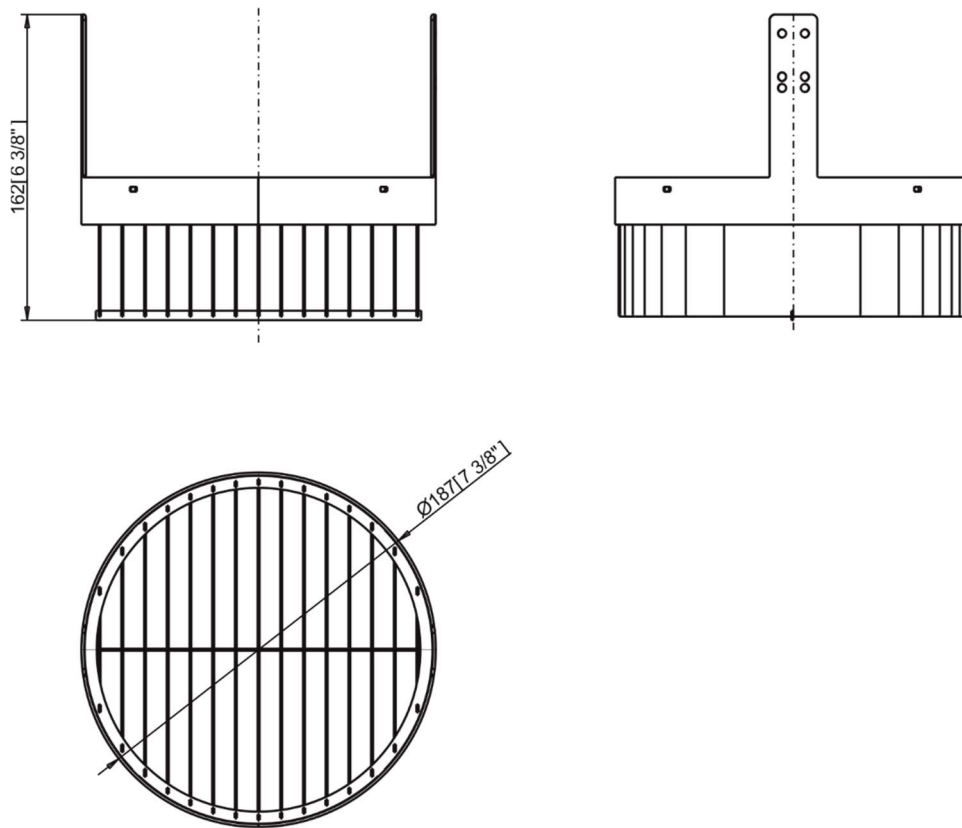


Louver 5° for Ambiane XP Recessed



## Ambiane XP56 Recessed US

Louver 10° for Ambiane XP Recessed



### Included items

- 1 x Ambiane XP56 Recessed US
- 1 x Set of cable connectors
- 1 x User manual

### Optional accessories

- Trim for Ambiane XP Recessed RAL 9005 (P/N 10980572)
- Louver 10° for Ambiane XP Recessed RAL9005 (P/N 10980533)
- Louver 5° for Ambiane XP Recessed RAL9005 (P/N 10980534)
- False Ceiling Mounting Adaptor for Ambiane XP56 Recessed (P/N 10980599)
- Ambiane Power XP (P/N 10063710)
- Ambiane Power Rack (P/N 10063951)
- Ambiane Power Rack US (P/N 10063873)
- False Ceiling Mounting Adaptor for Ambiane XP56 Recessed (RAL9005) (P/N 10980599)
- Adjustable False Ceiling Mounting Adaptor for Ambiane XP56 Recessed (RAL9005) (P/N 10980665)

## 7. Cleaning and maintenance

***Disconnect from power before starting any maintenance or cleaning work***

Keep the fixture clean, especially light source and the ribbed housing.  
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.

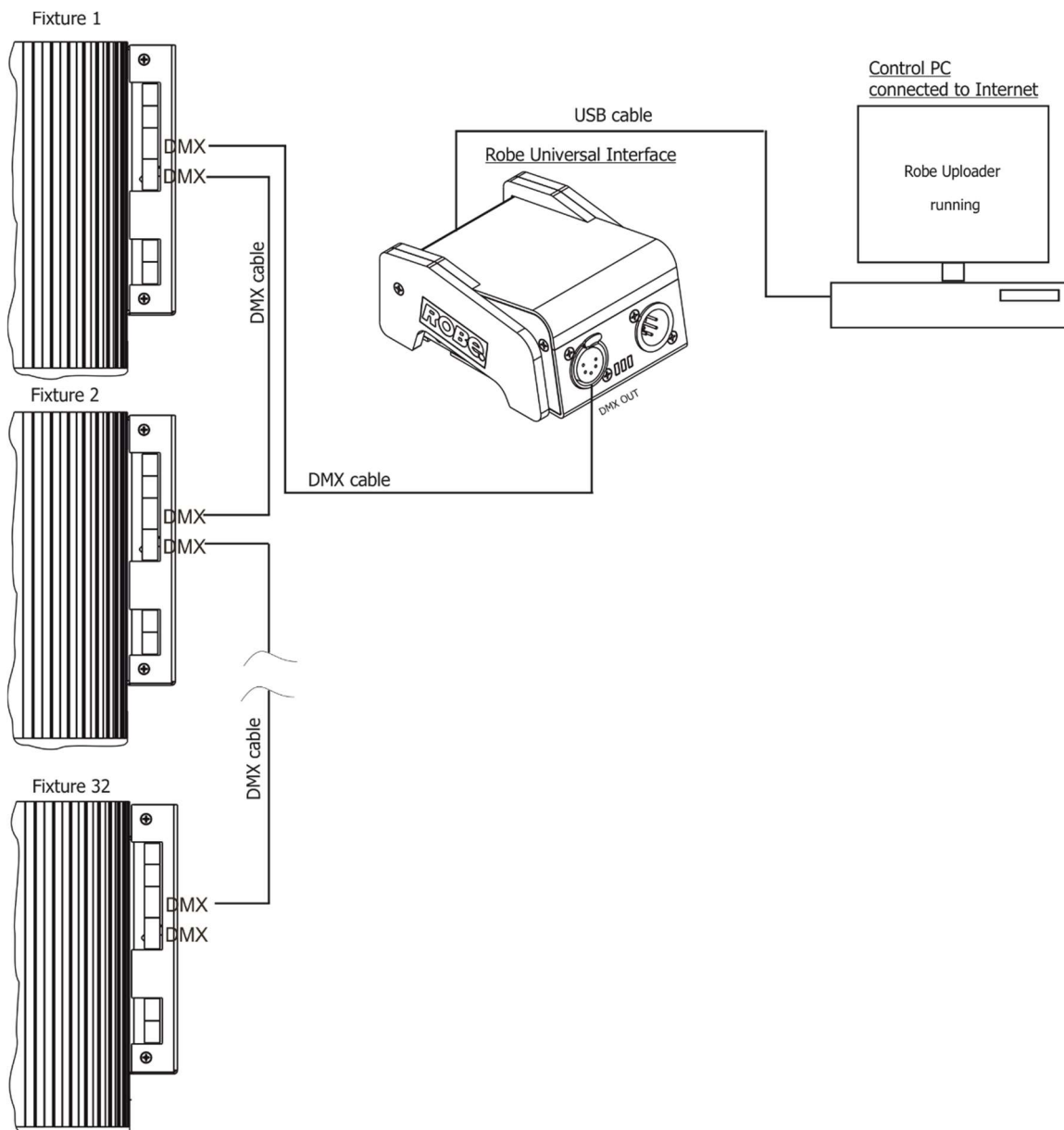
### 7.1 Software update

#### **Software update by means of the Robe Uploader.**

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

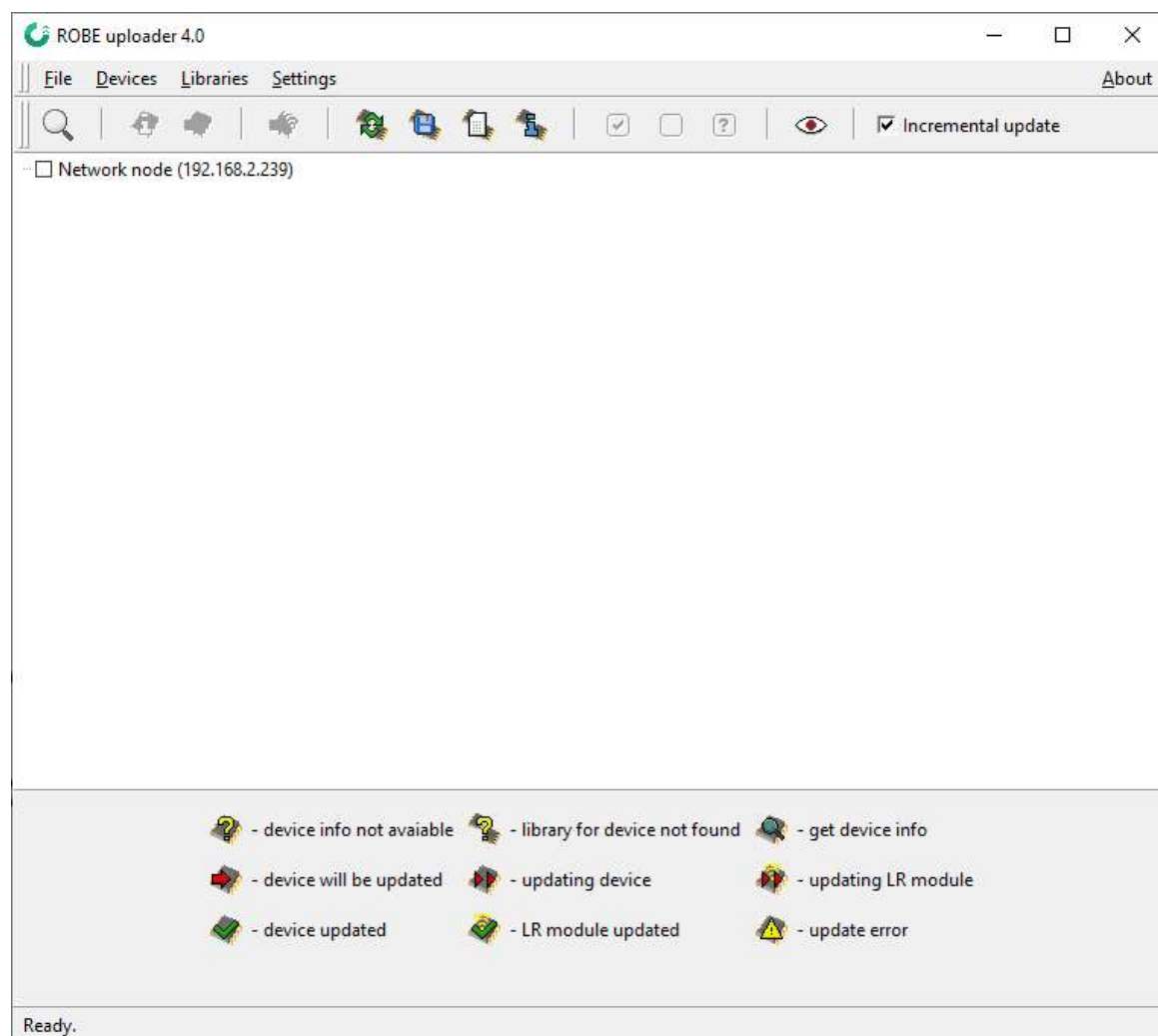
Note: Software update by means of the Robe Uploader cannot be used if fixtures are connected by means of DALI connection.

Example of connection:



The fixtures has 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.

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.

## 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.

*Specifications are subject to change without notice*

*November 28, 2023*

Made in CZECH REPUBLIC by ROBE LIGHTING s.r.o. Palackeho 416/20 CZ 75701 Valasske Mezirici