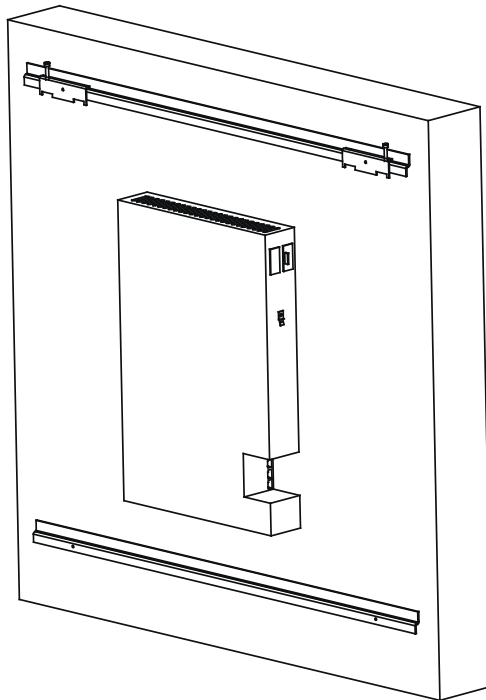


ANOLIS



ArcQube 324



USER MANUAL

Version 1.1

1.Safety instructions

Electrical equipment must be installed and fitted by qualified electricians only.

Failure to observe the instructions may cause damage to the device and result in fire or other hazards. Do not open the housing.

These operating instructions are part of the product and must be left with the final customer.

2.Device layout

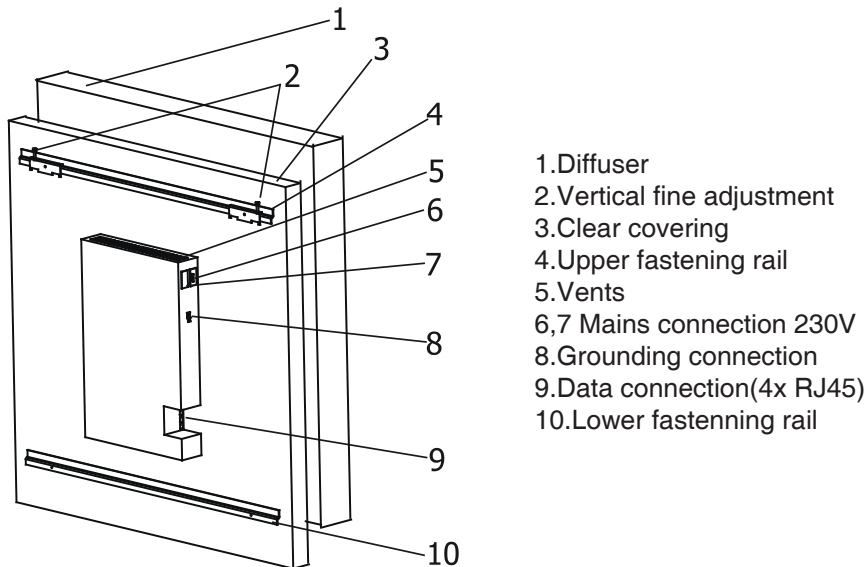


Fig. 1: ArcQube 324 rear view

3.Function

3.1 Designated use

- wall-mounted luminaire for indoor installation
- integration into light control systems
- optical and mechanical combination of several luminaires into large illuminated screens

3.2 Product features

- Different light colours, colour sequences and colour changes
- Integrated power supply
- Control by Robe media server qube control computer
- Assembly with rail system

For technical reasons in conjunction with the LED production process, brightness and colour tolerances between individual luminaires cannot be excluded.

4.Fitting and electrical connection

DANGER!
Electric shock in case of accidental contact with live parts.
Electric shocks can be fatal.
Before working on the device, cut out the mains supply and cover up live parts in the surroundings.

4.1 Fitting the device

The luminaire can be fitted alone or in a group of luminaires. The luminaire must be fitted on even surfaces. Uneven walls must be levelled out. The fitting rails can be arranged horizontally or vertically (Fig. 2).

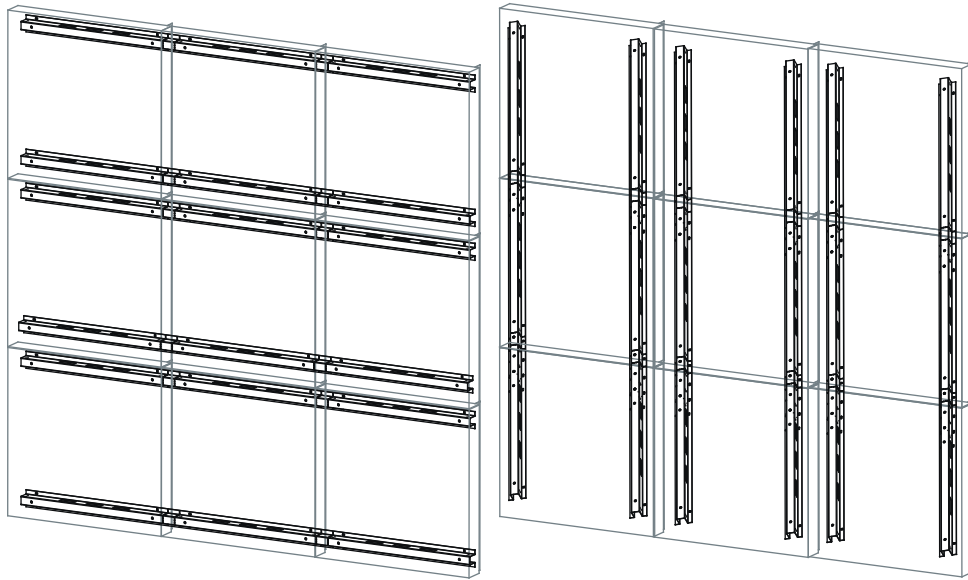


Fig.2: Horizontal and vertical mounting rails-overview

Observe the fitting dimensions (Figs. 4 ...7). Ensure sufficient cooling. Do not cover up the vents in the device (5) and in the mounting rail.

Make the necessary adjustments and cable connections before fitting the LED module (Data and power distribution)

1. Shorten the mounting rails to the required length.

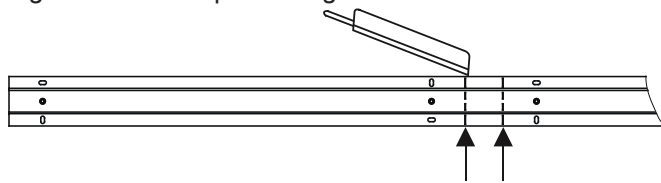


Fig.3: Shortening the mounting rail

2. Install the mounting rails.

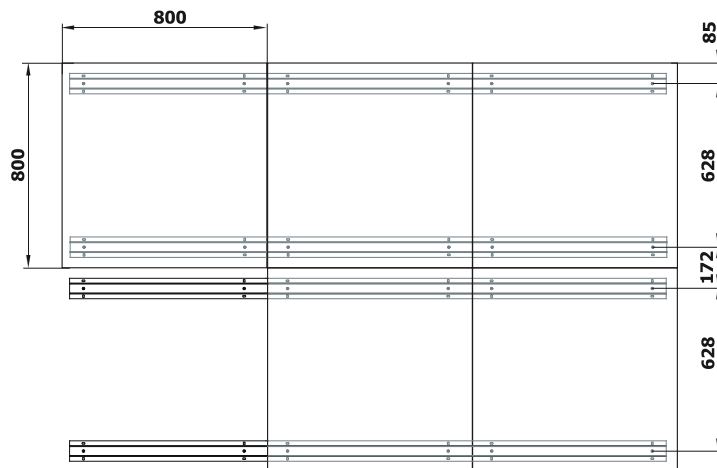


Fig.4: Horizontal mounting rails-dimensions

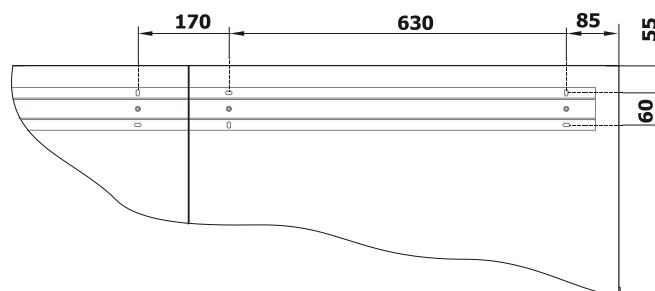


Fig.5: Horizontal mounting rail-drill pattern

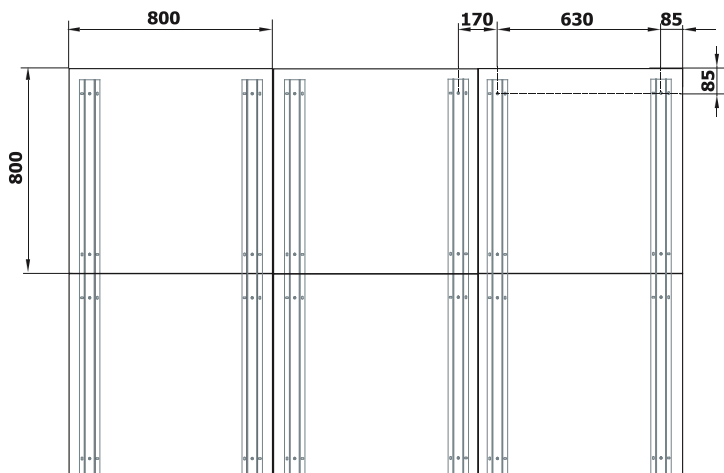


Fig.6: Vertical mounting rails-dimensions

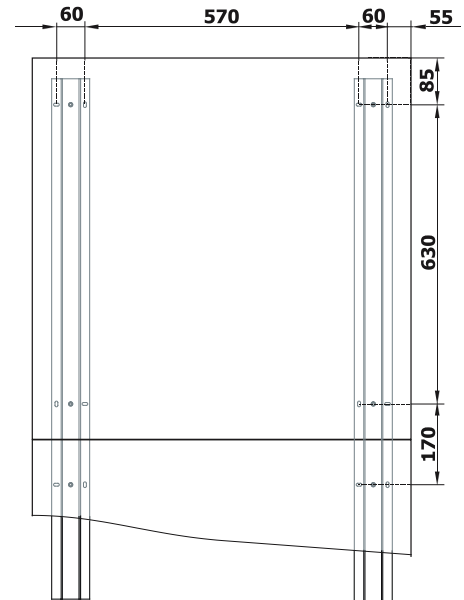


Fig.7: Vertical mounting rails-drill pattern

4. Hang the luminaire with the fastening rails (4,10) on the mounting rails. If the elements are installed in a group of luminaires, pay attention to wall spacing and venting (Fig. 12,13). Make vertical fine adjustments if necessary. Start from bottom to the top.

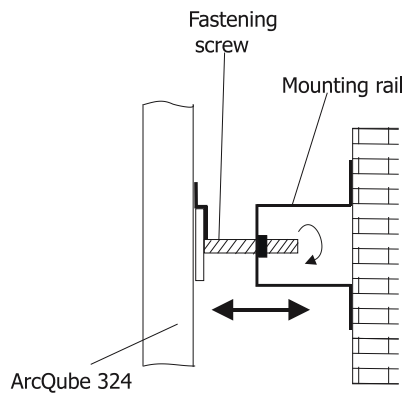


Fig.8: Suspension and wall-spacing adjustment.

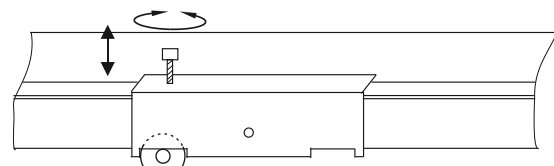


Fig.9: Vertical fine adjustment

5. Protect the luminaire against leaving the mounting rail.

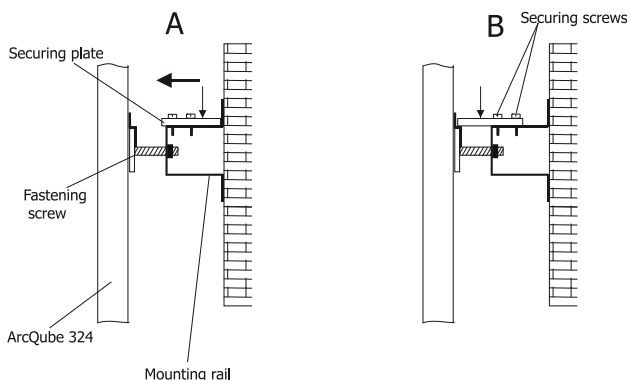


Fig.10: Horizontal mounting rail-unhinge protection

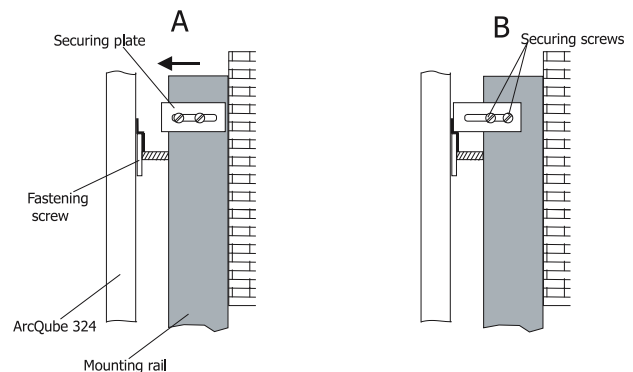


Fig.11: Vertical mounting rail-unhinge protection

6. Make the necessary electrical connections (device connection).

7. Install the side edge covering strips leaving at least a 5 mm-wide ventilation opening all around the luminaire(s).

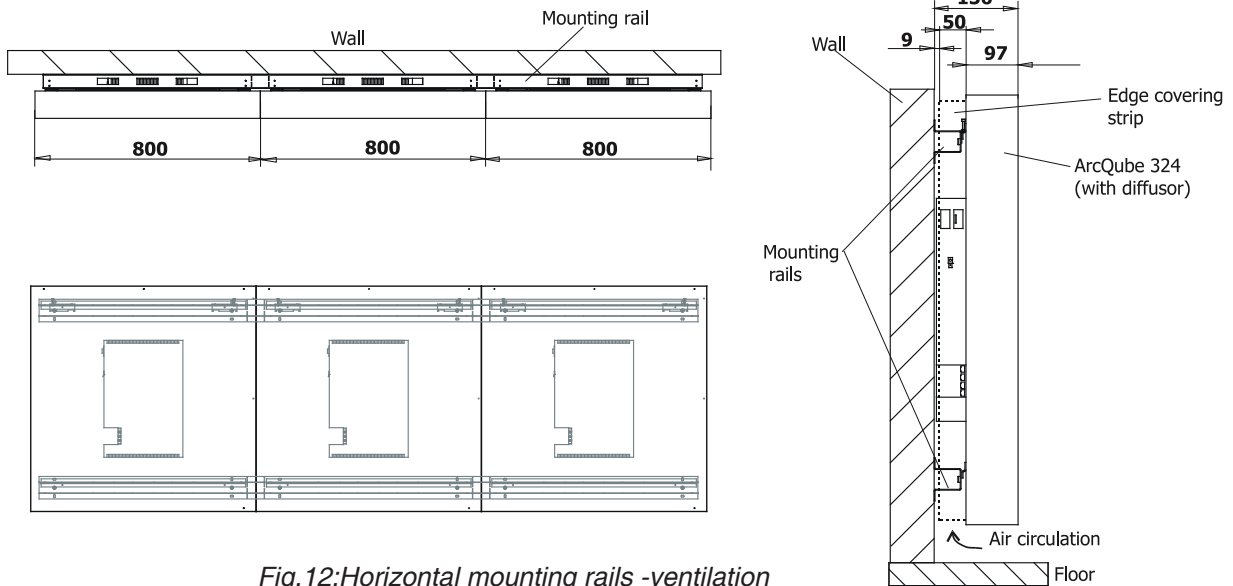


Fig.12:Horizontal mounting rails -ventilation

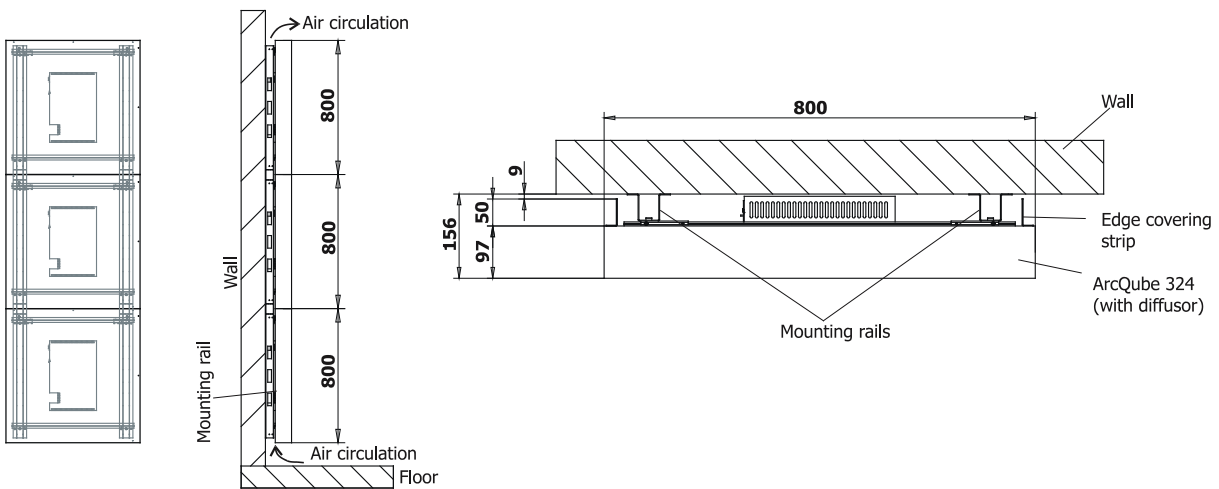


Fig.13:Vertical mounting rails -ventilation

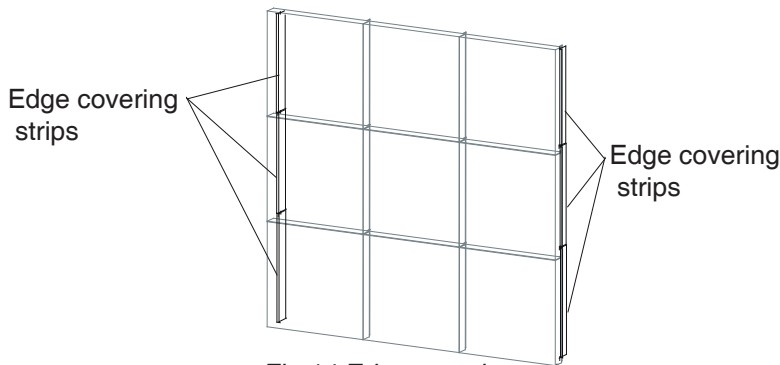


Fig.14:Edge covering strips

4.2 Connecting the device

Do not overload the 230 V supply and the connecting leads. Do not connect more than 8 ArcQube 324 luminaires to a one supply line.

Use only the 230 V connecting leads supplied with the luminaire. Replace defective leads only by the original leads of the manufacturer.

For connection to the mains supply use ArcQube 324 power cord (Accessories) and connect to the mains in compliance with the corresponding regulations.

CAUTION
Risk of damage to the supply leads.
Do not route the lines through the venting openings in the fastening rails.

Ensure equipotential bonding between ArcQube luminaire and mounting rail. Use the grounding connection (8).

Connect the mains supply.

Connect the data control line. Use the data connecting cable supplied with the device or a straight RJ45 patch cable.

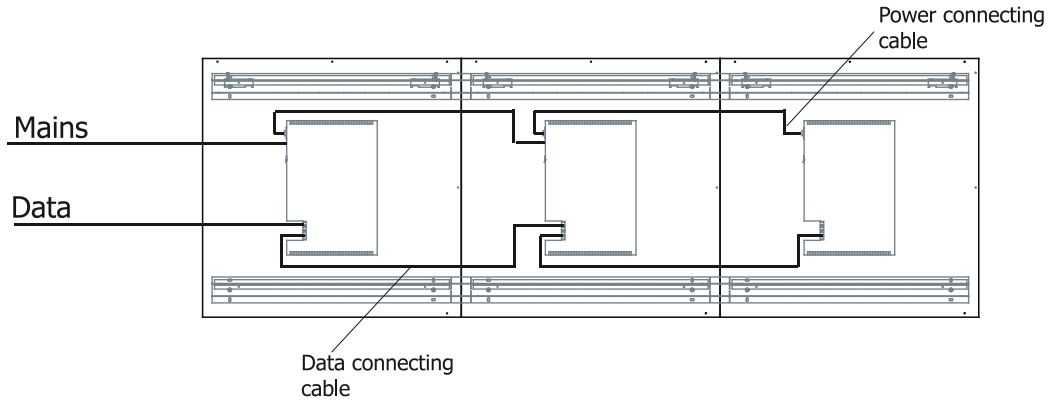


Fig.15:Power and data connection

5.Air ventilation

Space for air circulation is given by the height of vertical mounted rails. Do not cover the gap below and above the LED wall.

6.Dimensions (mm)

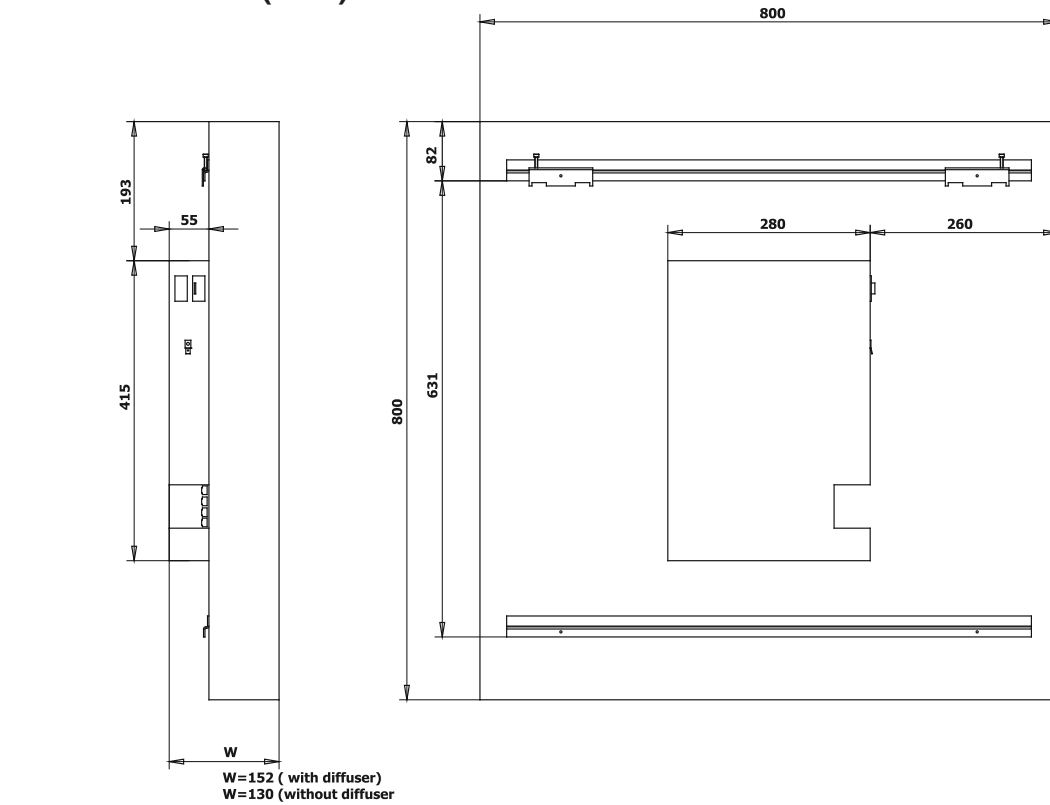


Fig.16:Dimensions of the ArcQube 324

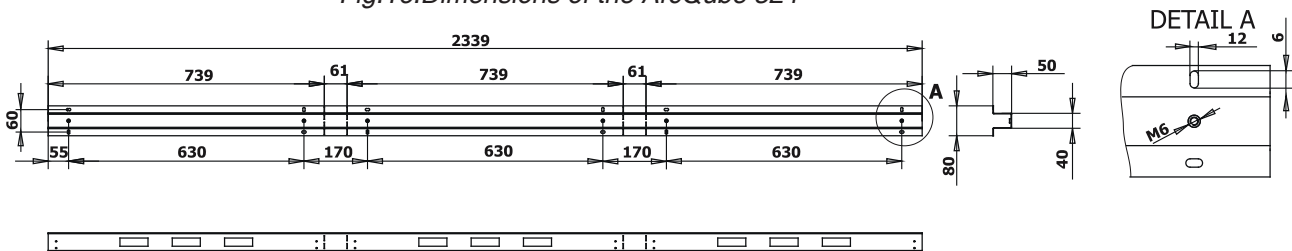


Fig.17:Dimensions of the mounting rail

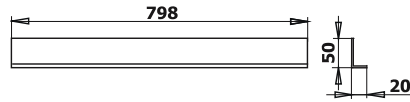


Fig.18:Dimensions of the edge covering strip

7. Technical specifications

Electrical

Integrated Power supply
 Rated voltage : AC 110...240 V@ 50/60Hz
 Power consumption: 220W max.
 Power factor: approx. 0.95
 Leakage current: <=360uA
 Number of devices per circuit breaker C16: 8

Construction

Dimensions: 800 x 800 x 130 mm (with diffusor: 800 x 800 x 152 mm)
 Robust metal framing
 In ammability: B1
 Type of protection:IP20
 Safety class: I

Weight

ArcQube 324: 16 kg
 Mounting rail (2.4m):4kg
 ArcQube 324+mounting rail (1.6m): approx.17.5 kg per LED module

Thermal

Ambient temperature: +5 °C ... +40 °C
 Storage temperature -25 °C ... +70 °C

Pixel

18 x 18 = 324 RGB – high efficiency LEDs (506,25 px/m²)
 Internal Resolution: 14 Bit
 SBAM Modulation
 Temperature compensated LED drivers

Optical

Clear covering (PETG with a transmission rate of 90%)
 Snap-on diffusor (PETG with a transmission rate of 80%)
 Beam angle without diffusor: approx. 120°, with diffusor: approx. 170°

Controlling

Input source: VGA at max. 60 frames/s
 One control Unit (Media Server QubeControl) grabs the input signal and distributes to all panels in the system
 Preview window in the Media Fusion QubeControl Software
 Very low latency (input-output: max. 50 ms)

Realtime parameters

Brightness 1-100% (255 steps. Exponential curve)
 Intensity red 1-100% (255 steps. Exponential curve)
 Intensity green 1-100% (255 steps. Exponential curve)
 Intensity blue 1-100% (255 steps. Exponential curve)
 Gamma 1.0 – 3.0 in steps of 0.1
 Release time 0 – 1.000 ms in steps of 4 ms
 LED frame rate 600 – 1.100 frames/s in steps of 2 frames/s
 Scaling factor of the grabbed videostream
 Frame size and position
 Size and form of the ArcQube 324 array

Startup procedure,wiring and controlling

Intuitive,graphical and fast startup without any manual addressing

Definition of non-rectangular arrays

Distribution of video data over 1GBase-T-Ethernet (cat 5e,6 or 7 cable)

Automatic brightness detection and optimization for maximum brightness of the array

Daisy chain of power cable for up to 8 ArcQubes 324

Integrated Ethernet switch with 4 Ethernet ports

8.Included items

ArcQube 324 incl.diffusor 80% transmission (No. 10070052).....1pc

ArcQube 324 power connecting cable (No. 10070060).....1pc

ArcQube 324 data connecting cable (No. 10070061).....1pc

Set Adjustment [4xscrew] (No.18060110).....1 pc

Set Look-Plate [2x plate+4x screw] (No.18060111).....1 pc

9.Optional accessories

Mounting rail 2.4m long.....No. 17050159

Edge covering stripNo .10980051

10.Maintenance access, replacement,cleaning

No maintenance is necessary for the LED modules. Replacement of one LED Module can be done easy by dismounting one raw from the top to the bottom. Exchange the complete LED-module by disconnecting data and power cable. Connect and mount the new one.

Regular cleaning of the clear covering (diffuser)will ensure the maximum light output,A soft lint-free cloth moistened with any good glass cleaning uid is recommended, under no circumstances should alcohol or solvents be used!

