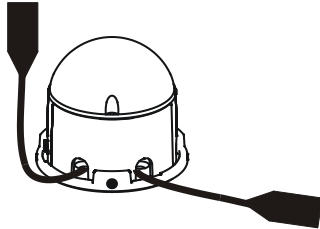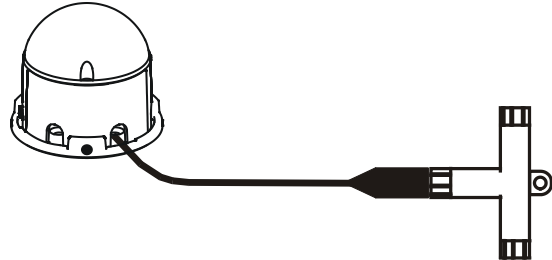# User instructions

ArcDotFlash-US

The Anolis ArcDotFlash-US is a white LEDs multichip based high powered LED fixture.
The unit´s high light output can be pixel mapped and therefore can be controlled and used for large scale matrix applications, as well as used for individual illuminating needs. Cast aluminium housing with frosted UV stable polycarbonate dome allows flexible solutions to both interior and exterior environments. The product is manufactured in two versions:

Version 1- with two supply cables   **Version 2**-with one supply cable and T-connector

1. Attention:

Do not install the module near high inflammable liquids or materials
Do not allow anything to rest on the module
Do not install the module near the naked flames
Do not install the module in dirty,dusty or badly ventilated location
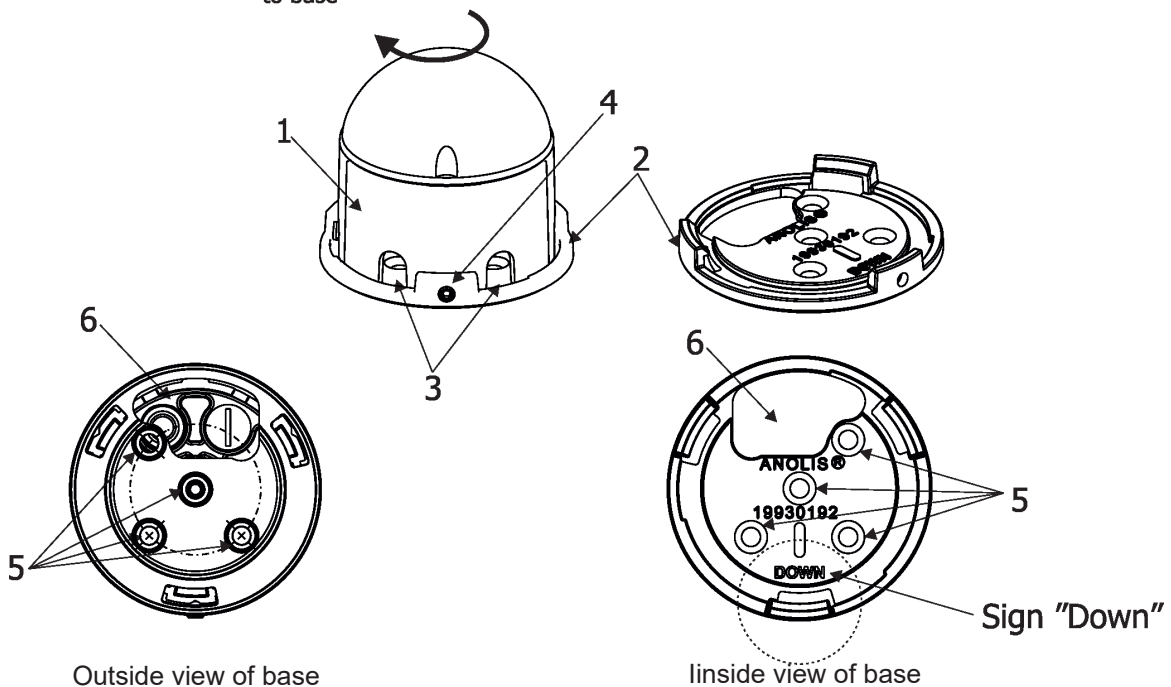Avoid using the unit in locations subject to possible impacts.
Avoid looking directly into the LED light beam at close range.
Warning: Operation of this equipment in a residential environment could cause radio interference.

2. Installation

Four holes (5) of diameter of 5.5mm in the ArcDotFlash base (2) serve for mounting the base on a non-flammable flat surface. The supply cable (s) can be led through the slots (3) in the housing (1) of the ArcDotFlash or through the aperture (6) in the ArcDotFlash base .
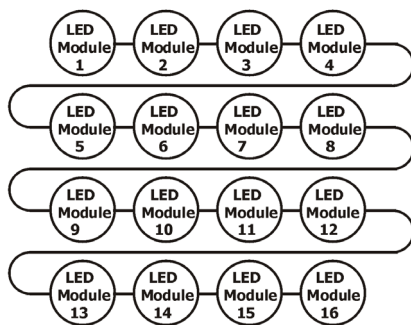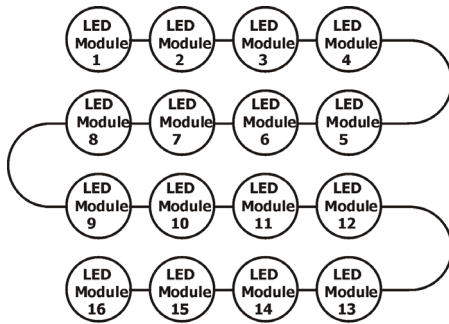
Turn right to fasten housing to base

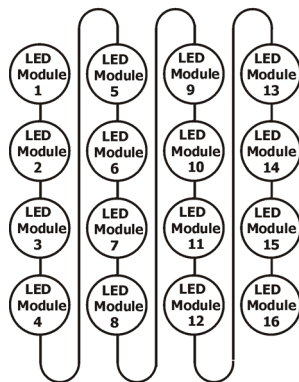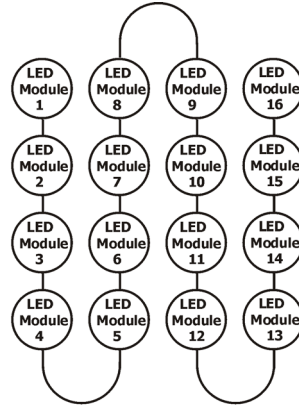Outside view of base   Iinside view of base

1. Fasten the ArcDotFlash´s base on the mounting surface. Keep its orientation as shown on the picture above (sign DOWN has to lead down).
2. Put the housing on the base, turn it to right and secure with screw M5 (4).
3. Connect ArcDots each other and to the power supply.

Use the following way for connecting of the ArcDotFlashes only (example for matrix of 4x4).

Horizontal sorting

Vertical sorting

3. Technical specifications

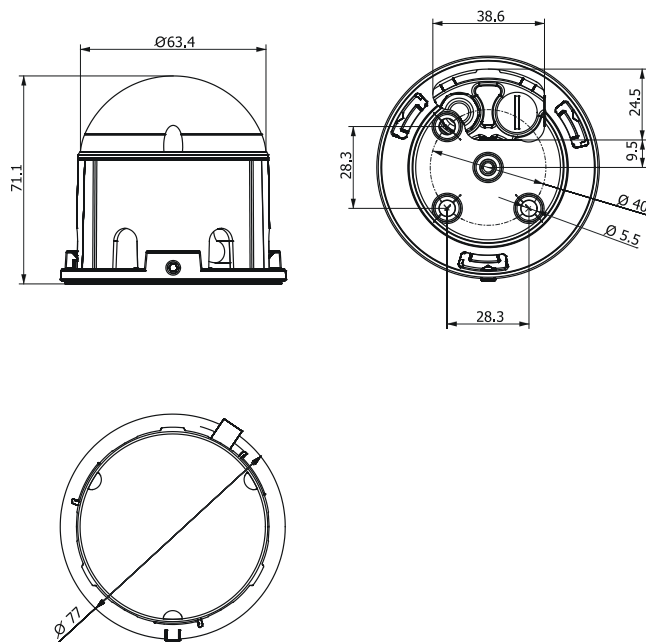|	
Light source:	8 x White LED multichip
Input voltage:	48V DC
Current consumption:	114 mA (average), 2A/100mSec. (max.)
Average power consumption:	5.5 W
Power supply:	30-50 V DC ;suitable for damp locations 30 V DC max. ;suitable for wet locations
Compatible power supplies:	ArcPixel Power-US, ArcPower Unit Pixel Rack Mount US, ArcPower Unit Pixel Wall Mount US, ArcPower Unit Pixel Rack Mount US LV, ArcPower Unit Pixel Wall Mount US LV, DRS
Typical Lumen maintenance:	70% @ 50.000 hours
Led life expectancy:	minimum 50.000 hours
Temperature protection:	Internal chip protection against overheating
Flash energy:	Equivalent to 10 Joule in Xenon Flash
Design:	
Housing & base:	cast aluminium
Dome:	frosted polycarbonate
Cooling system:	convection
Surface operating temperature:	+40°C @ ambient 25°C
Ambient operating temp.range:	-20°C/+50°C
Weight:	0.2 kg
Mounting:	via 5 holes in fixture base
IK Rating	IK 07
Weight:	0.2 kg
Mounting:	via 5 holes in base
Data cables:	Li9Y11Y, 2xAWG16+1xAWG 20(length according requirement, standard length is 0.25m IN and 0.18m OUT)

Connectors:
Version 1: 1x Chogori CGRBB-03BMMA-SL8001 (male); 1x Chogori CGRBB-03BFFA-SL8001 (female)
Version 2: 1x Chogori CGRBB-03BMMA-SL8001 (male), 1x T-connector Chogori T-CGRBA-030303FFM-TS
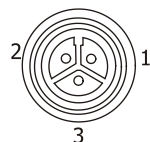
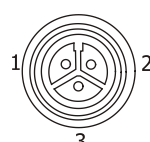Dimensions (mm):

4. Wiring of ArcDotFlash connectors

Input	**Output**
Chogori CGRBB-03BMMA-SL8001 (male)	Chogori CGRBB-03BFFA-SL8001 (female)

1 GND (blue wire)
2 +48V (red wire)
3 Data (orange wire)

1 GND (blue vire)
2 +48V (red wire)
3 Data (orange wire)

5. DMX protocol

version 1.1

Channel	Value	Function	Type of control
		ArcDotFlash 1	
1	0-127 128 129-255	**Strobe** Synchronous flashing from slow to fast (0.02Hz-20Hz) Permanent lit Random flashing from slow to fast (2.2 flashes/minute-28 flashes/minute)	proportional step proportional
2	0-255	**Dimmer** Light intensity from 0% to 100%	proportional
		ArcDotFlash 2	
3	0-127 128 129-255	**Strobe** Synchronous flashing from slow to fast (0.02Hz-20Hz) Permanent lit Random flashing from slow to fast (2.2 flashes/minute-28 flashes/minute)	proportional step proportional
4	0-255	**Dimmer** Light intensity from 0% to 100%	proportional
		:	
		ArcDotFlash 48	
95	0-127 128 129-255	**Strobe** Synchronous flashing from slow to fast (0.02Hz-20Hz) Permanent lit Random flashing from slow to fast (2.2 flashes/minute-28 flashes/minute)	proportional step proportional
96	0-255	**Dimmer** Light intensity from 0% to 100%	proportional

6. Accessories

(P/N 13051564) T-connector Chogori T-CGRBA-030303FFM-TS /for product version 2 only/ 1x
(P/N 13052784) Cable Connection DRS/RU Pixel (CGR-F/bare,3pin, 1.5m)*
(P/N 13052738) Cable Connection DRS/RU Pixel (CGR-F/bare,3pin, 0.2m)*
(P/N 1305 2023) Connection cable ArcDot, 2m *
(P/N 1305 2024) Connection cable ArcDot, 4m*
(P/N 1006 2330) Active Terminator for ArcDot*
(P/N 1006 2331 Passive Terminator for ArcDot*

* quantity depends on size of installation