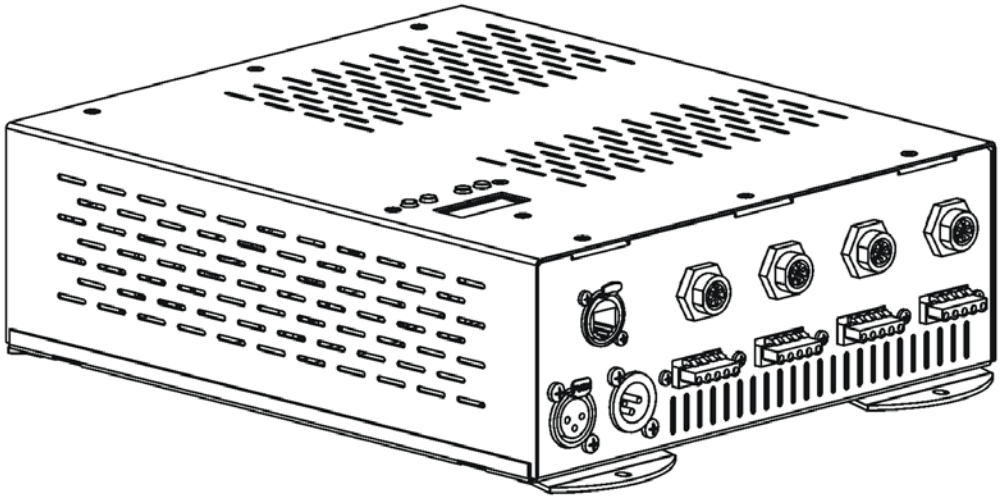
ArcPix Power



USER MANUAL

Version 1.3 CE

ArcPix Power

Table of contents

CAUTION!
Unplug mains lead before opening the housing!

FOR YOUR OWN SAFETY, PLEASE READ THIS USER MANUAL CAREFULLY BEFORE YOU INITIAL START - UP!

ATTENTION!
Débrancher l'appareil avant d'ouvrir le boîtier!

POUR VOTRE SÉCURITÉ, LISEZ ATTENTIVEMENT CETTE NOTICE AVANT LA PREMIERE UTILISATION

1. Important safety instructions

Every person involved with installation and maintenance of this product has to:
- be qualilfied
- **follow the instructions and heed all warnings in this manual**

CAUTION!
Be careful with your operations. With a high voltage you can suffer a dangerous electric shock when touching the wires inside the unit!

This product 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 manual.

WARNING
To prevent injury, this apparatus must be securely installed in accordance with the installation instructions."

Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.

Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.

Do not use this apparatus near water. Clean only with dry cloth.

Only use attachments/accessories specified by the manufacturer.

Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.

Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

Use a source of AC power that complies with local building and electrical rules. AC power has to have both overload and short circuit protection.

***This device falls under protection class I.Therefore the ArcPixPower has to be connected to a mains socket outlet with a protective earthing connection*!**

This device is for professional use only. It is not for household use.

1. Consignes de sécurité importantes

Toute personne impliquée dans l'installation et la maintenance de ce produit doit:
- Être suffisamment qualifié
- Suivre les instructions de ce manuel

ATTENTION!
Soyez prudent avec vos manipulations. Avec une haute tension, vous risquez un choc électrique en touchant les fils à l'intérieur de l'appareil!

Ce produit a quitté nos ateliers dans un état irréprochable. Afin de maintenir cet état et pour assurer un bon fonctionnement, il est absolument nécessaire de suivre les consignes de sécurité et les notes contenues dans ce manuel.

AVERTISSEMENT
Pour éviter toute blessure, cet appareil doit être solidement fixé à en conformité avec les instructions d'installation. "

Ne pas bloquer les ouvertures de ventilation. Installer conformément aux instructions du fabricant.

Ne pas installer près de sources de chaleur telles que radiateurs, ou autres appareils (y compris les amplificateurs) produisant de la chaleur.

Ne pas utiliser cet appareil près de l'eau. Nettoyer avec un chiffon sec.

Une prise de branchement ou un coupleur est utilisé comme dispositif de déconnexion, ce dispositif doit rester facilement accessible.

N'utilisez que des accessoires spécifiés par le fabricant.

Protégez le cordon d'alimentation du piétinement ou pincement, particulièrement au niveau des fiches, des prises, et le point où ils sortent de l'appareil

Confiez toute réparation à un personnel qualifié. Une réparation est nécessaire lorsque l'appareil a été endommagé de quelque façon que ce soit. cordon d'alimentation, fiche est endommagé, liquide renversé a l interieur, ou des objets sont tombés dans l'appareil, l'appareil a été exposé à la pluie ou à l'humidité, ne fonctionne pas normalement , ou s'il est tombé.

Utilisez une source de courant alternatif qui est conforme a l'endroit ou vous vous trouvez. La source alternative doit avoir à la fois une protection de surcharge et de court-circuit.

Ce dispositif relève de la classe de protection I. Par conséquent, la ArcPixPower doit être connecté à une prise électrique reliée à la terre!

2. Operating determinations

This product was designed for indoor use only.

If the unit has been exposed to drastic temperature fluctuation (e.g. after transportation), do not switch it on immediately. The arising condensation water might damage your unit. Leave the unit switched off until it has reached room temperature.

Avoid brute force when installing or operating the unit.

When choosing the installation spot, please make sure that the unit is not exposed to extreme heat, moisture or dust.

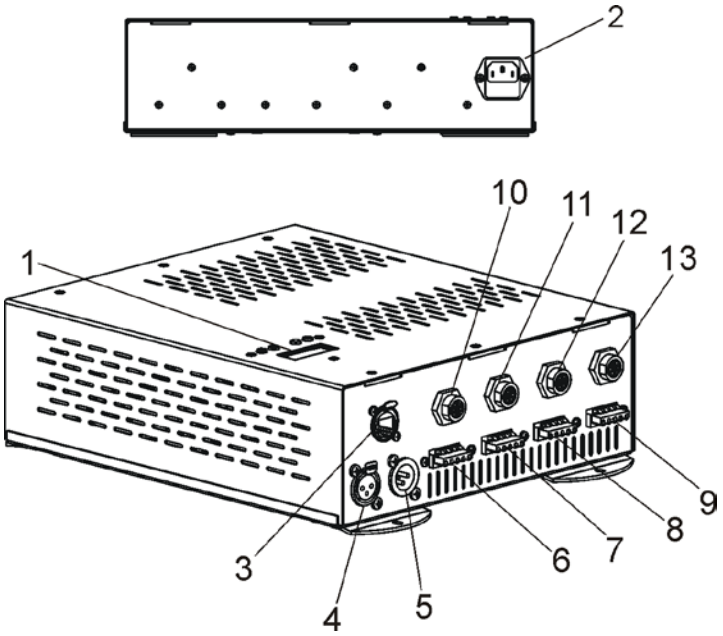
Only operate the unit after having checked that the housing is firmly closed and all screws are tightly fastened.

The maximum ambient temperature 40° C must never be exceeded.

Operate the unit only after having familiarized with its functions. Do not permit operation by persons not qualified for operating the unit. Most damages are the result of unprofessional operation!

Please use the original packaging if the product is to be transported.
Please consider that unauthorized modifications on the unit are forbidden due to safety reasons!

3. Description of the ArcPix Power



1 - Control board
2 - Power socket
3 - Ethernet
4 - DMX Output
5 - DMX Input
6 - ArcPix output 4
7 - ArcPix output 3
8 - ArcPix output 2
9 - ArcPix output 1
10 - ArcDot output 4
11 - ArcDot output 3
12 - ArcDot output 2
13 - ArcDot output 1

4. Installation

CAUTION!
These servicing instructions are for use by qualified service personnel only. To reduce the risk of electric shock do not perform any servicing other than that contained in the operating instructions unless you are qualified to do so.

4.1. Connection to the mains:

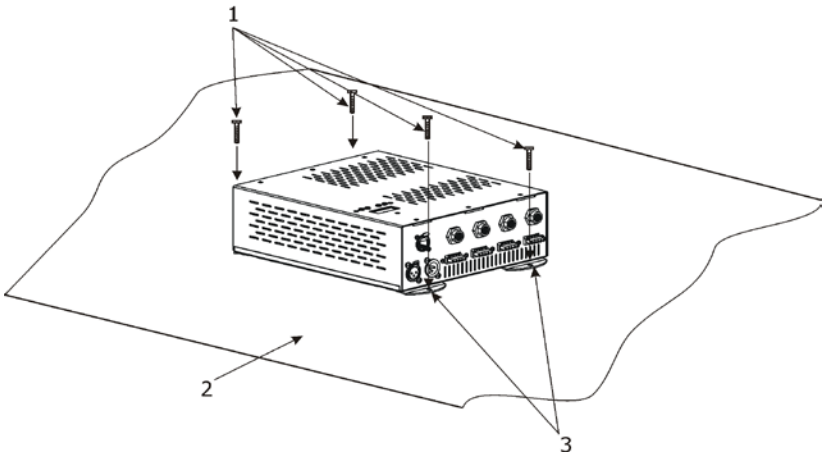
The ArcPix Power is equipped with auto-switching power supply that automatically adjusts to any 50-60Hz AC power source from 100-240 Volts. The fixture must be grounded.
Connect the fixture to the mains with enclosed power cord.

This device falls under protection class I. Therefore the ArcPix Power has to be connected to a mains socket outlet with a protective earthing connection.

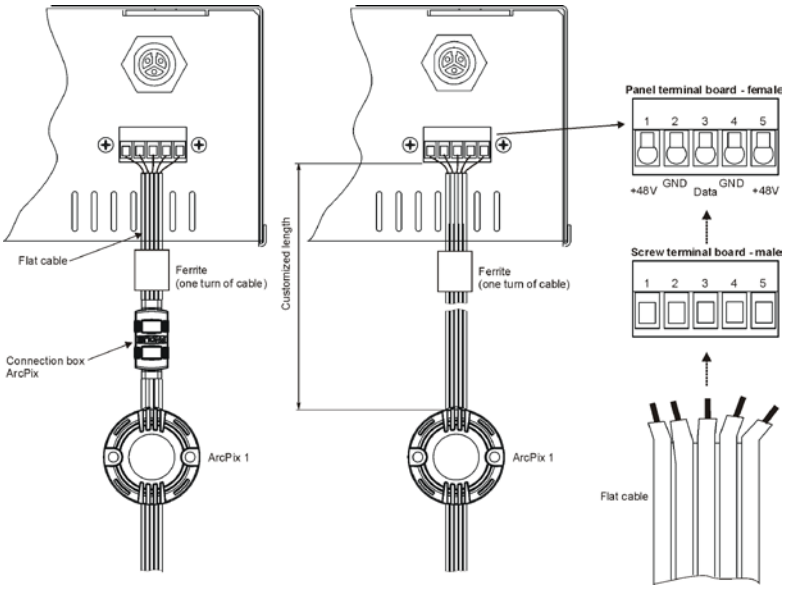
4.2. Mounting the ArcPix Power

The ArcPix Power should be be placed on a non-flammable flat surface in any orientation and fixed by the four screws.There are four mounting holes of a dimension of 5x7 mm in housing of the driver. Ensure that installation place is enough ventilated.

1-Screws
2- flat surface
3-mounting holes



4.3. Connecting ArcPixes



Connect ArcPixes to the LED outputs of the ArcPix Power. The first ArcPix in the ArcPix chain can be connected to the screw terminal board on the ArcPix Power either via connection box or via customized cable length (has to be specified at order). Maximum length between the ArcPix power and the last ArcPix must not exceed 100 metres. For larger installation, the ArcPixPower should be connected to the Robe Media Server which allows automatic pixel mapping and full control of the ArcPixes modules.

Placing ferrites

The ferrite CSA19/9.4/29-4S60-EN (S/N 1305 1312) with one turn of the flat cable has to be placed on the cable at each ArcPix output of the ArcPix Power, and this ferrite (without cable turn - cable goes directly through ferrite, ferrite cover is snapped only) has to be placed after each thirtieth Arcpix in the ArcPix line (e.g. 100 ArcPixes per output = 3 ferrites in a line + 1 ferrite with a cable turn at the ArcPix output). You should count 100mm of the cable length per one cable turn on ferrite.

The ArcPix line ferrites (between ArcPixes) have to be placed on the flat cable before mounting of ArcPixes on an installation surface.

To connect ArcPixes

1. Disconnect ArcPix Power from mains.

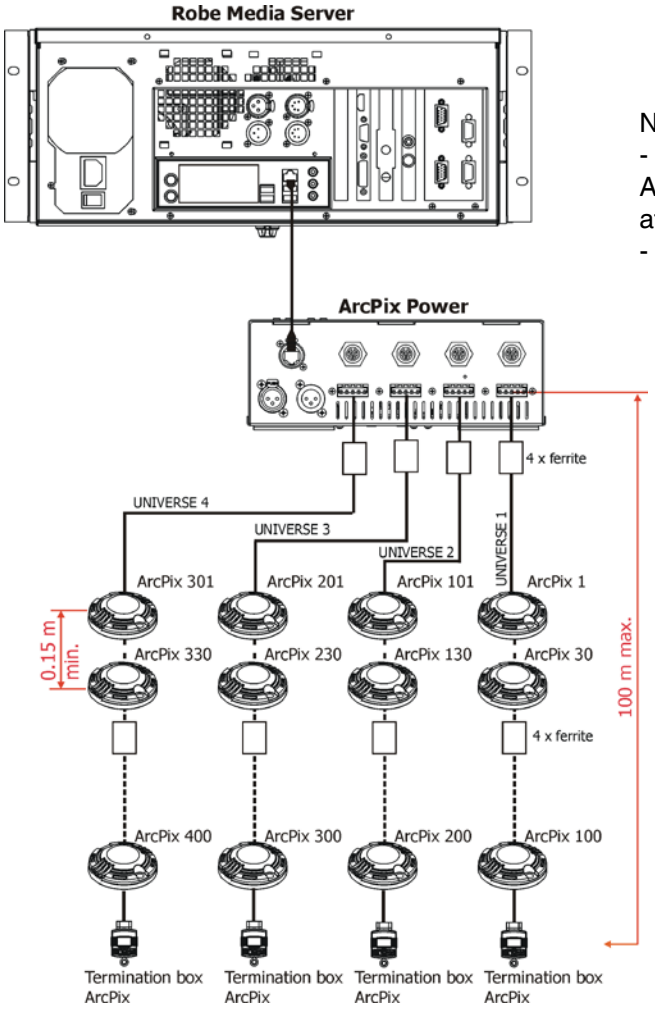
2. Connect ArcPixes (with ferrites as described above) to the ArcPix Power. Max load per ouput is 100 ArcPixes.
Connect the termination box ArcPix to each ArcPix line. If you use Artnet for control of the ArcPix Power, you can connect ArcPixes to all LED outputs 1-4.
For larger installation we recommend to set different universes for each ArcPix output. The first ArcPix has to have the bottom universe and the last ArcPix the top universe (requirement of the Robe Media Server).

3. Connect ArcPix Power to mains

4. Run procedures " Search Dots" and " Sort Dots" from the menu "Dots"

5. Save adjusted values with the option "Store Config".

7. Connect the ArcPix Power to mains and to the Robe Media Server.



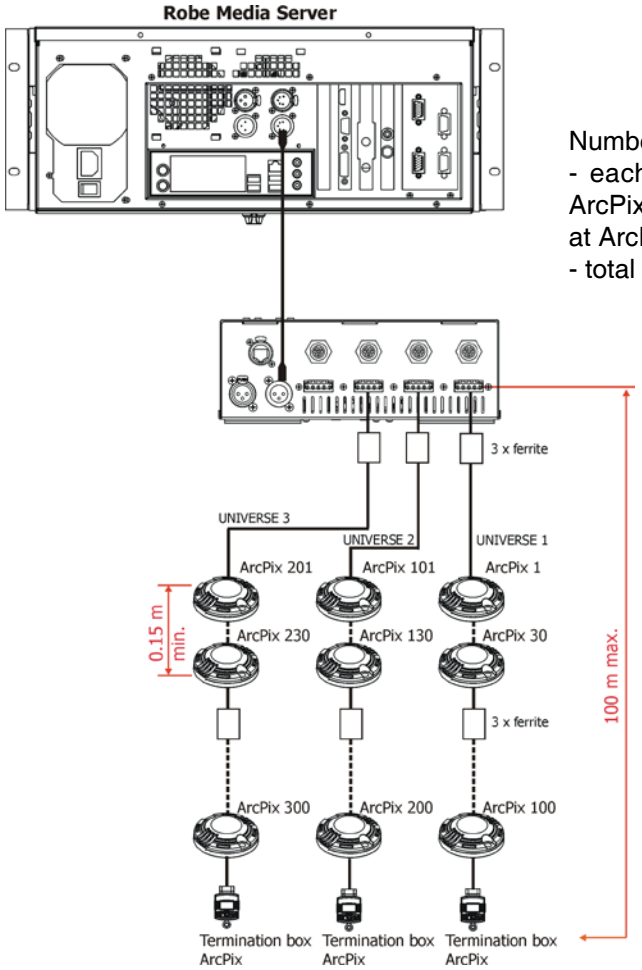
Number of needed ferrites:
- each ArcPix line: 4 (between ArcPixes no.30-31, 60-61, 90-91, at ArcPix Powe
- total for installation: 16

Every ArcPix line has to be terminated with the termination box ArcPix!

If the line between ArcPixes is disconected, the ArcPixes behind point of interrupt will not work. Before restoring connection betwen ArcPixes, switch off the ArcPix Power.
In case that some ArcPix has been changed, the same address as had original ArcPix is assigned to the new ArcPix by the ArcPix Power. **It is very important to save Dots configuration at every change of ArcPixes**.(Menu "Dots" -> "Store Config"),

Max. cable length between the ArcPix Power and the last connected ArcPix module should not exceed **100m**

Note: If DMX is used for control of the ArcPix Power, the LED outputs 1-3 may be used only (LED output load is the same as in case of the control by Artnet - max 100 LED modules per LED output).



Number of needed ferrites:
- each ArcPix line: 4 (between ArcPixes no.30-31, 60-61, 90-91, at ArcPix Power)
- total for installation: 12

Every ArcPix line has to be terminated with the termination box ArcPix

The Robe Media Server allows to choose two modes of ArcPixes connection: Fixed-wiring mode and Picture mode. For detailed description see the user manual of the Robin Media Server.

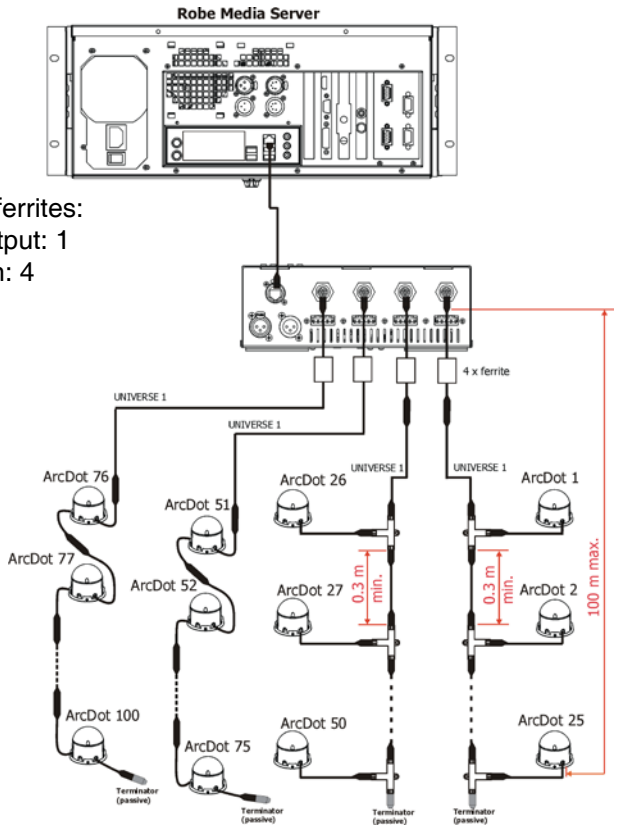
4.4. Connecting ArcDots /ArcPixes Outdoor 4 MC/ArcDotFlashes

Connect ArcDots to the LED outputs of the ArcPix Power. The ArcDots can be interconnected directly or by using T- connectors - see the picture below. If you use Artnet for control of the ArcPix Power, you can connect ArcDots to all LED outputs 1-4.
For larger installation (more than 25 ArcDots), the ArcPixPower should be connected to the Robe Media Server which allows automatic pixel mapping and full control of the ArcDots modules. Without Robe Media Server, you have to perform pixel mapping manually using the menu "Dots".

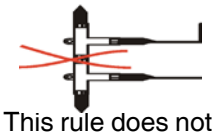
Placing ferrites
The ferrite GTFC 16-8-16 (S/N 1305 1703) has to be placed on the cable at each ArcDot output of the ArcPix Power.

To connect ArcDots
1. Disconnect ArcPix Power from mains.
2. Connect ArcDots (with ferrites as described above) to the ArcPix Power. Max. number of ArcDots per output is 35. Connect active terminators to each ArcDots line.
3. Connect the ArcPix Power to mains
4. Run procedures "Search Dots" and "Sort Dots" from the menu "Dots"
5. Save adjusted values with the option "Store Config"
6. Disconnect the ArcPix Power from mains and replace active terminators by passive terminators*.
7. Connect the ArcPix Power to mains and to the Robe Media Server.
* Active terminators can remain permanent connected if there is place for them (they are bigger than passive ones).

Number of needed ferrites:
- at each ArcDot output: 1
- total for installation: 4



The minimum cable length of 0.3m between two T-connectors has to be kept in case that the pixel sorting is executed manually from the ArcPix Power menu.



This rule does not need to be kept if the Robe Media Server is used for pixel sorting

Every ArcDot line has to be terminated with the passive terminator!

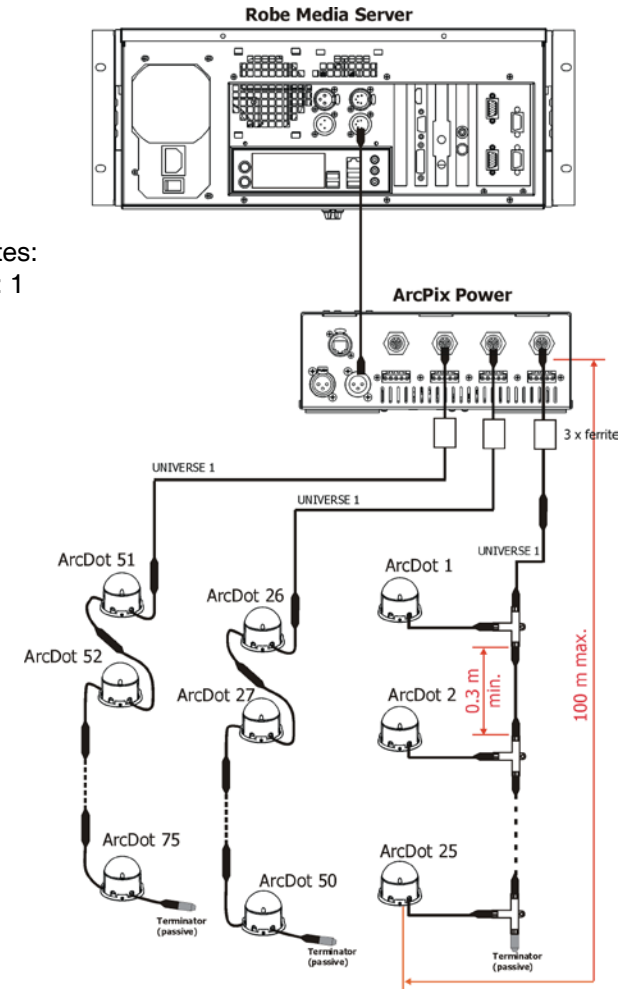
If the line between ArcDots is disconected, the ArcDots behind point of interrupt will not work. Before restoring connection betwen ArcDots, switch off the ArcPix Power.
In case that some ArcDot has been changed, the same address as had original ArcDot is assigned to it by the

ArcPix Power. **It is very important to save ArcDots configuration at every change of an ArcDot**.(Menu "Dots" -> "Store Config"),

Max. cable length between ArcPix Power and the last connected ArcDot module should not be exceeded: **100m @ 25 ArcDots per LED output** or **65 m @ 35 ArcDots per LED output**. Only one ArcDot can be connected to the T-connector.

Note: If DMX is used for control of the ArcPix Power, the LED outputs 1-3 may be used only (LED output load is the same as in case of control by Artnet - typically 25 LED modules, max 35 LED modules and 100 modules max. load of the ArcPix Power).

Number of needed ferrites:
- at each ArcDot output: 1
- total for installation: 3



Every ArcDot line has to be terminated with the passive terminator!

Note: the same rules as for the ArcDots apply to ArcPixes Outdoor 4 MC and ArcDotFlashes with the following exception for ArcDotFlashes: If no DMX signal is present at ArcPixPower, the ArcDotFlash modules flash randomly (22-28 flashes per minute).

The Robe Media Server allows to choose two modes of ArcDots connection: Fixed-wiring mode and Picture mode. For detailed description see the user manual of the Robin Media Server.

6. ArcPix Power - DMX protocols

ArcPix/ArcDot/ArcPix Outdoor 4 MC
version 1.0

Channel	Value	Function	Type of control
ArcPix 1/ArcDot 1/ArcPix Outdoor 4 MC 1			
1	0-255	**Red** Red LED saturation control (0-100%)	proportional
2	0-255	**Green** Green LED saturation control (0-100%)	proportional
3	0-255	**Blue** Blue LED saturation control (0-100%)	proportional
ArcPix 2/ArcDot 2/ArcPix Outdoor 4 MC 2			
4	0-255	**Red** Red LED saturation control (0-100%)	proportional
5	0-255	**Green** Green LED saturation control (0-100%)	proportional
6	0-255	**Blue** Blue LED saturation control (0-100%)	proportional
ArcPix 3/ArcDot 3/ArcPix Outdoor 4 MC 3			
7	0-255	**Red** Red LED saturation control (0-100%)	proportional
8	0-255	**Green** Green LED saturation control (0-100%)	proportional
9	0-255	**Blue** Blue LED saturation control (0-100%)	proportional
: **ArcPix 100/ArcDot 100/ArcPix Outdoor 4 MC 100**			
298	0-255	**Red** Red LED saturation control (0-100%)	proportional
299	0-255	**Green** Green LED saturation control (0-100%)	proportional
300	0-255	**Blue** Blue LED saturation control (0-100%)	proportional
: **ArcPix 170**			
508	0-255	**Red** Red LED saturation control (0-100%)	proportional
509	0-255	**Green** Green LED saturation control (0-100%)	proportional
510	0-255	**Blue** Blue LED saturation control (0-100%)	proportional

ArcDotFlash
version 1.0

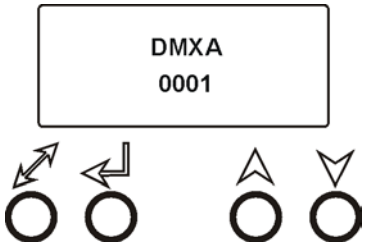
Channel	Value	Function	Type of control
ArcDotFlash 1			
1	0-127 128-191 192-254 255	**Light Intensity** Intensity (0-100%) Synchronic strobe (from slow to fast) Random strobe Closed	 proportional proportional step step
ArcDotFlash 2			
2	0-127 128-191 192-254 255	**Light Intensity** Intensity (0-100%) Synchronic strobe (from slow to fast) Random strobe Closed	 proportional proportional step step
:			
ArcDotFlash 100			
100	0-127 128-191 192-254 255	**Light Intensity** Intensity (0-100%) Synchronic strobe (from slow to fast) Random strobe Closed	 proportional proportional step step

5. Control menu map

Default settings=Bold print

Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Level 7
DMX Addr	Set DMX Address	0001-0512				
	IP Address	Default Address	Set Address			
		Custom Address	IP Adr 1	0-255		
			IP Adr 2	0-255		
			IP Adr 3	0-255		
			IP Adr 4	0-255		
			Set Address			
	Network mask	Net M. 1				
		Net M. 2				
		Net M. 3				
		Net M. 4				
		Set Net M.				
Info	Software Version					
	IP Addr.					
	MAC Adr.					
	Dots	New Dots				
		Unknown Dots				
Dots	Search Dots					
	Sort Dots	Auto Sort				
		Manual Sort				
		Restore Last				
	Fade Time	Off				
		0.1s-25.5s				
	Dots Curve	D. Curve	0-255			
	Store Config					
	Test Dots					
	Update Dots	**No**				
		Yes				
Personality	ArtNet Universe	Uni. 1	**0**-255			
		Uni. 2	**0**-255			
		Uni. 3	**0**-255			
		Uni. 4	**0**-255			
	DMX Input	Ethernet				
		Wired DMX				
	Display Settings	Disp Off Timer	Off, On			
		Display Lightnes	0-**100**%			
		Display Contrast	0-**100**%			
	Default Settings	Set Defaults				
Test	Single Dots					
	All Dots					

Special Settings	Software Update	**No**, Yes				
	Reset Password					



7.Control menu

The control panel situated on the top cover of the ArcPix Power allows fixture addressing and set the driver´s behaviour.

Control elements:

[ENTER] button- enters menu,confirms adjusted values and leaves menu.

[UP] button and[DOWN] button- moves between menu items on the the same level, sets values.

[ESCAPE] button- leaves the menu without saving value.

7.1 DMX Addr (*Fixture addressing*)

Set DMX Address - use this menu item to set the DMX start address of the fixture, which is defined as the first channel from which the ArcPixPower will respond to the DMX controller.

IP address - select this menu item to set desired IP address. IP address is the Internet protocol address.The IP uniquely identifies any node (fixture) on a network. There cannot be 2 fixtures with the same IP address on the network!

Default Address. This address is derived from fixture´s MAC address and cannot be changed. Confirm the item **"Set Address"** to select this address.

Custom Address. IP address consists of four decimal numbers, each ranging from 0 to 255, separated by dots, e.g., 172.16.254.1. Each part represents a group of 8 bits (octet) of the address.
The following items **"IP Adr 1"**, **" IP Adr 2", " IP Adr 3", " IP Adr 4"** allow to set each part (number) of the address. After setting desired IP address, confirm the item **"Set Address"** to save this address.

Network mask - select this menu item to set desired network mask. A network mask is a 32-bit mask used to divide an IP address into subnets and specify the networks available hosts.
The following items **"Net M.1"**, **"Net.M.2", " Net.M.3", " Net.M.4"** serve for seting of each part (number) of the net mask.
After setting desired network mask, confirm the item **"Set Net M."** to save adjusted values.

7.2 Info (*Fixture information*)

Use this menu to read useful information about the fixture.

Software version - select this menu item to read software versions.

Dot 10.0/20 - Dot version. The items show software version of each LED module.
MA. In - Driver version. The item shows software version of the ArcPixPover.

IP Addr - this menu item shows the current IP address.

MAC Addr - select this menu item to read the MAC address (the MAC address "runs" on display).

Dots - select this menu item to read information about connected LED modules (ArcDot, ArcPix)

New Dots - the item shows the number of recently connected LED modules.

Unknown Dots - the item shows the number of LED modules which were not detected by the dot checking procedure ("Search Dots") .

7.3 Dots (*ArcDot/ArcPix settings*)

Use this menu to prepare LED module for operation in desired matrix.

Search Dots - this function checks all LED modules connected to the fixture and the message "Done" with the number of found LED modules is displayed after finishing the procedure.

Example: Dots: 25
Search/Done

The ArcPixes, ArcDots are sorted according to their RDM UID in colour range RGB,RGB.....RGB.

Sort Dots - this menu allows you to choose automatic or manual sorting of connected LED modules.

Auto Sort - Conected LED modules are sorted automatically by the following rule:
ArcPix modules are sorted according to their IDs.
ArcDot modules are sorted according to their distances from the ArcPix Power
(the active terminator for the ArcDot has to be connected to the last ArcDot at each LED output of the ArcPix Power).

Manual Sort - after choosing this option, the following screen will be displayed:

Example: D001 St1 (D001....LEDE module No.1, St1..... LED output 1 of the ArcPix Power)
U1 A001 (U1.....universe, A001.....DMX address)

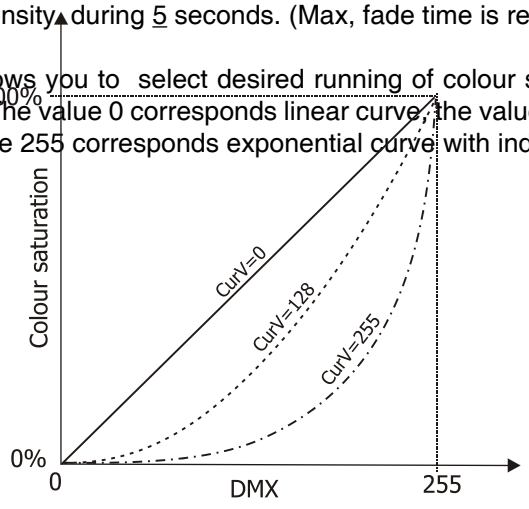
You can go throw connected dots pressing the [UP] and [DOWN] buttons, current displayed LED module starts blinking a white colour.
Press the [ENTER], item U1 starts to blink slowly. Now by means of the [UP] and [DOWN] buttons you can move between the item A001 and U1. To edit celected item, press the [ENTER] again, selected item will start to blink fast and you can set desired values using the UP] and [DOWN] button.

After automatic or manual sorting, do not forget to save changes by means of the menu item „Store Config".

Restore Last - recalls last saved dots configuration.

Fade Time - select this menu item to set a desired max. fade time (0-25.5 sec.). This adjusted fade time influences fade of RGB and dimmer during DMX operation:
If time between two receiving DMX values is > than fade time set in the item "Fade Time", the entire adjusted fade time will be used.
If time between two receiving DMX values is < than fade time set in the item "Fade Time", the adjusted fade time will be reduced to fill entire time between the two receiving DMX values.
e.g. "Fade Time".=2sec. and fixture has received Red=0 DMX, after 5 seconds will receive Red=255 DMX. It means, that red will go to full intensity during 2 seconds.
"Fade Time"=8 sec. and fixture has received Red=0 DMX, after 5 seconds will receive Red=255 DMX. It means, that red will go to full intensity during 5 seconds. (Max, fade time is reduced from 8 sec. to 5 sec.).

Dots Curve - this menu item allows you to select desired running of colour saturation. You can select 255 colour saturation runnings in all. The value 0 corresponds linear curve, the value 128 corresponds exponential curve with index 1.9 and last value 255 corresponds exponential curve with index 2.6.



Store Config - select this function to save all changes that have been done in the menu "Dots" .
Test Dots - use this menu item to browse throw the list of sorted LED modules.The ID of corresponding dot is shown under the dot number. Displayed LED module blinks in white.

Update Dots - allows update of the connected LED modules after standard software updating of the ArcPix Power (item “Software Update” in the menu "Special Setting").
Note: The update via the menu "Software Update" has to be realized before running the "Update Dots" procedure

7.4 Personality

Use this menu to modify the ArcPix Power operating behavior.

ArtNet Universe - use the menu item to assign ArtNet universe to desired LED output.
Uni.1-ArtNet universe for LED output 1
:
Uni.4-ArtNet universe for LED output 4
Art-Net is a proprietary protocol for transmitting DMX512 (with RDM) over UDP/IP. Up to sixteen DMX512 universes can be accessed through one IP subnet. The Universe is a single DMX 512 frame of 512 channels.

DMX Input - this menu allows you to choose desired DMX data input:
Artnet - if this input is selected (RJ45), all LED outputs (1-4) are active.
Wired DMX - if this input is selected (3-pin XLR), only LED outputs 1-3 are active.

Display Settings - this menu allows you to change the display settings.
Display Off Timer - if this item is on the display will be swiched off 2 minutes after last pressing any button on the control panel.
Display Lightness - select this menu item to adjust the display intensity (0-100%).
Display Contrast- select this menu item to adjust contrast of the display (0-100%).

Default setting - select this option to set fixture personalities to the default (factory) values.

7.5 Test

Single Dots - the LED modules blink one by one starting from DMX address 1 (universe 1) in the colour order red, green, blue and white.
All Dots - all connected LED modules blink together in the colour order red, green, blue and white..
Before both test sequences, the "Search Dots" and "Sort Dots" procedures from the menu "Dots" have tu be made.

7.6 Special settings

Software Update - using this function you can update software in the fixture via PC and USB (or serial port).
The following are required in order to update software:
- PC running Windows 95/98/2000/XP/7/8 or Linux
- DMX Software Uploader
- Flash cable RS232/DMX S/N.13050624 (if you want to use a serial port of PC)
- Robe Universal Interface (if you want to use an USB port of PC)

Note1. Software update should execute a qualified person.If you lack qualification, do not try the update yourself and ask for help your ANOLIS distributor.
Note 2. IP address, and settings in the menu " Personality" will be set to their default values.

To update software in the fixture:
1.Installation of the Software Uploader file (DSU_device name_time identifier):
1. The Software Uploader file for is available from the ANOLIS web site at WWW.anolis.cz.
2. Make a new directory (e.g. ANOLIS_Uploader) on your hard disk and download the software to it.
3. Unpack the program from the archives. Program file has name: DSU_name of corresponding fixture_time identifier, eg. DSU_ArcPixPower_14051551.

2.Fixture software updating:

1. Determine which of your port is available on your PC and connect it:
   - with the DMX input of the fixture if you using the flash cable RS232/DMX
   - with the USB input of the Robe Universal Interface if you using the USB cable.

   Disconnect the fixture from other fixtures in a DMX chain. Turn both the computer and the fixture on.
2. Switch the fixture to the updating mode:
   1.Use the UP] and [DOWN] buttons to find "Special Settings" menu.
   2.Press the [ENTER] button.
   3.Use the UP] and [DOWN] buttons to select " Software Update" item.
   4.Press the [ENTER] button
   5.Use the UP] and [DOWN] buttons to select " Yes" option
   6.Press the [ENTER] button

   Note: If you do not want to continue in the software update, you have to switch off and on the fixture to escape from this menu.
3. We recommend to cancel all running programs before start of the Software Uploader.
4. Run the Software Uploader program. Select desired COM or Robe Universal Interface and then click on the Connect button.

   If the connection is OK, click on the Start Uploading button to start uploading. It will take several minutes
   to perform software update. If the option "Incremental Update" is not checked, all processors will be updated (including processors with the same software version).
   If you wish to update only later versions of processors, check the Incremental Update box.
   Avoid interrupting the process. The update status is being displayed in the Info Box window.
   When the update is finished, the line with the text "The fixture is successfully updated' will appear in this window and the fixture will reset with the new software.

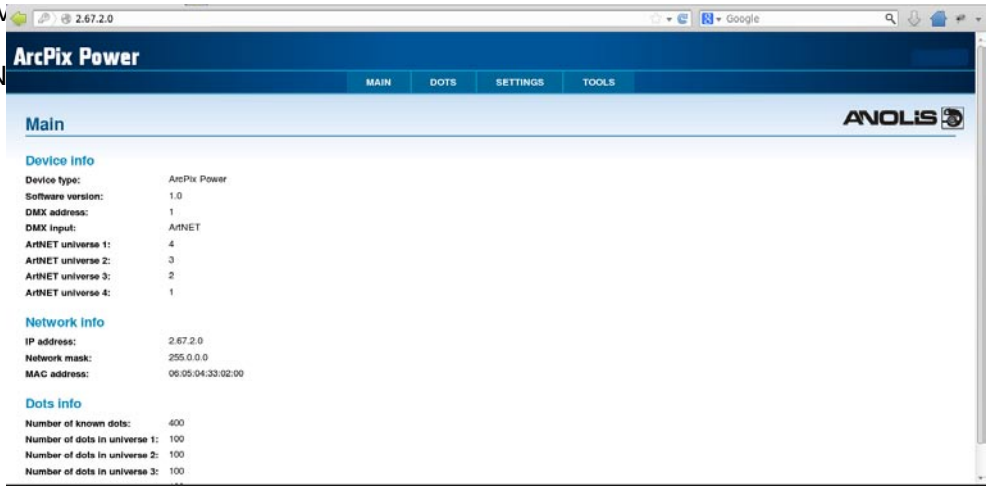
Note 1: In the case of an interruption of the upload process (e.g. power cut), the fixture keeps the updating mode and you have to repeat the software update again.
Note 2: If the software update involves also update of software for each pixel (LED module), run the item "Update Dots" in the menu "Dots" (Dots --> Update Dots).

Reset Password - using this function you can reset current password into default password: admin.

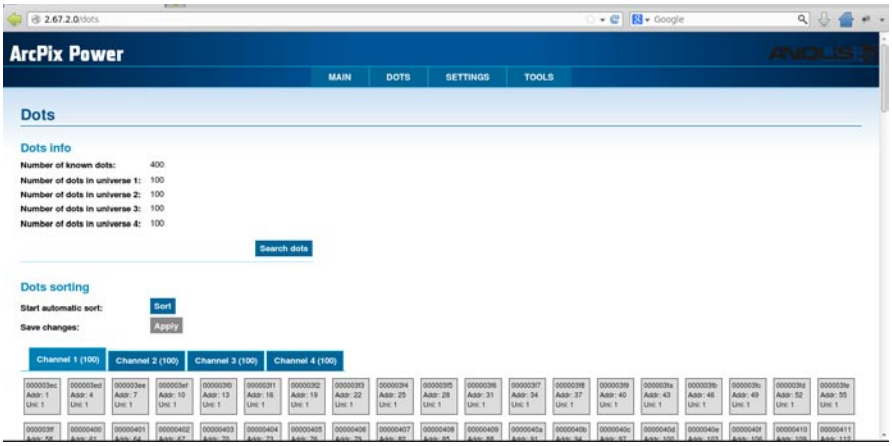
8. ArcPixPower Web manager

The ArcPixPower includes built-in web interface allowing quick overview of its settings and connected dots and also their setting.
To enter The ArcPixPower Web manager, type the IP address of the ArcPixPower (e.g. 2.67.2.0) into your web browser. PC or notebook with internet browser has to be connected to the same ethernet network as the ArcPixPow

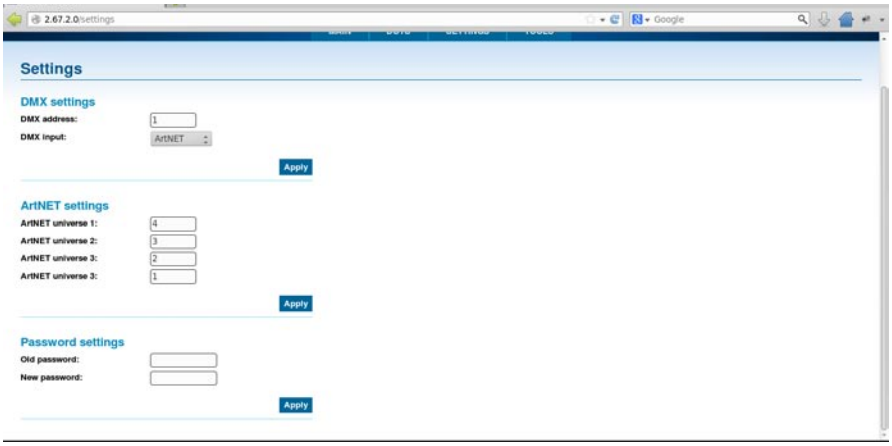
Tab MAIN



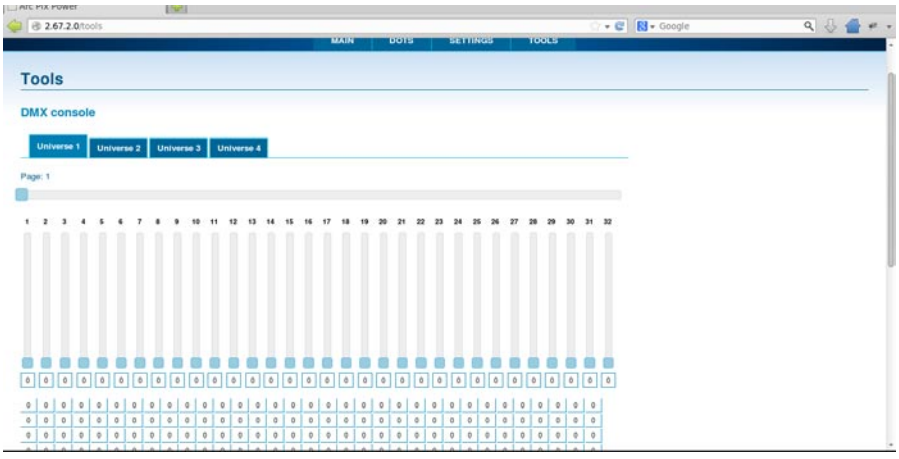
Tab DOTS



Tab SETTINGS



Tab TOOLS



9.Technical Specifications

Power supply

Input voltage: 100-240 V AC, 50-60 Hz
Fuse: T 8A H 250V ~
Max. pover consumption:650W (power factor=0.98)

Control and programming

Protocols: USITT DMX-512, Artnet
Display: 4 digit LED
4 control buttons

Output

Max.Output Voltage: 48V DC
ArcPix output: 4 x Sauro CGF 050M5, (panel terminal board, female) & 4 x Sauro CGM 050 M5 (male)
ArcDot output: 4 x Chogori CGRBB-03RFFS-SC8001(female)
Max.load per output (CE version): 100 x ArcPix or 35 x ArcDot/ArcPix Outdoor 4 MC /ArcDotFlash (typically 25 x LED modules)
Total max.load of ArcPix Power (CE version): 400 x ArcPix or 100 x ArcDot/ ArcPix Outdoor 4 MC/ArcDot-Flash

Maximum cable length between output of the ArcPix Power and the last connected LED module

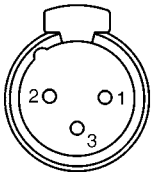
ArcPix: 100 m @ 100 ArcPixes per output;
ArcDot/ ArcPix Outdoor 4 MC/ArcDotFlash: 100 m @ 25 LED modules per output or 65 m @35 LED modules per output

Total heat dissipation

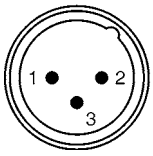
max. 2200 BTU/hr (calculated)

Connection

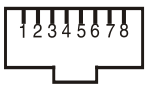
DMX 512: 3-pin male/female XLR



1 Shield
2 Signal (-)
3 Signal (+)

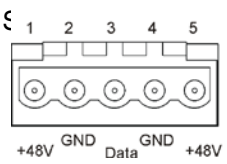


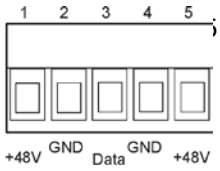
ArtNet: RJ45



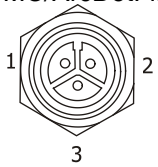
Output	Input
1 TD+	5 Not used
2 TD-	6 RX-
3 RX+	7 Not used
4 Not used	8 Not used

ArcPix:





ArcDot/ ArcPix Outdoor 4 MC/ArcDotFlash: Chogori CGRBB-03RFFS-SC8001 (female)

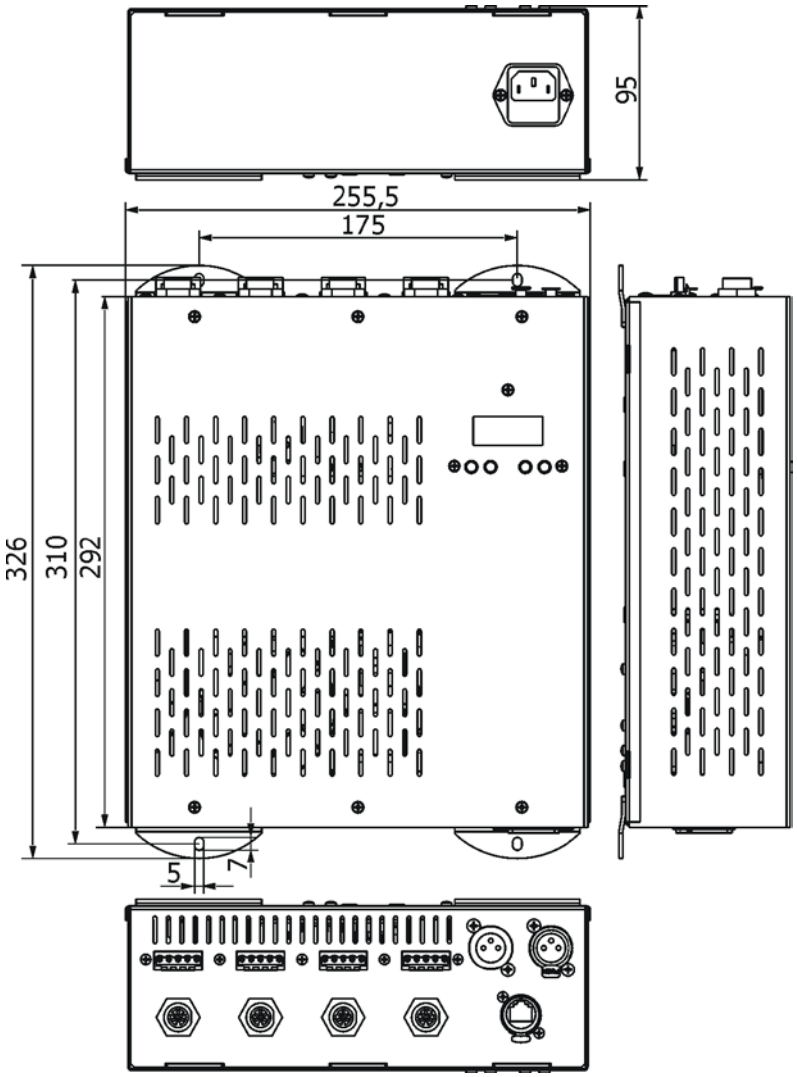


1 GND
2 +48V
3 Data

Power: Panel connector IEC C14 (socket)
Power cord IEC C13 included

Operating temperature
-10°C/+40°C

Dimensions(mm)



Weight
3.4 kg

Accessories
1 x Power cord IEC C13
4 x Screw terminál board Sauro CGM 050 M5

Items needed for installation (quantity depends on size and type of installation)

(P/N 1305 2023) Connection cable ArcDot-ArcDotPower, 2m
(P/N 1305 2024) Connection cable ArcDot-ArcDotPower, 4m
(P/N 1006 2330) Active Terminator for ArcDot
(P/N 1006 2331) Passive Terminator for ArcDot
(P/N 1305 1703) Ferrite GTFC 16-8-16 (for ArcDot)

(P/N 10062551) Termination Box ArcPix
(P/N 1305 1312) Ferrite CSA19/9.4/29-4S60-EN (for ArcPix)
(P/N 10062550) Connection Box ArcPix (for changing faulty ArcPix)

Specifications are subject to change without notice.
August 13, 2015