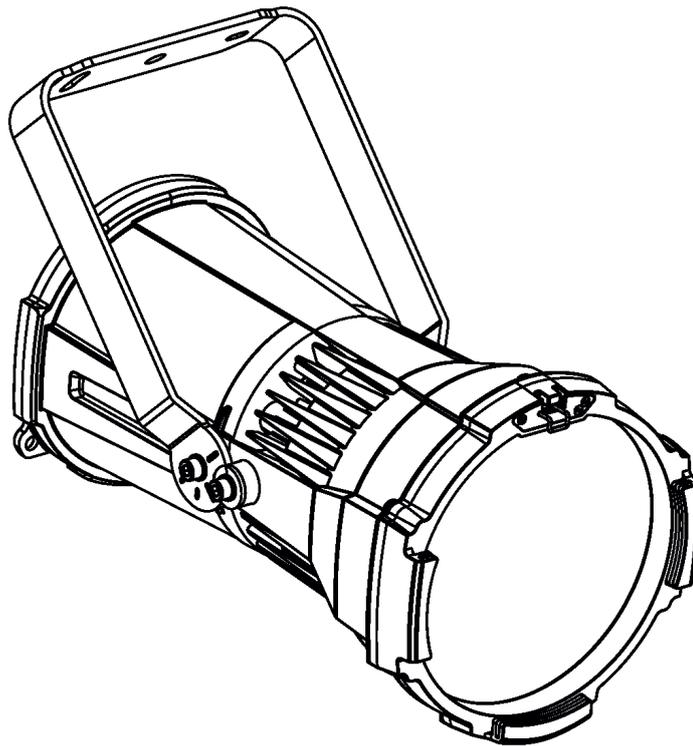




Anolis ArcPar 150 Outdoor



Version 1.4

USER MANUAL

ArcPar 150 Outdoor

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FOR YOUR OWN SAFETY, PLEASE READ THIS USER MANUAL CAREFULLY BEFORE POWERING OR INSTALLING YOUR ARCPAR 150 OUTDOOR !

Save it for future reference.

This device 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.

The manufacturer will not accept liability for any resulting damages caused by the non-observance of this manual or any unauthorized modification to the device.

Please consider that damages caused by manual modifications to the device are not subject to warranty.

The ArcPar 150 Outdoor was designed for outdoor use and it is intended for professional application only. It is not for household use.

1. Safety instructions

DANGEROUS VOLTAGE CONSTITUTING A RISK OF ELECTRIC SHOCK IS PRESENT WITHIN THIS UNIT!

Make sure that the available voltage is not higher than stated on the rear panel of the fixture. This fixture should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supplied, consult your authorized distributor or local power company.

Always disconnect the fixture from AC power before cleaning, removing or installing any part of the fixture.

The power plug has to be accessible after installing the fixture. Do not overload wall outlets and extension cords as this can result in fire or electric shock.

Make sure that the power cord is never crimped or damaged by sharp edges. Check the fixture and the power cord from time to time.

Refer servicing to qualified service personnel.

This fixture falls under protection class I. Therefore this fixture has to be connected to a mains socket outlet with a protective earthing connection.

Do not connect this fixture to a dimmer pack.

Warning!
Risk group 1, RG-1 (for beam angle $>10^\circ$)
Risk group 2, RG-2 (for beam angle $\leq 10^\circ$).
Do not stare at exposed lamp in operation. May be harmful to the eyes.
Avoid looking directly into the light source
LED light emission. Do not view the light output with optical instruments or any device that may concentrate the beam.
The light source contains blue LEDs.

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

Do not block the front transparent glass with any object when the fixture is under operation.

Housing of the fixture should never be covered with cloth or other materials.

This fixture should not be placed in a built-in installation unless proper ventilation is provided.

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

Make sure that the area below the installation place is blocked when rigging, derigging or servicing the fixture.

To avoid damage of an internal optical system of the fixture, never let the sunlight (or other light source) lights directly to the lens array, even when the fixture is not working

The fixture becomes very hot during operation. Allow the fixture to cool approximately 30 minutes prior to servicing or maintenance.

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

Please use the original packaging if the fixture is to be transported.

Please consider that unauthorized modifications on the fixture are forbidden due to safety reasons!

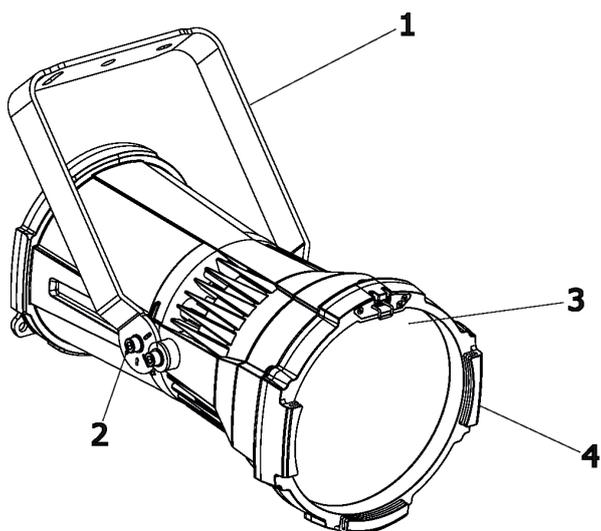
If this device will be operated in any way different to the one described in this manual, the product may suffer damages and the guarantee becomes void.

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.

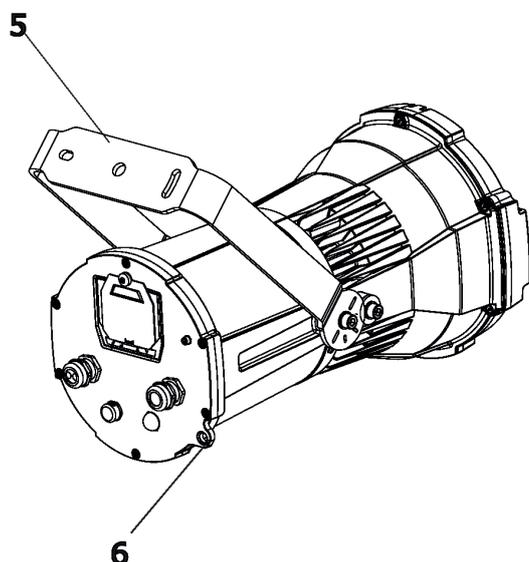
The installation company should check levels of possible interferences above the tested levels E1,E2,E3 given by this standard (e.g. transmitters in surrounding area) before installing the equipment.

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

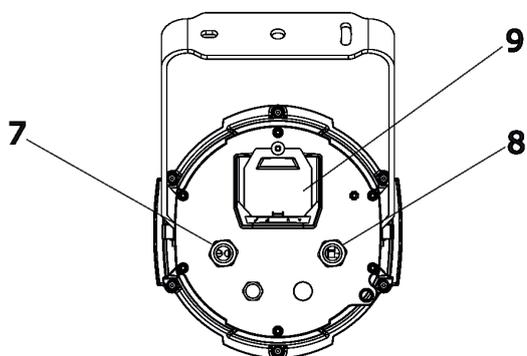
2. Fixture exterior view



- 1 - Mounting bracket
- 2 - Tilt locks
- 3 - Transparent glass cover
- 4 - Accessory frame adaptor



- 5 - Mounting hole for clamp
- 6 - Attachment point for accessories
- 7 - DMX IN/OUT*
- 8 - Power IN
- 9 - Anti-vandal cover of display



*IMPORTANT!

Fixture's DMX connectors (7) are dust and water protected according to protection class IP 65 by mating with related connectors (IP 65 rated) with cables or by covering with the rubber sealing cover (DMX OUT). They cannot stay uncovered outdoor (e.g. during fixture installation or operation).

3. Installation



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

3.1 Connection to the mains

For protection from electric shock, the fixture must be earthed!

The ArcPar 150 Outdoor is equipped with auto-switching power supply that automatically adjusts to any 50-60Hz AC power source from 100-240 V (CE), 100-277 (US).

If you need to install a plug on the power cable to allow connection to power outlet, install a grounding-type (earthed) plug suitable for current installation.

If you have any doubts about proper installation, consult a qualified electrician.

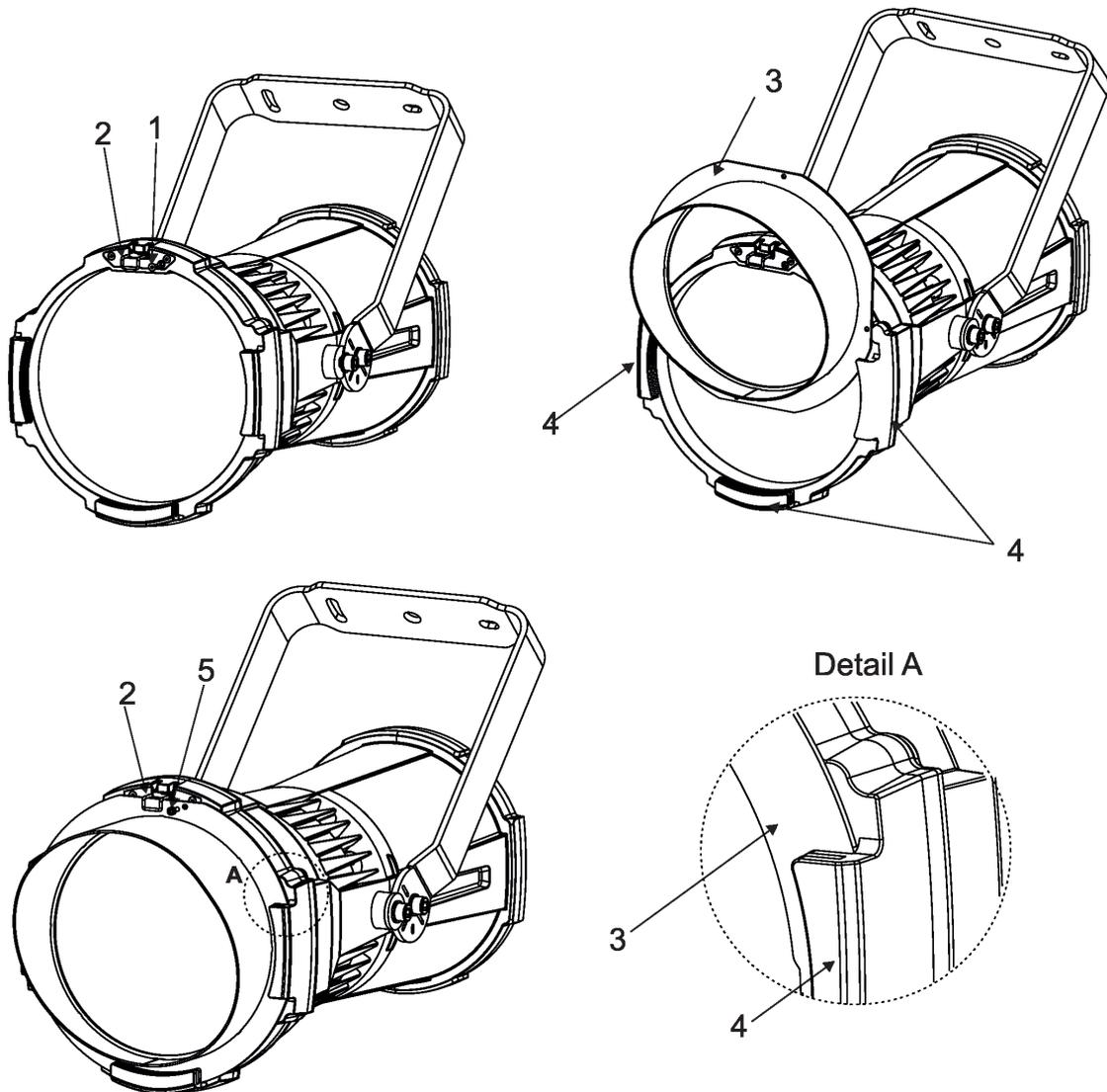
Core (CE)	Core (US)	Connection	Plug Terminal Marking
Brown	Black	Live	L
Light blue	White	Neutral	N
Yellow/Green	Green	Earth	

This device falls under class one and must be earthed (grounded)!

3.2 Installing the top hat/half top hat

Disconnect the fixture from mains before the top hat /half top hat installation!

1. Unscrew the flat head screw M3x8 (1) and unlock the spring lock (2)
2. Insert top hat (3) into grooves in the accessory frame adaptor (4) (use groove closer to front glass).
3. Lock the spring lock (1) and secure the top hat (3) to the housing by screwing the Allen head screw M3x8 (5).



3.3 Rigging the fixture

A structure intended for installation of the fixture(s) must safely hold weight of the fixture(s) placed on it. The structure has to be certificated to the purpose.

The fixture must be installed in accordance with national and local electrical and construction codes and regulation.

For overhead installation, the fixture must be always secured with a safety wire.

IMPORTANT! OVERHEAD RIGGING REQUIRES EXTENSIVE EXPERIENCE, including calculating working load limits, installation material being used, and periodic safety inspection of all installation material and the projector. If you lack these qualifications, do not attempt the installation yourself, but use a help of professional companies.

CAUTION: Fixtures may cause severe injuries when crashing down! If you have doubts concerning the safety of a possible installation, do not install the fixture!

The operator has to make sure that safety-relating installations are approved by a skilled person once a year.

Allow the fixture to cool for ten minutes before handling with it.

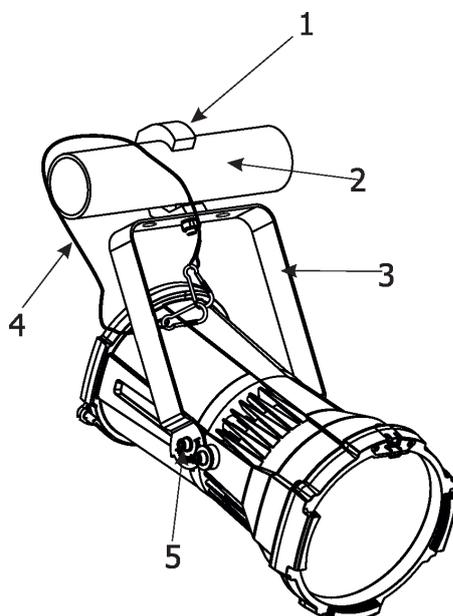
The fixture has to be installed out of the reach of public.

The fixture must never be fixed swinging freely in the room.

When installing the device, make sure there is no highly inflammable material (decoration articles, etc.) in a distance of min. 0.4 m.

**Use an appropriate clamp to rig the fixture on the truss.
Make sure that the device is fixed properly! Ensure the structure (truss) to which you are attaching the fixtures is secure.
When installing fixtures side-by-side, avoid illuminating one fixture with another!**

The fixture can be rigged on a truss (via a mounting bracket) without altering its operation characteristics. For securing the fixture to the truss, install a safety wire which can hold at least 10 times the weight of the fixture. Use only the safety wire with a snap hook with screw lock gate. Fasten the safety wire in the attachment point and around the truss as shown on the picture below. To tilt the mounting bracket to desired position, loosen both adjusting screws, set inclination of the mounting bracket and tighten both adjusting screws. Use an Allen key 8 to loose/tighten adjusting screws.



- 1-Clamp
- 2-Truss
- 3-Mounting bracket
- 4-Safety wire
- 5-Adjusting screw

3.4 DMX-512 connection

The fixture is equipped with 5-pin XLR sockets for DMX input and output. Only use a shielded twisted-pair cable designed for RS-485 and 5-pin XLR connectors in order to connect the DMX controller with the fixture and fixtures each other.

To keep declared IP rating of the fixture, all used XLR connectors and cables have to meet IP 65 rating.

DMX output

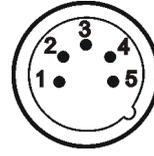
XLR socket:



- 1 - Shield
- 2 - Signal (-)
- 3 - Signal (+)
- 4 - Not connected
- 5 - Not connected

DMX input

XLR plug:

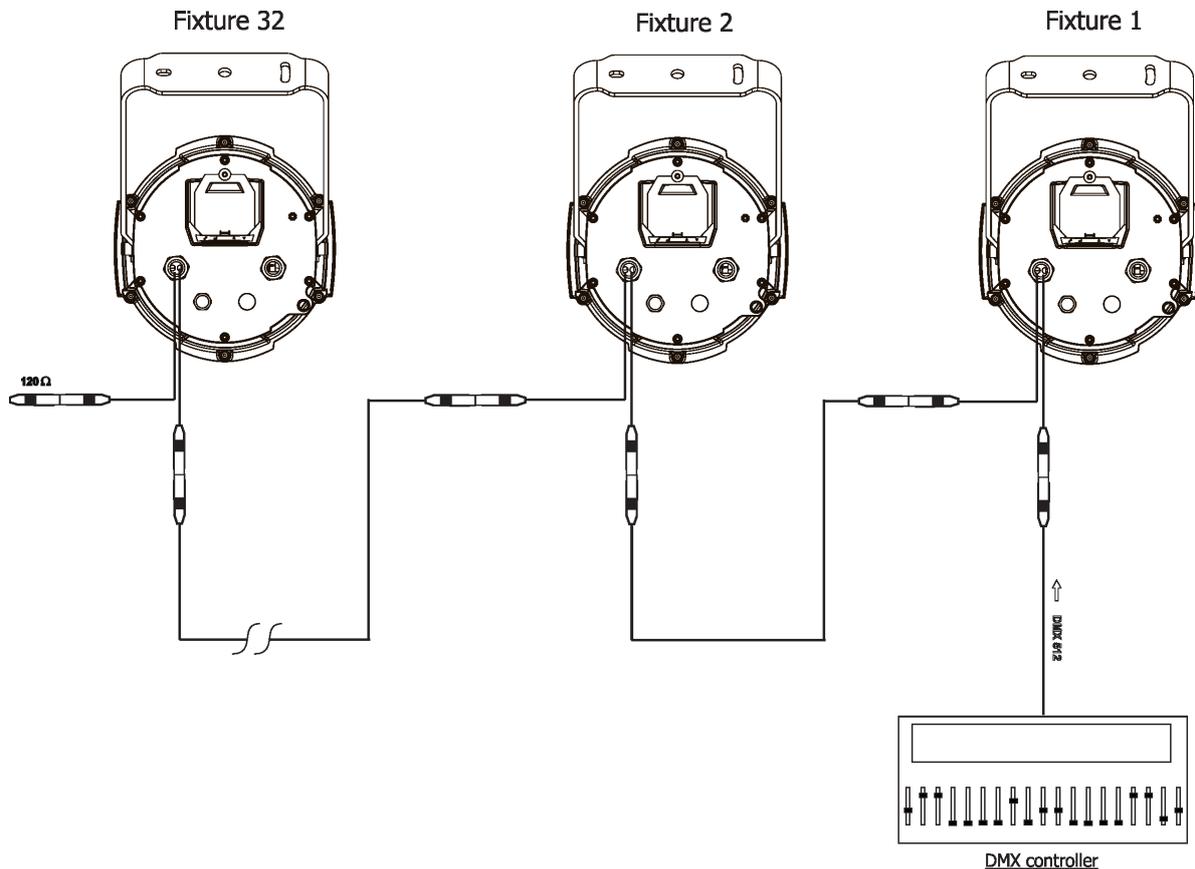


- 1 - Shield
- 2 - Signal (-)
- 3 - Signal (+)
- 4 - Not connected
- 5 - Not connected

Building a serial DMX chain.

Connect the DMX output of the first fixture in the DMX chain with the DMX input of the next fixture. Always connect output with the input of the next fixture until all fixtures are connected. Up to 32 fixtures can be interconnected.

Caution: At the last fixture, the DMX chain has to be terminated with a terminator. Solder a 120 Ω resistor between Signal (-) and Signal (+) into a 5-pin XLR plug and plug it in the DMX output of the last fixture.



3.5. Wireless DMX operation

The wireless DMX version of the fixture is equipped with the Lumen Radio CRMX module and antenna for receiving DMX signal. CRMX module operates on the 2.4 GHz band.

To link the fixture with DMX transmitter.

The fixture can be only linked with the transmitter by running a link procedure on DMX transmitter .

After linking , the level of DMX signal (0-100 %) is displayed in the menu item “Stat” (Special -->Vireless -->Stat).

To unlink the fixture from DMX transmitter.

The fixture can be unlinked from receiver via the menu item “ Unlink“ (Special-->Vireless -->Unlink.).

4. Control menu map

Default settings=**Bold print**

Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Level 7
DMXA	Set DMXA	001-512				
	DMX Pres	Mode 1				
		Mode 2				
		Mode 3				
Info	POn Time	Total				
		Reset				
	DMX In	Powr	0-255			
		:				
		Dim F	0-255			
	Hea Temp	Current				
		Highest				
		High Res				
	Sw Ver	IC-1				
		IC-2				
Pers	DMX Pres	Mode 1				
		Mode 2				
		Mode 3				
	DMX In	Wired				
		Wireless				
	Display	Turn				
		On/Off T	On, Off			
		Contrast	0-100%			
		Backlight	0-100%			
	Col Mix	RGBW, CMY				
	White P	On, Off				
	Dimmer C	Square, Linear				
	LED Freq	Stand				
		High				
	LED Fadj	-06,-05..00..05, 06				
	Temp Uni	°C, °F				
	I Ef Pos	Powr				
		:				
		Dimm F				
		Store				
		Defaults				
Manual	Manual C	Powr	0-255			
		:				
		Dim F	0-255			
Test Prg						
Sta Alone	Auto Run	Off				
		Test				
		Prog 1				
		:				
		Prog 3				
	Pr Play	Test Prg				

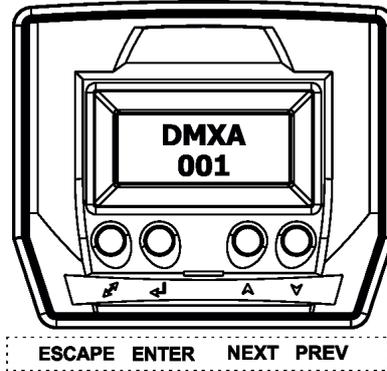
Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Level 7
		Prog 1				
		:				
		Prog 3				
	Pr Edit	Prog 1	Step 1	Powr		
		Prog 2	:	:		
		Prog 3	Step 40	F.Tim	0-25.5	
				S.Tim	0-25.5	
				COPY		
				Prg En	1-40	
Reset						
Special	RDM Low					
	RDM Hight					
	Wireless	Stat				
		Unlink				
	Adjust	DMX Val	Powr	0-255		
			:			
			Dim F	0-255		
		Clalib	Cal Mech	Zoom C	0-255	
				Store		
			Cal Col	Red C	0-255	
				Gre C	0-255	
				Blu C	0-255	
				Whi C	0-255	
				Store		
			Cal Load			
	Sw Upd	On, Off				

5. Control menu (Standard and Easy control mode)

The ArcPar 150 outdoor is equipped with 2-row LCD display which allows to set the fixture's behaviour according to your needs, obtain information on its operation, control all range of effects and program it in stand-alone mode. The four control buttons have the following functions according to the control mode:

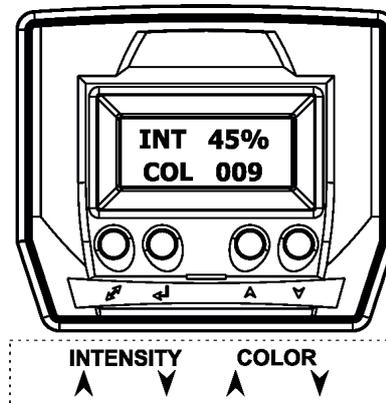
Standard control mode (default setting)

- ↖ - ESCAPE button used to leave the menu without saving changes.
 - ▲, ▼ - NEXT, PREV buttons for moving between menu items and for value adjusting.
 - ↵ - ENTER button used to enter the selected menu (menu item) and to confirm adjusted value.
- After switching the fixture on, the display shows set DMX address.



Easy control mode

- [INTENSITY] buttons used to set light intensity (dimmer).
 - [COLOR] buttons used to set colour on the Virtual colour wheel
- After switching the fixture on, the display shows dimmer intensity and colour which have been set before switching the ArcPar 150 off.

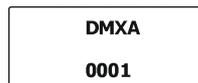


When the fixture is switched off, both adjusted color and light intensity are saved into memory and loaded after switching the fixture on.

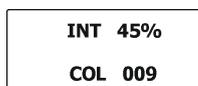
Note: DMX control in this mode is disabled.

Switching the fixture to Easy control mode

When the current DMX address is displayed in the Standard control mode:



press the [NEXT] and [PREV] buttons at the same time until the screen for the Easy control mode appears.



For switching the fixture back to the Standard control mode, press the [NEXT] and [PREV] buttons at the same time until the screen for the Standard control mode appears.

The following menu items are accessible in the Standard control mode only.

5.1 Addressing (DMXA)

Set DMXA - Use this menu item to set the DMX start address of the fixture, which is defined as the first channel from which the ArcPar 150 Outdoor will respond to the controller.

If you set, for example, the address 31, the ArcPar 150 Outdoor will use channels 31 - 48 for control (if Mode 1 is selected).

Please, be sure that you do not have any overlapping channels in order to control each ArcPar 150 Outdoor correctly and independently from any other fixture on the DMX data link.

If there is no data received at the DMX input, the display will start to flash "0001" with actually stored DMX address.

DMX Pres - **DMX preset**. Use the menu to select desired channel mode.

Mode 1 - 17 control channels (default)

Mode 2 - 11 control channels

Mode 3 - 5 control channels

5.2 Fixture information (Info)

POn Time - **Power on time**. Select this menu to read the number of fixture operation hours.

Total - The item shows the total number of the operation hours since the ArcPar 150 Outdoor has been fabricated.

Reset - The item shows the number of the operation hours that the

ArcPar 150 Outdoor has been powered on since the counter was last reset.

In order to reset this counter to 0, press and hold both [NEXT] and [PREV] buttons and the [Enter] button at the same time.

DMX In - **DMX readout**. The menu is used to read DMX values of each channel received by the fixture.

Hea. Temp - **Temperature**. The menu shows temperature of the LED module.

Current - A current temperature of the LED module.

Highest - A maximum temperature of the the LED module since the fixture has been fabricated.

High Res - A maximum temperature of the the LED module since the counter was last reset.

In order to reset this counter, press and hold both [NEXT] and [PREV] buttons and the [Enter] button at the same time.

Sw Ver - **Software versions**. Select this item to read the software version of the fixture modules.

IC-1 - A display processor.

IC-2 - A LED control processor.

5.3 Personality (Pers)

DMX Pres - **DMX preset**. Use the menu to select desired channel mode.

Mode 1 - 17 control channels (default)

Mode 2 - 11 control channels

Mode 3 - 5 control channels

DMX Input - Use the menu to select mode of DMX signal receiving.

Wired - DMX signal is received by means of the standard DMX cable.

Wireless - DMX signal is received by means of the inbuilt wireless module (wireless DMX version only).

Display - **Display adjusting**. This menu allows you to adjust the display behaviour.

Turn - This function rotates menu 180 degrees from current orientation.

Note: Pressing and holding the Escape button also rotates menu.

On/Off T - This function allows you to keep the display permanent on or turn it off two minutes after last pressing any button on the control panel.

Contrast - Use this function to adjust contrast of the display (0-100%).

Backlight - Use this function to adjust backlight of the display (0-100%).

Col. Mix. - Colour mixing mode. This item allows switching into RGBW or CMY mode. In the CMY mode, the white(8bit) and white (16) bit channels are not active.

White P - White Point 8000K. If the function is on, the CTC channel allows to set desired white in range of 8000K-2700K

(0 DMX=8000K,64 DMX=5600K, 128 DMX=4200K, 192 DMX=3200K, 255 DMX=2700K). Necessary condition is , that RGBW channels have to be full (255 DMX) or set at the same DMX values, e.g. 150 DMX.

If this function is off, the range of whites is not uniform and may be different for each fixture.

Dimmer C - Dimmer curve. Use the menu to select desired dimmer curve.

Linear - a linear curve.

Square - a square law curve.

LED Freq - LEDs frequency setup. The function allows you to set the PWM (Pulse Width Modulation) output frequency of LEDs to Standard or High.

Stand - a standard frequency (300Hz).

High - a high frequency (600Hz)

LED Fadj - LEDs frequency fine adjustment. The function allows you to change the selected PWM output frequency of LEDs in 6 levels up and down around the selected frequency in the menu "LED Freq".

-06...-01 - Frequence levels 1-6 under selected frequency.

00 - Selected frequency (Standard or High)

01...06 - Frequence levels 1-6 above selected frequency.

Temp Uni - Temperature unit. Use the menu item to change temperature unit from °C to °F.

IEf Pos - Init effect positions. Use the menu to set all effects to the desired positions at which they will stay after switching the fixture on without DMX signal connected.

Defaults - The menu item allows to set all fixture parameters to the default (factory) values.

5.4 Manual Control (Manual)

Use the menu to control all fixture channels by means of the control panel.

5.5 Test program (Test Prg)

Use this menu to to run a special demo-test sequences without an external controller, which will show you some possibilities of using the ArcPar 150 Outdoor.

5.6 Stand-alone (St Alone)

The ArcPar 150 Outdoor offers three user-editable programs (Prog 1-Prog 3), each up to 40 steps. T

Auto Run - Presetting playback. This function allows you to select the program which will be played in the stand-alone mode after switching the fixture on. Selected program will be played continuously in a loop.

Off - The option disables „Auto Run” function.

Test, Prog 1, Prog 2, Prog 3 - Selected program will start running after switching the fixture on.

Pr Play - Playing program. Select this menu to run a desired program in a loop (Test Prg, Prog 1-Prog 3).

Select the program you wish to run and press the [ENTER]. The selected program will start running. By Pressing the [ENTER] again, the program pauses running.

Pr Edit - Editing program. Select this menu to edit or create three editable programs (Prog 1-Prog 3). Each program step has a step time - during which effects last in the current step and a fade time- during which effects move to new positions.

To edit program.

1. Press [NEXT] or [PREV] to select the menu "Pr Edit" and press [ENTER].

2. Press [NEXT] or [PREV] to select the desired program and press [ENTER] button.

3. Press [NEXT] or [PREV] to select the desired program step and press [ENTER] button.
4. Press [NEXT] or [PREV] to select the desired item and press [ENTER] button. Now you can edit by [NEXT] or [PREV] buttons the DMX value (0-255) for selected item:

Prg En.	a total number of the program steps (value 1-40). This value you should be set before starting of programming (e.g. if you want to create program with the 10 steps, set Prg En=10).
Powr	power/special functions
Virt C	a virtual colour wheel
Red	a red LEDs saturation (coarse)
Red F	a red LEDs saturation (fine)
Green	a green LEDs saturation (coarse)
Green F	a green LEDs saturation (fine)
Blue	a blue LEDs saturation (coarse)
Blue F	a blue LEDs saturation (fine)
White	a white LEDs saturation (coarse)
White F	a white LEDs saturation (fine)
CTC	a colour temperature correction
C Mix C	a colour mix control
Zoom	a zoom movement (coarse)
Zoom F	a zoom movement (fine)
Stro	a strobe/shutter function
Dimm	a dimmer function coarse
Dim F	a dimmer function fine
F.Tim	a fade time (0-25.5 sec)
S.TiM	a step time (0-25.5 sec)
COPY	copying the current prog. step to the next prog. step

5. Press [ENTER] button to confirm adjusted value .
6. Press [ESCAPE] button, select next prog. step, press [ENTER] button and repeat steps 4 - 5).

5.7 Reset function (Reset)

The function resets a zoom movement. During the zoom reset is light output closed.

5.8 Special functions (Special)

RDM Low - This menu item shows the first part of the RDM identification code.

RDM High - This menu item shows the second part of the RDM identification code.

Wireless - **Wireless DMX information.** The menu allows to read some information about Wireless DMX operation

Stat - Wireless status. Use the menu to read wireless DMX status.

Unlink - use this item to unlink fixture from wireless DMX.

Adjust - Adjustment. The menu allows the fine adjustment of effects.

DMX Val- DMX values. Use the menu to set DMX values of fixture's channels.

Calib - calibration of white colour.

Cal Mech - Use this menu to calibrate a zoom position.

Cal Col - Use this menu to set white colour 5600K.

Calibration of the zoom position via the control board

1. Disconnect DMX controller from the fixture and enter the "Cal Mech" menu.
2. Use the [PREV] and [NEXT] to find "Zoom C" and press [ENTER].
3. Set desired value and confirm it by pressing [ENTER].
4. After calibration, find item "Store" and press [ENTER]. to save all adjusted values and reset the fixture.

Calibration of the white 5600K via the control board

1. Disconnect DMX controller from the fixture , set the shutter, dimmer and RGBW channels at 255 DMX, zoom at 128 DMX and the CTC channel at DMX=64 (white 5600K). Aim the light beam on the lux meter (e.g. Minolta CL-500 A Chroma meter) which is placed roughly 5m from the fixture.

2. Set the menu items colour mixing mode "Colour Mix" to RGBW and white point 8000K "White P" to On (Pers-> Col Mix -> RGBW, Pers-> White P -> On).
3. Enter the menu "Cal Col".
4. By means of the irems "Red C, Gre C, Blu C and Whi C" adjust the 5600K colour temperature as exactly as possible ($\Delta u'v' = 0$).
5. After adjusting 5600K colour temperature, select item Store and press the [ENTER] button to save all adjusted values .

Note: you can also use DMX controller for both calibrations stated above, calibration protocol is the following:

Effect	Mode 1	Mode 2	Mode 3
Fine adjustment of zoom position	channel 18	channel 12	channel 6
Fine adjustment of red LEDs saturation	channel 19	channel 13	channel 7
Fine adjustment of green LEDs saturation	channel 20	channel 14	channel 8
Fine adjustment of blue LEDs saturation	channel 21	channel 15	channel 9
Fine adjustment of white LEDs saturation	channel 22	channel 16	channel 10

Cal Load - Loads default (factory) calibration.

Sw Upd - Software update. The menu item allows you to update software in the fixture.

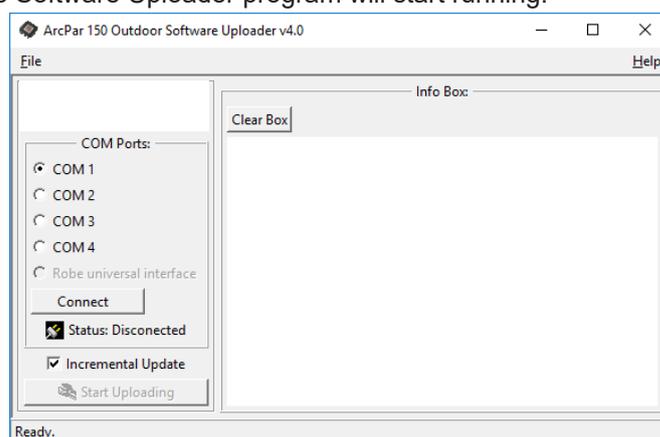
The following items are required in order to update software:

- PC running Windows or Linux or macOS
- DSU file
- Flash cable RS232/DMX P/N13050624 (if you want to use a serial port of PC)
- Robe Universal Interface or Robe Universal interface WTX (if you want to use an USB port of PC)

After the software updating the fixture will be set to default (factory) values.

To update software in the fixture:

1. DSU file is available from the Robe web site at WWW.robe.cz.
File with extension zip is intended for Windows (used and tested from XP to W10 on 32/64bit systems).
File with extension tbz is intended for Linux (used and tested on Debian and Ubuntu 32/64bit).
File with extension dmg is intended for macOS (used and tested on OSX up to Sierra) XQuartz required, install it from <https://www.xquartz.org/>
Save the download file to a folder on your computer.
In case that you use windows, extract files in the zip file (e.g. DSU_ArcPar150Outdoor_17080432.zip)
2. Disconnect the fixture from DMX controller.
3. If you use the flash cable RS232/DMX, connect a serial port of your computer with DMX input of the fixture by means of the cable.
If you use the Robe Universal Interface, connect a USB port of your computer with the Robe Universal Interface by means of the USB cable and DMX input of the fixture with the DMX output of the Robe Universal Interface via a DMX cable.
4. Switch the fixture to the update mode (Special --> SW Upd).
Note: If you do not want to continue in the software update, you have to switch off and on the fixture to escape from the updating mode.
We recommend to cancel all running programs on your computer before starting the software update.
5. Double-click the software uploader file (e.g. DSU_ArcPar150Outdoor_17080432.exe) in the extracted files. The Software Uploader program will start running.



6. Select correct "COM " number if you use a Flash cable RS232/DMX or select "Robe Universal Interface "

if you use the Robe Universal Interface/Robe Universal Interface WTX and then click on the "Connect" button.
 7. If the connection is OK, click the "Start Uploading" button to start software 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 processors with not topical versions of software, check the "Incremental Update box".

Avoid interrupting the process. 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.

In case upload process is interrupted (e.g. power loss), the fixture stays in "Updating mode" and you will have to repeat the software update again.

Another way, how to update software in the fixtures (especially large installation of fixtures) is to use the ROBE Uploader. It is a software for automatized software update of Robe fixtures. It can take advantage of Ethernet ports and RDM support if present in the units.

For more information please see <https://www.robe.cz/robe-uploader/>.

6. RDM

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

The RDM protocol allows data packets to be inserted into a DMX512 data stream without adversely affecting existing non-RDM equipment. By using a special „Start Code,“ and by complying with the timing specifications for DMX512, the RDM protocol allows a console or dedicated RDM controller to send commands to and receive messages from specific moving lights.

RDM allows explicit commands to be sent to a device and responses to be received from it.

The list of commands for the ArcPar 150 Outdoor is the following.

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		*	*
SENSOR_DEFINITION			*
SENSOR_VALUE			*
DISPLAY_INVERT		*	*
DISPLAY_LEVEL		*	*
DEVICE_RESET		*	
DMX_PERSONALITY		*	*
DMX_PERSONALITY_DESCRIPTION			*
STATUS_MESSAGES			*
STATUS_ID_DESCRIPTION			*
DEVICE_HOURS			*
PARAMETER_DESCRIPTION			*
ROBE_DMX_INPUT		*	*
ROBE_WIRELESS_UNLINK		*	

RDM model ID for the ArcPar 150 Outdoor is 0x00f6.

7. Error and information messages

Short Err

The message informs you that short circuit has occurred on the LED PCB.

8. Technical Specifications

Electrical

Power supply: electronic auto-ranging
Input voltage range (CE): 100-240V, 50-60Hz
Input voltage range (US): 100-277V, 50-60Hz
Max. power consumption: 180W (power factor=0.96)
Fuse:T 3.15A
Inrush current: 25 A max. (at 277 VAC, 25 °C ambient, cold start)

Optic

Light source: 7 x high power RGBW multichip LEDs
Min LED life expectancy: 20.000 hours
RGBW/CMY colour mixing
Variable CTO 2700-8000K
CRI: 77 (white 8000K), 72 (white 5600K), 65 (white 4200K), 44 (white 3200K), 33 (white 2700K)
Halogen lamp effect at whites 2700K and 3200K

Virtual colour wheel

66 preset colours
Rainbow effect with variable speed

Zoom range

3.8° - 60°

Strobe

Strobe effect with variable speed (0.3 - 20Hz)
Random strobe pulse-effect with variable speed
Opening/closing pulse effect with variable speed

Dimmer

Smooth dimmer from 0 - 100 %

Control

2-row LCD display & 4 buttons
Readout fixture usage, receiving DMX values, temperatures, etc
Built-in analyzer for easy fault finding, error messages
Stand-alone operation
3 user editable programs, each up to 40 steps
Supported protocols: USITT DMX 512, RDM,
Support of RDM (Remote Device Management)
3 DMX modes (17, 11, 5 control channels)
2 control modes (Standard and Easy)

Wireless DMX/RDM module (optional)

Compliance with USITT DMX-512 (1986 & 1990) and 512-A
Full DMX fidelity and frame integrity
Auto sensing of DMX frame rate and frame size
<5ms DMX latency
Operational frequency range of 2402-2480 MHz
Producer: LumenRadio

Connection

DMX IN/OUT: 2 x DMX outdoor cable CA-0611, length=1m, 2 x 5-pin XLR outdoor connector
Neutrik NC5MX-HD (male), Neutrik NC5FX-HD (female)

Power IN (US): power cable open ended, length=1.2m, (cable COLEMAN/CC 22326 16-3C
Black 600V 105°C)

Power IN (CE): power cable open ended, length=1.2m (cable H07BB-F 3 G1,5)

Rigging

Via mounting bracket (220° tilt range)

Temperatures

Maximum ambient temperature : 40° C

Maximum surface temperature : 80° C

Distances

Min. distance from flammable surfaces: 0.4 m

Min. distance of illuminated objects: 0.8 m

Total heat dissipation

615 BTU/h (calculated)

Protection factor

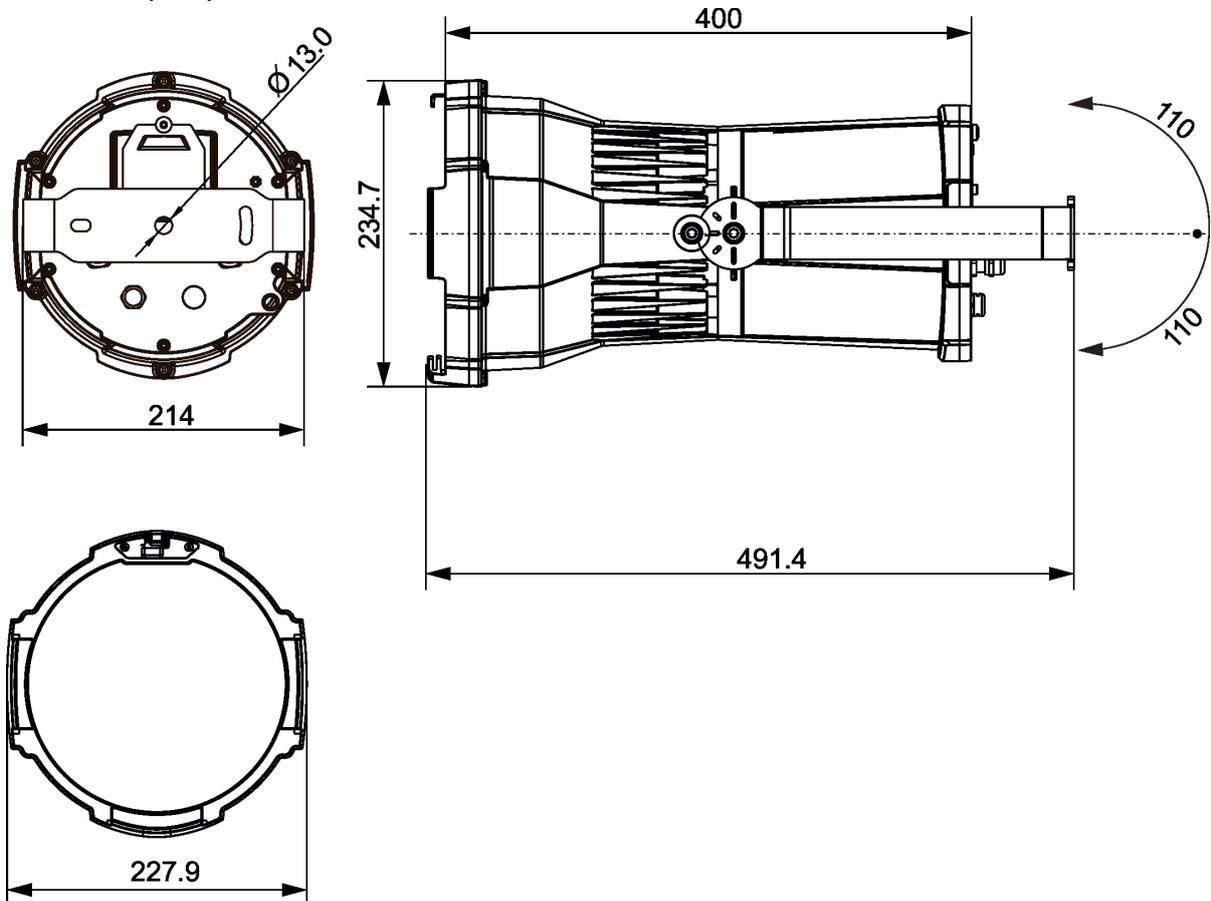
CE: IP 65

US: Suitable for wet locations

Weight

7.3 kg (without top hat)

Dimensions (mm)



Included items

- 1 x ArcPar 150 Outdoor
- 1 x User manual

Optional accessories

- (P/N 10980424) Top Hat ArcPar 150 Outdoor (silver)
- (P/N 10980425) Half Top Hat ArcPar 150 Outdoor (silver)
- (P/N 10980426) Top Hat ArcPar 150 Outdoor (black)
- (P/N 10980427) Half Top Hat ArcPar 150 Outdoor (black)
- (P/N 17030386) Doughty Trigger Clamp
- (P/N 99011963) Safety wire 35 kg

9. Maintenance and cleaning

Disconnect from the mains before starting any cleaning or service work.

It is absolutely essential that the fixture front transparent glass is kept clean and dust, dirt and smoke-fluid residues must not build up on the glass. Otherwise, the fixture's light-output will be significantly reduced. Regular cleaning will ensure the maximum light output.

A soft lint-free cloth moistened with any good glass cleaning fluid is recommended, under no circumstances should solvents be used!

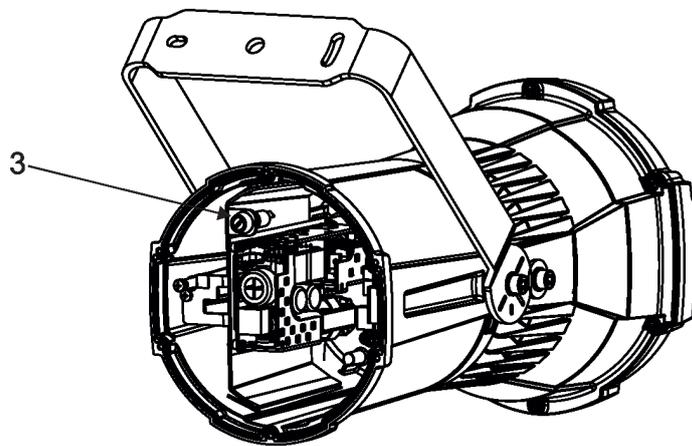
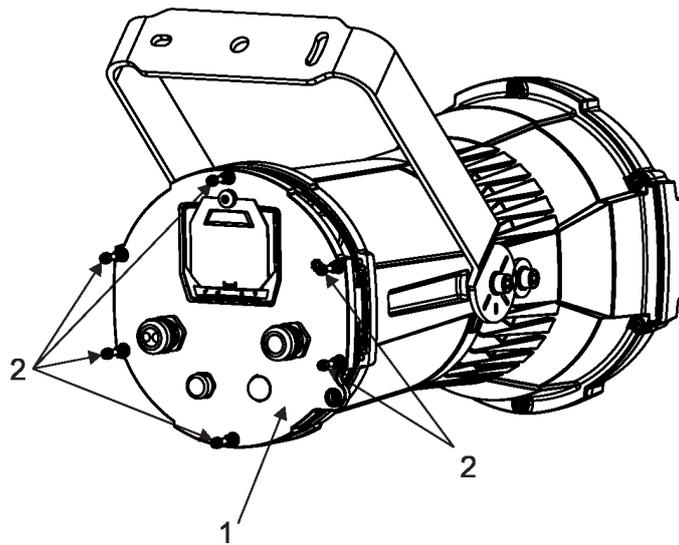
More complicated maintenance and service operations are only to be carried out by authorized distributors.

9.1 Replacing the fuse

Replace the fuse by a fuse of the same type and rating only.

Before replacing the fuse, unplug mains lead!

1. Disconnect the fixture from mains.
2. Remove the rear panel (1) from housing by unscrewing the six screws (2).
3. Remove the fuse from the fuse holder (3).
4. Install a new fuse (only the same type and rating) into the fuse holder.
5. Screw the rear panel (1) back to the housing by means of the six screws (2). Use a tightening torque of 3 Nm. Check that all screws are firmly screwed.



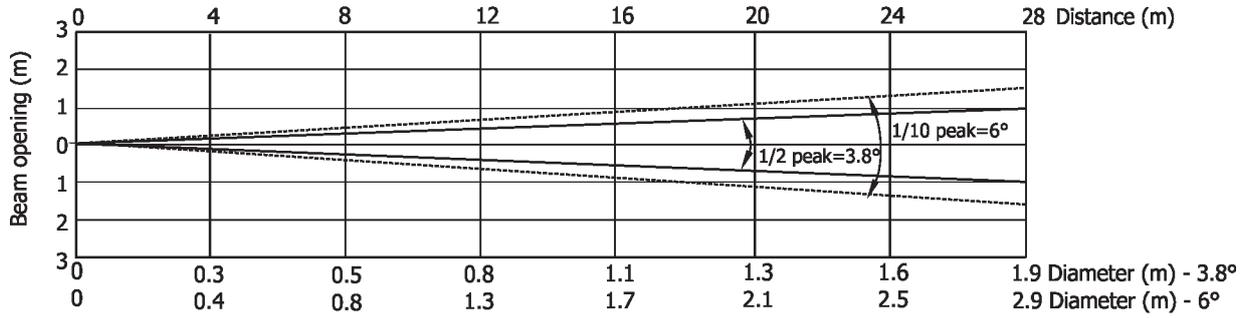
9.2 Disposing of the product

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

10. Photometric diagrams

Min. Zoom

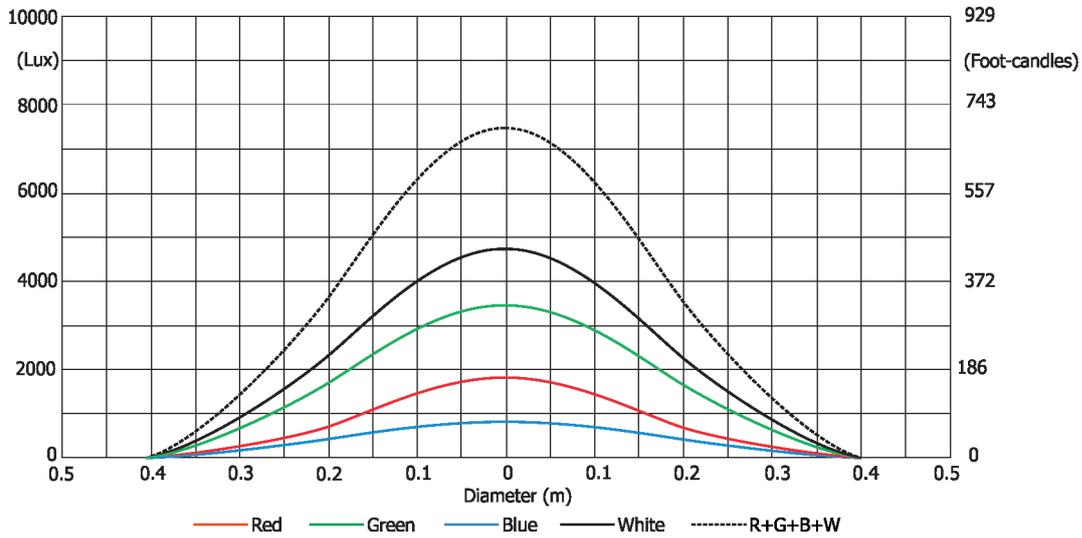
Total Output: 824 lumens



Distance (m)	4	5	8	12	16	20	24	28	
Red	3110/289	1990/185	777/72	345/32	194/18	124/12	86/8	64/6	Intensity (center) Lux/Footcandles
Green	5453/507	3490/324	1363/139	605/56	340/32	218/20	150/14	111/10	
Blue	1328/123	850/79	332/31	148/14	83/8	53/5	37/3.4	27/2.5	
White	7515/698	4810/447	1880/175	835/78	470/44	300/28	109/19	153/14	
R+G+B+W	10625/987	6800/632	2656/247	1180/110	664/62	425/40	295/27	217/20	

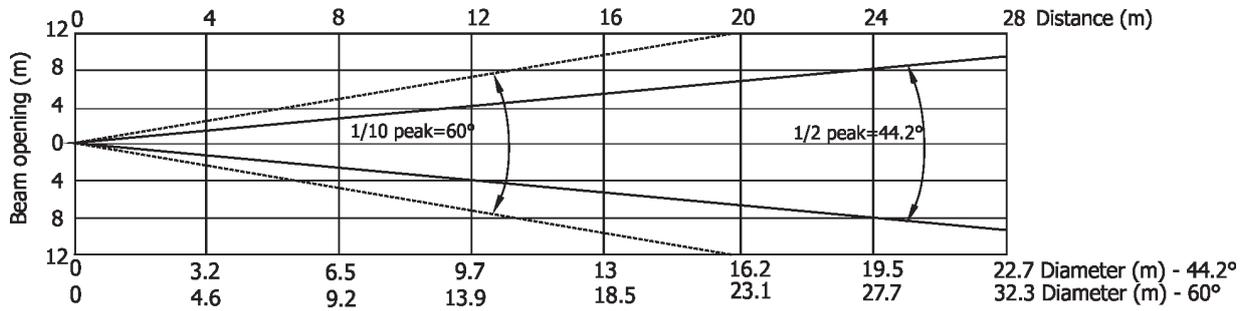
Illuminance distribution

Distance=5m



Max. Zoom

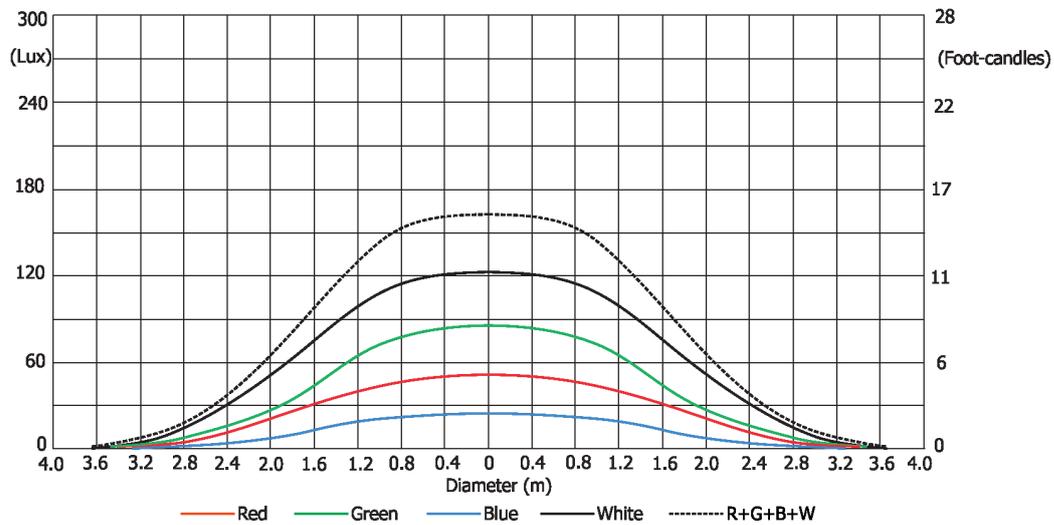
Total Output: 1676 lumens



Distance (m)	4	5	8	12	16	20	24	28	
Red	78/7.3	50/4.6	20/1.8	9/0.8	5/0.5	3/0.3	2/0.2	1.6/0.1	Intensity (center) Lux/Footcandles
Green	136/13	87/8	34/3.2	15/1.4	9/0.8	5/0.5	4/0.4	3/0.3	
Blue	33/3	21/2	8/0.8	4/0.3	2/0.2	1.3/0.1	0.9/0.1	0.7/0.1	
White	190/18	122/11.3	48/4.4	21/2	12/1.1	8/0.7	5/0.5	4/0.3	
R+G+B+W	272/25	174/16	68/6	30/2.8	17/1.6	11/1	8/0.7	6/0.5	

Illuminance distribution

Distance=5m



May 25, 2020

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Specifications are subject to change without notice.

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