ANOLiS

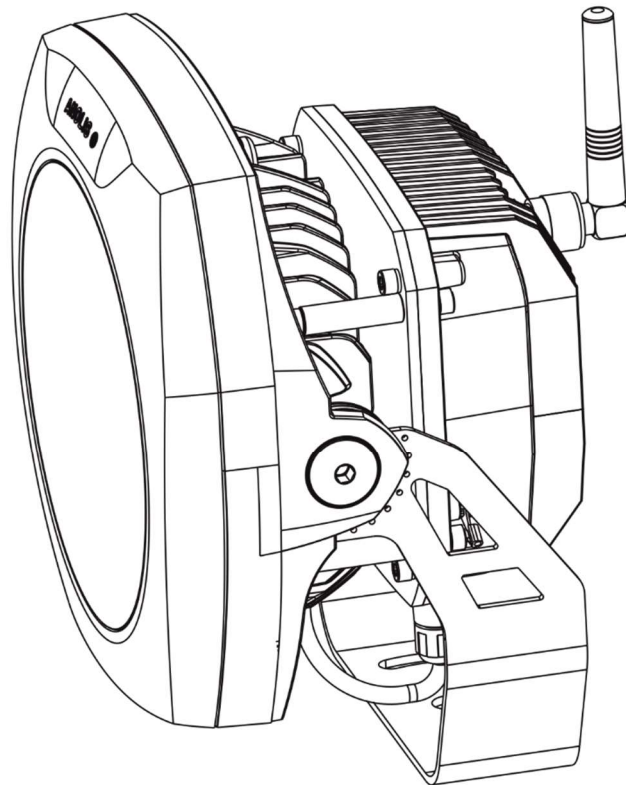## ArcSource Outdoor 24 MC Integral RGBW US
ArcSource Outdoor 24 MC Integral RGBA US
ArcSource Outdoor 24 MC Integral SmartWhite US
ArcSource Outdoor 24 MC Integral SingleColour US

USER MANUAL

Version 2.3 US

Table of contents

> *FOR YOUR OWN SAFETY, PLEASE READ THIS USER MANUAL CAREFULLY*
> *BEFORE POWERING OR INSTALLING YOUR ArcSource Outdoor 24 MC Integral US !*
> *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.

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 the fuses, or any part.

 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.

Do not install the unit near naked flames.

During the operation the housing becomes hot (up to 80°C)

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.

> *LED light emission. Risk of eye injury.*
> *Do not look straight at the fixture´s LEDs during operation. The intense light beam may damage your eyes.*

Keep compustible materials at least 20 cm away from the fixture.

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

 Avoid brute force when installing or operating the fixture.

The fixture was designed for outdoor use. <u>This fixture must not be used for underwater installation</u>.

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

Avoid using the unit in locations subject to possible impacts.

The fixture body never must be covered with cloth or other materials.

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.

Do not block the front objective LEDs with any object when the fixture is under operation.

The fixture becomes very hot during operation. Allow the fixture to cool approximately 30 minutes prior to manipulate with it.

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!

Do not attempt to dismantle or modify the unit.

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

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

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. Furthermore, any other operation may lead to dangers like short-circuit, burns, electric shock etc.

2. Fixture exterior view
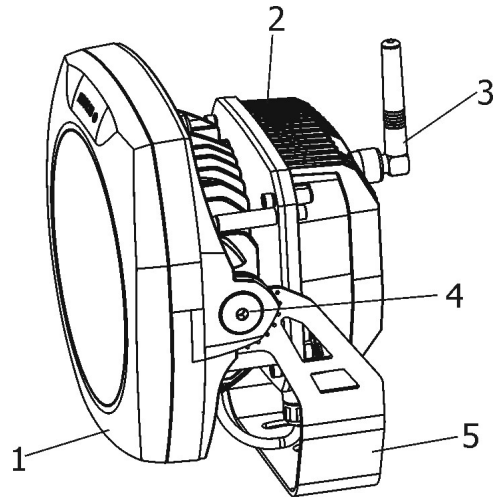
1. LED unit
2. Control unit
3. Antenna (only wireless DMX version)
4. Tilt adjusting locks
5. „U" bracket
6. Control board with anti-vandal cover
7. Power/Data cable
8. LED unit connecting cable
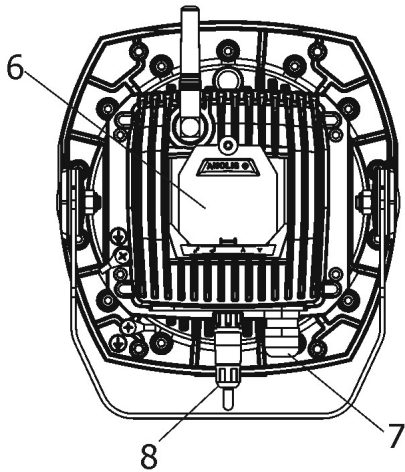
3. Installation

3.1 Mounting the fixture

The ArcSource Outdoor 24 MC Integral US can be arranged in any position orientation.
The LED module can be tilted to desired position by means of the tilt lock. Use an Allen key 6 to adjust desired position (0-90°).

Tilt lock

Three slots in the fixture "U" holder serve for mounting on the non-flammable flat surface

> *Ensure that the structure to which you are attaching*
> *the fixture is secure*

Caution: Overhead installation requires experience. Fixtures may cause severe injuries when crashing down! If you have doubts concerning the safety of a possible installation, do not install the device and consult installation with an expert.
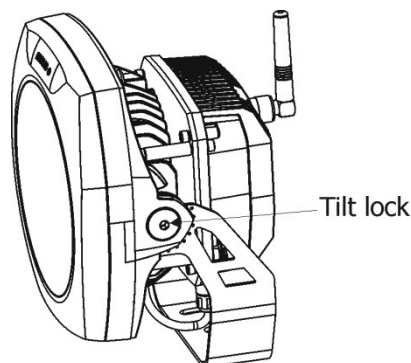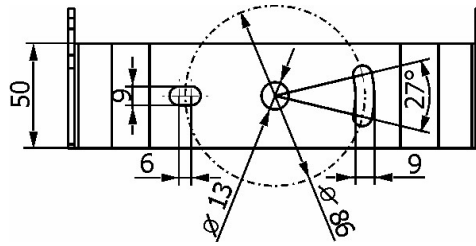
> *Warning for wireless DMX version!*
> *The fixture is supplied with the cap screwed on the antenna connector. This cap provides declared IP rating of the fixture but when the cap is removed, the enclosed antenna must be installed on the fixture to keep declared IP rating of the fixture!*

There is a possibility to install the LED unit and the control unit separately. Four holes with diameter of 5.3mm in the control unit are intended for mounting on a flat, non-flammable surface.   The length of the connection cable between the control unit and the LED unit should not exceed 20 m.

3.2 Top hat (Half top hat) installation
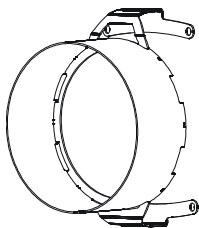
Top hat   Half top hat
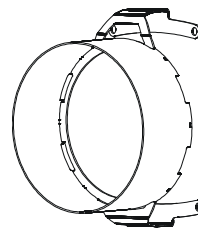
1. Unscrew the four socket heads 6x10 (1) in the ArcSource Outdoor 24 MC housing and slide the top hat (2) onto ArcSource outdoor 24 MC Integral US.
2. Secure it with four socket heads 6x10 through holes (3) in the top head.
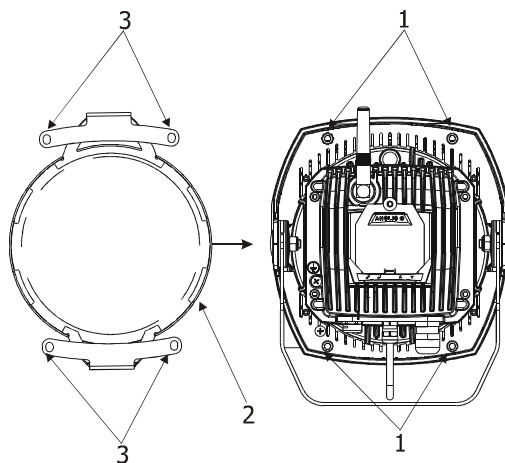
3.3 Connection to the mains

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

This device falls under class one and must be grounded!

The ArcSource Outdoor 24 MC Integral US is equiped with with a 5-cored power/data cable. The 3 cores serve for the power supply and next 2 shielded cores are intended for DMX connection as shown the table.

Core	Connection	Core	Connection
Black	Live	Red	Data +
Blue	Neutral	White	Data -
Yellow/Green	⏚	Shielding	0

The power/data cable is connected to a junction box as shown on the picture below.
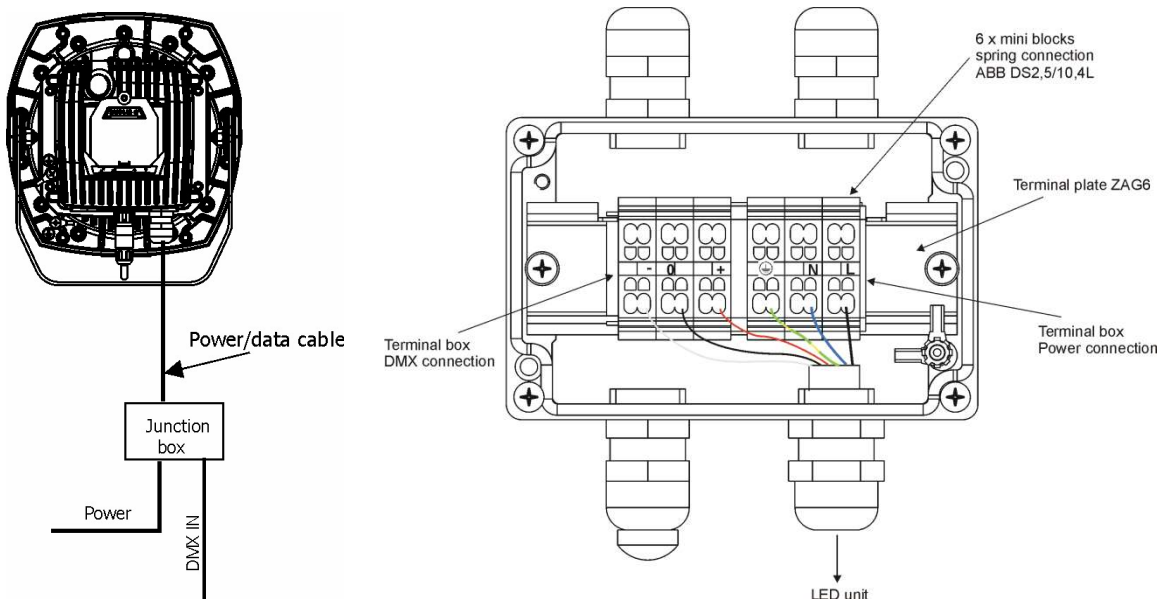
Connect the junction box acording to the tables below

Power connection

	L	N	⏚
EU	Braun	Blue	Green/yellow
US	Black	White	Green

DMX connection

+	0	-
Data +	Data ground(shielding)	Data -

Remove end caps from cable glands before passing cables into the junction box. The four cable glands M20 with standard seals serve for cable of diameter of 6-12mm, for smaller diameter of cable (4-8mm) you have to remove original sealing from the cable gland M20 and use the enclosed reducing seal instead it. Four reducing seals for diameter of cable 4-8mm (P/N 13051388) are enclosed.

Fully tighten cable gland nuts and check that cables are properly fastened in the cable glands.
 Note: To keep declared IP rating, every cable gland has to be covered with the end cap if this cable gland is not used for cable passing.

Cable gland M20 MS (P/N 13051206)

Sealing holder   Seal   Nut   End cap
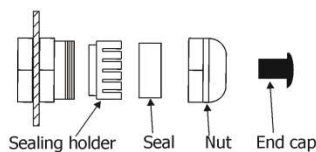
4 x Standard seal - part of cable gland M20 MS
(for diameter of cable: 6-12mm)

7 mm   70 mm   5 mm
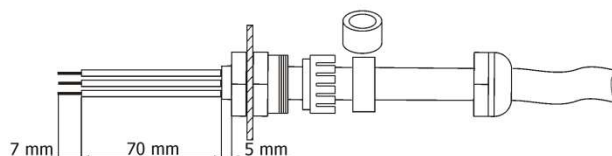
4 x Reducing seal (P/N 13051388) - enclosed, standard seal
has to be removed before installing this seal
(for diameter of cable: 4-8mm)

7 mm   70 mm   5 mm

Junction box   Junction box   Junction box

Power cable

DMX cable
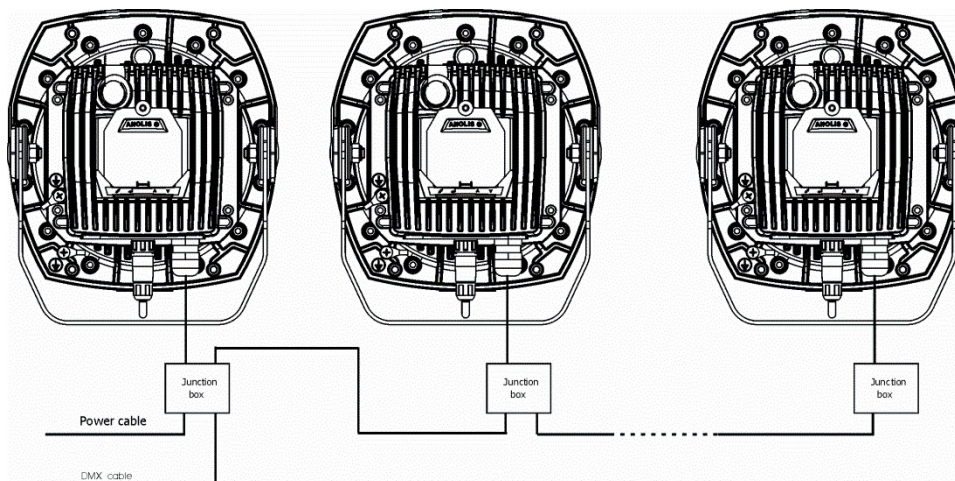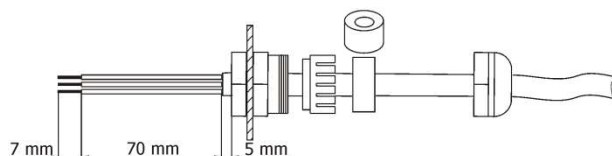
The junction box allows to connect several fixtures in a daisy chain of the power/data cable. Use the 3 x 1.5mm^2 power cable to connect the first junction box with the mains and the power/data cable for connecting fixtures each other. Do not overload the supply line and the connecting leads.
The max. number of connected fixtures in a daisy chain depends on the input voltage:
        27 fixtures at power supply= 230V (for power cable 3 x 1.5mm^2)
        13 fixtures at power supply= 120V (for power cable 3 x 1.5mm^2)
You have to take into account the the length of power/data cable, circuit breaker etc. at projecting of the fixtures installation.

4. Wireless DMX operation

The wireless version of the ArcSource Outdoor 24 MC Integral US 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 the DMX transmitter
Select option "Wireless" from the menu PErS (PErS-->DMX In.--> Wireless).
The fixture can be linked with the transmitter by running the link procedure at DMX transmitter .
After linking , the level of DMX signal (in %) is displayed in the menu item "Stat" (Special-->Wireless-->Stat.)

To unlink the fixture from DMX transmitter.
The fixture can be unlinked from DMX transmitter via the menu item "Unlink" (Special-->Wireless-->Unlink.)

Note: The ArcSource Outdoor 24 MC Integral US sends received wireless DMX signal to its wired DMX output. The fixture behaves as a " Wireless/Wired" adaptor.
E.g. You have 5 fixtures, one fixture is equipped with the wireless DMX module and 4 fixtures are standard fixtures without wireless DMX module. The first fixture receives wireless DMX and sents this signal to the rest of fixures, which are connected to the first fixture by means of the DMX cable in a DMX chain.

5. ArcSource Outdoor 24 MC Integral US (RGBW) - DMX protocol

Version 1.2

Mode/Channel				Value	Function	Type of control
1	**2**	**3**	**4**			
-	1	1	1	0 - 255	**Red LEDs** Red LEDs saturation control (0-100%)	proportional
-	2	2	2	0 - 255	**Green LEDs** Green LEDs saturation control (0-100%)	proportional
-	3	3	3	0 - 255	**Blue LEDs** Blue LEDs saturation control (0-100%)	proportional
-	-	4	4	0 - 255	**White LEDs** White LEDs saturation control (0-100%)	proportional
-	-	-	5	0 1-255	**CT0** No function Colour temperature correction (0-100%)	proportional
1	-	-	6	0 1-2 3 4-5 6 7-9 10-12 13-15 16 17-55 56 57 - 95 96 97 – 134 135 136 - 174 175 176 -214 215 216 – 246 247 248-251 252-255	**Virtual colour wheel** No function (for DMX mode 4) White (R+G+B+W=full for DMX mode 1) White 2700 K White 2700 K (Halogen lamp mode) White 3200 K White 3200 K (Halogen lamp mode) White 4200 K White 5600 K White 8000 K **Blue** (Blue=full, Red+Green+White=0) Red=0, Green→up,Blue =full, White=0 **Light Blue** (Red=0, Green=full, Blue =full, White=0) Red=0, Green=full, Blue→down, White=0 **Green** (Red=0, Green=full, Blue =0, White=0) Red→up, Green=full, Blue=0, White=0 **Yellow-green** (Red=full, Green=full, Blue=0, White=0) Red=full, Green→down, Blue=0, White=0 **Red**(Red=full, Green=0, Blue=0, White=0) Red=full, Green=0, Blue→up, White=0 **Magenta** (Red=full, Green=0, Blue=full, White=0) Red→down, Green=0, Blue=full, White=0 **Blue** (Red=0, Green=0, Blue=full, White=0) Rainbow effect with fade time (fast →slow) Rainbow effect without fade time (fast →slow)	step step step step step step step step step proportional step proportional step proportional step proportional step proportional step proportional step proportional proportional
2	-	-	7	0 - 255	**Dimmer** Dimmer intensity from 0% to 100%	proportional
-	-	-	8	0 - 255	**Dimmer fine** Fine dimmer intensity from low to high	Proportional

6. ArcSource Outdoor 24 MC Integral US (RGBA) - DMX protocol

Version 1.2

Mode/Channel				Value	Function	Type of control
1	**2**	**3**	**4**			
-	1	1	1	0 - 255	**Red LEDs** Red LEDs saturation control (0-100%)	proportional
-	2	2	2	0 - 255	**Green LEDs** Green LEDs saturation control (0-100%)	proportional
-	3	3	3	0 - 255	**Blue LEDs** Blue LEDs saturation control (0-100%)	proportional
-	-	4	4	0 - 255	**Amber LEDs** Amber LEDs saturation control (0-100%)	proportional
-	-	-	5	0 1-255	**CT0** No function Colour temperature correction (0-100%)	proportional
1	-	-	6	0 1-2 3 4-5 6 7-9 10-12 13-15 16 17-55 56 57 - 95 96 97 – 134 135 136 - 174 175 176 -214 215 216 – 246 247 248-251 252-255	**Virtual colour wheel** No function (for DMX mode 4) White (R+G+B=full for DMX mode 1) White 2700 K White 2700 K (Halogen lamp mode) White 3200 K White 3200 K (Halogen lamp mode) White 4200 K White 5600 K White 8000 K **Blue** (Blue=full, Red+Green+Amber=0) Red=0, Green→up,Blue =full, Amber =0 **Light Blue** (Red=0, Green=full, Blue =full, Amber =0) Red=0, Green=full, Blue→down, Amber =0 **Green** (Red=0, Green=full, Blue =0, Amber =0) Red→up, Green=full, Blue=0, Amber =0 **Yellow-green** (Red=full, Green=full, Blue=0, Amber =0) Red=full, Green→down, Blue=0, Amber =0 **Red**(Red=full, Green=0, Blue=0, Amber =0) Red=full, Green=0, Blue→up, Amber =0 **Magenta** (Red=full, Green=0, Blue=full, Amber =0) Red→down, Green=0, Blue=full, Amber =0 **Blue** (Red=0, Green=0, Blue=full, Amber =0) Rainbow effect with fade time (fast →slow) Rainbow effect without fade time (fast →slow)	step step step step step step step step step proportional step proportional step proportional step proportional step proportional step proportional step proportional proportional
2	-	-	7	0 - 255	**Dimmer** Dimmer intensity from 0% to 100%	proportional
-	-	-	8	0 - 255	**Dimmer fine** Fine dimmer intensity from low to high	Proportional

7. ArcSource Outdoor 24 MC Integral US (SmartWhite) - DMX protocol

Version 1.1

Mode/Channel			Value	Function	Type of control
1	2	3			
1	-	1	0 - 255	**Warm white LEDs** Warm white LEDs saturation control (0-100%)	proportional
2	-	2	0 - 255	**Cool white LEDs** Cool white LEDs saturation control (0-100%)	proportional
-	1	3		**Colour wheel**	
			0	No function	
			1-2	White 2800 K	step
			3-4	White 3200 K	step
			5-6	White 3800 K	step
			7-8	White 4200 K	step
			9-10	White 4600 K	step
			11-12	White 5000 K	step
			13-14	White 5600 K	Step
			15-16	White 6300 K	step
			17-247	Warm white --> Cool white	proportional
			248	Rainbow effect (with fade time)	step
			249	Rainbow effect	step
			250-255	Reserved	
-	2	4	0 - 255	**Dimmer** Dimmer intensity from 0% to 100%	proportional
-	-	5	0 - 255	**Dimmer fine** Fine dimmer intensity from low to high	proportional

8. ArcSource Outdoor 24 MC Integral US (Single colour) - DMX protocol

Version 1.1

Mode/Channel		Value	Function	Type of control
1	2			
1	1	0 - 255	**Dimmer** Dimmer intensity from 0% to 100%	proportional
-	2	0 - 255	**Dimmer fine** Fine dimmer intensity from low to high	proportional

9. Control menu map

Default settings=Bold print

Menu Level 1	Menu Level 2	Menu Level 3	Menu Level 4	Menu Level 5	Menu Level 6
DMXA 0001	Set DMXA	0001-0512			
InFo	POn Time.	Total			
		Reset			
	DMX In	REd	0-255		
		:			
		Dimmer F	0-255		
	Temp.	Current	Led		
			Board		
		Highest	Led		
			Board		
		High Res.	Led		
			Board		
	Sw Ver.	IC-1			
		IC-2			
PErS	DMX Pres	Mod.1			
		Mod.2			
		Mod.3			
		Mod.4			
	RGB Cnt	**Active,** Deactive			
	DMX In	**Wired**			
		Wireless			
		Analog 0-10V			
	M. FTime	**2**-25.5			
	Display	Turn			
		On/Off T	On, **Off**		

Menu Level 1	Menu Level 2	Menu Level 3	Menu Level 4	Menu Level 5	Menu Level 6
		Contrast	0-100%		
		Backlight	0-100%		
	Temp Uni	**°C**, °F			
	I Ef Pos	Red	0-255		
		Green	0-255		
		Blue	0-255		
		White (Amber)	0-255		
		CTC	0-255		
		C Wheel	0-255		
		Strobe	0-255		
		Dimmer	0-255		
		Dimmer F	0-255		
		Store			
	Defaults				
Manual	Red	0-255			
	:	:			
	Dimmer F	0-255			
Test Prg					
St ALone	Auto Run	**Off**			
		Test			
		Prog 1			
		:			
		Prog 3			
	Pr Play	Test Prg			
		Prog 1			
		:			
		Prog 3			
	Pr Edit	Prog 1	Step 01	Prg End	1-40

Menu Level 1	Menu Level 2	Menu Level 3	Menu Level 4	Menu Level 5	Menu Level 6
		:	:	Red	0-255
		Prog 3	Step 40	:	:
				F.Tim.	0-25.5 sec
				Copy	
Special	rdM Low				
	rdM High				
	LED type	RGBW			
		Sin. Col.			
		Smart. W.			
		RGBA			
	Wireless	Stat, Unlink			
	IniBlink	**On**, Off			
	Flicker freeM	On, **Off**			
	Adjust	DMX Val	Red	0-255	
			:		
			Dimmer F	0-255	
		Cal Col	Red C	0-255	
			:		
			Store		
		Cal.temp	2700K		
				Red C	0-255
				Grn C	0-255
				Blu C	0-255
				Whi C	0-255
				Store	
			3200K		
			4200K		
			5600K		
			8000K		
			Cal.Def.		
	Sw Upd	No/Yes			

RDM menu (e.g. for the Robe Universal Interface WTX, because this device cannot display 2-row display of the ArcSource Outdoor 24 MC Integral US)

Default settings=Bold print

Menu Level 1	Menu Level 2	Menu Level 3	Menu Level 4	Menu Level 5	Menu Level 6
A001	Dm.Ad.	A001			
InFo	Poti	totl			
		rSEt			
	DM. In	rEd	0-255		
		:			
		dim	0-255		
	tEMP.	Cur. t.	LEd		
			board		
		Hi.tE.	LEd		
			board		
		rSEt.	LEd		
			board		
	VErS.	IC1			
		IC2			
PErS	DM.Pr.	Mod.1			
		Mod.2			
		Mod.3			
		Mod.4			
	DM. In	**Wird**			
		rAdI			
		AnL.d.			
	M.F. ti.	**2**-25.5			
	tEM.u.	**°C**, °F			
	In.Po.	rEd			
		GrEn			
		bLuE			

Menu Level 1	Menu Level 2	Menu Level 3	Menu Level 4	Menu Level 5	Menu Level 6
		WhIt			
		CtC			
		C.vhE			
		Stro			
		dimr			
		F.dim			
		SAVE			
	dF. SE.				
Man. M.	rEd	0-255			
	:	:			
	Dim F	0-255			
tESt					
St. AL	Auto	**OFF**			
		tESt			
		PrG 1			
		:			
		PrG 3			
	PLAY	tEst			
		PrG1			
		:			
		PrG3			
	Edit	PrG 1	St. 01	P End	1-40
		:	:	rEd	0-255
		PrG3	St. 40	:	:
				S.tim.	0-25.5
				F.tim.	0-25.5
				COPy	
SPEC	rdM. L.				

Menu Level 1	Menu Level 2	Menu Level 3	Menu Level 4	Menu Level 5	Menu Level 6
	rdM. H.				
	t. LEd	rGbV			
		Si. Co.			
		SM. Vh.			
	rAdl.	Stat			
		UnLi			
	I.bLi.	**On**, Off			
	F. FrE	On, **Off**			
	Adj	Man.M	rEd	0-255	
			:		
			F. dinr	0-255	
		CAL. C.	rEd. C.	0-255	
			GrE.C	0-255	
			bLu.C.	0-255	
			VhI.C.	0-255	
			SAVE		
		CAL. t.	2700		
				rEd. C.	0-255
				GrE.C	0-255
				bLu.C.	0-255
				VhI.C.	0-255
				SAVE	
			3200		
			4200		
			5600		
			8000		
			CA.dF.		
	Upd	no/yES			

10. Fixture menu

The control panel menu allows to set the fixture according to your needs, obtain information on its operation and manual control of all effects.

The four control buttons on the front have the following functions:
  ↗ - **ESCAPE** button-leaves menu without saving changes.
  ↵ - **ENTER** button- enters menu, confirms adjusted values and leaves menu.
  ⋀ - **UP** and ⋁ - **DOWN** buttons - move between menu items on the same level, sets values.

10.1 Fixture Address

```
DMXA
0001
```

Use this menu to set the DMX address of the fixture.
Set DMXA --- **Set DMX address**. Select this submenu to set a DMX start address.
To set a DMX address.
  1. Use the UP/DOWN buttons to find " **DMXA/0001**" menu.
  2. Press the ENTER button.
  3. Use the UP/DOWN buttons to select desired start address.
  4. Press the ENTER button to confirm the choice.

Note: After switching on, the ArcSource Outdoor 24 MC Integral US will automatically detect whether DMX 512 data is received or not.
If there is no data received at the DMX input, the display will start to flash with actually set address.

10.2 Fixture information

```
Info
```

Use this menu to read useful information about the fixture status.
To display desired information.
  1. Use the UP/DOWN buttons to find the " InFo" menu.
  2. Press the ENTER button.
  3. Use the UP/DOWN buttons to select the required menu item.
  4. Press the ENTER button to confirm the choice.

Pon Time ---**Power On Time.** Use the menu item to read the number of operation hours of the fixture.
  Total - the function shows the total number of the operation hours since the ArcSource Outdoor 24 MC Integral US has been fabricated.
  Reset - the function shows the number of the operation hours that the ArcSource Outdoor 24 MC Integral US has been powered on since the counter was last reset.
  In order to reset this counter to 0 you have to press and hold the UP and DOWN buttons and at the at the same time press the ENTER button.

DM In ---**DMX values**. Select this function to read DMX values of each channel received by the fixture.

Temp ---**Fixture Temperatures.** Select this menu to read the temperatures of the fixture:
  Current --- the current temperature of the fixture inside.
  Highest - the menu item shows the max. temperatures of the fixture inside since the ArcSource Outdoor 24 MC Integral US has been fabricated.
  High Res. --- the menu item shows the maximum temperatures of the fixture inside since the counter was last reset. In order to reset this counter to 0 you have to press and hold the UP and DOWN buttons and at the at the same time press the ENTER button.

Measuring points: Led-temperature on the PCB with LEDs

                Board- temperature on the control board of LEDs

Note: The ambient temperature should not exceed 40°C.

The temperatures can be displayed in either °C or °F units - see option "tEM.U" in the menu "Pers".

Sw Ver ---**Software Versions.** Select this function to read the software version of the fixture processors.

10.3 Personality

```
Pers
```

Use this menu to modify the ArcSource Outdoor 24 MC Integral US operating behaviour.

DMX Pres --- **DMX preset**. Select this menu item to set a desired DMX mode. Please refer to the chapter "DMX protocol" for detail description of each DMX mode.

RGB Cnt ---**RGB counting**. If this function is active, the white channel (channel 4) uses red, green and blue chanels in proportional relation to ensure max. light output in a white colour (if white channel =full, also red, green and blue channels are full). This function is active for RGBW variant only.

DMX In --- **DMX input**. Use the menu to select mode of receiving DMX signal:

        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).

        Analog 0-10V --- Analog dimmer. If this option is selected, the dimmer channel can be controlled via DC voltage (0-10V) connected between pins 1 (data ground) and 3 (Data +) of DMX input of the fixture (0-data ground, 10V-data +).

        Procedure of setting:

        1. Set fixture´s channels at desired values (by means of menu item Init Effect Positions "I. Ef.Pos").

        2. Disconnect DMX controller

        3. Select option "Analog 0-10V" from menu DMX input

        4. Connect DC voltage to the DMX input of the fixture

M FTime --- **Max. Fade time.** Select this menu item to set a desired max. fade time (2-25.5 sec.). This adjusted fade time influences fade of Red, Green, Blue,White and dimmer during DMX operation:

If time between two receiving DMX values is > than fade time set in the item "M Ftime", the entire adjusted fade time will be used.

If time between two receiving DMX values is < than fade time set in the item"M Ftime", the adjusted fade time will be reduced to fill entire time between the two receiving DMX values.

e.g "M Ftime"=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.

"M Ftime"=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.).

Display. --- **Display adjusting**. This function allows you to change the display settings.

        Turn - This function turns the display by 180°.

        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%).

<u>Temp U</u> --- **Temperature Unit.** Use this menu in order to display the fixture temperatures in desired units: °C or °F.

<u>I Ef Pos</u> --- **Init effect positions.** Use this function to set all effects to the desired positions to which they will move after switching the fixture on (if DMX is not being received).

<u>Defaults</u> --- **Default Settings .**The menu item sets all fixture parameters to the default (factory) values.

10.4 Manual mode

Manual

Use this menu for control the fixture without connected DMX console.
To control fixture channels.
1. Use the UP/DOWN buttons to find " Manual" menu.
2. Press the ENTER button.
3. Use the UP/DOWN buttons to select desired effect (channel).
    List of control channels:
    "Red" - red LEDs saturations
    "Green" - green LEDs saturations
    "Blue" - blue LEDs saturations
    "White" - white LEDs saturations
    "C TC" - a colour temperature correction
    "C Wheel" - a virtual colour wheel
    "Strobe"- a strobe, shutter
    "Dimmer"- a dimmer
    "Dimmer F" a fine dimmer
4. Press the ENTER button and use the UP/DOWN buttons to set value , press the ENTER button to confirm it.

10. 5 Test sequences

Test Prog

Use this menu to run demo-test sequences without an external controller, which will show you some possibilities of using the ArcSource Outdoor 24 MC Integral US.

10.6 Stand-alone setting

Sta Alone

The fixtures on a data link are not connected to the controller but can execute pre-set programs which can be different for every fixture.

<u>Auto Run</u> --- **Automatic playback**. This function allows you to select the program which will be played after switching the fixture on. Selected program will be played continuously in a loop.
1. Use the UP/DOWN buttons to find " **Sta Alone**" menu.
2. Press the ENTER button.
3. Use the UP/DOWN buttons to select " **Auto Run**" item.
4. Press the ENTER button.
5. Use the UP/DOWN buttons to select desired program.
6. Press the ENTER button to confirm the choice.

<u>Pr Play</u> --- **Playing program**. By enter to this menu a complete overview of all programs is offered, from which the program to be run can be selected.

1. Use the UP/DOWN buttons to find "**Pr Play**" menu.
2. Press the ENTER button.
3. Use the UP/DOWN buttons to select desired program.
4. Press the ENTER button. The selected program runs in a loop.

Pr Edit --- Editing a program. The fixture offers 3 freely editable programs (Prog.1-Prog.3) each up to 40 steps. Every program step includes a <u>fade time</u>-the time taken by the step´s channel status to reach the desired level and a <u>step time</u>-the total time occupied by the step in the program.
 E.g. If "F.tim."=5 second and "S.tim."=20 second, effects will go to the desired position during 5 seconds and after that they will stay in this position for 15 seconds before going to the next prog. step

1. 1. Use the UP/DOWN buttons to find " **Sta Alone**" menu and press the ENTER button.
2. Use the UP/DOWN buttons to select "**Pr Edit**" menu and press the ENTER button.
3. Use the UP/DOWN buttons to select a program you want to edit (Prog.1-Prog.3) and press ENTER button.
4. Use the UP/DOWN buttons to select a desired program step ("Step 01" - "Step 40") and press ENTER button.
5. Use the UP/DOWN buttons to select a channel you want to edit and press the ENTER button.
   List of editable items:
   "Prg.En" - a total number of program steps (value 1-40). This value should be set before start programming (e.g. if you want to create program with 10 steps, set Prg.En=10).
   "Red" - red LEDs saturations
   "Green" - green LEDs saturations
   "Blue" - blue LEDs saturations
   "White"(Amber) – white (amber) LEDs saturations
   "C TC" - a colour temperature correction
   "C Wheel" - a virtual colour wheel
   "Strobe"- a strobe, shutter
   "Dimmer"- a dimmer
   "Dimmer F" a fine dimmer
    "F.tim."- a fade time, (0-25.5) seconds
   "S.tim."- step time, value (0-25.5) seconds
   "COPY". – this item duplicates the current prog. step to the next prog. step. The item "Prg En" is increased automatically.

6. Use the UP/DOWN buttons to set a DMX value of the channel and then press the ENTER button.
7. Use the UP/DOWN buttons to select next channel and press the ENTER button.
8. After having set all channels in the current program step, press the MODE button to go by one menu level back and select another program step.

10.7 Special functions

Special

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

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

LED type --- **LED colour variat**. This menu allows to set desired colour variant according to connected LED module.
        RGBW – RGBW variant.
        Sin. Col.– Single colour variant.
        Smart W.– Smart white variant.
        RGBA – RGBA variant
Note: The menu items and DMX chart will be changed according to set colour variant!

Wireless --- **Wireless state**. This menu serves for reading of the state of wireless operation (only Wireless DMX).

Unlink - The item serves for unlinking the fixture from the transmitter (only Wireless DMX version)

IniBlink --- **Initial blink.** If this function is on, the fixture makes auto-calibration (each LED colour lit on 100% for short time) after switching the fixture on.

Flicker Free M ---F**licker free mode.** If the function is on, the light flickering visible in cameras is corrected but colour uniformity is worse.

Adjust - **Adjustment**. The menu allows the fine adjustment of colours.

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

        Cal Col - A calibration o red, green, blue and white colours by means of an automatic calibration with a factory equipment. This function is active for RGBW variant only.

            Red C – red LEDs saturation (0-255)

            Grn C – green LEDs saturation (0-255)

            Blu C – blue LEDs saturation (0-255)

            Whi C – white LEDs saturation (0-255)

        Cal Temp – Selection of colour temperature for manual calibration: 2700K, 3200K, 4200K, 5600K, 8000K.

Manual colour calibration:

1. Connect the fixture to the mains , go to the "Manual" menu and set the shutter,dimmer, red, green, blue and white channel at 255DMX and let the fixture heat up (cca 1 hour).
2. Go to the "Manual" menu and set the C Wheel at 1 DMX (2700K)
3. Go to the "CalCol" menu, select "2700K" item and by means of the Red C, Green C, Blue C and White C items adjust the 2700K colour temperature as exactly as possible (Δu´v´= 0).
   After calibration, press the "Store" item to save adjusted values.
4. Go to the "Manual" menu and set the C Wheel at 4 DMX (3200K).
5. Go to the "CalCol" menu, select "3200K" item and by means of the Red C, Green C, Blue C and White C items adjust the 3200K colour temperature as exactly as possible (Δu´v´= 0).
   After calibration, press the "Store" item to save adjusted values.
6. Repeat this procedure for rest of colour temperatures (4200K, 5600K,8000K).

SW Upd --- **Software update**. The menu item allows you to update software in the fixture via either serial or USB port of PC.

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 No.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 attempt the update yourself and ask for help your Anolis distributor.

Note 2: DMX address, programs and all items in the menu "PErS" will be set to their default values.

To update software in the fixture:

I. Installation of the DMX Software Uploader.

1. DMX Software Uploader program 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 into it.
3. Unpack the program from the archive.
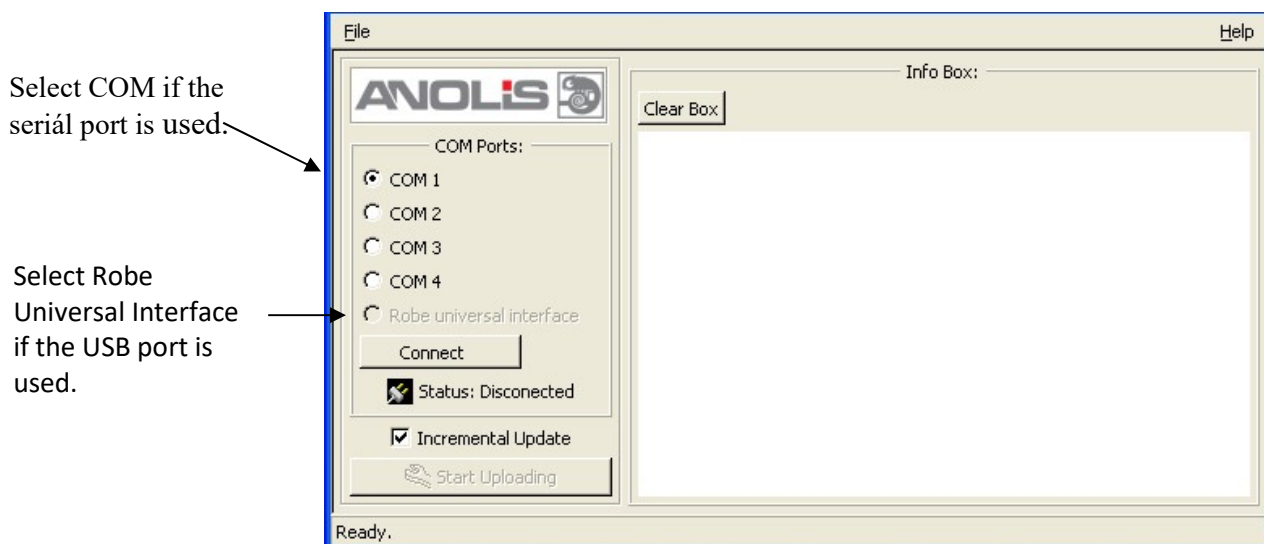
II. Fixture software updating.

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 DMX input of the Robe Universal Interface if you using the USB cable.

 Disconnect the fixture from the other fixtures in a DMX chain. Turn both the computer and the fixture on.
Make sure the lamp is switched off (only if the fixture involves a lamp).

2. Switch the fixture to the updating mode:
   1   Use the UP/DOWN buttons to find "**SPEC.**" menu.
   2   Press the ENTER button.
   3   Use the UP/DOWN buttons to select "**uPd.**" item.
   4   Press the ENTER button
   5   Use the UP/DOWN buttons to select "**yES**" option
   6   Press the ENTER button

Note: If you do not want to continue in 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 and then click on the Connect button.

Select COM if the
seriál port is used.

Select Robe
Universal Interface
if the USB port is
used.

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. 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: 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.

For example: The fixture was switched off before finishing software upload. After switching again the fixture on,
the fixture is still in the updating mode and the display is dark. Restart the Software Uploader program and repeat
software update from your PC.

11. RDM

This fixture is ready for 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 ArcSource Outdoor 24 MC Integral US 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_LEVEL		*	*
DEVICE_RESET		*	
DMX_PERSONALITY		*	*
DMX_PERSONALITY_DESCRIPTION			*
STATUS_MESSAGES			*
STATUS_ID_DESCRIPTION			*
DEVICE_HOURS			*

Please, see the Robe Universal Interface user manual for detail description of RDM operation.

12. Technical specifications

Power supply
- Electronic auto-ranging
- Input voltage: 120 - 277V AC, 50-60 Hz
- Power consumption: 70W (power factor=0.81, I=0.3A at 230V)

Optic & Effects
- Light source: 6 x high power multi-chip LEDs
- Available optical systems: 11°, 26°, 36°
- RGBW/RGBA colour mixing (RGBW/RGBA version only)
- Built-in colour macros (RGBW/RGBA version only)
- Adjustable strobe sequences
- White colour balance adjusting (RGBW version only)
- typical Lumen maintenance: 70%@ 60,000 hours

Control
- Protocol: USITT DMX 512, RDM
- DMX modes for RGBW/RGBA version: 4 (2,3,4,8 control channels)
- DMX modes for SmarWhite version: 3 (2,2,5 control channels)
- DMX modes for Single Colour version : 2 (1,2 control channels)
- Operation modes: DMX, Stand-alone
- Setting and addressing: Two-row LCD display & control buttons or via RDM
- 3 user editable programs each up to 40 steps.

Wireless DMX/RDM module (for wireless DMX version only: ArcSource Outdoor 24 MC Integral US/W**)**
- 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

Antenna (for wireless DMX version only)
- Max. gain: 5dBi

Strobe
- Strobe effect with variable speed (max. 20 flashes per second)
- Pre-programmed random strobe pulse-effects

Dimmer
- Smooth 16-bit dimming from 0 - 100 %

Rigging
- Via two slots in the fixture base

Temperatures
- Maximum ambient temperature: 40° C
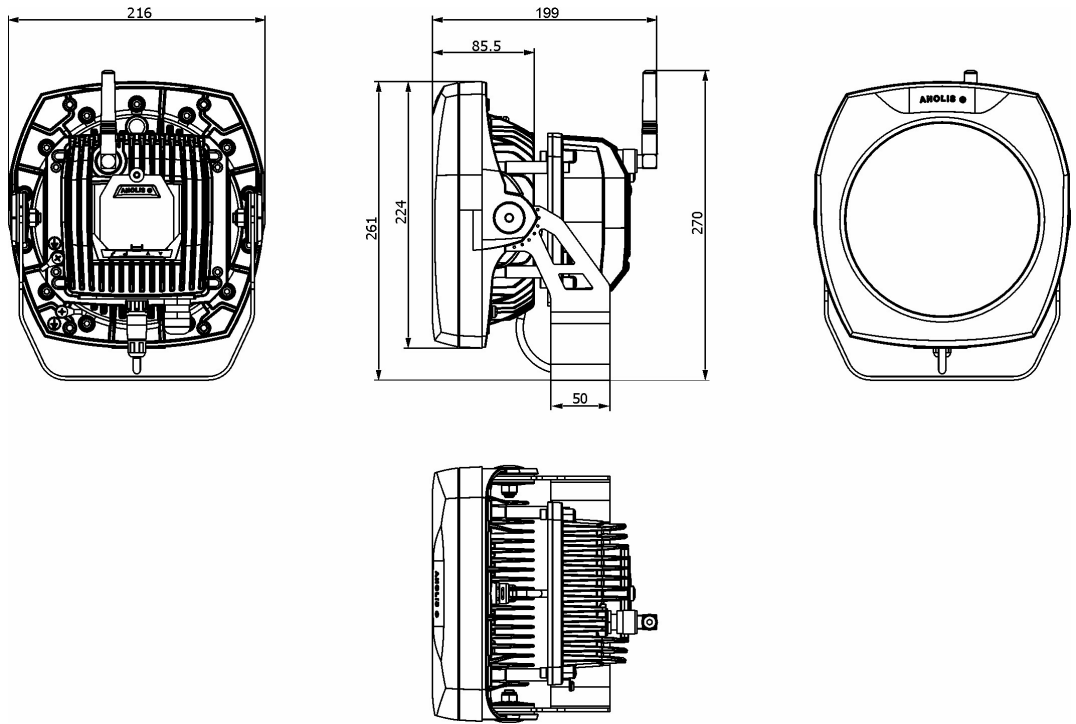- Maximum housing temperature: 80° C

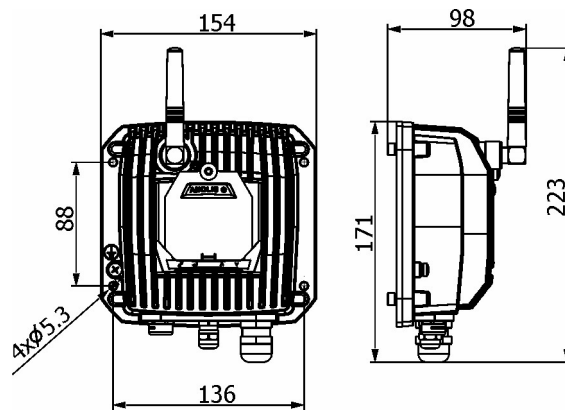**Total heat dissipation**
- 240 BTU/h (calculated)

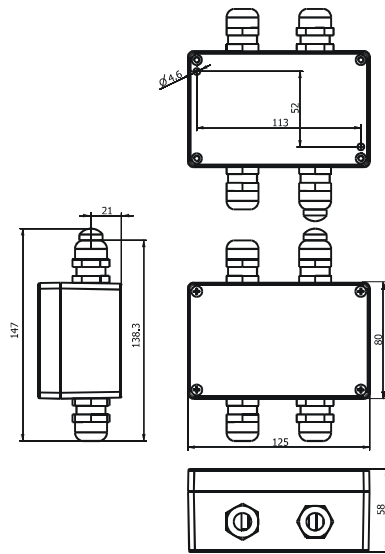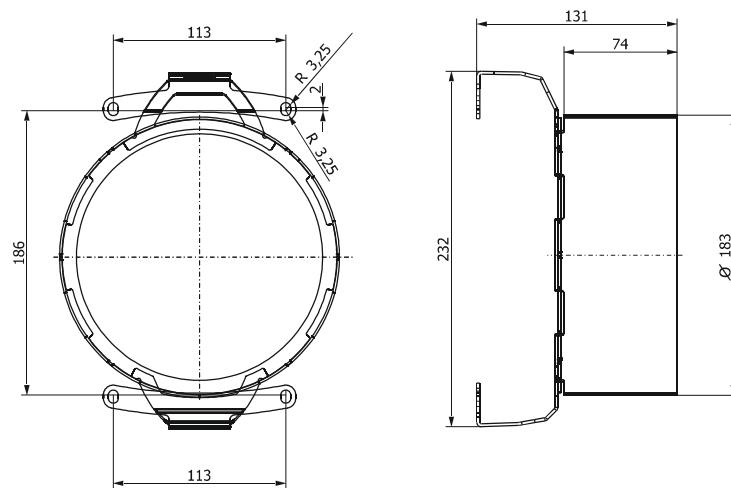**Dimensions (mm)**   **ArcSource Outdoor 24 MC Integral US**
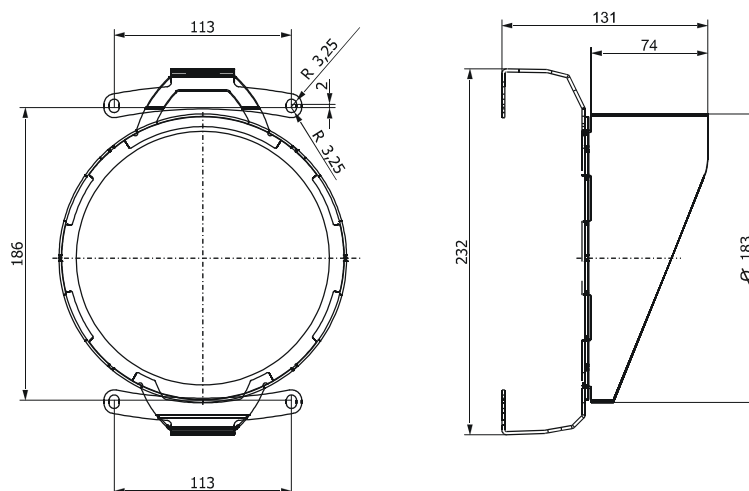
Separate control unit

Junction box

Top hat

Half top hat

28

Tilt adjustment range
- 90°

Weight
- 5.7 kg

Protection factor
- Suitable for wet location

Impact resistance
- IK 09

Connection
- Data/power cable: Li9Y11Y 3xAWG16+2xAVG24 shielded and jacketed
- junction box
- connection between LED unit and control unit: LiYY 8xAWG22 UL Style 2517/CSA O.D. 6,70mm with connectors (1x Chogori 08BMMA-SL8001 (male)- at LED unit and 1 x CGRBDU-08BFFA (female)-at Control unit)

  Note. In the case that the control unit is is installed separately, max. length of connection cable between the control unit and the LED unit should not exceed 20 metres.

Included items
- 1 x ArcSource Outdoor 24 MC Integral US
- 1 x Junction box (P/N 99714080)
- 4 x reducing seal (P/N 13051388) - for diameter of cable 4-8mm
- 1 x User manual

Optional Accessories
- Top Hat ArcSource Outdoor 24 MC (P/N. 10980171)
- Half Top Hat ArcSource Outdoor 24 MC (P/N. 10980172)
- Stand for ArcSource Outdoor 24 MC (P/N 1098 0175)

13. Cleaning and maintenance

<div style="border:1px solid black">

DANGER !
Disconnect from the mains before starting any cleaning or maintenance work

</div>

Rinse off loose dirt with low pressure water spray. Wash the housing with a soft brush or sponge and a mild, non-abrasive washing detergent. Rinse it.
There are no serviceable parts inside the device.
 Maintenance and service operations are only to be carried out by a qualified person.
Should you need any spare parts, please use genuine parts.

Specifications are subject to change without notice.
October 2, 2017