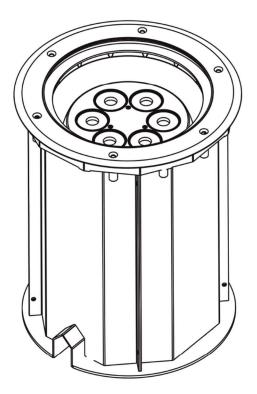


ArcSource Inground 24 MC Integral (RGBW, RGBA, SW, Single colour)

ArcSource Inground 24 MC Integral/W (RGBW, RGBA, SW, Single colour)



QR code for user manual



USER MANUAL

Version 2.9

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FOR YOUR OWN SAFETY, PLEASE READ THIS USER MANUAL CAREFULLY BEFORE POWERING OR INSTALLING YOUR ArcSource Inground 24 MC Integral ! 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 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 removing housing.

Do not install the unit near naked flames.

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.

Warning: the fixture's transparent cover becomes hot during operation.

Avoid brute force when installing the fixture.

The fixture was designed for outdoor use. This fixture must not be used for underwater installation.

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 transparent cover never must be covered with any material.

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

The fixture becomes hot during operation. Allow the fixture to cool approximately 20 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!

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

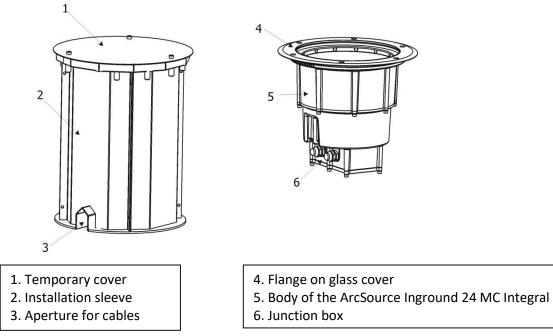
Please use the original packaging if the fixture is to be transported.

Dismantling of the unit, in case of its repair, must be carried out in a place with no rain.

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



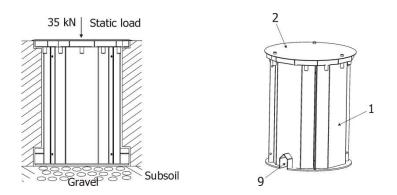
3. Installation

3.1 Mounting

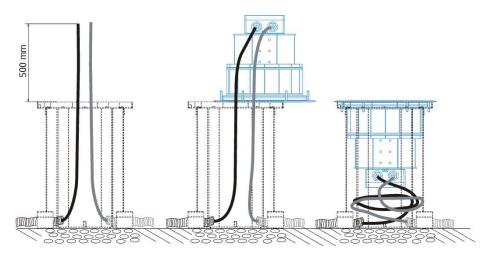
The unit must be installed by a qualified electrician in accordance with all national and local electrical and construction codes and regulations. With respect to the purpose of using the unit, the residual current circuit breaker is highly recommended.

The ArcSource Inground 24 MC is controlled via DMX 512 serial digital signal. It is indispensable to use cables that meet EIA RS-485 specifications to connect the fixture to the control console.

Warning! If the ArcSource Inground 24 MC Integral will be exposed max. allowed static load, the subsoil of the installation sleeve has to withstand load of 35kN.



1. Prepare an adequate hole with a good drainage leaving 300 mm of gravel on the bottom, insert the installation sleeve (1) into the hole and unscrew the temporary cover (2) from the installation sleeve. Prepare cabling for the unit. The length of supply (DMX) cables in the installation sleeve has to allow to pull the ArcSource Inground 24 MC Integral out from the installation sleeve and turn it upside down to get access to the junction box.



2.Connect the power cable and DMX cable to the junction box (3) of the ArcSource Inground 24 MC Integral (4). The apertures (9) serve for passing of cables. **Power connection**

	L	Ν					
EU	Braun	Blue	Green/yellow				
US	Black	White	Green				

This device falls under class one and must be grounded!

DMX connection

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

Base technical features of the ABB terminal blocks:

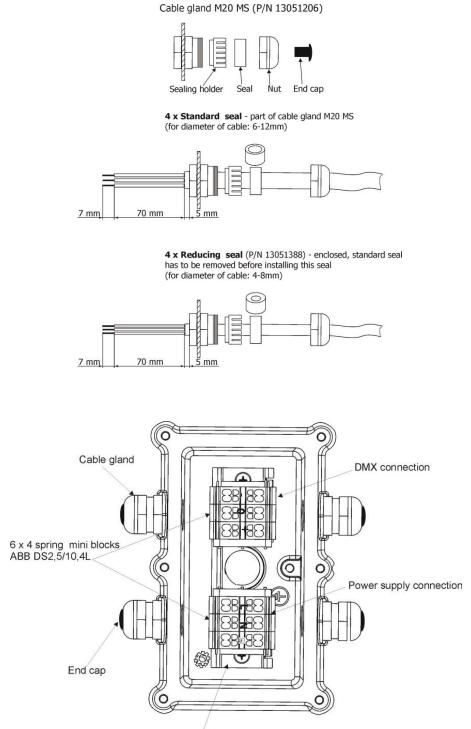
Type: DS 2,5/10.4L (4 springs mini blocks)

Parameter	IEC	UL/CSA
Rated voltage	800 V	600 V
Rated current	24 A	15 A
Wire size rated/gauge	2.5mm ² /A2	12AWG
Wire stripping length		9.5 mm

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 of 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.

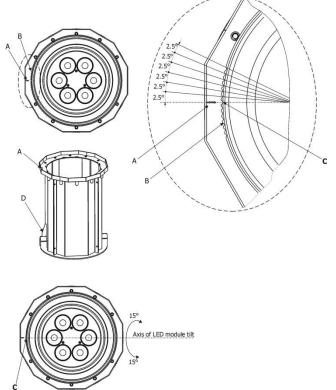


Terminal plate ZAG6

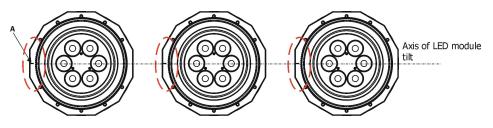
After connection needed cables, screw the cover of the junction box with four bolts using a tightening torque of 6Nm. Check that all cable glands and bolts are firmly screwed.

3. Insert the ArcSource Inground 24 MC Integral (4) into the installation sleeve (1) and adjust it to desired position.

Note: There is a projection (A) and the pad (D) on the sleeve housing and the notches (C) on the ArcSource Inground 24 MC Integral in order to facilitate adjusting of the ArcSource Inground 24 MC Integral towards the sleeve. The centre of the notches (C) on the ArcSource Inground 24 MC Integral also indicates the axis around which the LED module tilts.



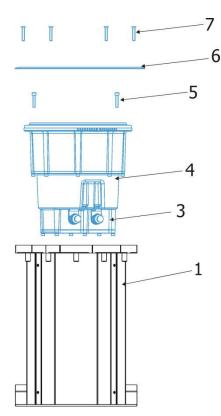
If units are installed in a row, keep the projection (A) on the sleeve housing on the same side at all units to keep the same direction of tilting of LED modules.



4. Secure the ArcSource Inground 24 MC Integral in desired position by means of the four Allen bolts M6x20mm (5).

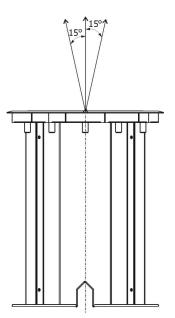
5. Insert top flange (6) on the ArcSource Inground 24 MC Integral and screw it on the sleeve (1) by means of the six screws M6x30mm (7). The screws must be tightened securely and uniformly, tightening first one and then the one diametrically opposite to it. Use a tightening torque of 6Nm for all screws.

After connecting the ArcSource Inground 24 MC Integral to mains, set desired tilt of the LED module.



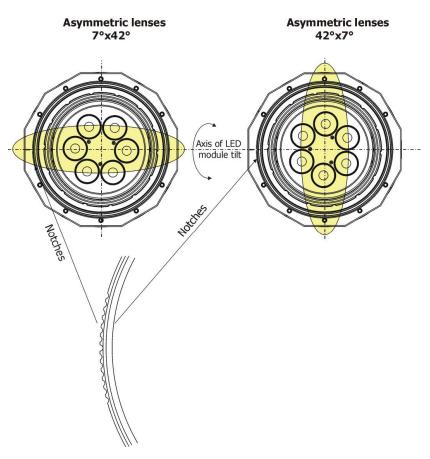
3.2 Beam tilt adjustment

The fixture beam can be tilted $\pm 15^{\circ}$ from a vertical axis by means of the item "tilt" in the fixture menu (SPEC \rightarrow tilt). Adjusted position of the LED module is permanent kept ,also after disconnected the fixture from mains. During the tilt adjustment, a white beam will appear.



3.3 Fixture with asymmetric lenses

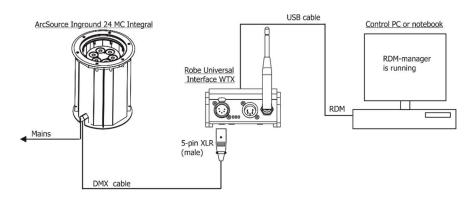
Differentiation of fixtures with asymmetric lenses and shape of light output.



3.4 Setting and control

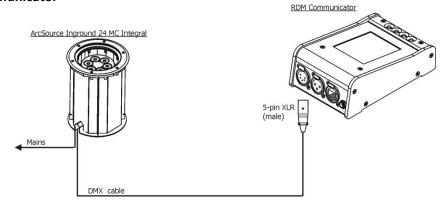
For setting DMX address, selecting DMX mode and for another settings you need either Robe Universal Interface WTX or the RDM Communicator. Please see the Robe Universal Interface WTX or RDM Communicator user manuals to get more information about this products.

1.Robe Universal Interface WTX



Note. The Robe Universal Interface WTX with the software RDM-manager can be also used for setting and control of wireless DMX version of the ArcSource Inground 24 MC Integral.

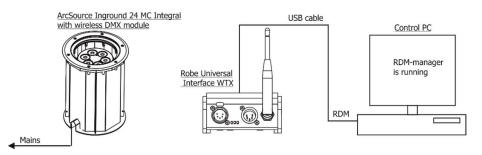
2. RDM Communicator



Note: the RDM Communicator cannot be used for control of the wireless DMX version of the ArcSource Inground 24 MC Integral.

3.5 Wireless DMX operation

The wireless version of the ArcSource Inground 24 MC Integral is equipped with the Lumen Radio CRMX module and antenna for receiving DMX signal. CRMX module operates on the 2.4 GHz band.



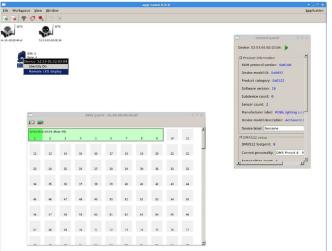
Setting of the ArcSource Inground 24 MC Integral with CRMX module.

You can use the Robe Universal Interface WTX and the software RDM-manager for setting and readout values in the fixture.

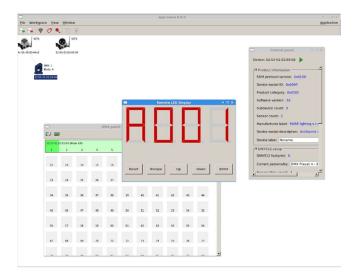
The software RDM-manager has to be installed on the control PC.

Link the ArcSource Inground 24 MC Integral to the Robe Universal Interface WTX by pressing the Link/Unlink button on the Robe Universal Interface WTX.

Run the RDM-manager and click with the right button of the mouse on the fixture UID and select the **Remote LED display** option from the menu list as shown below.



The Remote LED Display window will appear. Now you can control the fixture using the UP, Down, Enter, Escape and Reset buttons.



After switching the fixture on, the fixture waits for DMX signal on "wire" input for 30 sec. If no DMX signal is present, fixture starts switching between "wire" and "wireless" DMX input until finds DMX signal on some input. During this process fixture's effects (channels) stay in positions set in the menu Init Positions (In.Po). If DMX signal is located on both inputs (wired, wireless) at the same time, the signal which was receiving as last will be chosen.

To link the fixture with DMX transmitter.

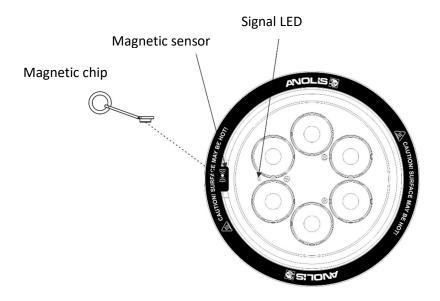
The fixture can be only linked with the transmitter by running the link procedure at DMX transmitter . After linking , the level of DMX signal (0-100 %) is displayed in the menu item "**SiGn**." (SPEC-->rAdI.--> SiGn.)

To unlink the fixture from DMX transmitter.

The fixture can be unlinked directly from the transmiter via the menu item "**unLi**." (SPEC-->rAdI.--> unLi.). The menu item "**rAd.t**." (PErS-->rAd.t) allows you to set time after the linked fixture will be unlinked from the transmitter, if the transmitter does not transmit DMX signal.

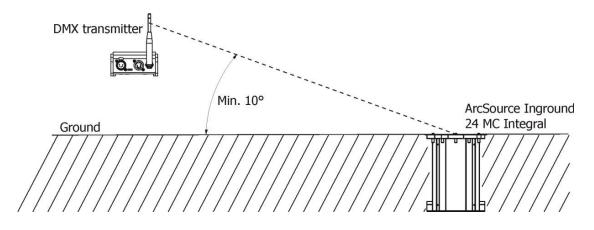
This time can be set from 0.1 hr (6 minutes) to 25.5 hours, default value is 1 hour. Value Off means 168 hrs.

Another method to unlink the fixture is by means of a magnetic chip applied to the magnetic sensor located under the front glass cover of the fixture. The magnetic chip has to be placed on the mark $\widehat{\underline{s}}$ on the glass cover for 5-10 seconds. Successful unlinking is indicated by the signal LED (green), lighting up for 5 seconds. After this, the signal LED will flash in accordance to the <u>LEd.E.</u> - Error signalling menu of Section 6.3.



Direct visibility between a transmitter and the ArcSource Inground 24 MC Integral must be ensured without no obstacles (bildings, trees, cars...).

The minimum angle between the ground with the ArcSource unit and transmitter's antenna is 10°. Distance between a DMX transmitter and the ArcSource unit depends on transmission range of used DMX transmitter, surrounds etc (we recommend to test behaviour of DMX transmitter with the ArcSource Inground 24 MC Integral before installation). The Robe Universal Interface WTX has been tested 80m from the ArcSource Inground 24 MC Integral at open space.



Note: The ArcSource Inground 24 MC Integral 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.

4. ArcSource Inground 24 MC Integral - DMX protocols

4.1 RGBW version

Version 1.0 Default mode: 3

Mo	Mode/Channel					
1	2	3	4	Value	Function	Type of control
-	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	<u>CT0</u> No function Colour temperature correction (0-100%)	proportional
1		-	6	$\begin{array}{c} 0\\ 1-2\\ 3\\ 4-5\\ 6\\ 7-9\\ 10-12\\ 13-15\\ 16\\ 17-55\\ 56\\ 57-95\\ 96\\ 97-134\\ 135\\ 136-174\\ 175\\ 176-214\\ 215\\ 216-246\\ 247\\ 248-251\\ 252-255\\ \end{array}$	Virtual colour wheelNo function (for DMX mode 4)White (R+G+B+W=full for DMX mode 1)White 2700 KWhite 2700 K (Halogen lamp mode)White 3200 KWhite 3200 K (Halogen lamp mode)White 3200 K (Halogen lamp mode)White 4200 KWhite 5600 KWhite 5600 KWhite 8000 KBlue (Blue=full, Red+Green+White=0)Red=0, Green→up,Blue =full, White=0Light Blue (Red=0, Green=full, Blue =full, White=0)Red=0, Green=full, Blue→down, White=0Green (Red=0, Green=full, Blue =0, White=0)Red→up, Green=full, Blue=0, White=0Yellow-green (Red=full, Green=full, Blue=0, White=0)Red=full, Green=0, Blue=0, White=0Red(Red=full, Green=0, Blue=0, White=0)Red=full, Green=0, Blue=0, Blue=10, White=0Red=full, Green=0, Blue=10, White=0Red=full, Green=0, Blue=10, White=0Red=0, Green=0, Blue=10, White=0Rainbow effect with fade time (fast →slow)Rainbow effect without fade time (fast →slow)	step step step step step step step step
-	-	-	7	0-31 32-63 64-95 96-127 128-143	Shutter/ Strobe Shutter closed Shutter open Strobe-effect from slow to fast Shutter open Opening pulses in sequences slow> fast	step step proportional step proportional

				144-159 160-191 192-223 224-255	Closing pulses in sequences fast> slow Shutter open Random strobe-effects from slow to fast Shutter open	proportional step proportional step
2	-	-	8	0 - 255	<u>Dimmer</u> Dimmer intensity from 0% to 100%	proportional
-	-	-	9	0 - 255	<u>Dimmer fine</u> Fine dimmer intensity from low to high	Proportional

	I-2 RGBA version Version 1.0 Default mode: 3							
Мо	de/C	hann	nel					
1	2	3	4	Value	Function	Type of control		
-	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	255 Amber LEDs saturation control (0-100%)			
-	-	-	5	0 1-255	<u>CT0</u> No function Colour temperature correction (0-100%)	proportional		
1	_	-	6	$\begin{array}{c} 0\\ 1-2\\ 3\\ 4-5\\ 6\\ 7-9\\ 10-12\\ 13-15\\ 16\\ 17-55\\ 56\\ 57-95\\ 96\\ 97-134\\ 135\\ 136-174\\ 175\\ 176-214 \end{array}$	Virtual colour wheelNo function (for DMX mode 4)White (R+G+B=full for DMX mode 1)White 2700 KWhite 2700 K (Halogen lamp mode)White 3200 K (White 5600 KWhite 5600 KWhite 8000 KBlue (Blue=full, Red+Green+Amber=0)Red=0, Green→up,Blue =full, Amber =0Light Blue (Red=0, Green=full, Blue =full, Amber =0)Red=0, Green=full, Blue→down, Amber =0Green (Red=0, Green=full, Blue=0, Amber =0)Red→up, Green=full, Blue=0, Amber =0Red=full, Green→down, Blue=0, Amber =0Red=full, Green=0, Blue→up, Amber =0Red=full, Green=0, Blue→up, Amber =0Red=full, Green=0, Blue→up, Amber =0	step step step step step step step step		

				215 216 – 246 247 248-251 252-255	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 proportional step proportional proportional
-			7	0-31 32-63 64-95 96-127 128-143 144-159 160-191 192-223 224-255	Shutter/Strobe Shutter closed Shutter open Strobe-effect from slow to fast Shutter open Opening pulses in sequences slow> fast Closing pulses in sequences fast> slow Shutter open Random strobe-effects from slow to fast Shutter open	step step proportional step proportional proportional step proportional step
2	-	-	8	0 - 255	<u>Dimmer</u> Dimmer intensity from 0% to 100%	proportional
-	-	-	9	0 - 255	<u>Dimmer fine</u> Fine dimmer intensity from low to high	Proportional

4.3 SW version

Version 1.0 Default mode: 1

Mode/Channel		Malua	Function	Turne of control	
1	2	3	Value	Function	Type of control
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	0 1-2 3-4 5-6 7-8 9-10 11-12 13-14 15-16 17-247 248 249 250-255	Colour wheel No function White 2800 K White 3200 K White 3800 K White 4200 K White 4600 K White 5000 K White 5600 K White 6300 K Warm white> Cool white Rainbow effect (with fade time) Rainbow effect Reserved	step step step step step step step proportional step step
-	-	4	0-31 32-63	<u>Strobe</u> Shutter closed Shutter open	step step

			64-95 96-127 128-143 144-159 160-191 192-223 224-255	Strobe-effect from slow to fast Shutter open Opening pulses in sequences slow> fast Closing pulses in sequences fast> slow Shutter open Random strobe-effects from slow to fast Shutter open	proportional step proportional proportional step proportional step
-	2	5	0 - 255	<u>Dimmer</u> Dimmer intensity from 0% to 100%	proportional
-	-	6	0 - 255	<u>Dimmer fine</u> Fine dimmer intensity from low to high	proportional

4.4 Single colour version

Version 1.0	ersion 1.0 Default mode: 1								
Mode/C	Mode/Channel		Function	Type of control					
1	2	Value							
-	1		<u>Strobe</u>						
		0-31	Shutter closed	step					
		32-63	Shutter open	step					
		64-95	Strobe-effect from slow to fast	proportional					
		96-127	Shutter open	step					
		128-143	Opening pulses in sequences slow> fast	proportional					
		144-159	Closing pulses in sequences fast> slow	proportional					
		160-191	Shutter open	step					
		192-223	Random strobe-effects from slow to fast	proportional					
		224-255	Shutter open	step					
1	2		Dimmer						
		0 - 255	Dimmer intensity from 0% to 100%	proportional					
			Dimmer fine						
-	3	0 - 255	Fine dimmer intensity from low to high	proportional					

5. Control menu map

5.1 RGBW/RGBA version

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.	001-512			
InFo	Poti.	totL			
		rSEt			
	DM.In.	rEd	0-255		
		:			
		F.dim	0-255		
	tEMP.	Cur.t.	tEM.b.		
		Hi.tE.	tEM.L.		
		rSEt			
	VErS.	IC1			
		IC2			
PErS	dM.Pr.	Mod.1			
		Mod.2			
		Mod.3			
		Mod.4			
	rAd.t.	OFF, 0.1 1 25.5hrs			
	M. F.ti	0.1 -25.5			
	rGb.C.	On, Off			
	d.EHP.	0.40 1.00 2.55			
	Po.Li	20 100			
	tEM.U.	°C , °F			
	Led.E	On , OFF			
	In.Po.	rEd1	0-255		
		:			1

Menu Level 1	Menu Level 2	Menu Level 3	Menu Level 4	Menu Level 5	Menu Level 6
		F.dim	0-255		
		Stor.			
	dFSE				
MAn.M.	rEd	0-255			
	:				
	F.din	0-255			
tESt	run				
St.AL.	Auto	Off			
		tESt			
		PrG.1			
		:			
		PrG.3			
	PLAY	tESt			
		PrG.1			
		:			
		PrG.3			
	Edit	PrG.1	St.01	P.End	1-40
		:	:	rEd	0-255
		PrG.3	St.68	:	:
				F.din	0-255
				F.tin.	0-25,5 sec
				S.tin.	0-25.5 sec
				СоРҮ	
SPEC.	rdML				
	rdMH				
	t.LEd	rGbU			
		rGbA			
		SI.Co.			
		SM.Uh.			

Menu Level 1	Menu Level 2	Menu Level 3	Menu Level 4	Menu Level 5	Menu Level 6
	rAdl	SiGn.			
		unLi			
	I.bLi.	On , OFF			
	HOLd	On , Off			
	F.FrE	On, OFF			
	tilt				
	Adj.	Man.M.	rEd		
			:		
			F.din		
		CaL.C.	rEd. C.	0-255	
			GrE.C.	0-255	
			bLu.C.	0-255	
			VhI.C. (Anb.C.)	0-255	
			SAVE		
		CAL.t.	2700	rEd.C.	0-255
			3200	GrE.C.	0-255
			4200	bLu.C.	0-255
			5600	UhI.C. (Anb.C.)	0-255
			8000		
	uPd.				

5.2 SW version

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.	001-512			
InFo	Poti.	totL			
		rSEt			
	DM.In.	rEd	0-255		
		:			
		F.dim	0-255		
	tEMP.	Cur.t.	tEM.b.		
		Hi.tE.	tEM.L.		
		rSEt			
	VErS.	IC1			
		IC2			
PErS	dM.Pr.	Mod.1			
		Mod.2			
		Mod.3			
	rAd.t.	OFF, 0.1 1 25.5hrs			
	M. F.Time	0.1 -25.5			
	tEM.U.	°C , °F			
	LEd.E	On , OFF			
	In.Po.	UU	0-255		
		:			
		F.dim	0-255		
		Stor.			
	dFSE				
MAn.M.	UU	0-255			
	:				
	F.din	0-255			
tESt	run				

Menu Level 1	Menu Level 2	Menu Level 3	Menu Level 4	Menu Level 5	Menu Level 6
St.AL.	Auto	Off			
		tESt			
		PrG.1			
		:			
		PrG.3			
	PLAY	tESt			
		PrG.1			
		:			
		PrG.3			
	Edit	PrG.1	St.01	P.End	1-40
		:	:	UU	0-255
		PrG.3	St.68	:	:
				F.din	0-255
				F.tin.	0-25,5 sec
				S.tin.	0-25.5 sec
				СоРҮ	
SPEC.	rdML				
	rdMH				
	t.LEd	rGbU			
		SI.Co.			
		SM.Uh.			
	rAdI	SiGn.			
		unLi			
	I.bLi.	On , OFF			
	HOLd	On, Off			
	F.FrE	On, OFF			
	tilt				
	uPd.				

5.3 Single colour version

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.	001-512			
InFo	Poti.	totL			
		rSEt			
	DM.In.	Stro	0-255		
		:			
		F.din	0-255		
	tEMP.	Cur.t.	tEM.b.		
		Hi.tE.	tEM.L.		
		rSEt			
	VErS.	IC1			
		IC2			
PErS	dM.Pr.	Mod.1			
		Mod.2			
	rAd.t.	OFF, 0.1 1 25.5hrs			
	M. F.Time	0.1 -25.5			
	rGb.C.	On , OFF			
	d.EHP.	0.40 1.00 2.55			
	Po.Li	20 100			
	tEM.U.	°C , °F			
	LEd.E	On , OFF			
	In.Po.	Stro	0-255		
		:			
		F.dim	0-255		
		Stor.			
	dFSE				

Menu Level 1	Menu Level 2	Menu Level 3	Menu Level 4	Menu Level 5	Menu Level 6
MAn.M.	Stro	0-255			
	:				
	F.din	0-255			
tESt	run				
St.AL.	Auto	Off			
		tESt			
		PrG.1			
		:			
		PrG.3			
	PLAY	tESt			
		PrG.1			
		:			
		PrG.3			
	Edit	PrG.1	St.01	P.End	1-40
		:	:	Stro	0-255
		PrG.3	St.68	:	:
				F.din	0-255
				F.tin.	0-25,5 sec
				S.tin.	0-25.5 sec
				СоРҮ	
SPEC.	rdML				
	rdMH				
	t.LEd	rGbU			
		SI.Co.			
		SM.Uh.			
	rAdl	SiGn.			
		unLi			
	I.bLi.	On , OFF			

Menu Level 1	Menu Level 2	Menu Level 3	Menu Level 4	Menu Level 5	Menu Level 6
	HOLd	On , Off			
	F.FrE	On, OFF			
	tilt				
	uPd.				

6. Fixture menu

To browse the fixture menu, use e.g. the Robe Universal Interface WTX (RUNIT VTX) and the software RDMmanager. Connect the RUNIT WTX with the junction box via shielded twisted-pair cable designed for RS-485 and 5pin XLR-plug (male).

Run the RDM-manager on your computer and click with the right button of the mouse on the fixture and select the **Remote LED display** option from the menu list as shown below.

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Elle Workspace	yiew	Window	v										۵	plication
?	0 .		Ŧ											
A WTX	-	b	тк											
55-00:00 44:0	521	3-62-60-00	134										Control panel + D X	
													Device: 52:53-01:02:03:04 🕨	
1 A A	NOX: 1												Product information	
	identity C		03:04										RDM protocol version: 0x0100	
	Remote		hy										Device model ID: 0x0097	
													Product category: 0x0102	
													Software version: 16	
													Subdevice count: 0	
													Sensor count: 2	
													Manufacturer label: ROBE lighting s.r.c	
				D	MX patch	- 4c:55-	00,00,44	:dł				σ ×.	Device model description: ArcSource I	
	0												Device label: Noname	
	52:53:01:0	03:04 (Mo	de 4/91									î		
	1	2	3	4	5	6	7	8	9	10	11		CONX512 setup	
												_	DMX512 footprint: 9	
	12	13	34	15	36	17	2.0	19	20	21	22		Current personality: DMX Preset 4 - 9	
												8	A Barrandbiar cause a	
	23	24	25	26	27	28	29	30	31	32	33			· · ·
	34	35	34	37	38	20	40	41	42	43	44			
	45	46	47	48	43	50	51	\$2	\$3	\$4	55			
	56	\$7	5.8	59	60	61	62	63	64	65	- 66	8		
	67	68	69	20	n	n	- 73	74	75	76	\overline{n}	8		
												-1		
-	-													

The Remote LED Display window will appear. Now you can fully control the fixture using the UP, Down, Enter, Escape and Reset buttons.

orkspace View	Mindo						aps	-name 0	0.0		A
😤 🖉 🕯		197									A1
WTX.	·	πx									
											-
44nd S	53-02-00-0	2.34									Control panel + 0 ×
A Dec 1											Device: 52:53-01:02:03:04 🕨
Hode: 4											Product information
\$2 53-01 02:03:04											RDM protocol version: 0x0100
											Device model ID: 0x0097
											Product category: 0x0102
					-		Rem	ote LED I	Display		• n x Software version: 16
						-1	-	-1	-		Subdevice count: 0
											Sensor count: 2
			D	MX patch		- 1					Manufacturer label: ROBE lighting s.r.c
E2 🖬											Device model description: ArcSource I
52 53 91	02.03.04 (M	ide 4/51							_		Device label: Noname
1	2	3	4	5							CH DMX512 setup
											DMX512 footprint: 9
12	13	14	15	16	Re		Escapo	U	. 11	Down	Current personality: DMX Preset 4 - 9
							c				State
28	24	25	26	27							1
34											
34	35	16	37	м	n	42	41	42	43	44	
45	46				50	51	52	52	24	35	
4				**	~	~	~		~	**	
59	57	50	39	60	61	62	63	64		66	
				n	\overline{n}	73	24	15	76	11	
67	68	- 69	- 20								
	68	59	70								8

To browse the fixture menu, you can also use the RDM communicator, connect the RDM communicator with the junction box via shielded twisted-pair cable designed for RS-485 and 3-pin or 5-pin XLR-plug (male).



6.1 Fixture Address



Use this menu to set the DMX address of the fixture or set the fixture as a Master (Slave).

<u>dM.Ad.</u> --- DMX addressing. Select this submenu to set a DMX start address.

To set a DMX address.

- 1. Use the UP/DOWN buttons to find " A001" 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 Inground 24 MC Integral 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.

6.2 Fixture information



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.

Po.ti. ---Power On Time. Use the menu item to read the number of operation hours of the fixture.

<u>totL</u> - the function shows the total number of the operation hours since the ArcSource Inground 24 MC Integral has been fabricated.

<u>rESEt</u> - the function shows the number of the operation hours that the ArcSource Inground 24 MC Integral 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 same time press the ENTER button.

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

<u>tEMP</u> --- **Fixture Temperatures.** Select this menu to read the temperatures of the fixture:

<u>Cur.t.</u> --- the current temperature of the fixture inside.

Hi.tE. - the menu item shows the max. temperatures of the fixture inside since

the ArcSource Inground 24 MC Integral has been fabricated.

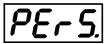
<u>rSEt</u> --- the menu item shows the maximum temperatures of the fixture inside since the counter was last reset. In order to reset this counter to 0 you have to press and hold the UP and DOWN

buttons and at the same time press the ENTER button.

"tEM.b."=temperature on the control PCB, "tEM.L."=temperature on the LED PCB The temperatures can be displayed in either °C or °F units - see option "tEM.U" in the menu "Pers".

<u>VErS.</u> ---Software Versions. Select this function to read the software version of the fixture processors IC1 and IC2.

6.3 Personality



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

DM.Pr. --- **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.

<u>rAd.t.</u> --- Unlink time. Use this menu to set time after that the linked fixture will be unlinked from the transmitter, if the transmitter does not transmit DMX signal. In case that DMX cable is connected to the fixture and "wired DMX" is present on it after unlinking the fixture, the fixture will start to receive "wired DMX".

<u>Off</u> --- Fixture is unlinked after 168 hrs (7 days) with deviation of +/-10%.

0.1-25.5 --- Time from 0.1hr (6 minutes)-25.5 hrs. Default value is 1 hour.

<u>M. F. ti</u> --- Max. fade time. Select this menu item to set a desired max. fade time (0-25.5 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.

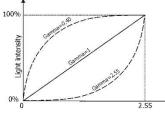
If time between two receiving DMX values is < than fade time set in the item "M Ftime", the adjusted fade time will be reduced to fill entire time between the two receiving DMX values.

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.).

<u>rGb.C.</u> --- RGB counting (RGBW version only). If this function is active, the white channel (channel 4) uses red, green and blue channels in proportional relation to ensure max. light output in a white colour (if white channel is full, also red, green and blue channels are full).

<u>d.EHP.</u> --- **Dimmer running**. This menu item allows you to choose desired dimmer running. Selected dimmer curve influences the dimmer channel only.



<u>Po. Li.</u> --- **Power Limiting.** This function allows you to set desired max. power to LEDs from 100% (default) to 20% with step of 5%.

The set value refers to colour channels, the dimmer always changes light output from 0 (closed) to max. (which is set in this menu item).

Example: Po.Li.=30, and you mix colours Red, Green, Blue and White, a total power to all LEDs will not exceed 30% of max. power.

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

<u>LEd.E.</u> --- **Error signalling.** If this item is on, the green signal LED (under the front glass cover of the fixture) gives information about wireless DMX operation.

Signal LED state	Meaning
LED off	DMX data is received, fixture is linked
1 x flash	DMX data missing, fixture is linked
2 x flash	Fixture is unlinked
3 x flash	DMX data missing, fixture is unlinked

Flash (flashes) will appear every 5 seconds:

flash/t	flashes fla	ash/flashes	flash/flas	hes flash	/flashes	
5 seconds	5 seconds	1 5 se	conds II	5 seconds	5 seconds	Time

If the item "Led.E" is off, signalling of the red LED is disabled.

In.Po. --- **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>dF.SE.</u>--- **Default settings**. The menu item sets all fixture parameters to the default (factory) values.

6.4 Manual mode



Use this menu for control the fixture without connected DMX console. To control fixture channels.

- 1. Use the UP/DOWN buttons to find "Man.M" 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

"GrEn" - green LEDs saturations

"bLuE" - blue LEDs saturations

"Uhi" - white LEDs saturations

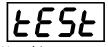
"CtC" – a colour temperature correction

"C. UhE" - a virtual colour wheel

"Stro." - a strobe, shutter

- "dinr" a dimmer
- "F.din" a fine dimmer
- 4. Press the ENTER button and use the UP/DOWN buttons to set value , press the ENTER button to confirm it.

6. 5 Test sequences



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

6.6 Stand-alone setting

The fixture is not connected to the controller but can execute pre-set program.

<u>Auto.</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.

PLAY --- **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.

Edit --- **Editing a program**. The fixture offers 3 freely editable programs (PrG.1, PrG.2, PrG.3) each up to 40 steps. Every program step includes a <u>fade time (F.tin.)</u> - the time taken by the step's channel status to reach the desired level and a <u>step time (S.tin.)</u> - the total time occupied by the step in the program.

E.g. If "F.tin."=5 second and "S.tin."=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 " **St.AL.**" menu and press the ENTER button.
- 2. Use the UP/DOWN buttons to select "Edit" menu and press the ENTER button.
- 3. Use the UP/DOWN buttons to select a program you want to edit (PrG.1-PrG.3 and press ENTER button.
- 4. Use the UP/DOWN buttons to select a desired program step ("St.01" "St.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:
 - "P.End" a total number of the 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 P.End=10).
 - "rEd" red LEDs saturations
 - "GrEn" green LEDs saturations
 - "bLuE" blue LEDs saturations
 - "Uhi" white LEDs saturations
 - "CtC" a colour temperature correction
 - "C. UhE" a virtual colour wheel
 - "Stro." a strobe, shutter
 - "dinr" a dimmer
 - "F.din" a fine dimmer
 - "F.tin." a fade time, (0-25.5) seconds
 - "S.tin." step time, value (0-25.5) seconds
 - "CoPY". this item duplicates the current prog. step to the next prog. step. The item "P.End" 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.

6.7 Special functions



<u>rdML</u> --- Code. This menu item shows the first part of the RDM identification code.

<u>rdMH</u> --- Code. This menu item shows the second part of the RDM identification code.

<u>t.LEd</u> --- Type of LEDs. The menu serves for setting control of the fixture according colour combination of LEDs. rGbU --- RGBW version

Si.Co. --- Single colour version

SM.Uh. --- Smart white version Note: Do Not change the factory setting!

<u>rAdl</u> --- Wireless DMX (only wireless DMX version). The menu serves for reading of the wireless operation status. SiGn. --- Signal level. The menu item shows level of received signal in %. If the fixture is not linked to the transmitter, "no.LI" is displayed.

unLi --- Wireless DMX unlink. The item serves for unlinking the fixture from transmitter.

<u>I. bli.</u> --- **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.

<u>HoLd</u> --- If the function is on, the fixture keeps last received DMX values in case that DMX data receiving was interrupted (e.g. disconnected DMX cable or DMX controller...). The setting of this function goes for wired DMX as well as for wireless DMX.

<u>F. FrE</u>---**Flicker free mode.** If the function is on, the light flickering visible in cameras is corrected but colour uniformity is worse.

<u>tilt</u>---**Tilt of the light beam.** The menu item allows to set desired tilt of the light beam. During adjusting position of the light beam, the white beam will appear.

Adi. - Adjustment. The menu allows the fine adjustment of colours.

Man.M.- Manual mode. Use the menu to set DMX values of fixture's channels.

<u>Cal. C.</u> - A calibration o red, green, blue and white colours by means of an automatic calibration with a factory equipment (RGBW version only).

Red C – red LEDs saturation (0-255)

Grn C – green LEDs saturation (0-255)

Blu C – blue LEDs saturation (0-255)

Uhi C – white LEDs saturation (0-255)

<u>SAUE</u> – saves adjusted values

<u>**Cal. t.</u>** – Selection of colour temperature for manual calibration: 2700K, 3200K, 4200K, 5600K, 8000K.</u>

Manual colour calibration:

- 1. Connect the fixture to the mains, unlink DMX, go to the "Man. M." menu and set the shutter, dimmer, red, green, blue and white channel at 255DMX and let the fixture heat up.
- 2. Go to the "Man. M." menu and set the C UhE at 1 DMX (2700K)
- Go to the "Cal t." menu, select "2700K" item and by means of the rEd. C., GrE. C, blu. C. and Uhi. C. items adjust the 2700K colour temperature as exactly as possible (Δu´v´= 0). After calibration, press the "SAUE" item to save adjusted values.
- 4. Go to the "Man. M." menu and set the C UhE at 4 DMX (3200K).
- 5. Go to the "Cal t." menu, select "3200K" item and by means of the rEd. C., GrE. C, blu. C. and Uhi. C. items adjust the 3200K colour temperature as exactly as possible ($\Delta u'v' = 0$). After calibration, press the "SAUE" item to save adjusted values.
- 6. Repeat this procedure for rest of colour temperatures (4200K, 5600K,8000K).

<u>uPd.</u> --- **Update mode**. The menu item serves for switching the fixture to the update mode if the software update is done by means of DSU file.

The following items are required in order to update software:

- PC running Windows or Linux or macOS
- DSU file

- Robe Universal Interface or Robe Universal interface WTX

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

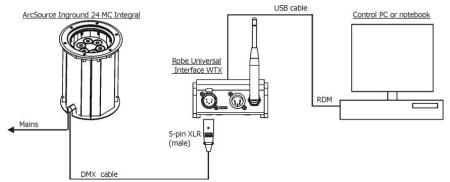
To update software in the ArcSource fixture using DSU file.

1. DSU file is available from Robe web site at https://www.robe.cz/architectural/download/#software-updates 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_ArcSourceInground24MC_17021345.zip) 2. Disconnect the ArcSource Inground 24 MC Integral from DMX controller.

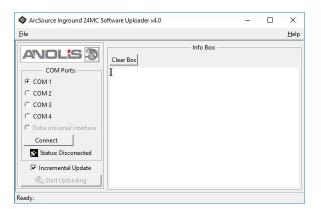
3 Connect a USB port of your computer with the Robe Universal Interface by means of the USB cable and DMX input of the fixture with the DMX output of the Robe Universal Interface via a DMX cable.



4. Run the RDM-network on your computer and by means of the option "Remote LED display" switch the ArcSource Inground 24 MC Integral to the update mode (SPEC --> 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.

- 5. Cancel the RDM-network running. We recommend to cancel all running programs on your computer before starting the software update.
- 6. Run the Software Uploader file (e.g. DSU_ArcSourceInground24MC_17021345.exe). The Software Uploader window will appear on the computer screen:



- 6. Select option "Robe Universal Interface" from COM Ports 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 new version 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 "Fixture is successfully updated" will appear in this window.

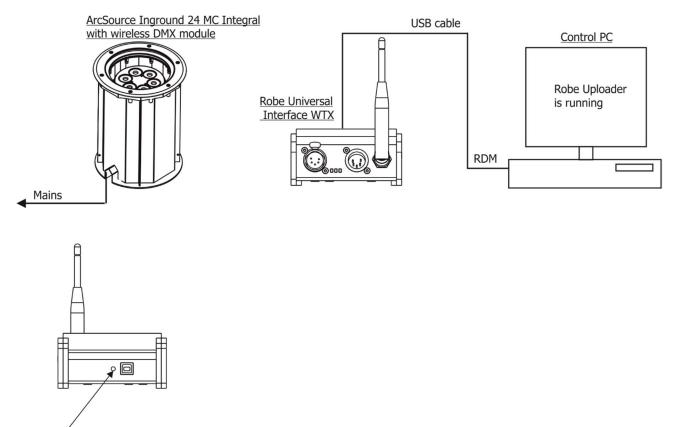
In case upload process is interrupted (e.g. power loss), the fixture stays in "Updating mode" and you will have to repeat the software update again.

For software update of the wireless DMX version of the ArcSource Inground 24 MC you will need the Robe Universal interface WTX and the Robe Uploader software.

Software update of the wireless DMX version of the ArcSource Inground 24 MC.

1. Unlink the fixture from a DMX transmitter.

2. Connect the Robe Universal Interface WTX to the PC and link the fixture to the Robe Universal Interface WTX by pressing the Link/unlink button on the rear panel of the Robe Universal Interface WTX.



Link/Unlink button

3. The Robe Uploader has to run on the control PC. The Robe Uploader is a software for automatized software update of Robe fixtures. The software was tested on Windows (from XP to W10 on 32/64bit systems), Linux (Debian and Ubuntu 32/64bit) and macOS (OSX up to Sierra), for macOS the XQuartz is required, install it from https://www.xquartz.org/

For more information how to do a software update by means of use the Robe Uploader please see https://www.robe.cz/robe-uploader/.

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You do not need to switch the fixture to the update mode, the Robe Uploader switches the fixture to/from update mode automatically.

7. 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 Inground 24 MC Integral 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			*

8. Technical specifications

Power supply

- Electronic auto-ranging
- Input voltage: 100 277 V AC, 50-60 Hz
- Max. power consumption: 65W @ 230V (Power factor=0.83)

Optic & Effects

- Light source: 6 x LED multichip(RGBW, SW)
- Available beam angles: 7°, 24°, 34°, 42°x7° (standard), 7°x42° Anti-Skid version: 16°, 28°, 33°, 16°x 42°, 42°x 16°
- RGBW colour mixing
- Virtual colour wheel
- Adjustable strobe sequences
- Pre-set whites (2700K, 3200K, 4200K, 5600K, 8000K)
- Projected Lumen Maintenance: L90B10 >90.000 hrs, Ta = 25°C / 77°F

Control

- USITT DMX 512, RDM
- DMX protocol modes: 4 (2,3,4,9 control channels)
- Operations modes: DMX, Stand-alone
- Manual control of all effects via RUNIT (RUNIT WTX) or RDM Communicator
- 3 user editable programs each up to 40 steps.

Wireless DMX/RDM module (for wireless DMX version only: ArcSource Inground 24 MC Integral /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</p>
- Operational frequency range of 2402-2480 MHz
- Producer: LumenRadio

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 %

Temperatures

- Maximum surface temperature of the sleeve: +40°C/+104°F
- Minimum surface temperature of the sleeve: -20°C/-4°F
- Max. temperature on the transparent cover: +55°C/131°F (at sleeve surface temperature=40°C/104°F)

Overheating protection

• LED module and power source

Construction

- Housing: high pressure die cast aluminium-anodizing
- Transparent cover: tempered glass
- Flange: stainless steel 316L
- Installation sleeve: stainless steel 316L (Welded)
- silicone rubber gasket

Directionally adjustable mechanism

Motorized tilt ±15°

Weight

• 18.2 kg (9.2 kg sleeve, 9 kg ArcSource Inground 24 MC Integral)

Protection factor

- CE: IP 68 (1m for 8 hours)
- US: Suitable for wet locations
 - Suitable for use in poured concrete Suitable for ground mounted recessed only

Impact rating

• IK10

Certification

• ETL / cETL, CE, RoHS

Anti skid glass certification

• UNE ENV12633 (Class 3), DIN 51130 (R-12), DIN 51097 (Class B),ASTM C 1028-07 (DRY: ≥ 0,7, WET: ≥ 0,6), EN101:91 MOHS (4-Point scale).

Static load resistance

• 35kN

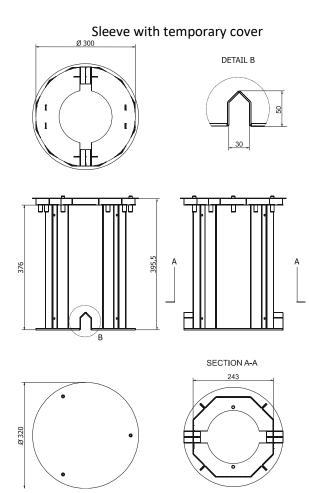
Electric connection

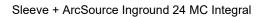
• Junction box at bottom side of the ArcSource Inground 24 MC Integral

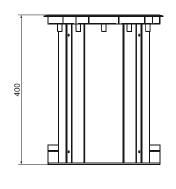
Included items

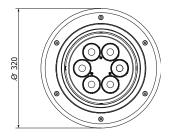
- 1 x ArcSource Inground 24 MC Integral
- 1 x Installation sleeve
- 1 x Installation parts (flange, screws)
- 4 x Reducing seal P/N 13051388 (for cables of diameter 4-8mm)
- 1 x Magnetic chip (for wireless DMX version)
- 1 x User manual

Dimensions (mm)









10. Cleaning and maintenance

DANGER ! Disconnect from the mains before starting any maintenance work.

Wash the transparent cover with a soft brush or sponge and a mild, non-abrasive washing detergent. Rinse it. Maintenance and service operations are only to be carried out by a qualified person.

Should you need any spare parts, please use genuine parts.

In case that the glass cover has been broken, the product cannot be used and you should contact the Robe distributor for service intervention.