

ArcPower 16x6



USER MANUAL

ArcPower 16x6

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CAUTION!

Unplug mains lead before opening the housing!

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

1. Safety instructions

Every person involved with installation and maintenance of this product has to:

- be qualilfied
- follow the instructions of this manual

CAUTION!

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

This product has left our premises in absolutely perfect condition. In order to maintain this condition and to ensure a safe operation, it is absolutely necessary for the user to follow the safety instructions and warning notes written in this manual.

To prevent from danger of accident ,the device has to be fixed on flat, **non-flamma**ble surface in compliance with the installing instruction included in this manual.

Important:

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

Always ground the unit.

The electric connection, repairs and servicing must be carried out by a qualified employee.

Do not connect this unit to a dimmer pack.

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

2. Operating determinations

This product was designed for indoor use only.

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

Avoid brute force when installing or operating the unit.

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

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

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

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

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

3.Description of the ArcPower 16x6



- 1 Control board
- 2 LED output zones
- 3 DMX Input
- 4 DMX Output
- 5 Fuse holder
- 6 Power cord

LED output zones (RGB operation)

 RGB ZONE 9	RGB ZONE 10	RGB ZONE 11	RGB	RGB	RGB ZONE 14	RGB ZONE 15	RGB ZONE 16	DMX	512
ZONE 1		ZONE 3	RGB ZONE 4						

LED output zones (RGBW operation)



DMX Input, Output

RJ45 socket Front view of the socket:



DMX IN

. . .

Pin 1: Not connected	PIN 5: Not connected
Pin 2: +12V	Pin 6: Data +
Pin 3: Not connected	Pin 7: Data -
Pin 4: Not connected	Pin 8: GND
DMX OL	JT
Pin 1: Not connected	Pin 5: Not connected
Pin 2: Not connected	Pin 6: Data +
Pin 3: Not connected	Pin 7: Data -
Pin 4: Not connected	Pin 8: GND

- .. .

LED module Input

RJ45 socket Front view of the socket:

Pin 1: Red LED + Pin 2: Green LED + Pin 3: Blue LED + Pin 4: White LED +

Pin 5: Red LED -Pin 6: Green LED -Pin 7: Blue LED -Pin 8: White LED -

4.Installation

4.1.Connection to the mains:

The ArcPower 16x6 is equipped with auto-switching power supply that automatically adjusts to any 50/60Hz AC power source from 100-240 Volts.

Connect the fixture to the mains with enclosed power cord.

This device falls under protection class I.Therefore the ArcPower 16x6 has to be connected to a mains socket outlet with a protective earthing connection.

4.2. Mounting the ArcPower 16x6

The ArcPower 16x6 should be be placed on a non-flammable flat surface in any orientation and fixed by the four screws. There are four mounting holes of a diameter 5 mm in housing of the driver. Ensure that installation place is enough ventilated.



4.3.Conection cables

1.The adapter cable RJ45/XLR connects the **ArcPower 16x6 to the DMX controller.If your DMX controller has** RJ45 socket for DMX output, use RJ45 patch cable for connection with the **ArcPower 16x6**.



Note: connect 12V if you need it.

2.RJ45 patch cables category 5 that connect the **ArcPower 16x6 each other are wired 1:1,that is,pins with the** same numbers are connected together.



5 DMX operation

1. Unplug from the mains before installation.

2.Connect the LED modules to the fixture according to the operation (RGB or RGBW).

3.Connect DMX controller to the fixture

4.Connect the fixture to the mains

5.Set the DMX address on the control board of the fixture (see chapter "Control board").

Warning! Accidental connection DMX 512 Input/Output to non-DMX 512 device (e.g.Ethernet network Hub) can damage the ArcPower 16x6. Maximum total cable length between Arcpower 16x6 and all connected LED modu-

les is 80 metres.

2 x RGB LED module

7 x RGB LED module

5.1 Single ArcPower 16x6 installation

1. RGB operation

Max. load per LED output zone: 6x1W LED Number of zones: 16

2. RGBW operation

The ArcPower 16x6 allows to operate 12 RGBW outputs (zones).

Note: Only 12 zones of the ArcPower 16x6 can be used for RGBW operation - see chapter 3 "Description of the ArcPower 16x6".



5.2 Multiple ArcPower 16x6 installation

Connect the DMX output of the first ArcPower 16x6 with the DMX input of the next ArcPower 16x6. Always connect one output with the input of the next ArcPower 16x6 until all fixtures are connected. In this way, up to 32 fixtures can be chained together.

At the last ArcPower 16x6 the data link has to be terminated with a terminator. A termination plug is simply a RJ45 connector with a 120 Ω resistor between pins Data (–) and Data (+).Plug terminator in the DMX output of the last ArcPower 16x6.



6.ArcPower 16x6 - Control menu map

Default settings=Bold print

A001 (001-464) Info dM.In tEMP VErS VEr1 -VEr2 MAn.C. rEd.1 (0-255) .GrE.1 (0-255) .bLu.1 *(0-255)* 1 Stro. (0-255) dimr (0-255) tESt. St.AL. Auto OFF tESt EPG.1 EPG.2 PLAY tESt EPG1 EPG2 Edit EPG1 EPG2 St.01-1 St.60rEd 1 (0-255) : dimr. (0-255) F.tim.(0-255) S.tim. (0-255) COPY SPEC P.End. (1-64) dM.Pr. (Mod, 1, Mod2, Mod3.....Mod 6) M.F.t.i. (0.1...2.0----25.5) CALi rEd.1 (0-255) bL.16 (0-255) Stor. - bALA. (On,**OFF)** -C.bAL. rEd.b. (0-255) GrE.b.(0-255) bLu.b. (0-255)



7. ArcPower 16x6 - DMX protocol - version 1.4 (for software version 3.4 and higher)

RGB operation

Mode 1	Mode 2	Mode 3	Mode 4	Value	Function	Type of
Channel	Channel	Channel	Channel	value	Function	control
		0			ZONE 1	·
1	1	1	1	0-255	Red LED 1 Red LED saturation control (0-100%)	proportional
2	2	2	2	0-255	Green LED 1 Green LED saturation control (0-100%)	proportional
3	3	3	3	0-255	Blue LED 1 Blue LED saturation control (0-100%)	proportional
					ZONE 2	
1	1	4	4	0-255	Red LED 2 Red LED saturation control (0-100%)	proportional
2	2	5	5	0-255	Green LED 2 Green LED saturation control (0-100%)	proportional
3	3	6	6	0-255	Blue LED 2 Blue LED saturation control (0-100%)	proportional
					ZONE 3	
1	1	7	7	0-255	Red LED 3 Red LED saturation control (0-100%)	proportional
2	2	8	8	0-255	Green LED 3 Green LED saturation control (0-100%)	proportional
3	3	9	9	0-255	Blue LED 3 Blue LED saturation control (0-100%)	proportional
					ZONE 4	
1	1	10	10	0-255	Red LED 4 Red LED saturation control (0-100%)	proportional
2	2	11	11	0-255	Green LED 4 Green LED saturation control (0-100%)	proportional
3	3	12	12	0-255	Blue LED 4 Blue LED saturation control (0-100%)	proportional
		. <u> </u>			ZONE 5	
1	1	13	13	0-255	Red LED 5 Red LED saturation control (0-100%)	proportional
2	2	14	14	0-255	Green LED 5 Green LED saturation control (0-100%)	proportional
3	3	15	15	0-255	Blue LED 5 Blue LED saturation control (0-100%)	proportional
		·			ZONE 6	1
1	1	16	16	0-255	Red LED 6 Red LED saturation control (0-100%)	proportional
2	2	17	17	0-255	Green LED 6 Green LED saturation control (0-100%)	proportional
3	3	18	18	0-255	Blue LED 6 Blue LED saturation control (0-100%)	proportional
	r	r			ZONE 7	· · · · · · · · · · · · · · · · · · ·
1	1	19	19	0-255	Red LED 7 Red LED saturation control (0-100%)	proportional
2	2	20	20	0-255	Green LED 7 Green LED saturation control (0-100%)	proportional
3	3	21	21	0-255	Blue LED 7 Blue LED saturation control (0-100%)	proportional
		. <u> </u>			ZONE 8	
1	1	22	22	0-255	Red LED 8 Red LED saturation control (0-100%)	proportional
2	2	23	23	0-255	Green LED 8 Green LED saturation control (0-100%)	proportional
3	3	24	24	0-255	Blue LED 8 Blue LED saturation control (0-100%)	proportional

Mode 1	Mode 2	Mode 3	Mode 4	Value	Function	Type of
Channel	Channel	Channel	Channel	value	Function	control
					ZONE 9	
1	1	25	25	0-255	Red LED 9 Red LED saturation control (0-100%)	proportional
2	2	26	26	0-255	Green LED 9 Green LED saturation control (0-100%)	proportional
3	3	27	27	0-255	Blue LED 9 Blue LED saturation control (0-100%)	proportional
					ZONE 10	
1	1	28	28	0-255	Red LED 10 Red LED saturation control (0-100%)	proportional
2	2	29	29	0-255	Green LED 10 Green LED saturation control (0-100%)	proportional
3	3	30	30	0-255	Blue LED 10 Blue LED saturation control (0-100%)	proportional
					ZONE 11	
1	1	31	31	0-255	Red LED 11 Red LED saturation control (0-100%)	proportional
2	2	32	32	0-255	Green LED 11 Green LED saturation control (0-100%)	proportional
3	3	33	33	0-255	Blue LED 11 Blue LED saturation control (0-100%)	proportional
					ZONE 12	
1	1	34	34	0-255	Red LED 12 Red LED saturation control (0-100%)	proportional
2	2	35	35	0-255	Green LED 12 Green LED saturation control (0-100%)	proportional
3	3	36	36	0-255	Blue LED 12 Blue LED saturation control (0-100%)	proportional
	r				ZONE 13	r
1	1	37	37	0-255	Red LED 13 Red LED saturation control (0-100%)	proportional
2	2	38	38	0-255	Green LED 13 Green LED saturation control (0-100%)	proportional
3	3	39	39	0-255	Blue LED 13 Blue LED saturation control (0-100%)	proportional
		1	1		ZONE 14	
1	1	40	40	0-255	Red LED 14 Red LED saturation control (0-100%)	proportional
2	2	41	41	0-255	Green LED 14 Green LED saturation control (0-100%)	proportional
3	3	42	42	0-255	Blue LED 14 Blue LED saturation control (0-100%)	proportional
			1		ZONE 15	
1	1	43	43	0-255	Red LED 15 Red LED saturation control (0-100%)	proportional
2	2	44	44	0-255	Green LED 15 Green LED saturation control (0-100%)	proportional
3	3	45	45	0-255	Blue LED 15 Blue LED saturation control (0-100%)	proportional
		r			ZONE 16	i
1	1	46	46	0-255	Red LED 16 Red LED saturation control (0-100%)	proportional
2	2	47	47	0-255	Green LED 16 Green LED saturation control (0-100%)	proportional
3	3	48	48	0-255	Blue LED 16 Blue LED saturation control (0-100%)	proportional

Mode 1	Mode 2	Mode 3	Mode 4	Value	Function	Type of
Channel	Channel	Channel	Channel	value	Function	control
-	4	-	49	0-31 32-63 64-95 96-127 128-143 144-159 160-255	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	step step proportional step proportional proportional step
-	5	-	50	0-255	Dimmer Dimmer intensity from 0% to 100%	proportional

RGBW operation

Mode 5	Mode 6	Mode 7	Mode 8	Value	Function	Type of
Channel	Channel	Channel	Channel	value		control
					ZONE 2	
1	1	1	1	0-255	Red LED 1 Red LED saturation control (0-100%)	proportional
2	2	2	2	0-255	Green LED 1 Green LED saturation control (0-100%)	proportional
3	3	3	3	0-255	Blue LED 1 Blue LED saturation control (0-100%)	proportional
4	4	4	4	0-255	White LED 1 White LED saturation control (0-100%)	proportional
					ZONE 3	
1	1	5	5	0-255	Red LED 2 Red LED saturation control (0-100%)	proportional
2	2	6	6	0-255	Green LED 2 Green LED saturation control (0-100%)	proportional
3	3	7	7	0-255	Blue LED 2 Blue LED saturation control (0-100%)	proportional
4	4	8	8	0-255	White LED 2 White LED saturation control (0-100%)	proportional
					ZONE 4	
1	1	9	9	0-255	Red LED 3 Red LED saturation control (0-100%)	proportional
2	2	10	10	0-255	Green LED 3 Green LED saturation control (0-100%)	proportional
3	3	11	11	0-255	Blue LED 3 Blue LED saturation control (0-100%)	proportional
4	4	12	12	0-255	White LED 3 White LED saturation control (0-100%)	proportional
					ZONE 6	
1	1	13	13	0-255	Red LED 4 Red LED saturation control (0-100%)	proportional
2	2	14	14	0-255	Green LED 4 Green LED saturation control (0-100%)	proportional
3	3	15	15	0-255	Blue LED 4 Blue LED saturation control (0-100%)	proportional
4	4	16	16	0-255	White LED 4 White LED saturation control (0-100%)	proportional
					ZONE 7	
1	1	17	17	0-255	Red LED 5 Red LED saturation control (0-100%)	proportional
2	2	18	18	0-255	Green LED 5 Green LED saturation control (0-100%)	proportional
3	3	19	19	0-255	Blue LED 5 Blue LED saturation control (0-100%)	proportional
4	4	20	20	0-255	White LED 5 White LED saturation control (0-100%)	proportional
					ZONE 8	
1	1	21	21	0-255	Red LED 6 Red LED saturation control (0-100%)	proportional
2	2	22	22	0-255	Green LED 6 Green LED saturation control (0-100%)	proportional
3	3	23	23	0-255	Blue LED 6 Blue LED saturation control (0-100%)	proportional
4	4	24	24	0-255	White LED 6 White LED saturation control (0-100%)	proportional

Mode 5	Mode 6	Mode 7	Mode8	Value	Eurotion	Type of
Channel	Channel	Channel	Channel	value	Function	control
		2			ZONE 10	
1	1	25	25	0-255	Red LED 7 Red LED saturation control (0-100%)	proportional
2	2	26	26	0-255	Green LED 7 Green LED saturation control (0-100%)	proportional
3	3	27	27	0-255	Blue LED 7 Blue LED saturation control (0-100%)	proportional
4	4	28	28	0-255	White LED 7 White LED saturation control (0-100%)	proportional
					ZONE 11	
1	1	29	29	0-255	Red LED 8 Red LED saturation control (0-100%)	proportional
2	2	30	30	0-255	Green LED 8 Green LED saturation control (0-100%)	proportional
3	3	31	31	0-255	Blue LED 8 Blue LED saturation control (0-100%)	proportional
4	4	32	32	0-255	White LED 8 White LED saturation control (0-100%)	proportional
		0			ZONE 12	
1	1	33	33	0-255	Red LED 9 Red LED saturation control (0-100%)	proportional
2	2	34	34	0-255	Green LED 9 Green LED saturation control (0-100%)	proportional
3	3	35	35	0-255	Blue LED 9 Blue LED saturation control (0-100%)	proportional
4	4	36	36	0-255	White LED 9 White LED saturation control (0-100%)	proportional
					ZONE 14	
1	1	37	37	0-255	Red LED 10 Red LED saturation control (0-100%)	proportional
2	2	38	38	0-255	Green LED 10 Green LED saturation control (0-100%)	proportional
3	3	39	39	0-255	Blue LED 10 Blue LED saturation control (0-100%)	proportional
4	4	40	40	0-255	White LED 10 White LED saturation control (0-100%)	proportional
					ZONE 15	
1	1	41	41	0-255	Red LED 11 Red LED saturation control (0-100%)	proportional
2	2	42	42	0-255	Green LED 11 Green LED saturation control (0-100%)	proportional
3	3	43	43	0-255	Blue LED 11 Blue LED saturation control (0-100%)	proportional
4	4	44	44	0-255	White LED 11 White LED saturation control (0-100%)	proportional
					ZONE 16	
1	1	45	45	0-255	Red LED 12 Red LED saturation control (0-100%)	proportional
2	2	46	46	0-255	Green LED 12 Green LED saturation control (0-100%)	proportional
3	3	47	47	0-255	Blue LED 12 Blue LED saturation control (0-100%)	proportional
4	4	48	48	0-255	White LED 12 White LED saturation control (0-100%)	proportional

Mode 5	Mode 6	Mode 7	Mode 8	Value	Eurotion	Type of
Channel	Channel	Channel	Channel	value	Function	control
-	5	-	49	0-31 32-63 64-95 96-127 128-143 144-159 160-255	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	step step proportional step proportional proportional step
-	6	-	50	0-255	Dimmer Dimmer intensity from 0% to 100%	proportional

8.Control board

The control panel situated on the top cover of the ArcPower 16x6 allows DMX addressing and set the fixture's behaviour.



Control elements:

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

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

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

After switching on the ArcPower 16x6 ,the display shows the initial DMX address:

	1
nuu	Í

Use [UP],[DOWN] to browse through the menu. To select a function or submenu,press [ENTER].

8.1 Addressing the ArcPower 16x6



Setting the DMX start channel:

1. Connect the ArcPower 16x6 to the mains.

2. Browse through the menu by pressing the [UP] and [DOWN] buttons until the display shows current addres "**A001**".Confirm by pressing [ENTER] button and "**A001**" will start to flash frequently.

3. Use the [UP] and [Down] buttons to select the desired address.

4. Confirm by pressing [ENTER].

After having addressed ArcPower 16x6, you may now start operating ArcPower 16x6 via your DMX controller.

8.2 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.

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

tEMP --- Fixture Temperature. Select this menu to read the temperature of the fixture:

VErS. ---Software Versions. Select this function to read the software version of each board in the fixture .

8.3 Manual mode



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

Man.C. --- Manual effect control. Select this menu to control all channels via buttons of the control board. To control fixture channels.

- 1. Use the UP/DOWN buttons to find "Man.C" menu.
- 2. Press the ENTER button.
- Use the UP/DOWN buttons to select desired effect (channel). 3
 - List of control channels:
 - "rEd.1-rE.16" red LEDs saturations

"GrE.1.-Gr.16 " - green LEDs saturations

"bLu.1-bL.16 " - blue LEDs saturations

- "Stro." a strobe, shutter "dinr" a dimmer

4. Press the ENTER button and use the UP/DOWN buttons to set value , press the ENTER button to confirm it.

8.4 Test sequences



Use the item to run a demo-test sequences without an external controller, which will show you some possibilities of using the fixture.

8.5 Stand-alone mode



Use this menu to run a program or to set a running program in the stand-alone operation - operation without connected DMX controller

Auto --- Presetting playback. This function allows you to select the program which will be played continuously in a loop after switching the fixture on. The fixture has two freely-programmable programs (EPG1-EPG2).

OFF --- The option disables "Auto" function.

tESt --- test program

EPG.1 --- program No.1

EPG.2 --- program No.2

PLAY --- Playing program. Select this menu to run a desired program immediately.

tESt --- The option starts test program

EPG.1 --- The option starts editable program No.1

EPG.2 --- The option starts editable program No.2

Select the program you wish and press [ENTER]. The selected program starts running. By Pressing [ENTER] again is possible to pause the program running.

Edit --- Editing a program. The fixture offers 2 freely editable programs (EPG.1, EPG.2) each up to 64 steps. Every program step includes a fade time-the time taken by the step's channel status to reach the desired level and a step time-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

- Use the UP/DOWN buttons to find "St.AL." menu and press the ENTER button. 1.
- 2. Use the UP/DOWN buttons to select "Edit" menu and press the ENTER button.
- Use the UP/DOWN buttons to select a program you want to edit (EPG.1, EPG.2) and press ENTER 3. button.
- 4. Use the UP/DOWN buttons to select a desired program step ("St.01" - "St.64") and press ENTER button.

Use the UP/DOWN buttons to select a channel you want to edit and press the ENTER button. 5. List of editable items:

"P.End" - a total number of the program steps (value 1-64). This value should be set before start

Programming (e.g. if you want to create program with 10 steps, set P.End=10).

"rEd.1 - rE.16"- a red LEDs saturation (0-255)

"GrE.1 - Gr.16" - a green LEDs saturation (0-255)

- "bLu.1 bL.16 " -a blue LEDs saturation (0-255)
- "Stro." a strobe, shutter (0-255)
- "dimr" a dimmer (0-255)
- "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 "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.

8.6 Special functions



Use this menu for special services.

<u>dM.Pr.</u> --- DMX presetting.The function allows to select desired DMX mode.Use [UP] and [DOWN] buttons to select desired channel mode ("Mod.1-Mod.8") and press [ENTER] to confirm.For detail description of all channels see DMX protocol.

M.F.ti. --- **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 RGB and dimmer during DMX operation:

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

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

e.g. M.F.ti.=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.F.ti.=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 <u>5</u> seconds. (Max, fade time is reduced from 8 sec. to 5 sec.).

Note: the value adjusted in the item M.F. ti. will not influence fade time set in the program steps.

<u>CALi.</u> --- LED intensity calibration. The menu allows you to adjust the max. light intensity of individual LEDs (colour channels), e.g. the light intensity of all red LEDs connected to the channel 4. This action is suitable in case that adjacent LEDs (e.g. in LED array) have a different light intensity (but these LEDs have to be connected to the different zones of the ArcPower 16x6).

Use [UP] and [DOWN] buttons to select desired LED, press [ENTER] and adjust suitable light intensity (0-255) using [UP] and [Down] buttons, confirm by pressing [ENTER]. This adjusted light intensity is its maximum intensity which can be reached if dimmer=255 DMX. After calibration all LEDs, select Stor. to save adjusted values.

<u>bALA.</u> --- **Balance**.Select this function to enable (On) or disable (OFF) the white balance which is set in "White colour balance" menu below. If this function is set OFF,ArcPower 16x6 will use maximum value (255) of saturation for red, green and blue channels.

<u>C.bAL.</u> --- White colour balance. Using this menu you can set white balance:

1. Set all red, green and blue channels on maximum saturation(255)

2. Browse through the menu by pressing the [UP] and [DOWN] buttons until the display shows "C.bAL." menu. Press [ENTER] button and "rEd.b." will appear on the display.

3.Press [ENTER] button again and use [UP] and [DOWN] buttons to adjust the new maximum value required for the red channel.Confirm your choice by pressing [ENTER].Use the [UP] and [Down] buttons to select next colour.

4.Repeat step 3 for green channel "GrE.b." and for blue channel "bLu.b".

<u>CHAr.</u> --- Dimmer characteristic. The option allows selection from the 2 dimming curves:

EYE - The dimming curve takes into account a gamma curve

LinE - Linear running of the dimming curve.

Use [UP] and [DOWN] buttons to select desired dimmer characteristic and press [ENTER] to confirm.

<u>i.bLi.</u> --- Initial blink. If this function is on, the ArcPower 16x6 makes auto-calibration (LED modules, one by one, lit on 100% for short time,) after switching it on. During this action the ArcPower 16x6 finds out the load connected to its LED outputs and makes auto-calibration. If the LED modules will not be changed (still the same LED modules connected), after first auto-calibration you can set "i.bLi" at Off, as autocalibration takes some time. In case, that some LED modules will be changed (even the same type) you should perform autocalibration again.

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

dF.SE. --- Default Settings .Select this option to reset all fixture personalities to the default values.

<u>uPd.</u> --- **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 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 ROBE distributor.

Note 2: DMX address, programs 1-2 and all items in the menu "SPEC" 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. Robe_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 driver 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.



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 driver keeps the updating mode and you have to repeat the software update again.

9.Technical Specifications:

Power supply:

Input Voltage: 100-240 V AC, 50-60 Hz Fuse:T 2 A H Max.Pover Consumption:120W Panel connector: IEC C14 Power cord IEC C13 included

Input:

Control:DMX 512 DMX connection: RJ45

Output:

Max.Output Voltage:12V DC Max.Output current per zone: 350mA per colour RGB operation LED zones: 16 Max.load per zone: 6 x 1W LED Total max.load: 16x6 LEDs

RGBW operation

LED zones: 12 Max.load per zone: 8 x 1W LED Total max.load: 12x8 LEDs

Max. total cable length between one zone of the Arcpower 16x6 and connected LED module:20 metres

Note: Sum of cable lengths between zones 1-8 must not exceed 80 metres.

Sum of cable lengths between zones 9-16 must not exceed 80 metres.

DMX channels:

Mode 1: 3 Mode 2: 5 Mode 3: 48 Mode 4: 50 Mode 5: 4 Mode 6: 6 Mode 7: 48 Mode 8: 50

Control and programming:

Protocol: USITT DMX-512 Operating modes:DMX,Stand-alone Display:4 digit LED White colour balance adjusting Manual control of all DMX channels via control panel Programs: 2 freely programmable, each up to 64 steps

Operating temperature:

-10°C/+40°C

Dimensions(mm):



Total heat dissipation

510 BTU/h (calculated)

Accessories:

Cable joiner (No.13050691).....16 pieces

Optional accessories:

Adapter cable RJ45/DMX 3 pin.....No.13050730 Adaptor cable RJ45/DMX 5 pin.....No.13050731

10. Replacing the fuse

1.Before replacing the fuse, unplug mains lead!

2.Push the fuse holder out from the supply socket on the rear side of the ArcPower 16x6.

3.Remove the old fuse from the fuse holder.

4.Install the new fuse in the fuse holder.

5.Push the fuse holder back into the power socket of the ArcPower 16x6.