

by





Instructions:

- Do not open this device there are no user-serviceable parts inside.
- Do not look directly at the light source when the device is on.
- Caution, this unit's housing may be hot when lights are operating.
- Do not leave any flammable material within 50 cm of this unit while operating or connected to power.
- Always use a safety cable when mounting this device overhead.
- Do not operate this device outdoors or in location where dust, excessive heat, water, or humidity may affect it.
- Do not connect this device to a dimmer or other regulated power
- Only connect this device to a grounded and protected circuit.
- Switchmode powers has high inrush-currents, do not exceed 8A on the output Powercon when daisy-chaining fixtures (16 units @ 230V)
- High Output 12x12w 6in1 RGBWAUV pixel-controlled led-engine
- 30° Even field optics
- Industry standard 5pin XLR and powerCON TRUE 1
- Inputs and outputs for easy daisy-chaining.
- 16bit DMX control
- DMX controlled rise-time
- RDM remote addressing
- Easy and intuitive Local menu structure, rotatable display
- Firmware cloning from fixture to fixture
- Intelligent yoke-design enables direct floor-mount without removal of hook clamp.
- Stealth design: All black parts, (body, yoke, hook clamp & bolt), Automatic dimming of LCD backlight.
- Compact size, low weight and power consumption

Display Navigation



When XBAR is already in DMX-mode, the DMX start address is displayed on the left side (Axxx), while the DMX channel count is displayed on the right side (Cxx).

Use the Up/Down buttons to alter the DMX start address, and press Enter/Confirm to set the address permanently.

When receiving valid DMX, a blinking dot is displayed between the address and the channel count:

DMX Mode A001.C32

>DMX Address
DMX Channels
Manual
Auto Program
Sound Trig
Master/Slave
Reset
Update

If the XBAR is not in DMX-mode, or to change other settings than the start address, press the Menu button to access the main menu:

Menu/Exit

企

Up

Enter/Confirm

Down

You may rotate the display 180 degrees by pressing the Up and Down buttons simultaneously for 2 seconds.

>DMX Address DMX Channels

Navigate the main menu with the Up/Down buttons, and use the Enter/Confirm button to select a menu item. The XBAR will return to its previous state if no new setting or mode has been confirmed within 10 seconds.

DMX start Address

Use Up/Down to alter the DMX start Address (OO1→xxx), then press Enter/Confirm to set the chosen start address permanently.

"xxx" (highest address) is determined by the chosen channel-mode. (e.g. in 2ch mode max address is 511)

Setting the DMX start Address will activate "DMX Mode"

DMX Address <011>

> DMX Mode A011 C32



DMX Channel count

Use Up/Down to alter the DMX channel count (2ch, 3ch, 12ch, 32ch, 60ch, 96ch), and press Enter/Confirm. If the mode supports individual control of each cell, select Normal or Reversed cell order (-REV), then press Enter/Confirm to set the chosen Channel count and cell order permanently.

DMX Channels <60>

> DMX Mode A011 C60

(Normal cell order: First cell is on the input side)

• Setting the DMX Channel count will activate "DMX Mode"

DMX Mode A011 C60-REV

Manual Control

Use Up/Down and Enter/Confirm to sequentially choose a Preset basic color, finetune the hue of the chosen color, and finally set the overall intensity.

Use Menu/Exit to step backwards in menu-sequence to readjust the hue, or select another basic color.



Finetune <Orange++>

Dimmer <100>

Manual Mode

• Setting a manual color will activate "Manual Mode"

Automatic Programs

Use Up/Down and Enter/Confirm to sequentially choose an Auto program and set the wait and fade times between the steps of the program.

Use Menu/Exit to step backwards in menu-sequence to readjust the wait time, or to select another Program.





Fade: <0.7s>

Setting a program will activate "Auto Program" mode

Auto Program: 2 Rainbow



Sound trig

Use Up/Down to adjust the sensitivity (SenOOO→Sen1OO) of the in-build microphone, then press Enter/Confirm to set Sound sensitivity permanently.

• Setting the Sound sensitivity will activate "Sound" mode

Sound Trig

Sound Trig
Mode

Master/Slave Operation

Use Up/Down to choose Master or Slave 1 \rightarrow Slave 12, and press Enter/Confirm.

When using any of the standalone operating modes: auto, sound, or manual with Master enabled, the Master fixture will transmit and remote control any fixtures set to Slave Mode.

When a Master is transmitting AutoPrograms, the program steps can be shifted on the slaves (Slave 1 = in sync with master, slave 2 = one step ahead etc)

• Setting Master/Slave to Slave will activate "Slave Mode"

Master/Slave <0ff>

Slave Mode

Factory Reset

Use Up/Down to select <Yes>, then press Enter/Confirm to reset the fixture to factory default settings.

• Resetting the fixture will activate "DMX Mode"

Reset <N>/ Y

DMX Mode A001 C10

Firmware Update

Use Up/Down to select <Yes>, then press Enter/Confirm to set the fixture in update mode.

Connect another fixture (unpowered) with 5pin, then apply power. When the second fixture displays "Waiting for file", Press Enter/Confirm on the original fixture to start transferring firmware to the second fixture.

• Press Menu/Exit twice to return to Main menu when done

Update <No>/ Yes

Update <Start>



DMX channels:

The XBAR may be set to use 2, 3, 12, 32, 60 or 96 DMX channels.

Please refer to the DMX Charts for detailed description of each channel

2 Channel mode



The 2 channel mode gives easy access to intensity and color from manual consoles, with crossfading presets from warm to cold white, all saturated hues and finally UV.

3 Channel mode



The 3 channel mode allows control by the use of RGB control channels only, to be used with architectural or other generic control-systems. The levels of White, Amber and UV are automatically calculated by the fixture to maximize output of the chosen colors.

12 Channel mode

1	2	3	4	5	6	7	8	9	10	11	12	
R	G	В	W	Α	UV	Dim	Dim fine	Strobe	Rise –	Cell	Cell	
									time	color	select	

The 12 channel mode gives individual access to all 6 LED-colors, 16-bit master dimmer and shutter/strobe with additional random and audio-trig, rise-time for emulation of filament lamps, and finally basic cell effects.



The 32 channel mode gives individual 16-bit dimmer access to all 12 cells, along will common control of LED-colors, strobe and risetime.

60 Channel mode



The 60 channel mode gives individual access to all 12 cells using RGB and 16-bit dimmer.

96 Channel mode



The 96 channel mode gives individual access to all 6 LED-colors of each cell, along with 16-bit dimmer.

Photometrics

Lux

1		R	G	В	W	Α	UV	All
//\\	1m	913	1164	1157	1706	673	290	5180
	2m	37 <i>5</i>	486	468	678	257	116	2050
	3m	190	250	240	351	135	59	1067
Beam Angle	4m	119	156	154	219	89	36	660
30° Field Angle: 35°	5m	87	113	109	158	67	26	471

DMX Chart

2 Channel mode

CHANNEL	VALUE	FUNCTION
1	000-255	Master dimmer 0% → 100%
	000	Straw →
	020	Warm white →
	040	White →
	060	Cool white →
	080	Blue →
	100	Magenta →
2	120	$Red \rightarrow$
2	140	Orange →
	160	Yellow →
	180	Green →
	200	Teal →
	220	Cyan →
	240	Blue →
	255	UV

CHANNEL	VALUE	FUNCTION
1	000-255	Red component: 0% → 100%
2	000-255	Green component: 0% → 100%
3	000-255	Blue component: 0% → 100%

HANNEL	VALUE	FUNCTION
1		Red dimmer 0% → 100%
2		Green dimmer 0% → 100%
3	000-255	Blue dimmer 0% → 100%
4	000-255	White dimmer $0\% \rightarrow 100\%$
5	000-255	Amber dimmer 0% → 100%
6	000-255	UV dimmer 0% → 100%
7	000-255	Master dimmer 0% → 100% (coarse)
8	000-255	Master dimmer (fine 16bit)
	000-007	Shutter Closed
	008-015	Shutter Open
	016-119	Strobe Slow → Fast (1-25Hz)
	120-127	Shutter Open
9	128-183	Strobe Random Slow → Fast
	184-191	Shutter Open
	192-247	Strobe Audio Slow → Fast
	248-255	Shutter Open
	000-031	Instant response
	032-063	Short rise-time
	064-095	Medium rise-time
10	096-127	Long rise-time
10	128-159	Extra-long rise-time
	160-191	[reserved]
	192-223	[reserved]
	224-255	[reserved]
		Cell Color (use Cell Select to apply destination)
	000	Straw →
	020	Warm white →
	040	White →
11	060	Cool white →
11	080	Blue →
	100	Magenta →
	120	$Red \rightarrow$
	140	Orange →
	160	Yellow →

bright

	180	Green →
	200	Teal →
	220	Cyan →
	240	Blue →
	250	UV →
	255	Black
	Cell	Select (where to use Cell color instead of RGBWAUV)
	000-007	No function (Cell color ignored)
	008-015	4step 1→4
10	016-039	Single 1→12
12	040-063	Twin 1→12
	064-087	Quad 1→12
	088-253	Random few→many
	254-255	All cells

CHANNEL	VALUE	FUNCTION
1-2		Dimmer Cell 1:
1	000-255	Cell 1 Dimmer 0% → 100% (coarse)
2	000-255	Cell 1 Dimmer (fine 16bit)
3-24		Dimmer Cell 2 – Cell 12
25-32		Color All Cells:
25	000-255	Red dimmer 0% → 100%
26	000-255	Green dimmer 0% → 100%
27	000-255	Blue dimmer 0% → 100%
28	000-255	White dimmer 0% → 100%
29	000-255	Amber dimmer 0% → 100%
30	000-255	UV dimmer 0% → 100%
	000-007	Shutter Closed
	008-015	Shutter Open
	016-119	Strobe Slow \rightarrow Fast (1-25Hz)
31	120-127	Shutter Open
21	128-183	Strobe Random Slow \rightarrow Fast
	184-191	Shutter Open
	192-247	Strobe Audio Slow → Fast
	248-255	Shutter Open
	000-031	Instant response
	032-063	Short rise-time
	064-095	Medium rise-time
32	096-127	Long rise-time
52	128-159	Extra-long rise-time
	160-191	[reserved]
	192-223	[reserved]
	224-255	[reserved]

CHANNEL	VALUE	FUNCTION
1-5		Cell 1
1	000-255	Red component: 0% → 100%
2	000-255	Green component: 0% → 100%
3	000-255	Blue component: 0% → 100%
4	000-255	Master dimmer $0\% \rightarrow 100\%$ (coarse)
5	000-255	Master dimmer (fine 16bit)
6-10		Cell 2
11-15		Cell 3
16-20		Cell 4
21-25		Cell 5
26-30		Cell 6
31-35		Cell 7
36-40		Cell 8
41-45		Cell 9
46-50		Cell 10
51-55		Cell 11
56-60		Cell 12

CHANNEL	VALUE	FUNCTION
1-8		Cell 1
1	000-255	Red dimmer 0% → 100%
2	000-255	Green dimmer 0% → 100%
3	000-255	Blue dimmer $0\% \rightarrow 100\%$
4	000-255	White dimmer 0% → 100%
5	000-255	Amber dimmer $0\% \rightarrow 100\%$
6	000-255	UV dimmer 0% → 100%
7	000-255	Master dimmer $0\% \rightarrow 100\%$ (coarse)
8	000-255	Master dimmer (fine 16bit)
9-16		Cell 2
17-24		Cell 3
25-32		Cell 4
33-40		Cell 5
41-48		Cell 6
49-56		Cell 7
57-64		Cell 8
65-72		Cell 9
73-80		Cell 10
81-88		Cell 11
98-96		Cell 12

Technical Specification:

Housing	Black Die-cast Aluminum Body, Iron Yoke
Cooling System	Passive fanless, Temperature protection
Power Input/Output	Neutrik Powercon TRUE1
DMX Input/Output	5-pin XLR
Display	Blue/white Backlit LCD, auto-dimmed when idle.
Dimension (LxWxH)	985 x 65 x 168 mm
Weight	4.3kg (clamp included)
Electric	
Power supply	100-240V AC, 50/60 Hz
Power consumption	150W, 0.9A@120V 0.65A@230V
LED Driver	Constant Current Driver, 1280Hz (Flicker Free)
Fuse	T2A , 250V
Optics	
Light Source	12 pcs of 6in1 RGBWAUV 12W LED
Luminous Flux	1000lux @ 3m
Beam/Field Angle	30°/35°
Functions	
Control Modes	DMX512, RDM, Manual, Auto, Sound, Master/Slave
DMX Channels	2/3/12/32/60/96CH
Operation	
Temperature	Max ambient temperature Ta: 40°C
	Max housing temperature Tc (steady state): 80°C
Distance	Min. distance from flammable surfaces: 0.5 m
	Min. distance to lighted object: 0.1 m
Compliance	
LVD	EN60598-2-17:1989+A2:1991
	EN60598-1:2008+A11:2009
EMC	EN55015:2006+A1:2007+A2:2009
	EN61547:2009
	EN61000-3-2:2006+A12009+A2:2009
	EN61000-3-3:2008



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