XTILT

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SAFETY 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 engage the tilt-lock when carrying, to avoid pinch hazard.**
- **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 True1 when daisy-chaining fixtures (6 units @ 230V)**

MAIN FEATURES

- Flicker free high speed PWM 16-bit dimming for each cell
- Wide range zoom optics
- Industry standard 5pin XLR and Powercon True1
- Inputs and outputs for easy daisy-chaining
- Omega brackets with 15 different mounting combinations
- Tilt transport lock
- Adjustable fan mode and speed
- RDM remote addressing
- DMX controlled rise-time
- DMX controlled PWM frequency
- CTC control
- Easy and intuitive Local menu structure.
- Reversible display
- Firmware cloning from fixture to fixture via DMX
- Stealth design: All black parts, laser etched logos, Automatic dimming of LCD backlight.

DISPLAY NAVIGATION

DMX Mode
A001.C42

When XTILT 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.

DMX Mode
A001.C42

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

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DISPLAY NAVIGATION

>DMX Address
DMX Channels

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

Navigate the main menu with the Up/Down buttons and use the Enter/Confirm button to select a menu item.

 **Menu/Exit**

 **Enter/confirm**

 **Up/Down**

The XTILT will return to its previous state if no new setting or mode has been confirmed within 10 seconds.

DMX ADDRESS

Use Up/Down to alter the DMX start Address (001xxx), then press Enter/Confirm to set the chosen start address permanently. “xxx” (highest address) is determined by the chosen channel-mode. (e.g. in 6ch mode max address is 507)

- Setting the DMX start Address will activate “DMX Mode”

DMX Mode
A001 C42-REV

MANUAL

Use Up/Down and Enter/Confirm to select the submenu Position, Color or Autoprogram

Position

Use Up/Down and Enter/Confirm to sequentially set the manual Tilt position and zoom position used by Manual Mode Color and Auto

TILT POSITION
<064>

Color

Use Up/Down and Enter/Confirm to sequentially set and finetune the color and intensity.

- Setting Color will activate “Manual Mode”

MANUAL MODE
COLOR

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Autoprogram

Use Up/Down and Enter/Confirm to sequentially set the colortheme, timing and intensity for automatic color

- Setting Autoprogram will activate “Manual Mode”

Manual Mode
Auto:3 Fire

MASTER/SLAVE

Use Up/Down to choose off, Master or Slave1-12, and press Enter/Confirm.
When using the Manual Control with Master enabled, the Master fixture will transmit via the 5p XLR to control connected fixtures set to Slave Mode.

- Setting Master/Slave to Slave will activate “Slave Mode”

Slave
Mode

SETTINGS

Use Up/Down and Enter/Confirm to select the submenu Reset, Calibrate, Temperature or Update

Reset

Use Up/Down and Enter/Confirm to select Reboot, Reset or Reset Calibration.
Confirm with Yes to perform the selected reset.

- Reboot is equivalent of turning power off and on (Mechanical reset)
- Reset will restore factory settings apart from calibration, then Reboot
- Reset Calibration, will reset calibration data to factory default

Reboot
<No</ Yes

Calibrate

Use Up/Down and Enter/Confirm to select and calibrate each feature of the XTILT

Temperature

Use Up/Down to readout the temperature in either Celsius or Fahrenheit

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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.

Update
<Start>

DMX CHANNELS:

The XTILT may be set to use 6, 17 or 42 DMX channels.
Please refer to the DMX Charts for detailed description of each channel

6 channel

The 6 channel mode gives basic access for functional test of the fixture

1	2	3	4	5	6
RED	GREEN	BLUE	WHITE	ZOOM	TILT

17 CHANNEL

The 17 channel mode gives full access to all features apart from individual control of each cell

1 +2	3	4	5	6
TILT 16bit	Strobe	Max level	CTC	Zoom

7	8	9	10	11	12
Rise time	Tilt speed	Tilt blink	Fan speed	PWM	Control

13	14	15	16 + 17
Red all cells	green all cells	Blue all cells	Dimmer 16bit all cells

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42 channel normal

The 42 channel mode adds 25 channels to give each cell separate 16bit dimmer and RGB control

1 - 12	13 - 17	18 -22	23 - 27	28 - 32	33 - 37	38 - 42
As 17ch mode	Cell 1	Cell 2	Cell 3	Cell 4	Cell 5	Cell 6

42 channel reverse

The 42 channel reversed mode merely changes the order of the cells/pixels

1 - 12	13 - 17	18 - 22	23 - 27	28 - 32	33 - 37	38 - 42
As 17ch mode	Cell 6	Cell 5	Cell 4	Cell 3	Cell 2	Cell 1

DMX CHART

6 Channel mode

CHANNEL	VALUE	FUNCTION
1	000-255	Red emitter 0% → 100%
2	000-255	Green emitter 0% → 100%
3	000-255	Blue emitter 0% → 100%
4	000-255	White emitter 0% → 100%
5	000-255	Zoom narrow → wide
6	000-255	Tilt -110° → +110°

17 / 42 channel mode

CHANNEL	VALUE	FUNCTION
1	000-255	Tilt coarse -110° → +110°
2	000-255	Tilt fine (16bit)
3	000-007	Shutter closed
	008-015	Shutter open

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	016-119	Strobe slow → fast
	120-127	Shutter open
	128-183	Strobe random slow → fast
	184-191	Shutter open
	192-247	Strobe random cell slow → fast
	248-255	Shutter open
4	000-255	Max overall intensity 0% → 100%
5	000-255	CTC warm → cold
6	000-255	Zoom narrow → wide
7	000-031	Instant response
	032-063	Fast response
	064-095	Slow response
	064-255	

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8	000-255	Tilt motor speed fast → slow
9	000-015	No Function
	016-095	Blackout by movement up and down
	096-175	Blackout by movement up
	248-255	Blackout by movement down
10	000-063	Fan speed auto
	064-127	Fan speed low
	128-191	Fan speed medium
	192-255	Fan speed high
11	000-023	PWM frequency 1.2kHz
	024-035	PWM frequency 2.4kHz
	036-047	PWM frequency 3.6kHz

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	048-059	PWM frequency 4.8kHz
	060-071	PWM frequency 6.0kHz
	072-083	PWM frequency 7.2kHz
	084-095	PWM frequency 8.4kHz
	096-107	PWM frequency 9.6kHz
	108-119	PWM frequency 10.8kHz
	120-131	PWM frequency 13.2kHz
	132-143	PWM frequency 13.2kHz
	144-155	PWM frequency 14.4kHz
	156-167	PWM frequency 15.6kHz
	168-179	PWM frequency 16.8kHz
	180-191	PWM frequency 18.0kHz
	192-203	PWM frequency 19.2kHz
	204-215	PWM frequency 20.4kHz
	216-227	PWM frequency 21.6kHz

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	228-239	PWM frequency 22.8kHz
	240-255	PWM frequency 24.0kHz
12	000-031	No function
	032-063	Ignore calibration
	064-095	[reserved]
	096-127	[reserved]
	128-159	Prepare calibration reset (Wait 1- 3 seconds)
	160-191	Prepare mechanical reset (Wait 1- 3 seconds)
	192-223	No function
	224-255	Perform prepared reset

			17CH	42CH
13	000-255	Red component 0% → 100%	All cells	Cell 1
14	000-255	Green component 0% → 100%	All cells	Cell 1
15	000-255	Blue component 0% → 100%	All cells	Cell 1
16	000-255	Dimmer coarse 0% → 100%	All cells	Cell 1
17	000-255	Dimmer fine (16bit)	All cells	Cell 1

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18 → 22	As channel 13 → 17	Cell 2
23 → 27	As channel 13 → 17	Cell 3
28 → 32	As channel 13 → 17	Cell 4
33 → 37	As channel 13 → 17	Cell 5

TECHNIICAL SPECIFICATIONS

CONTRUCTION	
Cooling System	4 x 80mm fans
Power Input/Output	Neutrik Powercon TRUE1
DMX Input/Output	5-pin XLR
Display	Blue/white Backlit LCD, auto-dimmed when idle.
Dimension (LxWxH)	498 x 126 x 306 mm
Weight	11.5kg
ELECTRIC	
Power supply	100-240V AC, 50/60 Hz
Power consumption	Max 300W
LED Driver	Constant Current Driver, 1.2-24kHz (Flicker Free)
Fuse	T6.3A , 250V

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OPTICS	
Light Source	6 x Osram 40W RGBW
Beam Angle	4° - 38°
Field Angle	10° - 42°
FUNCTIONS	
Control Modes	DMX512, RDM, Manual, Master/Slave
DMX Channels	6/17/42CH
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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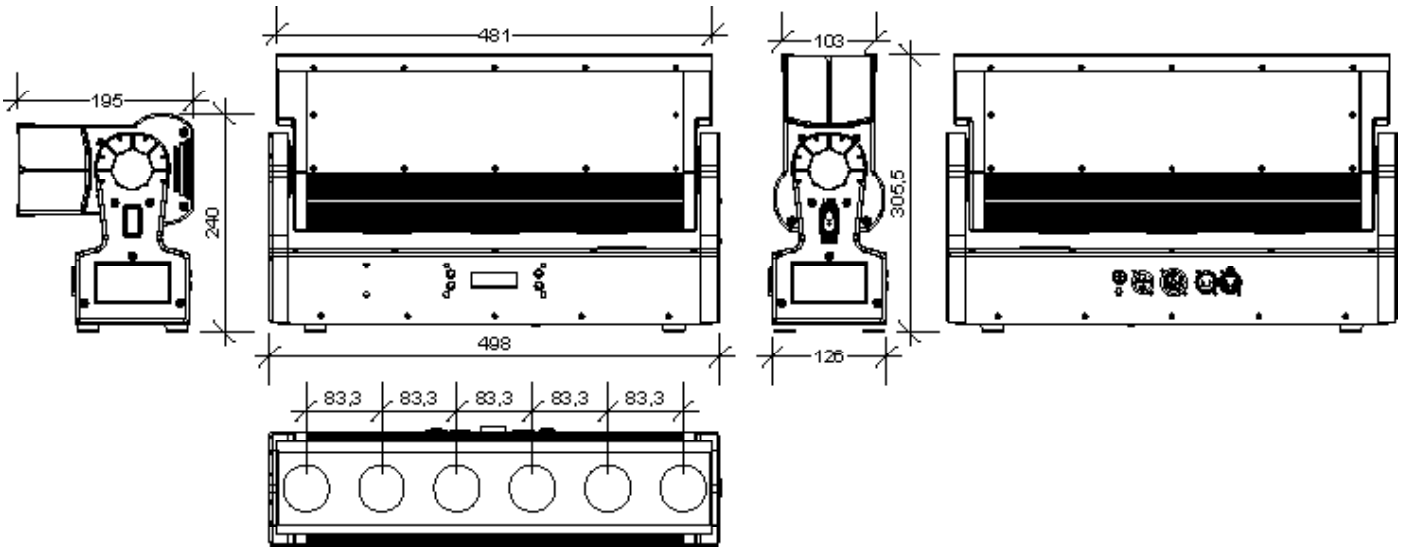

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