XLED HD

by bright

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 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)

Main Features:

- High Output 12x12w 6in1 RGBWAUV led-engine
- Flicker free high speed PWM 16-bit dimming
- 30° Even field optics
- Industry standard 5pin XLR and PowerCon
- Inputs and outputs for easy daisy-chaining.
- RDM remote addressing
- DMX controlled rise-time
- Easy and intuitive Local menu structure.
- Firmware cloning from fixture to fixture via DMX
- 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 XLED HD 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:

If the XLED HD 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  Enter/Confirm

Up Down

Navigate the main menu with the Up/Down buttons, and use the Enter/Confirm button to select a menu item. The XLED HD 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 (001→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"**

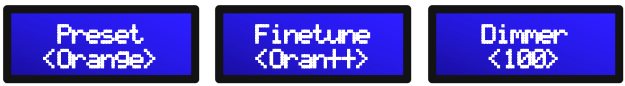
DMX Channel count

Use Up/Down to alter the DMX channel count (2ch, 3ch, 10ch), then press Enter/Confirm to set the chosen Channel count permanently.

- **Setting the DMX Channel count will activate "DMX Mode"**

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.



- **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.

- **Setting a program will activate "Auto" mode**

Sound trig

Use Up/Down to adjust the sensitivity (Sen000→Sen100) of the in-build microphone, then press Enter/Confirm to set Sound sensitivity permanently.

- **Setting the Sound sensitivity will activate "Sound" mode**

Master/Slave Operation

Use Up/Down to choose Master or Slave 1 → 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"**

Factory Reset

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

- **Resetting the fixture will activate "DMX Mode"**

Firmware Upload

Use Up/Down to select <Y> for yes, then press Enter/Confirm to set the fixture in upload 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**

DMX channels:

The XLED HD may be set to use 2, 3, or 10 DMX channels.
Please refer to the DMX Charts for detailed description of each channel

2 Channel mode

1	2
Dim	Color

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

1	2	3
R	G	B

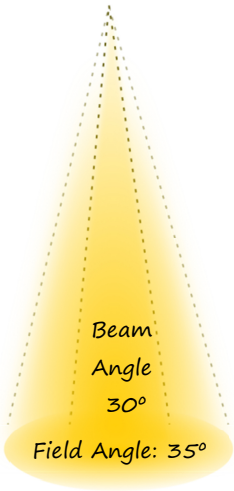
The 3 channel mode allows control by the use of RGB control channels only, to be used with architectural or other generic control-systems. The levels of White, Amber and UV are automatically calculated by the fixture to maximize output of the chosen colors.

10 Channel mode

1	2	3	4	5	6	7	8	9	10
R	G	B	W	A	UV	Dim	Dim fine	Strobe	Rise-time

The 10 channel mode gives individual access to all 6 LED-colors, 16-bit master dimmer and shutter/strobe with additional random and audio-trig, finally the rise-time channel allows for emulation of typical response-profiles found in conventional dimmer and filament lamps.

Photometrics



Lux

	R	G	B	W	A	UV	All
1m	2520	3175	2308	4524	1751	801	12800
2m	638	825	603	1320	462	217	3150
3m	298	376	268	679	212	97	1350
4m	171	209	153	324	119	55	760
5m	105	128	86	199	76	33	505

DMX Chart

2 Channel mode

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

3 Channel mode

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

10 Channel mode

CHANNEL	VALUE	FUNCTION
1	000-255	Red dimmer 0% → 100%
2	000-255	Green dimmer 0% → 100%
3	000-255	Blue dimmer 0% → 100%
4	000-255	White dimmer 0% → 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)
9	000-007	Shutter Closed
	008-015	Shutter Open
	016-119	Strobe Slow → Fast (1-25Hz)
	120-127	Shutter Open
	128-183	Strobe Random Slow → Fast
	184-191	Shutter Open
	192-247	Strobe Audio Slow → Fast
	248-255	Shutter Open
10	000-031	Instant response
	032-063	Short rise-time
	064-095	Medium rise-time
	096-127	Long rise-time
	128-159	Extra-long rise-time
	160-191	[reserved]
	192-223	[reserved]
	224-255	[reserved]

Technical Specification:

Construction	
Housing	Black Die-cast Aluminum Body, Iron Yoke
Cooling System	Passive fanless, Temperature protection
Power Input/Output	Neutrik Powercon
DMX Input/Output	5-pin XLR
Display	Blue/white Backlit LCD, auto-dimmed when idle.
Dimension (LxWxH)	102 x 263 x 287 mm
Weight	3.4kg (clamp included)
Electric	
Power supply	100-240V AC, 50/60 Hz
Power consumption	120W, 0.9A@120V 0.5A@230V
LED Driver	Constant Current Driver, 2940Hz (Flicker Free)
Fuse	T2A , 250V
Optics	
Light Source	12 pcs of 6in1 RGBWAUV 12W LED
Luminous Flux	500lux @ 5m
Beam/Field Angle	30°/35°
Functions	
Control Modes	DMX512, RDM, Manual, Auto, Sound, Master/Slave
DMX Channels	2/3/10CH
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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