



SPECIFICATION SHEET

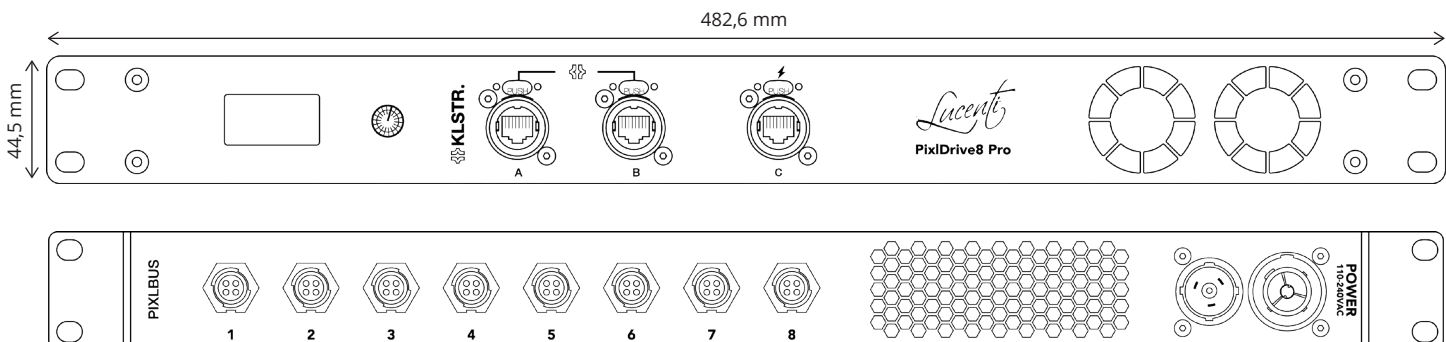
PIXLDRIVE8 PRO CONTROLLER

GENERAL

Product name	PixlDrive8 Pro Controller
Description	8 channel PixlBus controller: integrated PSU, KLSTR and Lucenti technology
PN	BW-LU-PD8

PIXEL OUTPUT

Outputs	<p>8x PixlBus output ports (data + power), 200W/24Vdc per port. Only supports PixlBus devices.</p> <p>400 RGBW pixels per port (= 8x BW-100, 16x BW-50, ...) @ 50Hz. 3200 RGBW pixels in total.</p> <p>Protocol limit for 400x RGBW on one port is ~60Hz.</p> <p>Ports can be individually enabled/disabled.</p> <p>Ports support hot-plugging of devices.</p>
Protection on outputs	<p>Overload protection: for sustained load > 200W. Auto cut-off for peak loads.</p> <p>Short circuit detection: port will be disabled independent of other ports.</p>
Connector	Plastic M12 4-pin connector, push-lock
Protocol	Proprietary Lucenti PixlBus protocol



Width: 482,6 mm Depth: 380 mm (When knob included: 400mm)
 Height: 44,5 mm Weight: 7550 gr

DEVICE MODES AND CONTROL PROTOCOLS

Supported device modes	eDMX (Ethernet DMX): - Art-Net I (broadcast) & II, 3, 4 (unicast) - sACN/E1.31 multicast and unicast Effects: Internal library of customizable effects, can run standalone Test Patterns: Internal library of test patterns, can run standalone Blackout
Supported merging modes (in Art-Net/sACN mode)	HTP (Highest Takes Precedence) Merge up to 4 sources per protocol per universe
Supported mapping modes	Manual: Start Universe Dense mode: KLSTR: Automatic mapping (will be added through a future firmware update).

KLSTR TECHNOLOGY

Discovery	Auto discovery of multiple PixlDrive8 Pro controllers and all connected PixlBus devices Auto generation of DMX patch Easy assignation of Fixture IDs Link fixtures to on-board GDTF files. Export MVR file from KLSTR application containing all fixtures, GDTF files, fixture IDs and mapping for use in console
Synchronization	
- Packet rate and packet sync	Controller can slave to incoming Art-Net or sACN packet rate. ArtSync/sACN support will be added through a future firmware update.
Monitoring	Monitor multiple devices from one interface Get alerts of critical events (e.g. port short circuit, devices that went offline, ...) Display sensor data (load per port, temperature, framerate) per controller
Connectivity	IPv6 and IPv4 Topology overview and configuration Topology redundancy - Spanning tree - Ethernet ports are automatically bridged on failing controller

PIXLBUS TECHNOLOGY

PixlBus protocol	Auto discovery of devices on PixlBus, together with KLSTR discovery this allows for a fully automated setup
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	All PixlBus devices on one controller are synchronized.

USER INTERFACE

Hardware	
- Display	OLED single color graphical display 1,3"
- Rotary pushbutton	Rotating push button knob to control menu
- LEDs Ethernet	Activity + link led
KLSTR Desktop APP	Desktop app for Windows, MacOS and Linux
	Allows full configuration of all parameters in an intuitive interface
Webinterface: Landing page	Link to download KLSTR-CTRL app. Upload new firmware file.

CONNECTIVITY

Network	3x Gigabit of which 1x POE (only supplying power to logic board, not to outputs)
Power	TRUEcon 115/230Vac 50/60Hz In/Out.

ELECTRICAL

Power input	110-240 VAC , 50/60hz. 1m Schuko to TRUEcon cable included.
	PoE port for powering logic board (maintainance, log retrieval)
Power supply	1600W/24Vdc, 200W per port
Max operating temperature	min 45 °C (ambient temperature)
Power distribution board	Separate power distribution and voltage/current sensing board

HOUSING / MECHANICAL

Housing	Metal housing, black powder coating, IP20 rating
Mounting	1U rack mountable, standard 19 inch rack compatible, front and back mounting plates. Mounting screws included.

CABLING CONSIDERATIONS

PixIBus:

- 30M in between controller and first bar and NO cable in between bars.
 - NO cable in between controller and first bar and 10M in between 8 BW-100 bars.
 - NO cable in between controller and first bar and 5M in between 16 BW-50 bars.
 - The cable lengths might be increased when using less bars or not using full output (RGBW@Full) on all bars!
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