



GENERAL

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

PIXEL OUTPUT

Outputs	8x PixlBus output ports (data + power), 200W/24Vdc per port
	Max 400 rgbw pixels per port eg 8xBW-100
	Ports can be individually enabled/disabled
	Ports support hot-plugging of devices
Protection on outputs	Overload and short circuit protection on each port. Overload on one port does not influence other ports
	Short circuit detection: port will be disabled independent of other ports
Connector	Lucenti PixlBus devices
Protocol	Proprietary Lucenti PixlBus protocol

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
Standalone	Effects: Internal library of customizable effects, can run standalone
eDMX personalities	Test Patterns (2CH), Effects (18CH), Full Pixel Control, Groups of 5 pixels, Groups of 10 pixels, Groups of 25 pixels, Groups of 50 pixels
	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
Firmware update	Controller can update the firmware of connected PixlBus devices

KLSTR TECHNOLOGY (visit KLSTR.tech from more info)

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 and sACN is supported
Monitoring	Monitor multiple devices from one user 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	IPv4 static or DHCP
	Topology overview and configuration
	Topology redundancy
	- Spanning tree
	- Ethernet ports are automatically bridged on failing controller

PIXELBUS TECHNOLOGY

PixlBus protocol

Auto discovery of all PixlBus compatible devices on the bus

Together with KLSTR this allows faster setup times and management

Time synchronisation of all devices connected to a PixlBus controller

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

1500W/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

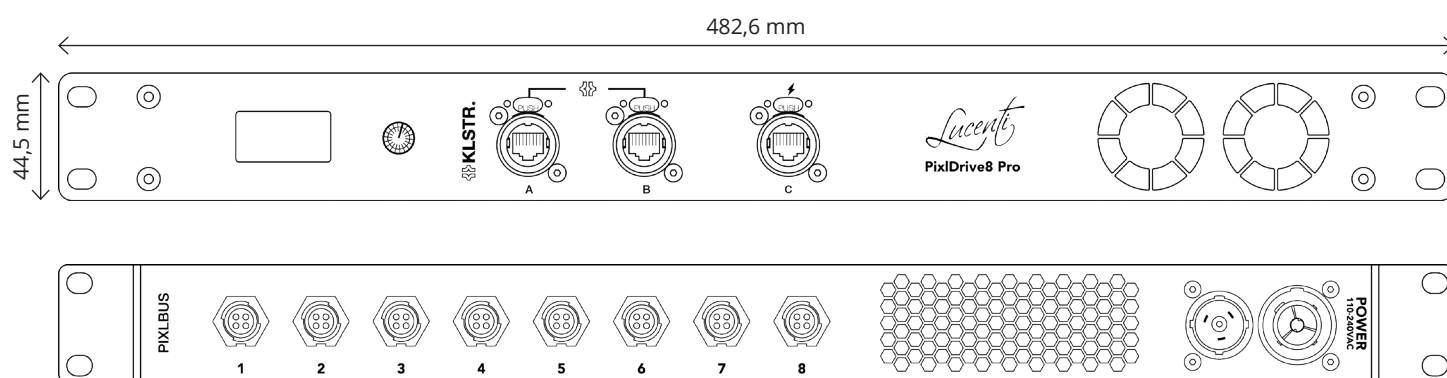
Mounting

1U rack mountable, standard 19 inch rack compatible, front and back mounting plates. Mounting screws included.

CABLING CONSIDERATIONS

PixlBus:

- 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!



Width: 482,6 mm
Height: 44,5 mm

Depth: 380 mm (When knob included: 400mm)
Weight: 7550 gr