

# User Manual

# **PixelGate**



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# Safe operation

To ensure safe and reliable operation of the devices, please observe the following requirements:

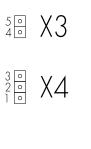
Use the device only for its intended purpose
Do not use devices that show signs of malfunctioning
Avoid strong physical impacts on the device
Protect devices and cables from contact with moisture or other corrosive liquids
Whenever a fault is detected in the device, please contact the manufacturer.

#### **General information**

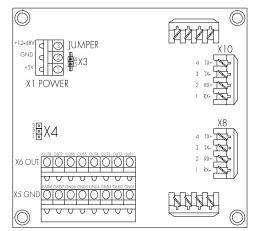
PixelGate is a pixel strip controller for pixel mapped projects at indoor and outdoor installations when you need to convert ArtNet (DMX over Ethernet) or sACN data to 1 or 2 wire interface. IP65 case makes the device resistant to water, dust, fog, and smoke.

#### **Installation**

- 1. Ensure the device has no damage due to transportation
- 2. Remove device's lid after unscrewing the four screws
- 3. When using 12-48V power source, set the jumper at X3 connector. When using 5V power source, jumper is not installed
- 4. When using 5V output signal: set the jumper at 1 and 2 pins of X4 connector When using 3.3V output signal: set the jumper at 2 and 3 pins of X4 connector
- 5. Connect Ethernet input and output to X10 and X8 sockets respectively
- 6. Connect LED stripes control and ground signals to X6 and X5 terminal blocks respectively
- 7. Connect Power supply to X1 terminal block
- 8. Set lid back and tighten all screws







#### Warning!

Before mounting and turning on the power, you need to make sure protective ground cable connections and places of their connection

#### Warning!

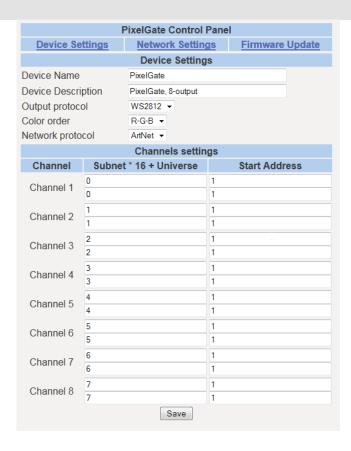
Incorrect jumper connection may cause device malfunction

# Web interface settings

PixelGate Arma devices support configuring most of their parameters through the web interface using HTTP protocol (TCP port 80).

# **Device settings**

To access the settings page enter the IP address of the device to the browser. Main settings page of the Pixelate Arma device will be displayed.



Pic. 2
Device settings

#### **Device settings:**

Device nameEditable device name (up to 18 characters)Device descriptionEditable device description (up to 64 characters)Output protocolOutput protocol signal (WS2812 or WS2811)

**Color order** Sequence of colors in LED stripe

**Network protocol** Type of Network protocol (ArtNET or sACN)

#### **Channels settings:**

**Channel** Number of channel (1-8)

Subnet\*16+ Universe Subnet and Universe number (for ArtNET) or Universe number (for sACN)
Start Address
Starting DMX address for first and second universe in the channel

For each output channel you can specify two universe for output. If the LED stripe requires to control more than 512 DMX channels, device puts the data of second universe after channel 512 of first universe, providing maximum number of 1024 DMX channels.

To save the changes in device settings, click «Save settings».

## **Network settings**

To edit the network settings of the device, click on the link "Network".

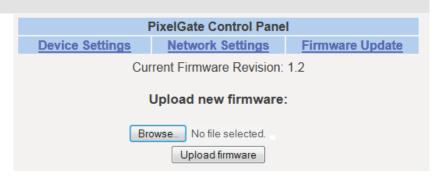
PixelGate Control Panel			
Device Settings	Network Settings	Firmware Update	
Item	Setting		
Static IP Address	2.0.0.138		
Subnet Mask	255.0.0.0		
Default Gateway	2.0.0.1		
Primary DNS Server	0.0.0.0		
Secondary DNS Server	0.0.0.0		
	Save settings		

Static IP Address - view/edit network address of the device Subnet Mask - view/edit IP subnetwork mask Default Gateway - view/edit gateway IP address Primary DNS Settings - primary DNS address Secondary DNS Settings - secondary DNS address

To save the changes in network settings, click **«Save settings»**.

# Firmware update

For profile operations, click on the link "Firmware".



**Browse** - browse for new firmware's file

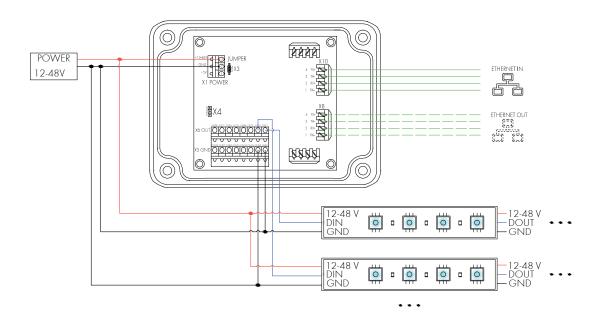
To start updating press button **«Upload firmware»**.

#### Warning!

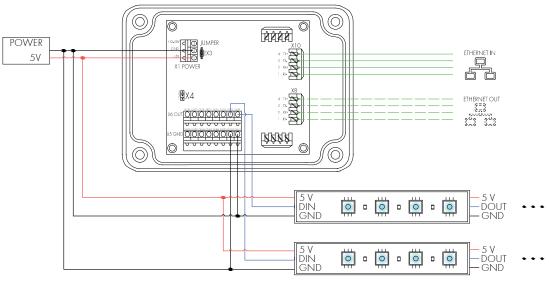
To update firmware of the device, click on the link "Firmware"

#### **Connection scheme**

#### Power supply 12V



#### Power supply 5V



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## **Technical maintenance**

Maintenance the device, search and troubleshooting should be performed by service personnel. The device should be free from dirt, dents, connecting cables and wires must be intact and securely fastened.



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