DMX4ALL PX1 ArtNet PixxControl Interface Pixel LED Controller Dimmer User Manual

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DMX4ALL PX1 ArtNet PixxControl Interface Pixel LED Controller Dimmer

The ArtNet PixxControl PX1 is a compact ArtNet (DMX over Ethernet) interface, designed to convert ArtNet into an independent control signal for multiple digital LEDs.

Product Description

The ArtNet PixxControl PX1 is a compact ArtNet interface that allows the conversion of ArtNet into an independent control signal for multiple digital LEDs. It features a standard RJ45 network connector for ArtNet network connection. The output is configurable, allowing the selection of different pixel data protocols for various LED pixel types and other parameters. The RGB color sequence is adjustable, providing flexible use, and it is also compatible with RGBW pixels. Additionally, a SingleColor option is available where each pixel requires only one channel. The ArtNet PixxControl PX1 supports adjustable pixel groups, reducing the number of channels required for installations with many pixels. It also features an RGB-LED display that clearly shows the current operation status.

Product Features

- Compact ArtNet (DMX over Ethernet) interface
- Converts ArtNet into an independent control signal for multiple digital LEDs
- Standard RJ45 network connector for ArtNet network connection
- Configurable output with selectable pixel data protocol
- Selectable color sequence (RGB or RGBW)
- Adjustable pixel groups for reducing channels in installations with many pixels
- RGB-LED display for displaying current operation status
- Switchable LED display to avoid disturbing light spots on stage
- RDM support for individual parameter settings
- User-friendly configuration via web browser

- Combinable with WiFi components for integration into WLAN networks
- Firmware update function for future functionality
- Top-hat rail housing available as an accessory

Product Specifications

- **Power supply:** [Insert Power Supply Information]
- **Connections:** [Insert Connection Information]
- **Ethernet:** [Insert Ethernet Information]
- **Protocol:** ArtNet (DMX over Ethernet)
- **Output protocol:** [Insert Output Protocol Information]
- **Color sequence:** Selectable (RGB or RGBW)
- **Pixel groups:** Adjustable lengths
- **Gamma correction:** [Insert Gamma Correction Information]
- **LED display:** RGB-LED display
- **Dimension:** [Insert Dimension Information]

Product Usage Instructions

To use the ArtNet PixxControl PX1, please follow these instructions:

1. Read the user manual and warnings carefully before installation for your own safety.
2. Connect the ArtNet PixxControl PX1 to the ArtNet network using a standard RJ45 network connector.
3. Select the appropriate pixel data protocol for your LED pixel type and other parameters.
4. Adjust the color sequence to your preference (RGB or RGBW).
5. If needed, adjust the pixel group length to reduce channels in installations with many pixels.
6. Monitor the current operation status using the RGB-LED display on the ArtNet PixxControl PX1.
7. Switch off the LED display if necessary using the ArtNet command (AcLedMute), RDM (DISPLAY_LEVEL), or time-controlled function to avoid disturbing light spots on stage.
8. Set individual parameters via RDM, such as pixel type, pixel group size, or color sequence.
9. Use the free RDM-Configurator software available for download on the website **www.dmx4all.de** to set parameters via RDM.
10. Configure the ArtNet PixxControl PX1 easily using a web browser. No special software is required; a normal web browser on a PC, smartphone, or tablet is sufficient for configuration.
11. For easy IP address setup, download the IP Configurator PC tool or Android app as a free download. This allows the network settings of your PC or Android device to remain unchanged while configuring the IP of the ArtNet PixxControl PX1.
12. If desired, integrate the ArtNet PixxControl PX1 into WLAN networks by combining it with a WLAN bridge.
13. Update the firmware of the ArtNet PixxControl PX1 to access future functions. The firmware update can be initiated from a web browser without accessing the device directly.
14. If desired, use the top-hat rail housing (available separately) for convenient installation.

For your own safety, please read this user manual and warnings carefully before installation.

Decription

- The ArtNet PixxControl PX1 is a compact ArtNet (DMX over Ethernet) interface, which converts ArtNet directly in one independent control signal for several digital LEDs.
- For the ArtNet network connection a standard RJ45 network connector is used.

Output with selectable pixel data protocol

- The ArtNet PixxControl PX1 provides a configurable output where the pixel data protocol (control signal) can be selected for different LED pixel types and other parameters.

Selectable color sequence

- The RGB color sequence is adjustable, which allows flexible use. It is also possible to control RGBW pixels. Furthermore, a SingleColor option can be selected, where each pixel needs only one channel.

Adjustable pixel group

- The ArtNet PixxControl PX1 supports pixel groups with adjustable lengths. Each pixel group behaves like a single pixel that is controlled via 3 DMX channels (RGB) or 4 DMX channels (RGBW). This allows to reduce channels in installations with many pixels.

RGB-LED Display

- The RGB-LED displays the current operation status of the ArtNet PixxControl PX1 clearly.

Switchable LED-Display

- The LED displays on the ArtNet PixxControl PX1 can be switched off via ArtNet command (AcLedMute), RDM (DISPLAY_LEVEL) or time-controlled. This is especially helpful on stage to avoid disturbing “light spots”.

RDM

- Important parameters such as the pixel type, the pixel group size or the color sequence can be set individually via RDM.

Free RDM-Software

- To set parameters via RDM our free software RDM-Configurator is available as download on our website **www.dmx4all.de** .

DMX4ALL Communication-Interface

- The ArtNet PixxControl PX1 has another communication interface which uses the DMX4ALL commands via TCP or UDP.

Easy Configuration

- A user-friendly configuration via a web browser allows quick and uncomplicated setting of all parameters. No special software is needed a normal web browser is enough. This means that the configuration is possible at any time from a PC, smartphone or tablet.
- To set the IP address easily, the IP Configurator is offered as free download as a PC tool or Android app. This allows the network settings of the PC or Android device to remain unchanged in order to configure the IP of the ArtNet PixxControl PX1.

Combinable with WiFi components

- The ArtNet PixxControl PX1 can be integrated into WLAN networks in combination with a WLAN bridge.

Firmware-Update function

- To use future functions, the ArtNet PixxControl PX1 offers a firmware update function. The update can be started from a web browser, so no access to the device is necessary!

Top-hat rail housing available

- The top-hat rail housing 350 or 350flat is available as accessory for the ArtNet PixxControl PX1.

Data sheet

- **Power supply:** 8-24V DC (100mA @ 12V / 50mA @ 24V)
  Connections: RJ45 Ethernet 5pin screw terminal
- **Ethernet:** 10 Mbit/s | 100 Mbit/s
- **Protocol:** ArtNet RDM
- **Output protocol:** APA-101, APA-104, APA-102, DycoLED PB3, DycoLED PB5, GS8208,
  - INK1002, INK1003, LC8808,
  - LPD1101, LPD8803, LPD6803, LPD8806,
  - LPD1886 8Bit, LPD1886 12Bit (8Bit controlled), SK6812, SK6822, SK9822, SM16703,
  - TM1804, TM1812, TM1814, TM1829, TM1934,
  - UCS1903, UCS1912, UCS2903, UCS2912,
  - WS2801, WS2811, WS2812, WS2812B,
  - WS2813, WS2815, WS2818, WS2821 max. 1360 pixel
  - LPD1886 12Bit (12Bit controlled),
- UCS9812 (8Bit controlled), UCS9812 (16Bit controlled) max. 680 pixel
- **Color sequence:** RGB settable / RGBW SingleColor white, red, green, blue
- **Pixel groups:** 1 up to 127 Pixel / All
- **Gamma correction:** Settable for LPD1886 12Bit (8Bit controlled), UCS9812 (8Bit controlled)
- **LED-Display:** RGB Status-LED
- **Ethernet-Status-LEDs** yellow and green

- **Dimension:** 29,2mm x 82mm

Model Overview

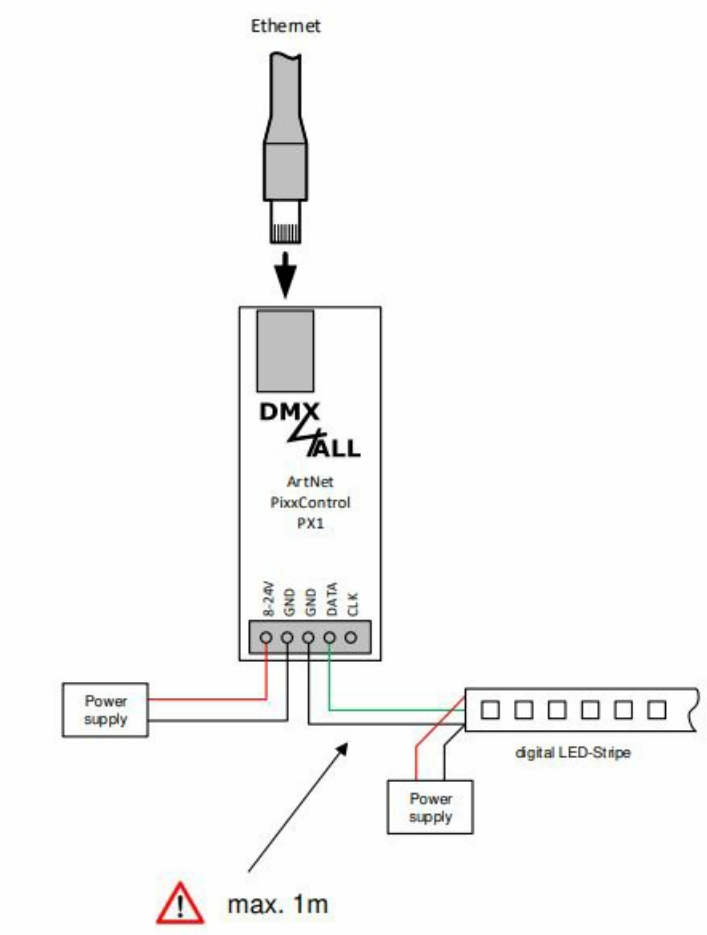
The different models of the ArtNet PixxControl series provide a different range of functions and are available in different versions.

Model	ArtNet PixxControl **PX1**	ArtNet PixxControl **PX2**	ArtNet PixxControl **PX2+**
Version	Board	Board	Mounted Device
Data Output	1	2	2
Universes	up to 8	2x up to 8	2x up to 8
RDM	✓	✓	✓
Voltage Monitoring	×	✓	✓
CTRL Output	×	✓	✓
RGB-Status-LED	✓	✓	✓
PWR LEDs	×	×	✓
DATA LEDs	×	×	✓
Pixel-Types	APA-101, APA-102, APA-104 DycoLED PB3, DycoLED PC5 GS8208 INK1002, INK1003 LC8808(B), LPD1886 8Bit, LPD1886 12Bit, LPD1101, LPD6803, LPD8806 SK6812 , SK6822, SK9822 SM16703 TM1804, TM1812, TM1814, TM1829, TM1934 UCS1903, UCS1912, UCS2903, U CS2912, UCS9812 WS2801, WS2811, WS2812(B), WS2813, WS2815, WS2818, WS2821		
Color sequence	RGB (sequence settable) SingleColor white SingleColor red SingleColor green Sin gleColor blue RGBW		
Configuration	Web-Interface / RDM / DMX4ALL Commands		

Connection

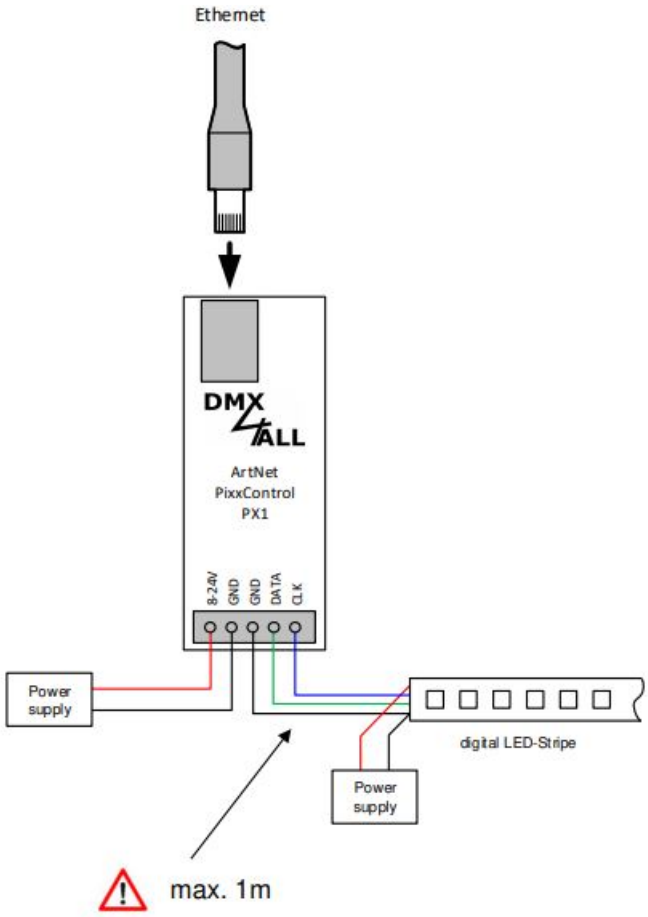
Connection of digital LEDs with one control signal (DATA)

- For digital LEDs with one control signal only DATA and GND must be connected (e.g. WS2811 / SK6812 / APA-104 / TM1804).



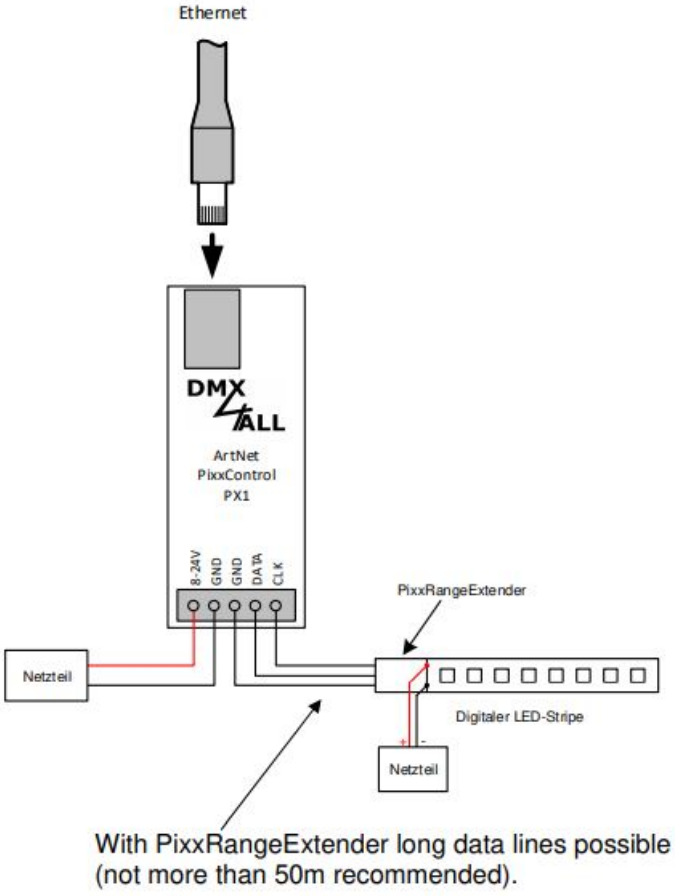
Connection of digital LEDs with two control signals (CLK+DATA)

- For digital LEDs with two control signals DATA, CLK and GND must be connected (e.g. WS2801 / APA-102 / SK9822).



Connection with long data lines

- For longer data lines (more than 1m) and by using digital LED stripes, the use of a PixxRangeExtender is recommended to prepare the control signal and isolate the individual areas.
- In this case, the PixxRangeExtender is connected directly in front of the signal input of the digital LED stripe.

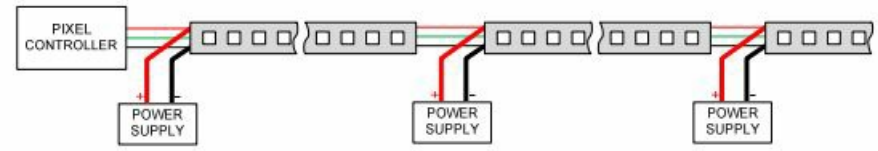


Power supply digital LED-Stripes

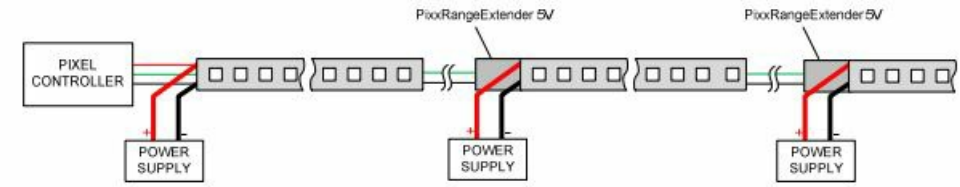
- Generally digital LED-Stripes are operated with a power supply of 5V.
- Relatively high currents for the complete installation are the result.
- A voltage drop occurs on the digital LED-Stripe itself, so little by little the brightness reduces. Furthermore, this is the reason for different color reproduction in case of using RGB/RGBW-Stripes. A steady supply of voltage is necessary.
- Several decentral power supplies or one central power supply can be used for voltage/power supply. The cross-sections of the supply lines to the digital LED-Stripe must be sufficiently dimensioned !

Connecting LED-Stripes with several power supplies

- If several power supplies are used, these can be installed decentral. The supply lines can be shorter in this case.

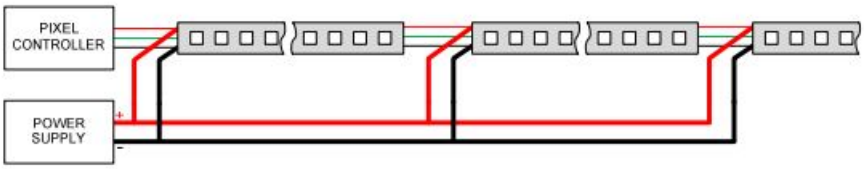


- In case of long distances within the installation the PixxRangeExtender 5V can be used to purify the control signal and to isolate single areas.



Connecting LED-Stripes with one power supply

- The supplies must be calculated adequately in its dimension if only one power supply with the needed high power is provided. To ensure a low voltage drop on the cable route this is necessary.



LED Display

- The ArtNet PixxControl PX1 has several display status LEDs.
- A green and a yellow LED is on the Ethernet port, showing the network activity. Furthermore, a RGB-LED signals the device status.

Green Ethernet-LED

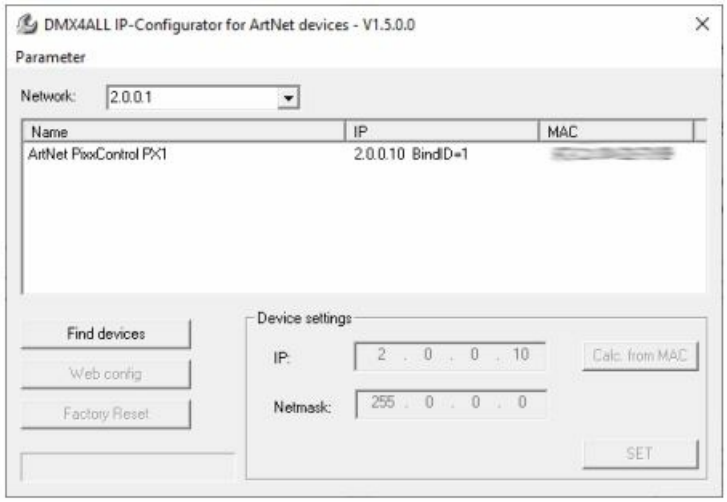
- **Off** Power supply not connected /
- **Display** in MUTE mode
- **Flashes** No Ethernet connection available
- **Lights** Ethernet connection available
- **Yellow** Ethernet-LED
- **Off** No data transfer /
- **Display** in MUTE mode
- **Flashes** Data transfer takes place
- **RGB** Status-LED
- **Off** Power supply not connected /
- **Display** in MUTE mode
- **RED** lights
- **No** Ethernet connection
- **GREEN** lights Device works normally
- **BLUE** lights Device is ready to switch to update mode
- **BLUE** flashes Device is in update mode
- **GREEN** / **BLUE** in rotation Pixel data are received
- **RED** / **GREEN** / BLUE in rotation RDM Identify or Art-Net Locate is signaled

Device Settings with Web-Interface

- The device settings of the ArtNet PixxControl PX1 occur via a web interface, which can be called up via any web browser.
- Before calling the web page, the IP of the ArtNet PixxControl PX1 must match to the existing network. The IP can be set via the IP configurator or the PC must be set to the ArtNet network.

Set IP via IP-Configurator

- The IP Configurator allows setting the IP address and the netmask even if the network setting of the PC is not in the IP range of the ArtNet PixxControl PX1.
- Install the IP-Configurator
- Connect the ArtNet PixxControl PX1 with the network
- Turn on ArtNet PixxControl PX1
- Start the software IP-Configurator



- The ArtNet PixxControl PX1 is shown in the list
- Select the device by clicking the entry
- Enter the new IP and Netmask
- Click SET

Set IP of the PC

- Within the delivery state, the assigned IP address is 2.0.0.10 used for the web interface.
- Set the computers network card to this IP range, to access the IP address 2.0.0.10 via a web browser.
- The network setting of the computer must be set to the IP address 2.0.0.1 and the subnet mask 255.0.0.0 .
- For further details, please take a look to the
- Art-Net™ specification.

Device Settings

- To get the following configuration page, the IP of the ArtNet PixxControl PX1 must be called up via a web browser in the address bar (delivery state: 2.0.0.10):

Network Settings

- Each device needs an own IP-Address that the assignment occurs clearly within the network. Please use in accordance to the ArtNet-Specification the IPAddress 2.x.x.x or 10.x.x.x with the net mask 255.0.0.0 .
- Any other IP address can also be used, such as 192.168.1.10 .
- In this case the netmask must be adjusted to 255.255.255.0 !
- The ArtNet PixxControl PX1 can be named with any name for a better distinction.
- The short name is limited to 18 characters and the long name to 64 characters.

DMX4ALL Command Options

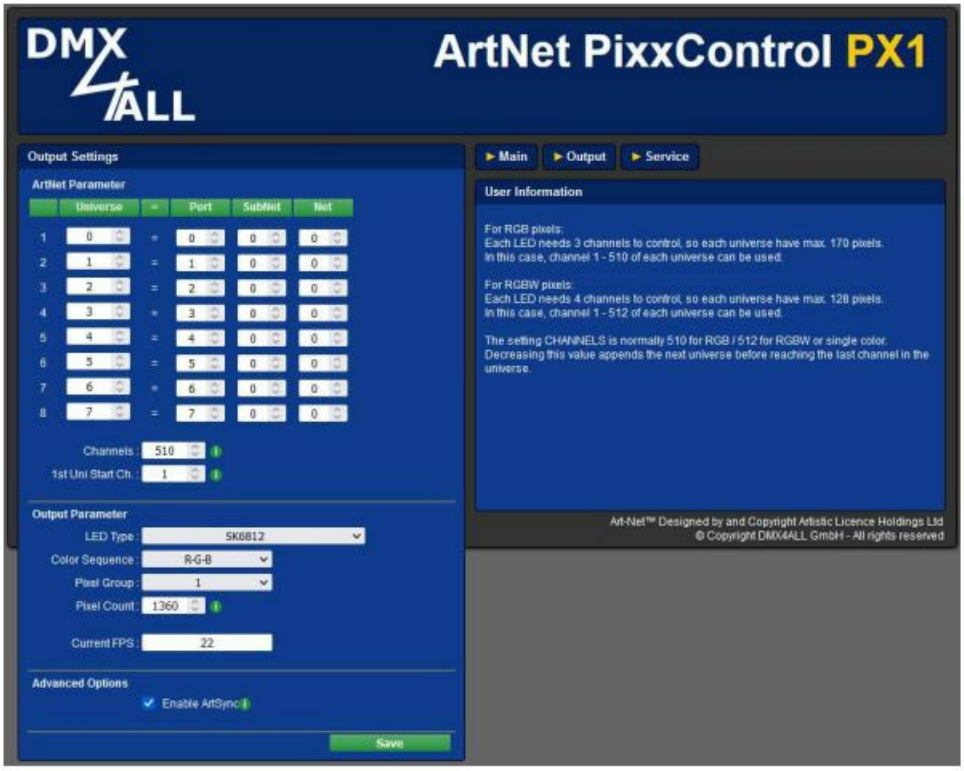
- The setting Protocol defines whether the DMX4ALL Commands are to be transmitted via UDP or TCP connection and the used port.
- The DMX4ALL Command Options are described below under DMX4ALL Command Support.

Additional Settings

- If the LED indicator auto off option is activated. The LEDs on the device are switched off after ca. 10 minutes of operation with a permanent network connection.

Output Settings

The Output Settings specify the settings for the output.



ArtNet Parameter

- The parameter Universe specifies which ArtNet universe is accepted by the ArtNet PixxControl PX1.
- This parameter is composed by the ArtNet parameters Port, SubNet and Net, which are automatically converted in the table.
- The universe must be specified for all 8 universes, because for the output the individual universes are output one after the other.
- Channels specifies up to which DMX channel the DMX universe is used, before the next one is attached.
- 1st Uni Start Ch. specifies the first DMX channel for the first DMX universe from which the DMX channels are used.

Output Parameter

- **LED Type** defines which LED type is connected to the output.
- **Color sequence** specifies the color settings. The RGB, RGBW color sequence or control of one color (SingleColor) is possible. In case of SingleColor only one channel per pixel is used for control. Corresponding to the color selection the single color control occurs (e.g. running light blue or white for all colors).
- **Pixel Group** specifies the length of a pixel group. Each pixel group behaves like a single pixel, all pixel of one group are controlled in the same way.
- **Pixel count** defines how many pixel (RGB-, RGBW- or single color LEDs) are controlled at the output.
- **Current FPS** displays the current frame rate at the output. It will be continuously identified and updated by the ArtNet PixxControl PX1.
- **Speed Factor** is a setting for the transfer speed in case of digital LEDs with separated clock- and data line.
- **Master-Brightness** specifies the master brightness. This is 1/31 up to 31/31 settable or at channel 512 in the 1 resp. 9 universe (U1C512 resp. U9C512).
- Available for APA-102, LPD8806, LPD1101, SK9822

- **Master-Brightness Red/Green/Blue/White** indicates the master brightness separately for the colors red, green, blue and white.
- Available for TM1814
- **Gamma** defines the curvature of the output curve. The values are 1.0 / 1.2 / 1.4 / 1.8 / 2.0 / 2.2 . The higher the gamma value, the more the output characteristic curve is curved:

- Available for LPD1886 12 Bit (8Bit controlled), UCS9812 (8Bit controlled), TLS3001 (8Bit controlled)

Additional Options

- The Enable ArtSync option synchronizes the output of multiple ArtNet devices by using software with ArtSync support.

Login for Web-Interface

- The ArtNet PixxControl PX1 offers the option to create a login for the web interface.
- A password can be named on the service site under login options.
- An empty password allows the access without password request.
- The User Name is fixed, can’t be changed and is always „Admin“.

- If a password is defined, it will be queried to get the web surface.

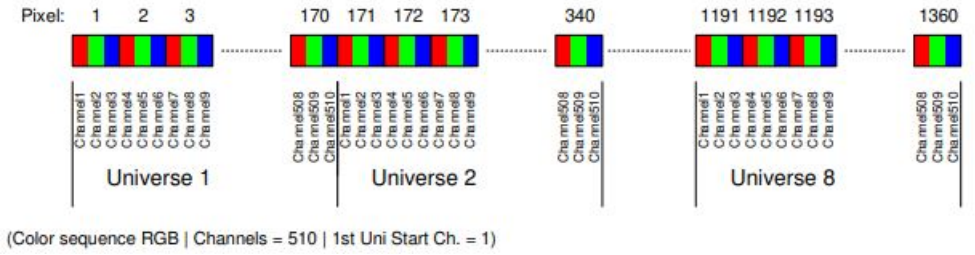
- If a password is assigned and is no longer known, a factory reset must be executed to reset and renew the password. In this case, all settings are also reset to the delivery state!!

Pixel Assignment

8-Bit Control

- The ArtNet PixxControl PX1 controls up to 130RGB pixel. For this up to 8 ArtNet universes are used. With 8-bit control, one channel is used for R, one channel for G and one channel for B, which results in a maximum of 170 RGB pixels per universe.

The single pixels are assigned to the universes as follows:



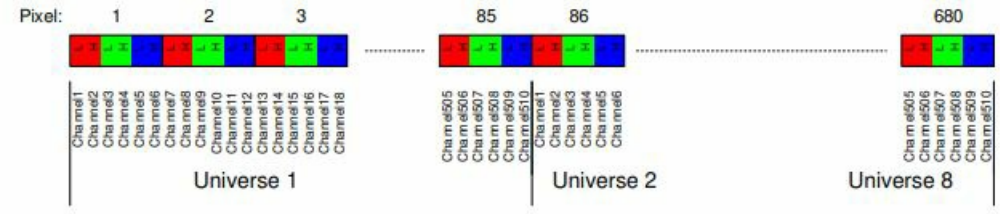
(Color sequence RGB | Channels = 510 | 1st Uni Start Ch. = 1)

Universe Pixel

1. 1-170
2. 171-340
3. 341-510
4. 511-680
5. 681-850
6. 851-1020
7. 1021-1190
8. 1191-1360

Bit Control

- The 16-bit control is available for LED types with more than 8 bits.
- These are the LPD1886 with 12 bit and the UCS9812 with 16 bit.
- In the 16-bit control always 2 DMX channels are used for one color control.
- This means that up to 85 RGB pixels can be controlled per universe.
- The single pixels are assigned to the universes as follows:



(Color sequence RGB | Channels = 510 | 1st Uni Start Ch. = 1)

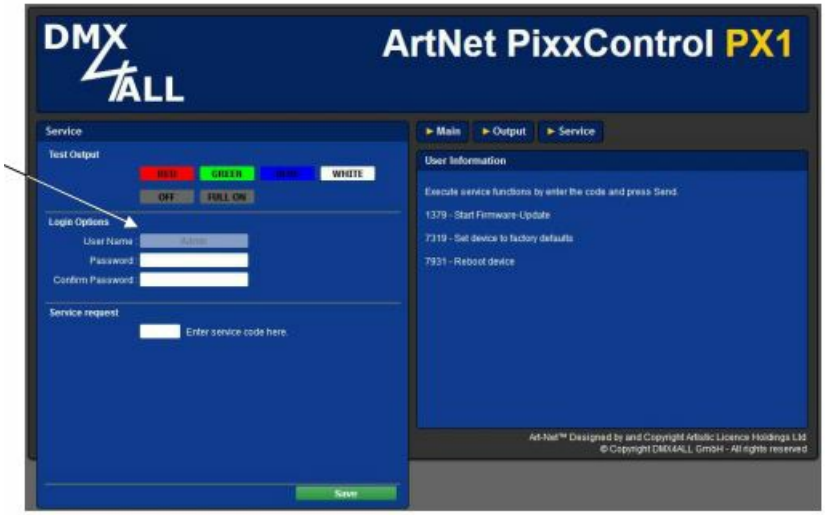
Universe Pixel

1. 1-85
2. 86-170
3. 171-255
4. 256-340

5. 341-425
6. 426-510
7. 511-595
8. 596-680

Check connected LEDs

- The ArtNet PixxControl PX1 provides a test output function, to check the connected LEDs easily.
- On the web-interface page under Service the function Test Output with RED,
- GREEN, BLUE, WHITE, OFF and FULL ON buttons is available.
- By clicking the button, the LEDs on this output are controlled in the corresponding color.



- For the Test Output no control signal is to send to the ArtNet PixxControl PX1!
- An external control signal always has priority over a test output.

RDM

- RDM is the short form for Remote Device Management.
- The ArtNet PixxControl PX1 provides the RDM functionality via the ArtNet interface.
- Device information and settings can be read or set.
- A direct access to the device is not necessary.

This device supports the following RDM commands:

Parameter ID	Discovery Command	SET Command	GET Command	ANSI/ PID
DISC_UNIQUE_BRANCH	✓			E1.20
DISC_MUTE	✓			E1.20
DISC_UN_MUTE	✓			E1.20
DEVICE_INFO			✓	E1.20
SUPPORTED_PARAMETERS			✓	E1.20
PARAMETER_DESCRIPTION			✓	E1.20
SOFTWARE_VERSION_LABEL			✓	E1.20
DMX_START_ADDRESS		✓	✓	E1.20
DEVICE_LABEL		✓	✓	E1.20
MANUFACTURER_LABEL			✓	E1.20
DEVICE_MODEL_DESCRIPTION			✓	E1.20
IDENTIFY_DEVICE		✓	✓	E1.20
FACTORY_DEFAULTS		✓	✓	E1.20
DMX_PERSONALITY		✓	✓	E1.20
DMX_PERSONALITY_DESCRIPTION		✓	✓	E1.20
DISPLAY_LEVEL		✓	✓	E1.20

Parameter ID	Discovery Command	SET Command	GET Command	ANSI/ PID
SERIAL_NUMBER[1)]			✓	PID: 0xD400
PIXEL_TYPE[1)]		✓	✓	PID: 0xD410
GROUP_SIZE[1)]		✓	✓	PID: 0xD412
COLOR_SEQUENCE[1)]		✓	✓	PID: 0xD413

- Manufacturer depending RDM control commands (MSC – Manufacturer Specific Type)
- Manufacturer depending RDM control commands:

SERIAL_NUMBER

- **PID:** 0xD400
- **Outputs** a text description (ASCII-Text) of the device serial number.
- **GET Send:** PDL=0
- **Receive:** PDL=21 (21 Byte ASCII-Text)
- **PIXEL_TYPE**
- **PID:** 0xD410
- **Sets the used LED-Pixel-Type.**
- **GET Send:** PDL=0
- **Receive:** PDL=1 (1 Byte PIXEL_TYPE_ID)
- **SET Send:** PDL=1 (1 Byte PIXEL_TYPE_ID)
- **Receive:** PDL=0

PIXEL_TYPE_ID Function

1. DycoLED PB3
2. TM1804
3. WS2801
4. WS2811
5. LPD8806
6. UCS1903 / UCS1912
7. APA-102
8. TM1812

9. LPD1886 8Bit
10. LPD1886 12Bit (8bit controlled)
11. WS2812
12. TM1829 High Speed
13. UCS9812 (8bit controlled)
14. UCS9812 (16bit controlled)
15. LPD6803
16. INK1002
17. INK1003
18. UCS2903 / UCS2912
19. LPD1886 12Bit (12bit controlled)
20. SK6812
21. APA-104
22. DycoLED PC5
23. TM1829 Low Speed
24. TM1814
25. SK9822
26. APA-101
27. TLS3001 8Bit
28. SK6822
29. GS8208
30. WS2815
31. WS2818
32. LC8808(B)

GROUP_SIZE

- **PID:** 0xD412
- Sets the size of the pixel group.
- **GET Send:** PDL=0
- **Receive:** PDL=1 (1 Byte pixel group size)
- **SET Send:** PDL=1 (1 Byte pixel group size)
- **Receive:** PDL=0

Parameter Function

- 1-127 pixel group size
- 254 All

COLOR_SEQUENCE

- **PID:** 0xD413
- **Sets** the used color sequence.
- **GET Send:** PDL=0

- **Receive:** PDL=1 (1 Byte COLOR_SEQUENCE_ID)
- **SET Send:** PDL=1 (1 Byte COLOR_SEQUENCE_ID)
- **Receive:** PDL=0
- **COLOR_SEQUENCE_ID** Function 0 R-G-B

1. R-B-G
2. G-R-B
3. G-B-R
4. B-R-G
5. B-G-R
6. WHITE Single color
7. RED Single color
8. GREEN Single color
9. BLUE Single color
10. RGBW
11. RGBRGBRGBWWW

DMX4ALL-Command Interface

- The ArtNet PixxControl PX1 has a further communication interface, using DMX4ALL-Commands.
- Please take a look in the separate DMX4ALL Command description for the possible DMX4ALL-Commands.
- The settings are to be made in the Main Settings under DMX4ALL Command Options.
- Under Protocol please select the TCP or UDP Furthermore, the Port must be specified:

- To control the interface directly via a UDP/TCP connection, use the IP address set in the web browser and use the port set (default setting 10001).
- The sent and received data are RAW data packages.

Factory Reset

- To reset the ArtNet PixxControl PX1 to the delivery state, proceed as follows:
- To get the delivery status via web browser please proceed as follows:
- Open service site in web browser
- Enter the service code „7319“ into input field
- Click Save
- Wait at least 10 seconds
- If a factory reset is performed via the web page, the IP address and subnet mask will be also reset.
- It is not always possible to return. The IP must be reset if necessary.
- To get the delivery status via DMX4ALL LAN-Updater:
- Turn on the device
- Start software DMX4ALL LAN-Updater

- Click FIND
- Chose device ArtNet PixxControl PX1 from list
- Click FACTORY RESET
- The reset is now executed

To get the delivery status via DMX4ALL IP-Configurator:

- Turn on the device
- Start software DMX4ALL IP-Configurator
- Click FIND
- Chose device ArtNet PixxControl PX1 from list
- Click FACTORY RESET
- The reset is now executed

Firmware-Update

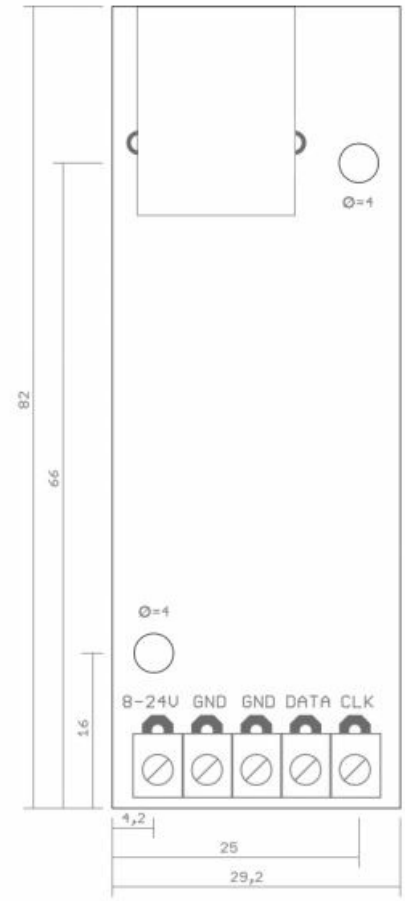
- The ArtNet PixxControl PX1 has an update function which allows to transfer further firmware versions.

Proceed as follows:

- Start the update software DMX4ALL LAN-Updater
- Click FIND, if device is not shown in the list
- Chose ArtNet PixxControl PX1 from list
- Click Firmware-Update
- Chose and confirm firmware file (.bin)
- Wait, until the update is completed
- If an error occurs during the update, a firmware update can be started again after turning on (alternative 1).
- **Alternative 1:** Firmware Update after power-on (in case of firmware):
- Turn off device
- Start update software DMX4ALL LAN-Updater
- Generate network connection
- Turn-on device
- The status LED lights for ca. 3 seconds blue
- During the status LED lights blue click FIND
- Chose ArtNet PixxControl PX1 from list
- Click Firmware-Update
- Chose and confirm firmware file (.bin)
- Wait, until the update has finished
- **Alternative 2:** Activate firmware update via web browser:
- Open service site on web browser
- Enter the service code „1379“ into input field and
- Click Save
- Start the update software DMX4ALL LAN-Updater
- Chose ArtNet PixxControl PX1 from list

- Click Firmware-Update
- Chose and confirm firmware file (.bin)
- Wait, until the update has finished
- Click Back in web browser

Dimension



All Details in mm

Accessories

- Top hat rail mounting 350

- Top hat rail mounting 350flat

- Wall bracket for top hat rail housing

Power supply 12V

CE-Conformity

- This assembly (board) is controlled by a microprocessor and uses high frequency. In order to maintain the properties of the module with regard to CE conformity, installation into a closed metal housing in accordance with the EMC directive 2014/30/EU is necessary.

Disposal

- Electronical and electronic products must not be disposed in domestic waste. Dispose the product at the end of its service life in accordance with applicable legal regulations. Information on this can be obtained from your local waste disposal company.

Warning

- This device is no toy. Keep out of the reach of children.
- Parents are liable for consequential damages caused by nonobservance for their children.

Risk-Notes

- You purchased a technical product. Conformable to the best available technology the following risks should not excluded:

Failure risk:

- The device can drop out partially or completely at any time without warning. To reduce the probability of a failure a redundant system structure is necessary.

Initiation risk:

- For the installation of the board, the board must be connected and adjusted to foreign components according to the device paperwork. This work can only be done by qualified personnel, which read the full device paperwork and understand it.

Operating risk:

- The Change or the operation under special conditions of the installed systems/components could as well as hidden defects cause to breakdown within the running time.

Misusage risk:

- Any nonstandard use could cause incalculable risks and is not allowed.
- **Warning:** It is not allowed to use the device in an operation, where the safety of persons depend on this device.
- DMX4ALL GmbH
- Reiterweg 2A
- D-44869 Bochum
- Germany
- **Last changes:** 16.02.2023
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- All information contained in this manual was arranged with largest care and after best knowledge. Nevertheless, errors are to be excluded not completely. For this reason, I see myself compelled to point out that I can take over neither a warranty nor the legal responsibility or any adhesion for consequences, which decrease/go back to incorrect data. This document does not contain assured characteristics. The guidance and the characteristics can be changed at any time and without previous announcement.

WWW.DMX4ALL.DE

Documents / Resources

	DMX4ALL PX1 ArtNet PixxControl Interface Pixel LED Controller Dimmer [pdf] User Manual PX1 ArtNet PixxControl Interface Pixel LED Controller Dimmer, PX1 ArtNet, PixxControl Interface Pixel LED Controller Dimmer, LED Controller Dimmer, Controller Dimmer, Dimmer

References

- DMX4ALL GmbH - DMX & LED-Technik Made in Germany