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1 Introduction

This document details the configuration required for the TX10 Touch Trigger to operate with the PX24 or MX96PRO when triggering stored scenes saved to the SD Card, or with LED CTRL (via a DMX converter) to initiate any event.

There is no configuration possible in the TX10 unit itself, rather the configuration is performed in the PX/MX or LED CTRL software to react as required to the triggers.

This guide will step through every aspect of the web management Interface for PX24 and MX96PRO devices. Other resources, including device-specific user manuals, and latest firmware can be downloaded from here: www.ledctrl.sg/downloads

1.1 The TX10 Overview

The TX10 Touch Trigger is a simple device with 8 scene buttons, a dimmer slider and an ON/OFF button.

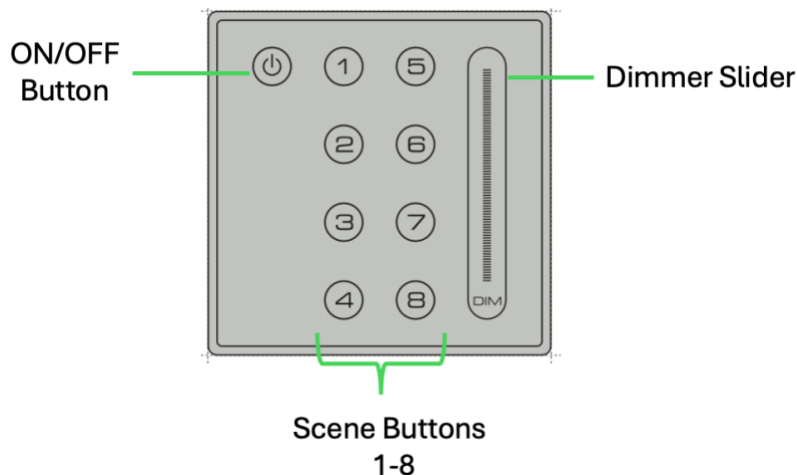
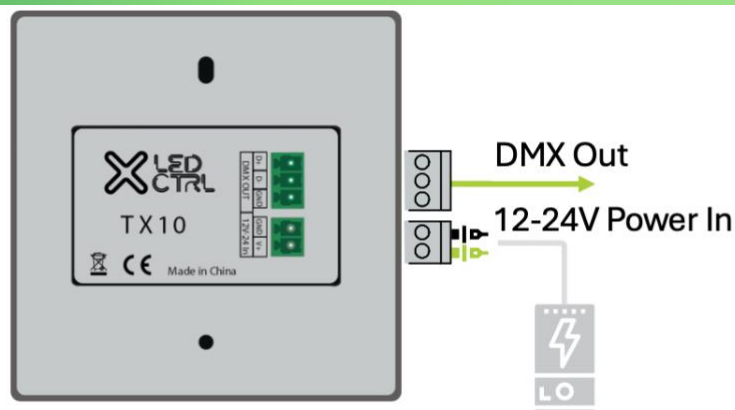


Figure 1 – The TX10 Front View

1.2 The TX10 Connection Information

The TX10 should be connected to a 12-24V DC Power source, with the TX10 DMX Output connected to the DMX input of the device to be triggered:

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Pin Out detail

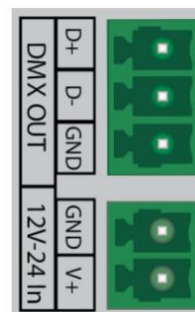


Figure 2 – The TX10 Wiring Information

1.3 The TX10 DMX Channel Assignments

The TX10 Touch Trigger has the following channels configured that cannot be changed:

Button	On	Off
ON/OFF	Stops any DMX triggers from being sent	Allows DMX triggers to be sent
1	CH 1 = 255	CH 1 = 0
2	CH 2 = 255	CH 2 = 0
3	CH 3 = 255	CH 3 = 0
4	CH 4 = 255	CH 4 = 0
5	CH 5 = 255	CH 5 = 0
6	CH 6 = 255	CH 6 = 0
7	CH 7 = 255	CH 7 = 0
8	CH 8 = 255	CH 8 = 0
DIM	Sends a value between 0 to 255 depending on slider position	

1.4 The TX10 Mounting

The TX10 is designed to be installed in a standard single gang light switch back box. The mounting holes are 60.33mm centre to centre, top and bottom.

2 Configuring a PX24 or MX96PRO to receive triggers

When using a PX or MX device with an SD card installed (for use without LED CTRL head end control) there are PX/MX Configuration files to help get you started. The stored configuration files can be downloaded from the Downloads area of the LED CTRL website: <https://ledctrl.sg/downloads/>

These configuration files provide placeholders for scenes assigned to Buttons 1-8, with triggers already configured to trigger the corresponding scene when each button is pressed, and the dimmer slider configured to dynamically control the output intensity.

This configuration guide should be read in conjunction with the LED CTRL User Documentation (available here: <https://ledctrl-user-guide.document360.io/>) and the LED CTRL PX24_MXPRO Configuration Guide which provides details on several of the steps in this document.

2.1 Prepare for set-up

Step 1: Ensure you have a suitable microSD card installed in the SD card slot on the PX/MX device.

The configuration files will set the PX/MX device ID to IP 2.0.40.10 and subnet 255.255.255.0, therefore it is easiest if you initially configure your controlling computer and the PX/MX device into the 2.0.40.x network as follows:

Device	Static IP Address	Subnet
Controlling computer	2.0.40.1	255.255.255.0
PX or MX device	2.0.40.2	255.255.255.0

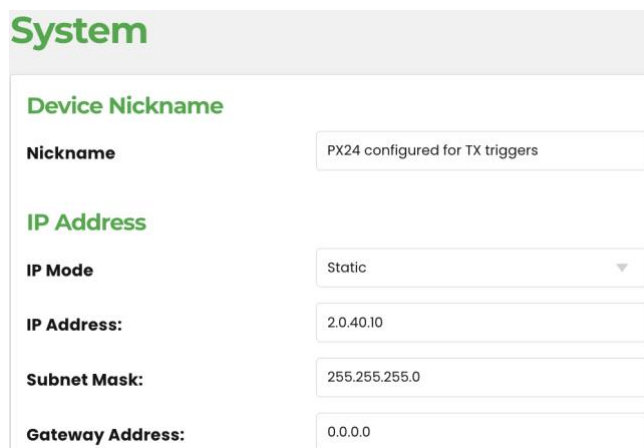
Step 2: Download the appropriate config file from the Downloads area of the LED CTRL website (available here: <https://ledctrl.sg/downloads/>).

Step 3: Upload the config file to your PX/MX device via the Maintenance screen in the Web Management Interface.

2.2 Pre-Configured PX/MX settings

The pre-configured settings for the PX/MX device as saved in the configuration file available for upload are detailed here.

System Settings:

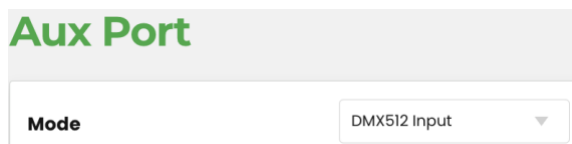


The 'System' settings form includes a 'Device Nickname' section with a text input field containing 'PX24 configured for TX triggers'. Below this is an 'IP Address' section with a dropdown menu set to 'Static', and four text input fields for 'IP Address:' (2.0.40.10), 'Subnet Mask:' (255.255.255.0), and 'Gateway Address:' (0.0.0.0).

Figure 3 – Pre-configured System Settings

Aux Port

Aux port is configured for DMX input

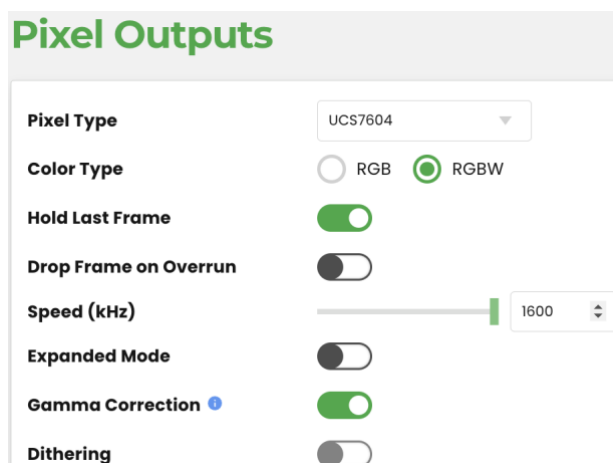


The 'Aux Port' settings form features a 'Mode' dropdown menu currently set to 'DMX512 Input'.

Figure 4 – Pre-configured Aux Port Settings

Pixel Outputs

Configured for UCS7604 RGBW in non-expanded mode:



The 'Pixel Outputs' settings form includes a 'Pixel Type' dropdown set to 'UCS7604'. Under 'Color Type', the 'RGBW' radio button is selected. The 'Hold Last Frame' toggle is turned on. The 'Drop Frame on Overrun' toggle is turned off. The 'Speed (kHz)' is set to 1600 via a slider and input field. The 'Expanded Mode' toggle is turned off. The 'Gamma Correction' toggle is turned on. The 'Dithering' toggle is turned off.

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Figure 5 – Pre-configured Pixel Output Settings

Additionally on the Pixel Outputs page – the Live Intensity is configured to listen to channel 9 on the AUX port – which is mapped to the Dimmer button on the TX10.

Live Intensity ⓘ

Source: DMX512 (Aux Port) ▼

Universe ⓘ: 1 ▼

Channel: 9 ▼

Figure 6 – Pre-configured Live Intensity Settings

Pixel Data

Each output port is configured with many pixels assigned:

Pixel Data

Data Source: Art-Net ▼

Input Data Resolution ⓘ: 8 Bit ▼

Split Pixels Across Universes: ☐

Auto Patch: ☐

Show More Details: ☐

☒ Tab Right ☐ Tab Down

Pixels 100%
Used: 3,060
Remaining: 12

Input Universes 100%
Used: 24
Remaining: 0

Pixel Output	Start Universe ⓘ	Start Channel	Pixels	Null Pixels	Zig Zag	Group	Intensity Scale (%)	Reversed	RGB(W) Order
1 Output 1	0	1	765	0	1	1	100	☐	RGBW ▼
2 Output 2	6	1	765	0	1	1	100	☐	RGBW ▼
3 Output 3	12	1	765	0	1	1	100	☐	RGBW ▼
4 Output 4	18	1	765	0	1	1	100	☐	RGBW ▼

Figure 7 – Pre-configured Pixel Data Settings



Scenes

A placeholder scene for each button and an OFF effect are pre-configured:

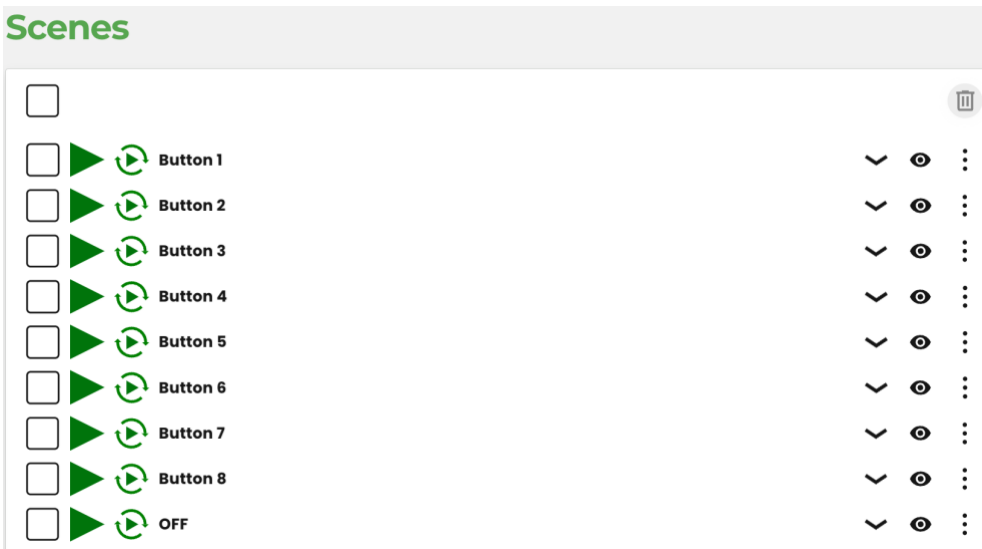


Figure 8 – Pre-configured Scenes for each Button

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Triggers

An On and Off trigger for each Button is pre-configured:

Triggers

1			Button 1 ON			
2			Button 1 OFF			
3			Button 2 ON			
4			Button 2 OFF			
5			Button 3 ON			
6			Button 3 OFF			
7			Button 4 ON			
8			Button 4 OFF			
9			Button 5 ON			
10			Button 5 OFF			
11			Button 6 ON			
12			Button 6 OFF			
13			Button 7 ON			
14			Button 7 OFF			
15			Button 8 ON			
16			Button 8 OFF			

Figure 9 – Pre-configured Triggers for Each Button

And each trigger is configured similarly as follows to trigger the correlating scene when the channel is full (button pressed), and to turn off the effect when the channel is set to 0 (button released). Note the OFF effect includes a 1 second fade out:

Triggers

⊕   

1   Button 1 ON 🔴 ^ ⋮

Event

Type Trigger Source Pattern

Source 1: TX10

Channel 1

Equals 255

Action

Type Play a Scene

Scene Button 1

Play Forever

Fade Duration 0 : 0 : 0
mins : secs . msec

Figure 10 – Example Button ON Settings

2   Button 1 OFF 🔴 ^ ⋮

Event

Type Trigger Source Pattern

Source 1: TX10

Channel 1

Equals 0

Action

Type Play a Scene

Scene OFF

Play Forever

Fade Duration 0 : 1 : 0
mins : secs . msec

Figure 11 – Example Button OFF Settings

2.3 Amend settings as required

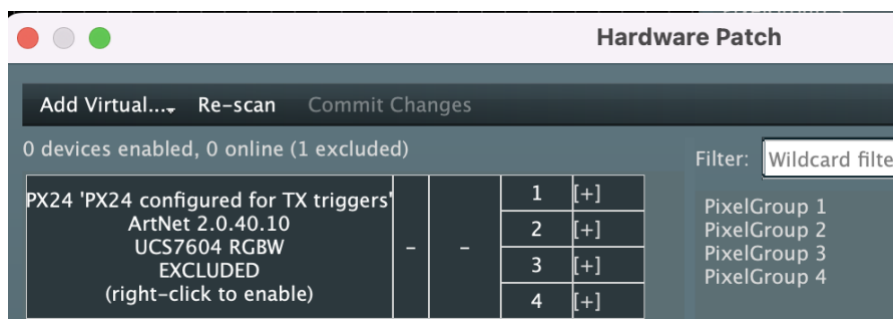
Consider if you need to make any adjustments to the pre-configured values as detailed above, typical adjustments that may need to be made are to the following:

Screen	Parameter	Default	Off
Pixel Outputs	Pixel Type	UCS7604	Set to your chipset
Pixel Outputs	Expanded Mode	Non-Expanded	Change to Expanded if using more than 4 ports on the device
Pixel Data	Pixels	765	Set to match the number of pixels on each port of your installation

Apply and save any changes using the buttons at the bottom of each page in the Web Management Interface.

2.4 Open LED CTRL

Once you have configured the LEDs appropriate for your installation, it's time to In the LEDs-> Hardware Window you should be able to see the device (Re-scan if necessary):



Right Click-> Enable to enable the device in the showfile

If a pop up stating that the device has change appears – select 'Preserve All' which will ensure that the values saved in the step above are retained.