

Lights in Touchdesigner

You can control your fixtures straight from Touchdesigner, using an Enttec or over ArtNet

- [Controlling Lights from Touchdesigner](#)
- [Controlling Ledstrips with WLED \(from Touchdesigner\)](#)

Controlling Lights from Touchdesigner

In Touchdesigner DMX data is sent to the daisy-chain of fixtures through USB (via an ENTTEC available at the uitleen) or ArtNet.





<https://www.youtube.com/embed/byyrxDm8sVc>



Sometimes, the DMX Out in TD won't work. Solution: adding dummy channels to the universe, so all 512 get 'a signal'




[This tox](#) should work. Choose Serial/Artnet (then also set artnet adres, preset = Blackbox JK)

In Touchdesigner you can create 'presets' called Toxes. You can save these on your computer for easy acces:

DMX Config	TOX	Example fixtures
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<p>5 channels: Intensity Red Green Blue Strobe</p> <p>6 channels Intensity Strobe Red Green Blue Lime</p>	<p>ETC Colorsource_Par.tox</p> <p>ETC Colorsource_Junior_6ch.tox</p>	<p>ETC ColorSource Spot jr (inventory Blackboxes & klein Zaal)</p>  <p>ETC ColorSource Par (inventory Blackboxes)</p> <p>ColorSource Spot Deep Blue (inventory Kleine Zaal)</p>  
<p>6 channels: Red Green Blue White Amber Uv</p>	<p>6CH_Par_RGBWAU.tox</p>	<p>High End PAR uitleen Theater :</p>  <p>type & DMX traits: Elation SIXPAR 100 >></p> <p>Mid Range PAR uitleen Theater type & DMX traits: 5PXHEX</p>

<p>6 channels: Red Green Blue White Intensity Prog</p>	<p>6CH_Eurolite_RGBWIP.tox</p>	<p>Eurolite Basic PAR uitleen theater</p>  <p>manual & dmx traits : Eurolite</p>
<p>7 channels: Red Green Blue White Amber Uv Master Dimmer</p>	<p>7CH_Par_RGBWAUI.tox</p>	<p>High End PAR uitleen Theater : type & DMX traits: Elation SIXPAR 100</p>  <p>Mid Range PAR uitleen Theater type & DMX traits: 5PXHEX >></p>

<p>14 channels (see Briteq manual)</p>	<p>Moving Head Briteq BT_W19L10ZOO M_14ch.tox</p> <p>Moving Head Ayra_ero406.tox</p>	  <p>Briteq BT-W19L10 Zoom (uitleen Oudenoord)</p> <p>WASH, type & DMX traits BT-W19L10</p> <p>Ayra Ero406 WASH (not in HKU but cheap at BaxShop)</p>
<p>16 channels</p>	<p>MH Varytec 340FX_16ch.tox (visualizer under construction!)</p>	 <p>https://www.manualslib.com/manual/2561032/Varytec-Hero-Wash-340fx-Rgbw-Zoom.html</p>

Example patch how to use tox files:

[licht TD.toe](#)

Easy DMX_Out for Artnet (use a merge to connect multiple fixtures, dive in & adjust de DMX out to use another interface)

[dmx_out_Artnet.tox](#)

Patch for the Blackbox @ Janskerkhof (to connect with OSC via ipad)

Check out the [WLED](#) page to connect TD to LEDstrips

Controlling Ledstrips with WLED (from Touchdesigner)



WLED is one of the most popular packages for controlling LED strips with, for example, the WS2812B through cable & wifi.

The software also supports some other types, such as the WS2811 and WS2815, both on 12 volts. The first step is to flash the software on, for example, an ESP32.

The ULTIMATE WLED Beginners Guide!

<https://www.youtube.com/embed/exAWzMfmwQ8>

Resources

website: <https://kno.wled.ge/>

community: <https://wled.discourse.group/>

A tool to stream video to WLED matrix displays: <https://github.com/fieldOfView/WLED-video> :

A Python application to stream videos, images, and animations directly to your WLED-powered LED video wall: <https://github.com/BradyMeighan/WLED-Studio> :

WLED & Touchdesigner:

https://www.youtube.com/embed/R3U0_gic4fE

Another instruction for connecting a WLED controller and TouchDesigner

The following instruction below will walk you through the steps to connect TouchDesigner with a WLED LEDstrip controller.

WLED installation: <https://wled-install.github.io/>

For the tinytronics Universal Digital LEDstrip Controller V1.1:

Board type / software version:

ESP32-S3 (4MB Flash, with Audio reactive Usermod)

(Connect the controller to USB-C while holding down the 'Boot' button. Otherwise, it won't enter update mode and the WLED installation won't be able to upload.)

After installation, manually use the RST button to reset.

WLED-AP (AP = Access Point) will appear under Wi-Fi networks. The default password is wled1234.

The WLED console will open automatically. You can change the settings here to your local AP. (for example the workshop is in the 10.0.1.xx range, so it's useful to set a fixed IP to, for example, 10.0.1.99.)

Continuing to use the dedicated AP mode directly also works, of course.

TouchDesigner, DMX Out CHOP Interface on sACN, in the network tab Multicast Off and set the IP address of the WLED controller.

DMX Out dmxout1



DMX Network Common

Active On

Interface sACN

KiNET Version DmxOut (v1)

Format Packet Per Sample

Routing Table dmxout1_routingtable

Send ArtSync Off

Device *

Serial Port

Rate 60

Net (0-127) 0

Subnet (0-15) 0

Universe 1

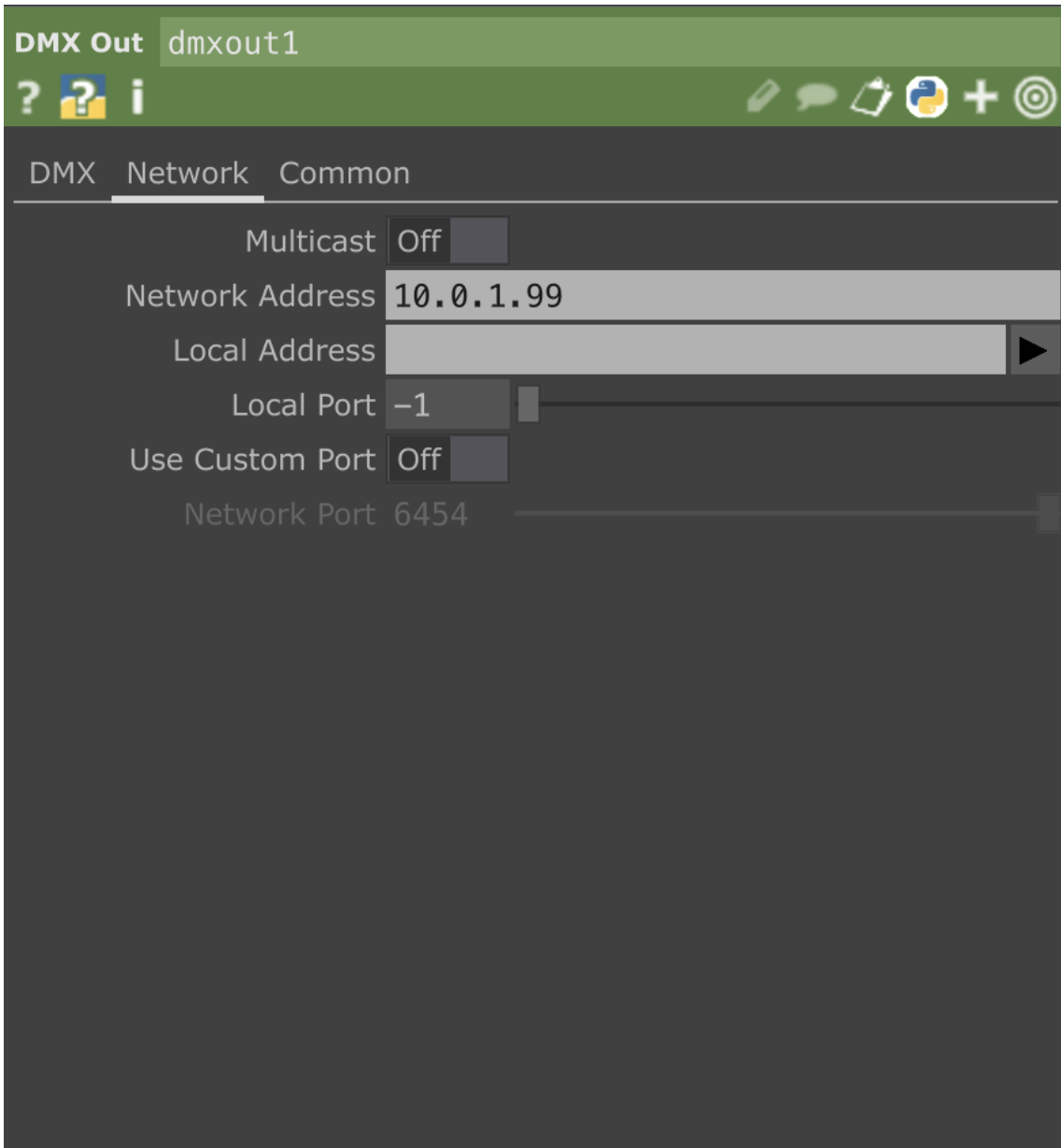
CID TouchDesigner

Source TouchDesigner

Priority 100

Custom KiNET Port On

KiNET Port 1



Here's a preset for Touchdesigner [WLED.tox](https://www.wled.tox)