GROUNDBREAKING INNOVATIONS FOR DYNAMIC LIGHTING

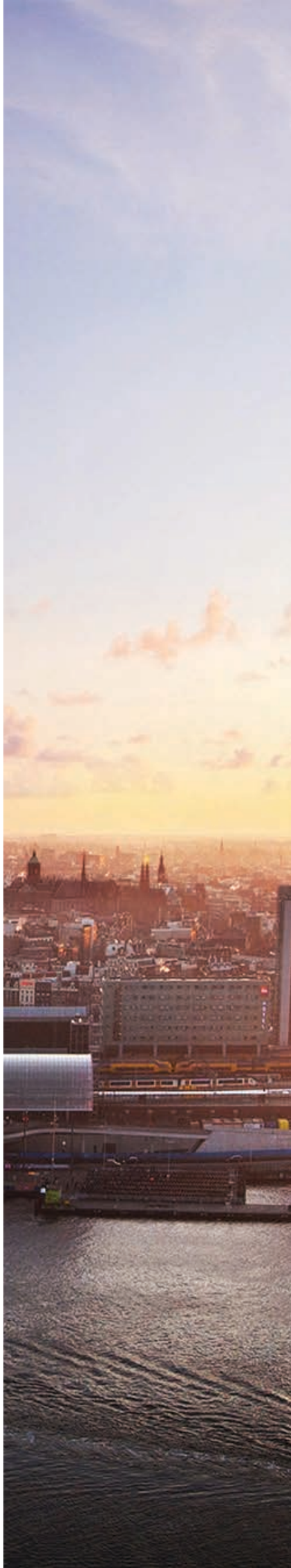
DiGidot

PIXEL • LIGHT • SHOW CONTROL

LIGHTING CONTROL SHOULD BE EASY IN ANY KIND OF WAY

The complexity of a lighting installation may never be a limitation for its feasibility. That is where the idea for DiGidots products come from; everything should be possible with the smallest number of parts and the littlest effort.

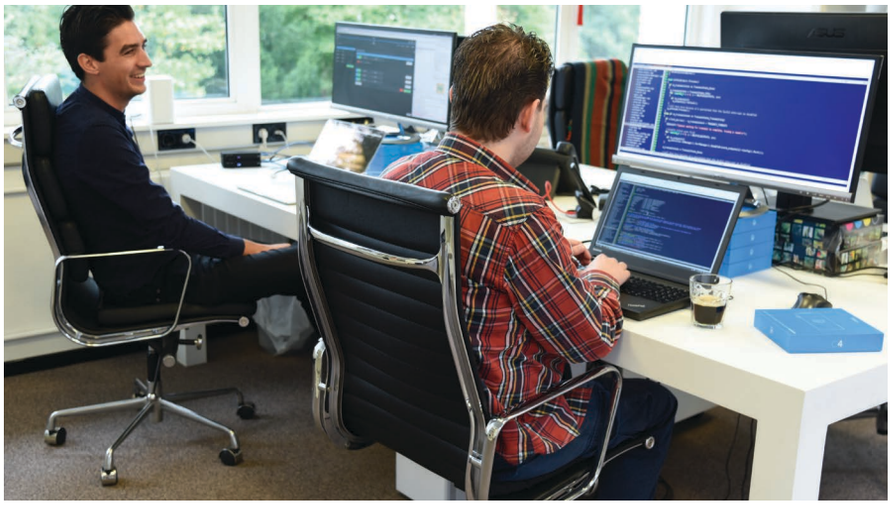
A burden of proof for that idea is an imposing project DiGidot took part in. Every large and noteworthy city in the world has one; a lookout on top of an impressive tower. In 2016, Amsterdam revealed its own; the A'DAM Tower. To control the almost countless number of LEDs in the different venues of this tower, a relatively small number of DiGidot C4 controllers was needed. Get to know DiGidot and you'll find out: You don't need much, to achieve a lot in digital lighting.



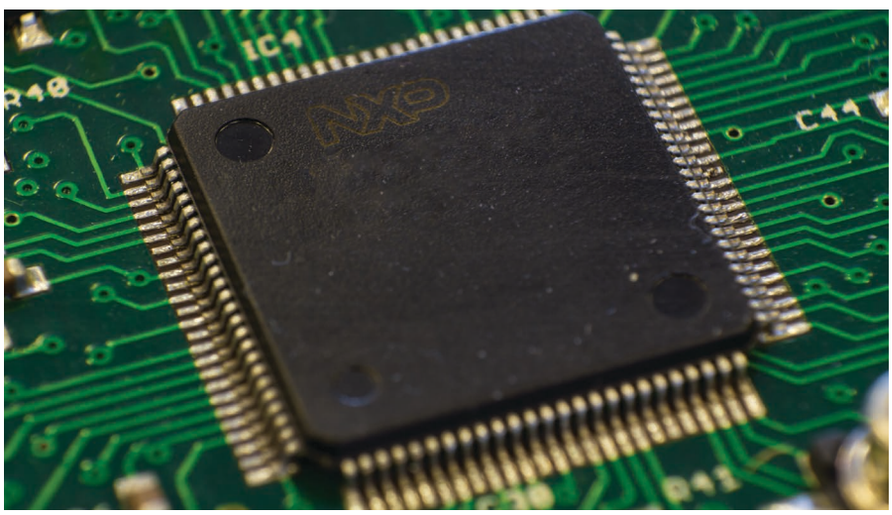
CGI- Cees van Giessen

WHY NOT HAVE ONE DEVICE THAT CONTAINS ALL THE OPTIONS

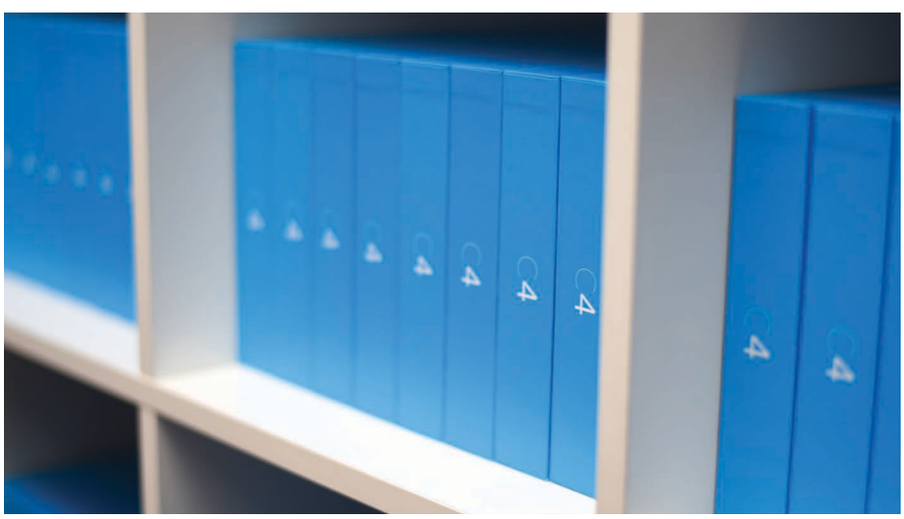
That is the question it all started with! DiGidot is a sister company of InventDesign and was founded in 2015. InventDesign, specialist in creative LED lighting, has a rich history when it comes to LED solutions, especially in the control of tiny lights. At the end of 2013, InventDesign started pioneering on an in-house developed Art-Net LED driver. This led to a groundbreaking innovation, completely developed in Amsterdam by Dutch engineers. They were there, in the field, getting their hands dirty to find the most ideal base for all future lighting control requests.



An Art-Net controller, fully developed and designed by Dutch engineers in the Netherlands. DiGidot stands for genuine, fair and transparent development, based on both field experience and in-depth knowledge of the markets demands. That is why the company has a promising future ahead.



DiGidots developments result in high-end technologies for many purposes in the digital lighting industry. Such high-end outcomes can only be achieved by using state of the art and durable materials.



DiGidot stands for perfection into every little detail. Not only in how the products are developed and produced, but also the way they are presented.


analog
microSD
DIGIdot C4

GROUNDBREAKING INNOVATION FOR LIGHTING INDUSTRY

In 2013, the development of an Art-Net device was started. Days and nights passed, but the results are impressive! One device with great features for the lighting industry; a bridge to integrate your lighting with any other system, a pixel-controller, an Art-Net node, a show recorder and a trigger device, all in one.

The driver has four outputs for which you choose the protocol that suits your installation best. Whether it's an LED pixel working with one of the many addressable LED drivers, PWM signal or the well-known DMX protocol, the DiGidot C4 covers it all! At maximum load, the DiGidot C4 drives 1536 channels on each of the 4 outputs, at a speed of 60 frames per second. After a long testing period with over 1000 devices in several installations, we now confidently say; the DiGidot C4 has enormous potential and is ready to conquer the market!

CAN I...

control over 30 addressable LED drivers?	YES!
control up to 6144 (12x512) individual lights?	YES!
record and play scenes?	YES!
trigger over UDP, HTTP-GET, Art-Net, DMX, through on-board switch, on power up, by clock timing or with contact closure?	YES!
trigger scenes through a smartphone or tablet	YES!
use Art-Net Sync?	YES!
merge Art-Net inputs?	YES!
filter Art-Net IP addresses?	YES!
get a license upgrade?	YES!
repeat and combine channels?	YES!
use this device without installing configuration software?	YES!
use build-in WiFi to configure the device?	YES!
update the firmware easily?	YES!

APPLICATIONS ARE EVERYWHERE

ENDLESS POSSIBILITIES

DiGidot C4 EXTENDED

The goal is to work with worlds most common protocols. Both Art-Net and DMX can be used as input and output protocols on the DiGidot C4. Do you work with a different protocol? No worries, over 20 addressable LED drivers have been added to the DiGidot IC library; both well known as more exotic IC protocols.

Output settings
Each of the four digital outputs on the DiGidot C4 can control up to 1024 individually controllable lights in its most ideal setup. That's up to 4096 individual lights in total. You can freely change the protocol of the outputs, assign universe numbers, change the start address and change the advanced settings of each universe.
A couple of the most interesting ones:

- Adjustable color order
- Repeat channels
- Combine channels
- Multiple dimming curve options
- Art-Net IP address filtering

Merge inputs
When you're working with a setup using multiple sources of Art-Net input, the DiGidot C4 can merge the two inputs based on a HTP-merge called parallel universe. Our HTP-merge has proven itself during a live show with 200 Art-Net universes.

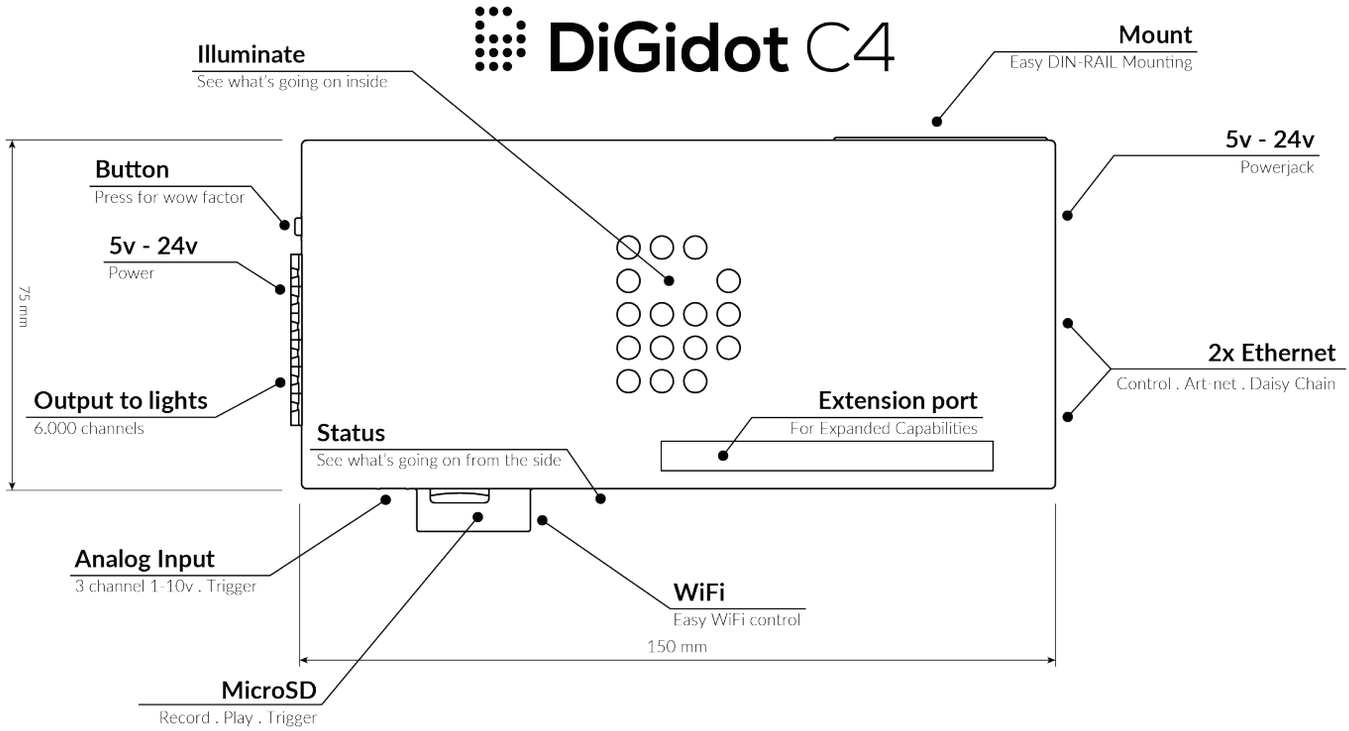
Extremely efficient infrastructure
Previously some installations required multiple Art-Net to DMX nodes and DMX to SPI decoders, where the DiGidot C4 is all of that in one. It replaces 12 Art-Net nodes and SPI decoders. So you can say; less devices, less cabling, less installation time meaning less costs. Furthermore, the DiGidot C4 comes with a build in ethernet switch, so you can daisy chain multiple DiGidot C4 devices.

Play or trigger recorded scenes
Two of the best features of the DiGidot C4 are recording and playback functions, that allow you to easily record your input and process the recording into a flawless looping scene. The DiGidot C4 comes with a 8Gb industrial graded MicroSD card to store all of your favorite scenes. You can use the trigger function, the DiGidot IOS app or the API to playback your recorded scenes.

DiGidot C4 Live

You don't always need recording, play and triggering functions in every lighting installation. The DiGidot C4 Live controller brings you the same results but without those specific features.

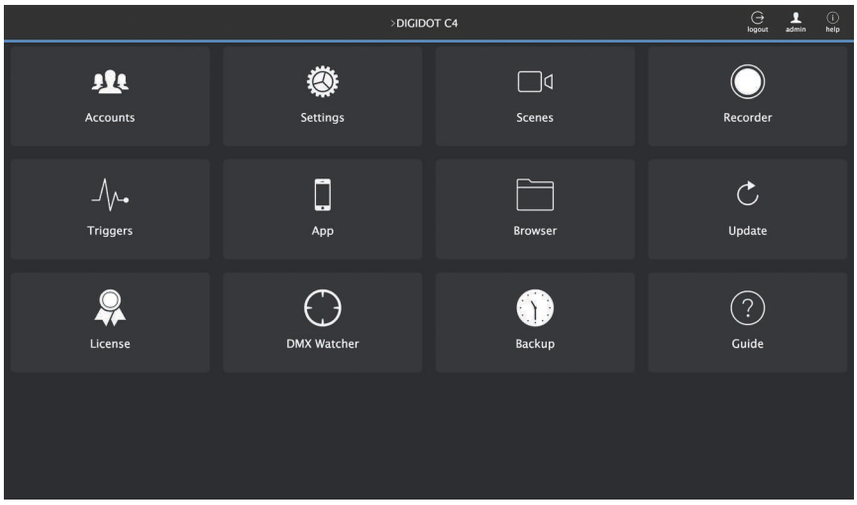
Find more information at
www.digidot.eu



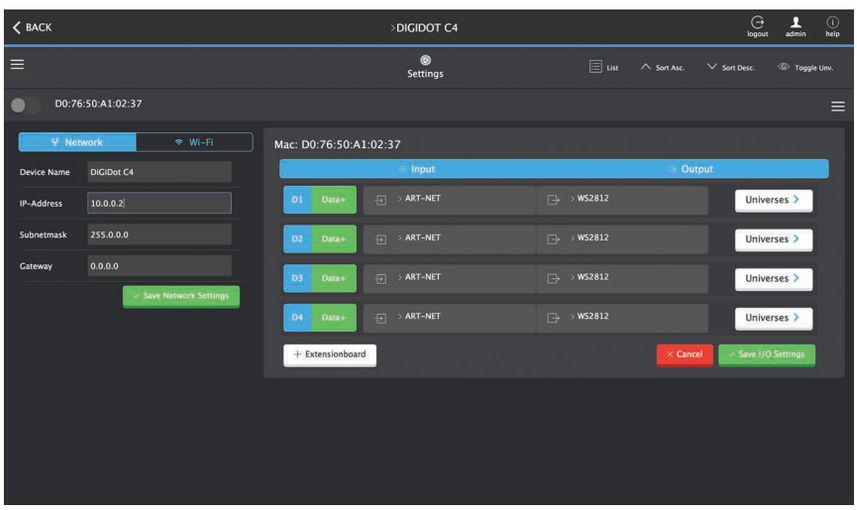
Electrical	Input voltage	5-24V DC
	Max. power consumption	5W
Mechanical	Housing	Acrylonitril-butadieen-styreen
	Dimensions	153(w) x 74(d) x 28(h) mm
	Weight	140gr
	Mounting	DIN rail or flat surface mount
Environmental	Operation temperature	0 to 50 °C / 32 to 122 °F
	Operating relative Humidity	90% indoor use only
	Warranty	2 years
Protection	Power	Reverse polarity
	Digital input / output	Overvoltage protection (max 24V)
	Analog input	Overvoltage protection (max 30V)
Control	Control	Up to 12 Art-Net Universes or 2 DMX universes
	Channels	Up to 6144 Art-Net channels or 1024 DMX channels
	Input protocols (Ethernet or WiFi)	Art-Net, DMX, DiGidot IOS app, UDP, HTTP GET
	Output protocols	DMX, DMX TTL
	Addressable LED drivers	APA102, APA106, BS0901, DM412, GW6205, INK1003, LPD6803, MY9231, SK6812, TM1803, TM1809, UCS1903, UCS1904, UCS2903, UCS2904, UCS2912, UCS8904, UCS9812, WS2801, WS2811, WS2812, WS2812B
	Output connector	Pluggable terminal block

AN INTERFACE WITH THIS MANY OPTIONS WAS NEVER THIS INTUITIVE BEFORE

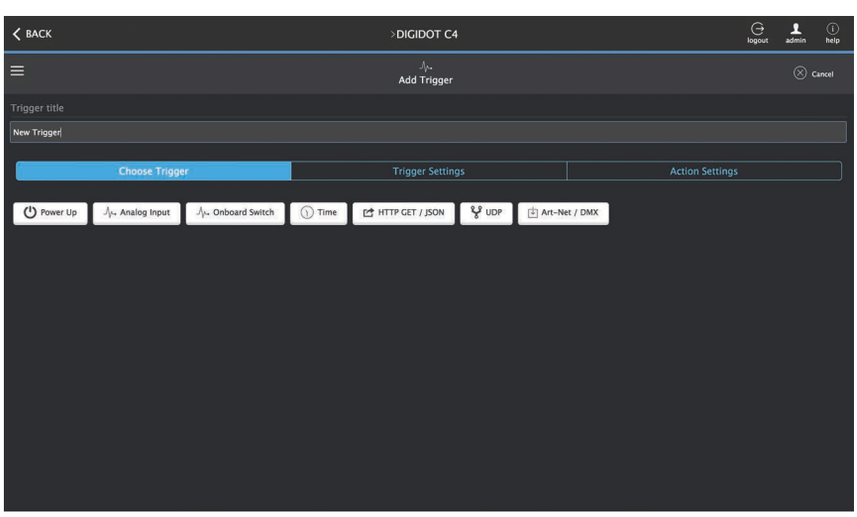
You might have noticed that DiGidot aims to make light control easy for everyone. The intuitive web-based user interface makes the setup of the device as simple as it gets. The DiGidot C4 user interface is embedded in the device, which makes downloading and installing additional software unnecessary. The responsive HTML5 interface is optimized for Google Chrome on all platforms. The user interface has a clean look and feel and clear explanations that leaves you a minimal learning curve. With DiGidot C4 Extended, trigger actions like power-up, time-based, contact-closure over analog, Art-Net input, DMX input, UDP and HTTP can be assigned on the fly.



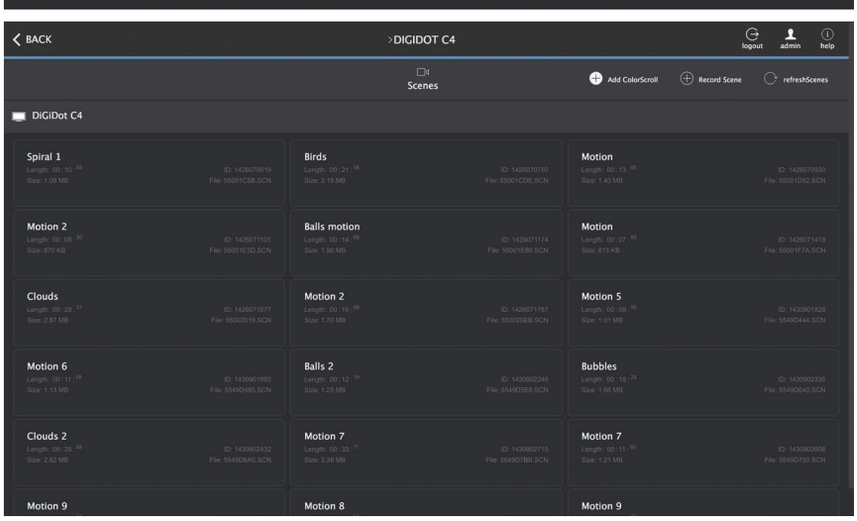
The DiGidot C4 user interface allows you to have full control over the user accounts and rights, the basic and advanced settings, scenes and recordings, updates and much more!



Use the settings page to setup all the inputs and outputs of the DiGidot C4 Extended and configure your device network settings easily.



The user can create triggers with all kinds of input for example: on power up, analog, DMX, Art-Net, HTTP GET, UDP, time, and the onboard button.

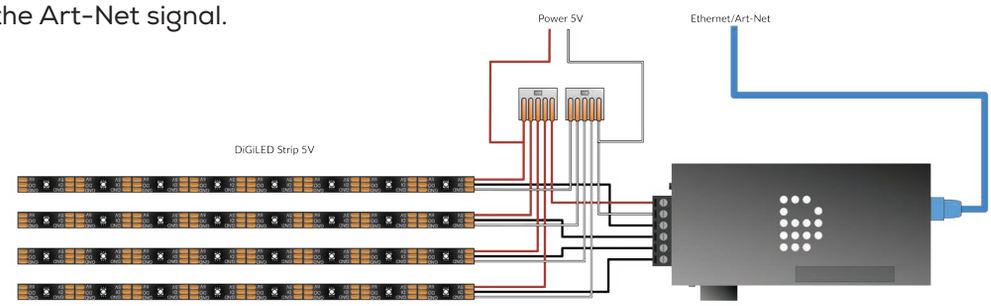


The DiGidot C4 Extended can record from Art-Net or DMX input and playback your favorite scenes. This makes the DiGidot C4 Extended a stand-alone playback device in your setup.

CONNECT

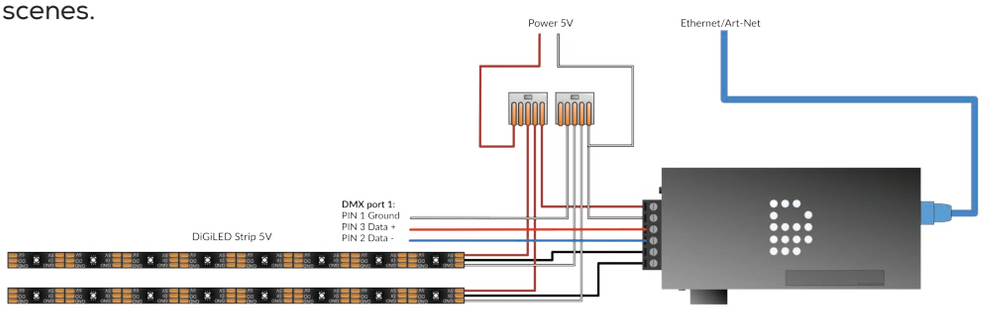
Example 1; Single wire SPI output

In this example we use four outputs, each to drive DiGidot WS2812B LED strips. Every output can drive up to 510 pixels. For the power we connect all the strips to one power supply. The power supply also powers the DiGidot C4. Make sure all ground wires are connected together. The device is connected to the ethernet, which contains the Art-Net signal.



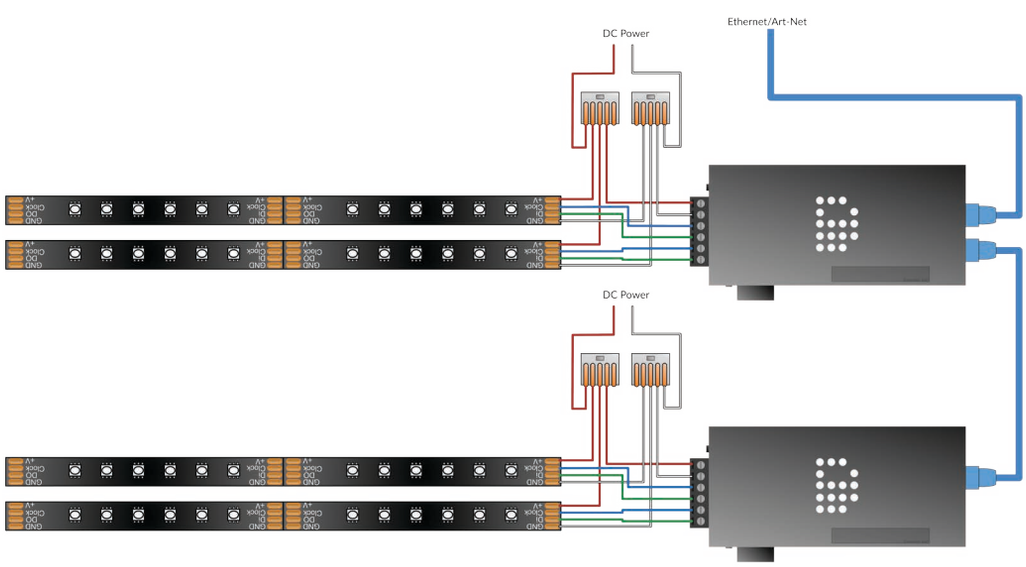
Example 2; DMX input with two single wire SPI outputs

Port 1 and 2 are used for DMX input. This can be used to control single wire SPI lights on port 3 and 4 or to trigger recorded scenes.



Example 3; Double wire SPI output

Here we see two DiGidot C4s lined up. The example shows a double wire SPI LED strip which uses a data and clock signal. For this type of signal you need two wires. In this case we use D1 and D2 for the first LED strip, D3 and D4 for the second LED strip.



PRODUCTS

DiGidot C4 Live

4 Universes / 2048 channels

8 Universes / 4096 channels

12 Universes / 6144 channels

The DiGidot C4 Live is a small but powerful LED controller, that suits all kinds of situations. One device drives more than 6000 single LEDs. Furtermore, it supports 20+ addressable LED drivers and various industry standards. This is all you need in LED and showcontrol! With the built in user interface, the DiGidot C4 is easy to setup trough a web browser.

DiGidot C4 EXTENDED

1 Universe / 512 channels

2 Universes / 1024 channels

4 Universes / 2048 channels

8 Universes / 4096 channels

The DiGidot C4 Extended combines the capabilites of the DiGidot C4 Live and adds recording and triggering functions that allow complete stand-alone running of complex lighting installations.

List of triggers:
Power Up, Analog Input, Onboard Switch, Time, HTTP GET, UDP, Art-Net/DMX.

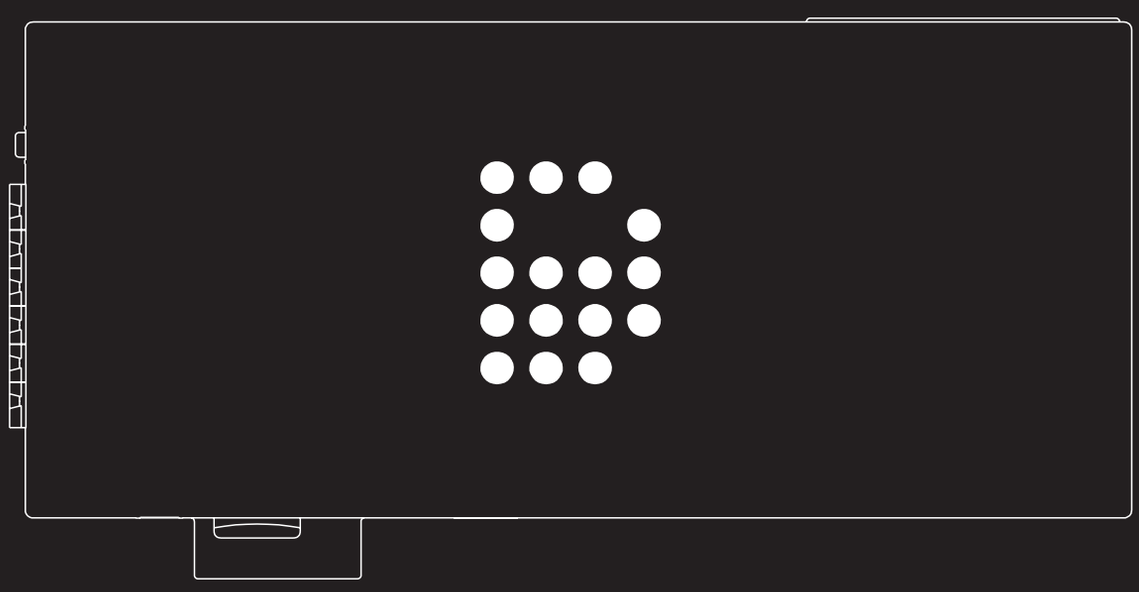
DiGidot C4 ACCESSOIRES

DiGidot PWM16
Extension board with 16x PWM output

DiGidot TX
Sending card for use with the DiGidot RX for sending data over long data

DiGidot RX
Receiving cards for use with the DiGidot TX. Receives the extended data over long data cables

Analog Jack
A TRRS jack for 3 analog triggers



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