

Date

Project

Notes

5 ZONE DMX WALL CONTROLLER

The Acolyte 5 Zone DMX Wall Controller creates lighting scenes and moods from a sleek touch-sensitive display. Program and save unique transitions, rolls and fades with ease. Choose between full spectrum color or variable color temperature control. Universal protocol DMX controllers can control any lighting fixture that supports DMX protocol.

- Manage 2 universes of 512 DMX channels
- Change color, brightness, speed and scene
- 5 6V DC input
- Touch capacitive
- Programmable with ESA2 PC/Mac software
- Up to 200 preset scenes on 5 zones
- Available in black
- Memory stored on SD card

Applications:

Commercial Entertainment Healthcare Hospitality Museums Public Spaces

Residential

Retail



DIMENSIONS





ORDERING GUIDE

STANDARD Category DMXCTRL DMXCTRL - 5 ZONE DMX CONTROLLER











EASY INSTALLATION

1. Mount an electrical box inside the wall.

The controller can be installed in any standard electrical back box. If you use a double size box, you can insert the power supply inside.





3. Mount the back side of the interface on the wall with 2 or more screws.

Then plug in the connectors:

- DMX and power (connector block or RJ45)
- · Ethernet cable (allows LAN connection)

The front panel is mounted by pressing it against the back plate and then sliding down. Two screws can then be attached underneath to prevent removal.





2. Connect the wires.

POWER: Connect a 5 - 6V DC 0.6A ACDC supply. Be sure to not invert the + and the ground.

DMX: Connect the DMX cable to the lighting receivers (LEDs, dimmers, fixtures) (for XLR: 1=ground 2=dmx- 3=dmx+)





NOTE:

- CHECK PIN CONFIGURATIONS. APPLYING POWER TO THE DMX INPUT WILL DAMAGE THE CONTROLLER
- MAKE SURE THE CONTROLLER IS MOUNTED WITHOUT TOO MUCH FORCE BEHIND AS THIS CAN PUSH APART THE GLASS

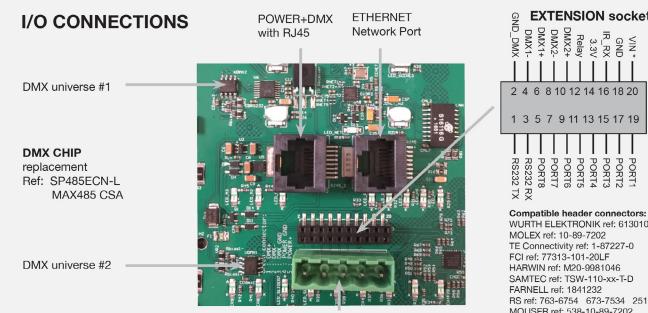
POWER+DMX

WITH THE CONNECTOR BLOCK



POWER+DMX WITH THE RJ45 CABLE





Phoenix Type Connector Block

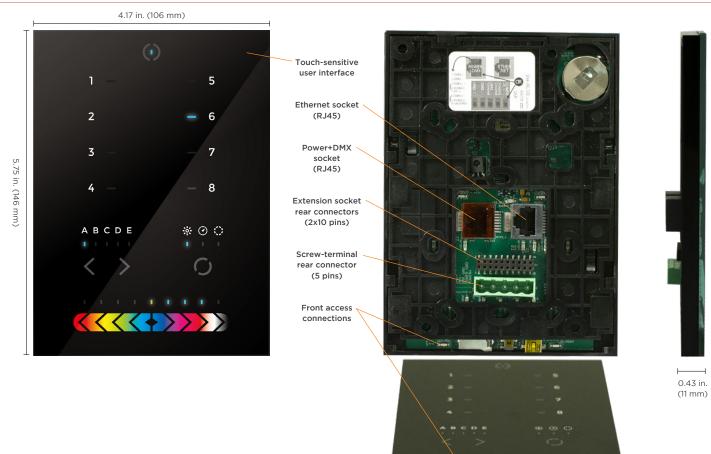
EXTENSION socket

* VIN pin 20 i not be used GNE ≤N ਤ is not protected 2 4 6 8 10 12 14 16 18 20 1 3 5 7 9 11 13 15 17 19 and I should PORT PORT2 ORT3

WURTH ELEKTRONIK ref: 61301021121 MOLEX ref: 10-89-7202 TE Connectivity ref: 1-87227-0 FCI ref: 77313-101-20LF HARWIN ref: M20-9981046 SAMTEC ref: TSW-110-xx-T-D FARNELL ref: 1841232 RS ref: 763-6754 673-7534 251-8165 MOUSER ref: 538-10-89-7202 DIGIKEY ref: WM26820-ND



CONNECTIONS



			Data LED	Mini Res USB butt		
SPECIFICATIONS / CONNECTIONS		BUILT-IN FEATURES	SCREW-TERMINAL REAR CONNECTOR (5 PINS)	EXTENSION SOCKET REAR CONNECTORS (2X10 PINS)	CONNECTORS (2X10 PINS) FRONT ACCESS CONNECTIONS (OPEN COVER)	
Power Supply	7V DC 0.65A, supplie	d		•		
DMX Output #1	First universe, 512 ch	annels DMX512 output		•	•	
DMX Output #2	Second universe, 512	channels DMX512 output (*)			•	
USB	USB 2.0 communicat	ion for PC/software				•
Ethernet	Advanced networkin	g features	•			
Ports 1-8	Contact closure inpu	ts, connect to GND to trigger				
User Interface	14 buttons, 1 fader, 2	3 leds (Touch-sensitive keypad)	•			Power/data LEDs
SD Card	MicroSD card for sta	nd alone memory use (supplied)				•
Reset	Push button for rese	operation				•
RS232	RS232 Serial commu	nication for external synchronisation			•	
Output Relay	Automatic Stand by	5V signal			•	
Clock	Real time clock and o	calendar	•			
SERVICE Servicable parts include: • Memory card - used to s	store the scenes	*To replace the Li-Ion rechargeable batt 1. You need a rechargeable 3.6v LIR 203		attery	4. Slide the replaceme top, making sure the p	nt battery in from the positive side is facing up.

Memory card - used to store the scenes
Battery - used to store the clock/calendar

• DMX Chips - used to drive the DMX (see p2.)

2. Remove the back panel by pulling down and sliding it out.

3. Using a paper clip push the battery from the bottom so it slides out of its cage. into place.

o. makır 5. Replace the back panel by pushing it up

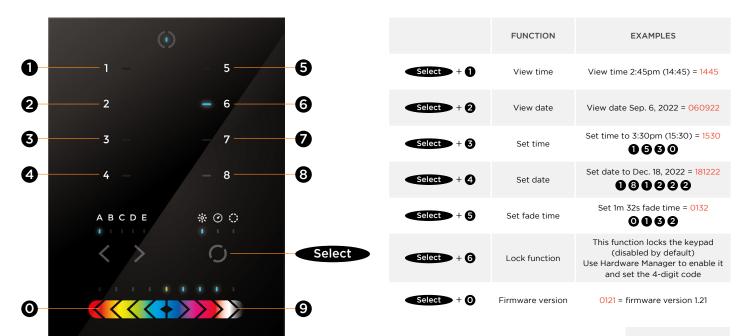
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FUNCTIONS / COMPONENTS / FEATURES / TECHNICAL DATA

COMPONENTS

Some functions are available directly from the controller keypad using the SELECT button.



TIME FORMAT 3:30pm (15:30) = 1530

TIME FORMAT 5 DEC 2018 = 051218

KEY FEATURES	TECHNICAL DATA					
8 touch sensitive scene buttons	Input Power	6-9V DC 0.6A				
Color/dimmer/speed fader	Output Protocol	DMX512 (x2)				
Touch sensitive buttons. No mechanical parts	Programmability	PC, Mac, Tablet, Smartphone				
Touch sensitive fader allows for accurate color selection	Available Colors	Black				
Multi-zone microSD memory	Connections	USB, Ethernet, RS232, Clock, 8 dry contact ports, Output Relay				
Multi-room control with 200 scenes, 5 zones	Memory	microSD card 4GB max, FAT16/32				
1024 DMX channels. Control 340 RGB fixtures	Temperature	14° - 122° F (-10° - 50° C)				
USB & Ethernet connectivity for programming and control	Mounting	Single or double-gang wall socket				
RS232 and Dry Contact Ports	Dimensions	5.75 x 4.17 x 0.43 in. (146 x 106 x 11 mm)				
Clock and calendar with Sunrise/Sunset triggering	Weight	0.54 lb (247 g)				
Network communication. Control lighting remotely	Standards	EC, EMC, RoHS, ETL				
Windows/Mac software to set dynamic colors/effects	Optional Accessory	6V ACDC power supply				
iPhone/iPad/Android remote and programming apps						

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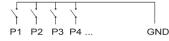


GUIDE

SETTING UP THE CONTROLLER

Dry Contact Port Triggering

It is possible to start scenes using the input ports (contact closure). To activate a port, a brief contact of at least 1/25 second must be established between the ports (1...8) and the ground (GND). Note: the scene will not be switched off when the switch is released.



Relay

A relay can be connected between the RELAY and GND sockets of the 20 pin extension socket. This is an OPEN COLLECTOR OUTPUT that can drive up to 150mA, 20V. Current flows when the controller is on and is stopped when in standby. It can be used to turn off other equipment such as lighting drivers to save power (see diagram right).

iPhone/iPad/Android Control

The controller can be used with one of 3 different apps.

Lightpad

Designed to work seamlessly with the controller, Lightpad provides an easy way to control your lights over a local WiFi network from a tablet or smartphone. Use the slider to change the dimmer, color or speed, and the 8 scene buttons to select scenes and effects just like the wall panel. (www.nicolaudie.com/lightpad.htm)

Easy Remote

Create an entirely customized remote controller for your tablet or smartphone. Easy Remote is a powerful and intuitive app allowing you to easily add buttons, faders, color wheels and more. Connect to a WiFi network and the app will find all compatible devices. (www.nicolaudie.com/easy-remote.htm)

Arcolis (Android only)

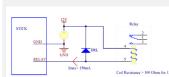
The Arcolis application is a comprehensive tool allowing you to directly control and re-program the controller from your smartphone or tablet. This is a simple application which can be used by just about everyone in any situation. Mobile, easy to use and powerful, Arcolis is the ideal controller for dimming or switching traditional, LED and RGB color mixing DMX lighting fixtures. Program static and dynamic lighting scenes and effects.

RS232 Triggering

Make a cable using the 3 pins : TX, RX and G (GND) Set the RS232 parameters to : 9600bds 8 bits, no Parity, 2 Stop bits

- To play a scene, send 3 bytes : 1 x 255
- To stop a scene, send 3 bytes : 2 x 255
- To pause a scene, send 3 bytes : 3 x 255
- To release a pause, send 3 bytes : 4 x 255 - To reset a scene, send 3 bytes : 5 x 255

The scene number (x) can be from 1 to 40. For instance, 11 means Page B Scene #3



Example relay : FINDER Ref. 22.23.9.012.4000

UDP Triggering

The DMX controller can be connected to an existing automation system over a network and triggered via UDP packet on port 2430. Use Hardware Manager to find IP address of DMX controller. Refer to the remote protocol document for more information. www.nicolaudie.com/download.htm

Network Control

The controller can be connected to a local network, allowing it to be controlled from a smartphone or tablet over WiFi.

- Connect the controller to a router or switch with an RJ45 cable
 The controller is set by default to get an IP address from the router via DHCP. If the network is not working with DHCP, a manual IP address and subnet mask can be set using the Hardware Manager
- If the network has a firewall enabled, allow port 2430

Programming the Controller

The controller can be programmed from a PC, Mac, Tablet or Smartphone using the software available on our website. Refer to the corresponding software manual for more information. The firmware can be updated using the Hardware Manager which is included with the programming software.

ESA Pro Software (Windows) - Timeline + Multi-Zone

https://www.nicolaudie.com/esapro.htm

ESA2 Software (Windows/Mac) - Single Zone www.nicolaudie.com/esa2.htm

Hardware Manager (Windows/Mac) - Firmware, clock www.nicolaudie.com/download.htm



TROUBLESHOOTING

Fixtures / lights not responding	 Check the DMX +, - and GND are connected correctly Check that the driver or lighting fixture is in DMX mode Be sure that the DMX address has been set correctly Check there are no more than 32 devices in the chain Check that the DMX LED is flickering to the right of the SD card Connect with the computer and open Hardware Manager (found in the software directory). Open the DMX Input/Output tab and move the faders. If your fixtures respond here, it is possibly a problem with the show file We strongly recommend the use of a DMX Tester with our interfaces 	All LEDs on the controller are flickering	 The controller is in Bootloader Mode. This is a special 'startup mode' which is run before the main firmware loads. Check that there is nothing metallic touching the back of the controller Try rewriting the firmware with the latest Hardware Manager Try slow formatting SD to FAT16/32 or replacing the card 	
	 with any problem solving No DMX output? There could be a faulty DMX chip. The controller has 2 DMX chips labelled UDMX1 and UDMX2 which are user-replaceable (see page 2). Try swapping the chips over to test if one is faulty. Use a flathead screw driver to pry them gently from the socket 		 Be sure that the latest software version is installed Make sure you are using Windows 7, 8 & 10 or OS X 10.8+ Connect by USB and open the Hardware Manager (found in the software directory). If it's detected here, 	
8 scene and standby LEDs flashing	There is no SD card detected • Check the SD card is properly inserted • Try formatting the SD card to FAT16/32 in the computer • Try rewriting the show file • Try replacing the SD memory card (Max 4Gb)	The controller is not detected by the computer	 try to update the firmware If not detected by Hardware Manager, the firmware could be corrupted. This can be solved by forcing a firmware update in Bootloader Mode Load Hardware Manager Press Bootloader button on the back (see image): Plugin the USB cable at the same time. 	
8 scene LEDs are flashing	There is no show file detected on the SD memory card • Try formatting the SD card in the computer • Try rewriting the show file • Try writing the standalone demo show using Hardware Manager • Try replacing the SD memory card	If successful the interface will appear in Hardware Manager with the suffix '_BL' - Update the firmware		
8 scene LEDs cycling constantly	 The interface is constantly restarting. There could be several causes: Corrupt show files. Remove SD card and back up contents. Use the Hardware Manage "Standalone" screen to write the demo show. If this solves the problem, rewrite your show using the DMX programming software and .arc or .dlm from your backup. Corrupt Firmware. Load Hardware Manager and update the firmware. If not detected, try Bootloader Mode. Faulty power supply. Use a multimeter to check the power supply. The Stick-KEI and KE2 require 6-7V. The older Stick-KUI, which used a miniSD card rather than a microSD, requires 9V. Power supplies do lose the ability to supply voltage over time. If below specification, replace power supply. 	Bo	ootloader Button	

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CONNECTIONS

WIRING DIAGRAM

