Installation Instructions

for the RGB DMX Stick CU4 Controller

#RGB-DMX-CONT-STICK-CU4

Installing the Controller

1. Mount an electrical box inside the wall

The controller can be installed in a standard electrical backbox. This box is usually 60mm high and wide, except in Japan and America where it is 83.5mm/3.29 inches high. You can insert the AC/DC adapter inside or outside the backbox.

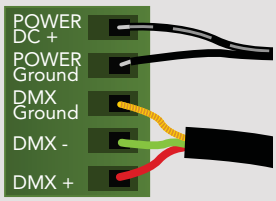
2. Connect the wires

POWER: Connect a 5-10V 0.6A ACDC supply. Be sure to not invert the + and the ground.

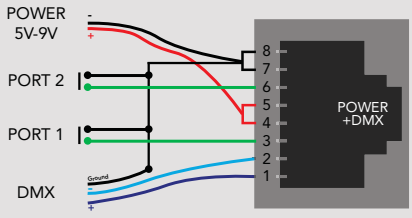
DMX: Connect the DMX cable to the lighting receivers (LEDs, Dimmers, Fixtures..) (for XLR: 1=ground 2=dmx- 3=dmx+)

There are 2 ways to connect the power and DMX:

Connector Block



RJ45



CHECK PIN CONFIGURATIONS. APPLYING POWER TO THE DMX INPUT WILL DAMAGE THE CONTROLLER

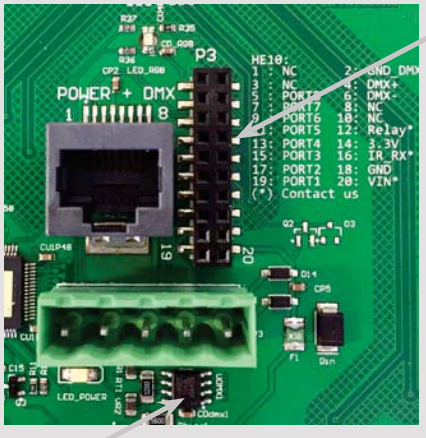
MAKE SURE THE CONTROLLER IS MOUNTED FLAT WITHOUT OBSTRUCTIONS FROM BEHIND AS THIS CAN PUSH APART THE GLASS

3. Mount the interface on the wall

First, mount the backside of the interface on the wall with 2 or more screws. Secondly, connect the DMX and power (connector block or RJ45).

The front panel is mounted by pressing it against the back plate and then sliding down. Two screws should then be attached underneath to hold the controller in place.

Other Connections



DMX CHIP
Solder the DMX chip to the 8 pin connector on the right of the RJ45 socket. Be sure that the chip is facing downwards

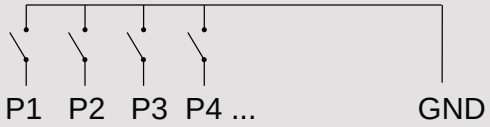
HE10 EXTENSION socket

NC	1	2	GND_DMX
NC	3	4	DMX+
PORT8	5	6	DMX-
PORT7	7	8	NC
PORT6	9	10	NC
PORT5	11	12	NC
PORT4	13	14	NC
PORT3	15	16	NC
PORT2	17	18	GND
PORT1	19	20	VIN

Compatible header connectors:
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

Dry Contact Port Triggering

It is possible to start scenes using the dry contract input ports available on the HE10 extension socket. To activate a port, a brief contact of atleast 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.



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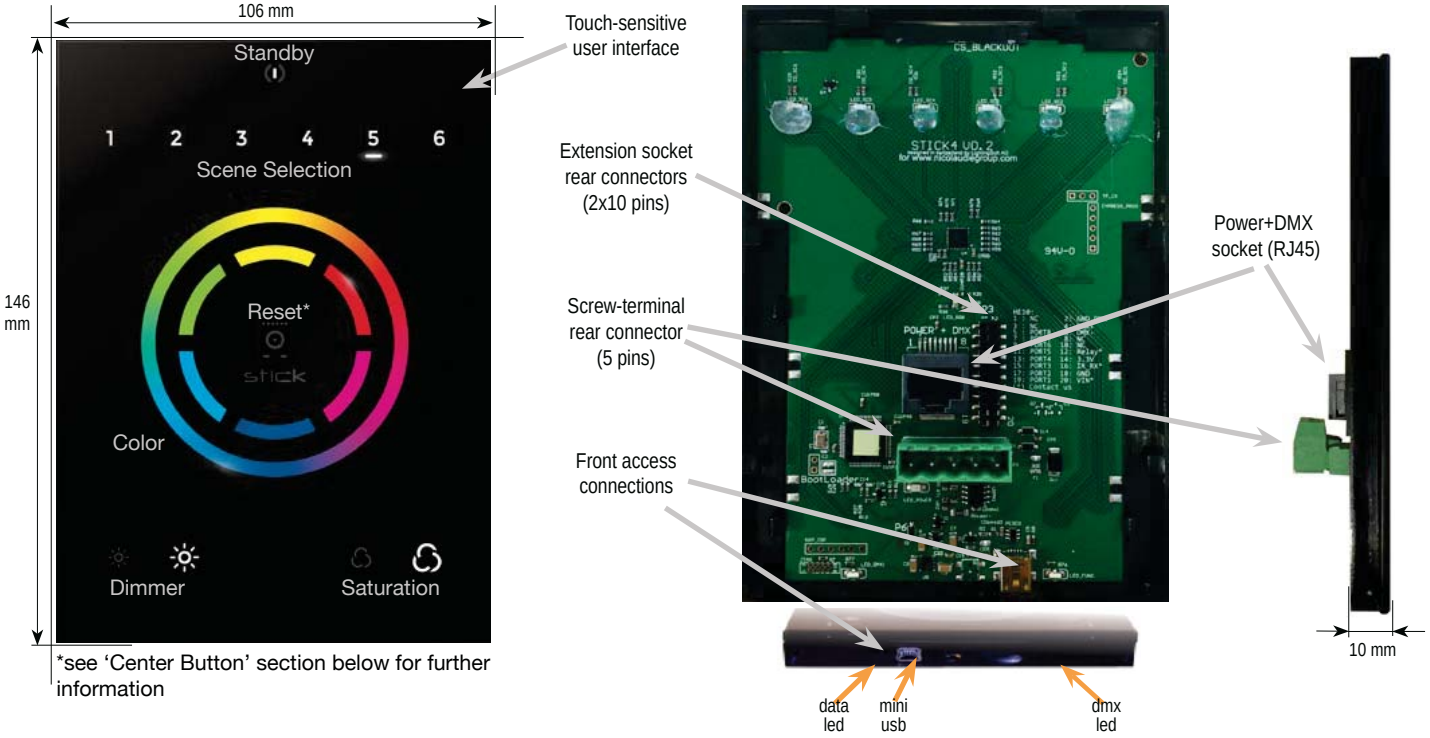


Center Button

There are several operation modes for the button in the center of the palette. These can be set within the Hardware Manager.

Reset color : the color set on the wheel will be cleared and the default scene will be restored.
Play next scene : the currently selected scene will stop and the next scene will play.
Select next bank : if more than 6 scenes are stored in the controller, the next bank will be selected. One of the 6 scene selection buttone will flash for 1 second to indicate the selected bank number.
Toggle wheel color/scene mode : the wheel can be used to select a color or a scene, depending on the mode. Tapping the button will toggle between scene selection and color selection mode. The center LED will blink when the wheel is set to scene mode.
Disable button : the button will have no function.

Other Settings

There are several other settings which are available within the Hardware Manager.

Miscellaneous:

Name : a custom name for the controller, usefull if you have several controllers connected.

Parameters:

Color/Dimmer : determines whether the color/dimmer will be reset when a new scene is recalled and whether color/dimmer changes are stored globally, or per scene.

Re-select scene : determines what happens when a playing scene is re-selected.

Reset color : clear any color changes and reset to the scene's color vlaues.
Reset dimmer : clear any dimmer changes and reset to the scene's dimmer vlaues.
Reset saturation : clear any saturation changes and reset to the scene's saturation vlaues.

Starting mode (L) : change the language of the text which appears on the screen.

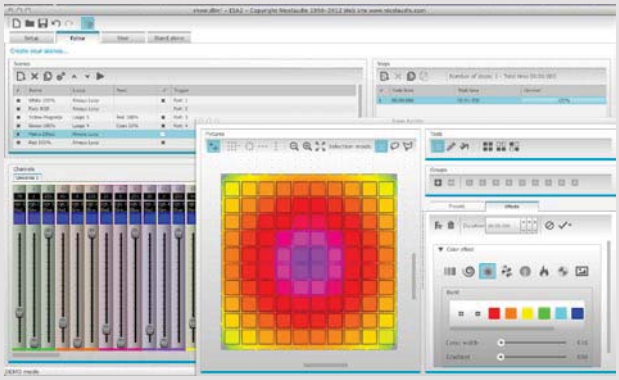
Re-select scene : settings related to the LEDs on the controller.

Scene LED light level : sets the brightness of the LEDs.
RGB LED enable : enabled and disables the RGB LED in the center of the wheel.

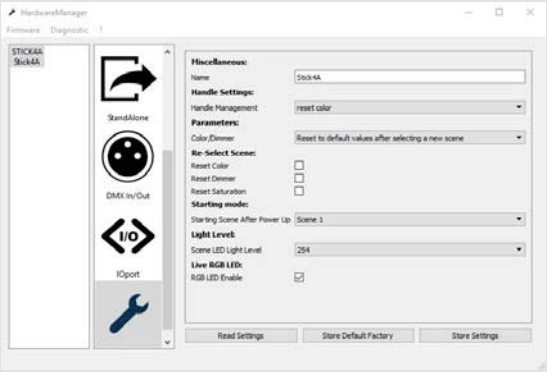
Programming the Controller

The DMX controller can be programmed from a PC or Mac 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.

ESA2 Software (Windows/Mac)
http://www.nicolaudie.com/esa2.htm



Hardware Manager (Windows/Mac) - Firmware, clock..
http://www.dmxsoft.com/global/ftp/hardwaremanager.zip
http://www.dmxsoft.com/global/ftp/HardwareManager.dmg



Troubleshooting

All 7 LED's on the controller are blinking

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 re-writing the firmware with the latest hardware manager

The 6 scene LED's are blinking

No showfile has been detected on the controller.
-Download the latest software
-Update tot he lates firmware using the included Hardware Manager
-Try re-writing the show file

Contact us if you see the following errors

Center LED Red, cycling pattern on 6 LEDs - Error1
Center LED Green, cycling pattern on 6 LEDs - Error2
Center LED Blue, cycling pattern on 6 LEDs - Error3

The lights are 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

The controller is not detected by the computer

-Be sure that the latest software version is installed (use the beta if available)
-Connect by USB and open the Hardware Manager (found in the software directory). If it's detected here, try to update the firmware
-Try another USB cable, port and computer

For additional assistance, please contact LEDI's Design Department at (832) 717-2710, or designs@ledinspirations.com.

Instructions provided by Nicolaudie-Sunlite

Complete System Wiring Diagram