

# PROLED L500022B DMX Controller Owner's Manual

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**PROLED L500022B DMX Controller** 



### **Product Information**

• Product Name: Touch Control Glass 4 RGB DMX

• Overview: This product is a touch control glass with 4 RGB DMX channels. It features 6 touch-sensitive buttons for easy control.

# · Key Features:

• Input Power: 5-15V DC

Output Protocol: DMX512 (x2)

• Programmability: PC, Mac

• Available Colors: Black

Connections: Power, DMX

Memory: Yes

• Temperature: Battery

Mounting: Wall-mounted

• Dimensions: 146x106x11mm

• Weight: 200g

• Standards: EC, EMC, ROHS

# • Technical Data:

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# **Product Usage Instructions**

### **Easy Installation**

- 1. Mount an electrical box inside the wall. The electrical backbox should be 60mm high and wide, except in Japan and America where it is 83.5mm/3.29 inches high. The AC/DC adapter can be inserted inside or outside the backbox.
- 2. Connect the wires:
  - POWER: Connect a 5-10V 0.6A ACDC supply. Make sure to connect the + and ground correctly.
  - DMX: Connect the DMX cable to the lighting receivers (LEDs, Dimmers, Fixtures..). For XLR connection, use the following pin configuration: 1=ground, 2=dmx+.

**Note:** There are 2 ways to connect the power and DMX:

- POWER+DMX with the connector block
- POWER DC +
- POWER Ground
- DMX Ground
- ∘ DMX –
- DMX +
- POWER+DMX with the RJ45 cable
- 1 DMX +
- 。 2 DMX
- 3 DMX2 +
- 4 POWER
- 5 DC +
- 6 DMX2 -
- 7 POWER
- 8 GROUND

**Note:** 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.

#### Mount the interface on the wall:

- Mount the backside of the interface on the wall with 2 or more screws.
- Connect the DMX and power (connector block or RJ45).
- Take note of the location of the Wi-Fi aerial and install the front panel with care. The front panel is mounted by

pressing it against the back plate and then sliding down. Attach two screws underneath to hold the controller in place.

### **Blackout Relay (energy saving)**

A relay can be connected between the RELAY (pin 12) and GND sockets of the 20-pin extension socket. This is an open drain output that allows current to flow only when the controller is on. It can be used to turn off other equipment such as lighting drivers to save power.

#### **Other Connections**

The HE10 extension socket allows dry contact port triggering. To activate a port, establish a brief contact of at least 1/25 second between the desired port (1...8) and a ground (GND) pin. Note that the scene will not be switched off when the switch is released.

# **Touch Control Glass 4 RGB DMX**



### **Overview**

This DMX controller is aimed at architectural lighting installations requiring an advanced level of programming (color changing effects, specific colors etc). The controller provides a clean and user-friendly panel. Featuring an on/off button, 6 scene buttons and a color wheel, the controller is ideal for hotels, homes and public environments. With 1024 DMX channels, Wi-Fi for remote network control and scene calendar triggers, the TCG4 model features many advanced features. USB programmable from a PC or Mac, up to 36 scenes can be stored within the controller and directly recalled via 6 touch sensitive buttons.

### **Key Features**

- · DMX stand-alone controller
- · Compatible with any DMX fixture or DMX LED driver
- Ready-to-use (pre-loaded with 8 scenes and 170 RGB fixtures)
- Sleek, black glass design which sits 11mm from the wall
- Color palette (can also be used for scene selection)
- 12 touch-sensitive buttons. No mechanical parts
- The touch-sensitive wheel allows for accurate color selection
- Built-in flash memory for storing programs
- Up to 36 dynamic or static scenes
- 1024 DMX channels. Control 340 RGB fixtures

- · Clock and calendar with Sunrise/Sunset triggering
- Wi-Fi network communication. Control lighting remotely
- USB connectivity for programming and control
- 8 dry contact trigger ports
- OEM customization of the color palette and logo
- Windows/Mac software to set dynamic colors/effects

#### **Technical Data**

- Input Power 5-15V DC 0.6A
- Output Protocol DMX512 (x2)
- Programmability PC, Mac
- Available Colors Black
- Connections USB, 8 dry contact ports, open drain ouput (for relay)
- Memory In-built flash
- Temperature -10 °C 45 °C
- Battery LIR1220
- Mounting Single or double-gang wall socket
- Dimentions 146x106x11mm
- · Weight 200g
- · Standards EC, EMC, ROHS

### **EASY INSTALLATION**

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:

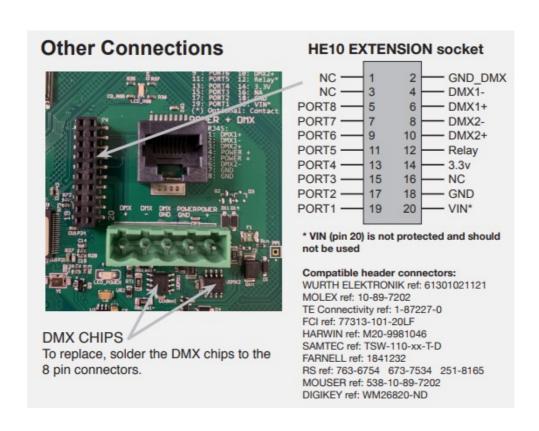


3. Mount the interface on the wall

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). Take note of the location of the Wi-Fi aerial (see pg3 photo) and install front panel with care. 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.

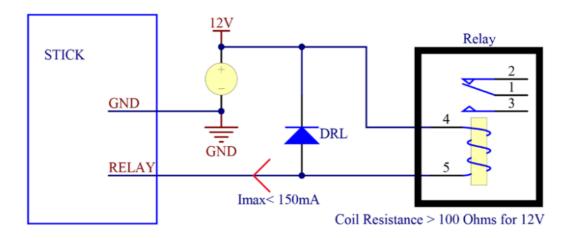


- CHECK PIN CONFIGURATIONS. APPLYING POWER TO THE DMX INPUT WILL DAMAGE THE CONTROLLER
- MAKE SURE THE CONTROLLER IS MOUNTED FLAT WITHOUT OBSTRUCTIONS FROM BEHIND AS THIS CAN PUSH APART THE GLASS



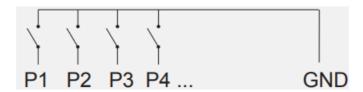
### **BLACKOUT Relay (energy saving)**

A relay can be connected between the RELAY (pin 12) and GND sockets of the 20 pin extension socket. This is an open drain output that allows current to flow only when the controller is on. It can be used to turn off other equipment such as lighting drivers to save power.

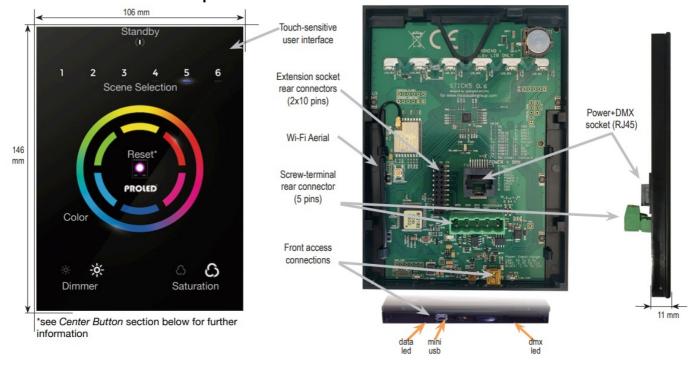


### **Dry Contact Port Triggering**

It is possible to start scenes using the dry contact input ports available on the HE10 extension socket. To activate a port, a brief contact of at least 1/25 second must be established between the ports (1...8) and a ground (GND) pin. Note: the scene will not be switched off when the switch is released



### **Connections & Hardware Operation**



### **Center Button**

There are several operation modes for the button in the center of the palette. These can be set within 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, you can select a scene on another scene bank. 1) press the centre button one or more times to select a scene bank number. The selected bank will flash. 2) Quickly, press a scene number to select a scene from the selected bank. If no scene is selected, it will continue playing

the original scene.

- 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 that are available within the Hardware Manager.

• Miscellaneous: Name: a custom name for the controller. Useful 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 values.
- Reset dimmer: clear any dimmer changes and reset to the dimmer values of the scene.
- Reset saturation: clear any saturation changes and reset to the saturation values of the scene.
- 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 enables (Live Ch. 1-3): when enabled, the RGB LED in the center of the wheel will change color depending on the live DMX output of channels 1-3. Only active in live mode (i.e. when connnected to software)
- RGB LED enables (Standalone): enables and disables the RGB LED in the center of the wheel.

#### **Serviceable Parts**

- Battery used to store the clock/calendar
- DMX Chips used to drive the DMX (see )
  - To replace the Li-lon rechargeable battery :
- You need a rechargeable 6v LIR 1220 replacement battery
- Remove the back panel by pulling down and sliding it out
- Gently pull the battery release wire and the battery will pop out

### Setting up the Controller

## **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 which is also available on our website. The firmware can be updated using the Hardware Manager which is included with the programming software. ESA2 Software (Windows)

https://www.proled.com/fileadmin/files/com/downloads/software/proled2.exe

#### **Network Control**

The controller can be connected directly from a computer/ smartphone/tablet (Access Point Mode), or can be connected to an existing local network (Station Mode). The controller is set to work in Access Point (AP) Mode by default.

- In AP Mode, the default network name is Smart DMX Interface XXXXXX where X is the serial number. The default password is 00000000 (8 zeros).
- To connect using Station Mode, use HardwareManager to set the Wifi settings to Station or Dual Then connect
  your controller to your network by selecting your Wifi router from the Network List. 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 on the Ethernet options screen. If the network has a filewall enabled,
  allow port 2430

#### iPhone/iPad/Android Control

Easy Remote Pro (iPad/iPhone. Android coming soon) Create an entirely customized remote control interface for your tablet or smartphone. Easy Remote Pro is a powerful and intuitive app, allowing you to add buttons, faders, color wheels and more. Connect to a Wi-Fi network and the app will find all compatible devices on the local network. Available for iOS and Android.

### Lightpad

Designed to work seamlessly with the controller, Lightpad provides an easy way to control your lights over a local Wi-Fi network. Connect and you will see a representation of your controller on the screen. Use the on-screen controls as you would the controller in real life

# **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 software

### 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 controller is not detected by the computer

- Be sure 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 is detected, try to update the firmware
- Try another USB cable, port, and computer

#### **Bootloader Mode**

Sometimes the firmware update may fail and the device may not be recognized by the computer. Starting the controller in 'Bootloader' mode forces to the controller to start at a lower level and, in some cases, allows the controller to be detected and the firmware to be written. To force a firmware update in Bootloader Mode:

- 1. Power off your interface
- 2. Start HardwareManager on your computer

- 3. Press and hold the button on the back of the circuit board labeled BootLoader and connect the USB cable at the same If successful, your interface will appear in HardwareManager with the suffix BL.
- 4. Update your firmware

#### The 6 scene LEDs are blinking

No show file has been detected on the controller.

- · Download the latest software
- Update to the latest firmware using the included Hardware Manager
- Try re-writing the show file

### 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

### Trouble connecting over a network

- Try disabling any firewalls on your computer (e.g. Windows Firewall)
- Update firmware using the latest HardwareManager from our website
- · Allow port 2430 on your network
- Check controller is connected to the same Wi-Fi network
- Close / kill all other dmx software / apps
- Check that you are not connecting to STICK through a VPNs are not compatible with our network discovery process

### Calendar trigger problems

- If scenes are not triggering or are doing so at the incorrect time, check the time stored on the controller using HardwareManager > Clock
- If the controller forgets the time set, replace the battery (see pg2)
- If scenes start triggering 1 hour early/late, check Clock > DST settings

Sunset / Sunrise triggers not matching the real world? Check the controller is set to the correct location. Default is Montpellier, France

MBN GmbH, Balthasar-Schaller-Str. 3, 86316 Friedberg, Germany

#### **Documents / Resources**



PROLED L500022B DMX Controller [pdf] Owner's Manual L500022B DMX Controller, L500022B, DMX Controller, Controller

# References

• O PROLED: proled.com

Manuals+,