

Thank you for purchasing MADRIX® USB light sensor!

7th Edition – August 2018

Please read this guide carefully and thoroughly before using MADRIX® USB light sensor. Make sure that you fully understand all information.



Key Features

This sensor measures the ambient light level.

Incoming values are directly translated into DMX data in the MADRIX® Software as well as percent.

The small unit can simply be connected to any USB 2.0 port.

Example of use: Master



Technical Specifications

Power Supply	DC 5 V, 500 mA, Power over USB
Power Consumption	< 50 mA during normal operation
USB	USB 2.0, type A plug, Plug and Play, 2 m cable
Dimensions (L x W x H)	44 mm x 30 mm x 23 mm
Weight	59 g
Operating Temp.	-20 °C to 80 °C
Storage Temp.	-20 °C to 80 °C
Relative Humidity	5 % to 95 %, non-condensing (Operating / Storage)
IP Rating	IP57
Certificates	CE, RoHS

Package Contents

- 1x MADRIX® USB light sensor
- 1x Quick start guide / technical manual

Please note: Check the package contents and the condition of the interface after unpacking! Contact your supplier if something is missing or damaged. Do not use the device if it seems to be damaged!

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Limited Warranty

Two years of limited manufacturer's warranty are granted to the purchaser of this product. Warranty applies to constructional fault, material defect, or incorrect assembly the manufacturer has caused or is to be held responsible for. Warranty will be void if the interface is opened, modified, damaged through inappropriate handling and wrong usage, damaged through overvoltage, or damaged through any other cause.

End-Of-Life



This electrical device and its accessories need to be disposed of properly. Do not throw the device into normal trash or household waste. Please recycle packaging material whenever possible.

Step-By-Step Configuration

- 1) Connect your device.
- 2) Enable drivers in the MADRIX® Software.
- 3) Enable your device.
- 4) Set up DMX Input.
- 5) Choose how to use incoming data.

1) Connect Your Device

- Connect your MADRIX® I/O device to a free USB 2.0 port of your computer.
- Make sure that Windows recognizes the device. Windows will automatically install the drivers for the device.

2) Enable Drivers In The MADRIX® Software

- Go to the menu 'Preferences' > 'Options...' > 'Devices USB'.
- Activate 'MADRIX I/O'. [The option is activated by default.]
- Click 'Apply' and 'OK'.

3) Enable Your Device

- Go to 'Preferences' > 'Device Manager...' > 'DMX Devices'.
- Click on the Search button (loupe icon) if your device is not shown in the list.
- Select your device in the list and select 'Enable' in the section 'Settings'. Click 'Apply'. Now, in the list the 'State' will switch to 'On' [indicated by green light].

It is not recommended to change the 'Frame Time (ms)' of your device. It is highly recommended to use the default settings.

More Information

- The recommended 'Frame Time (ms)' is **500**.
- Incoming data directly translates into DMX data in the MADRIX® Software.
- Data is sent to **DMX channel 1 – DMX channel 8** on your selected DMX universe.

- **DMX channel 1** represents the light level in percent. Valid values range from 0% to 100%.
- **DMX channel 2** represents the decimal place in percent. Valid values range from .0% to .99%.
- **DMX channel 3** represents the light level in DMX values. Valid values range from 0 to 255.
- **DMX channel 4** represents the decimal place in DMX values. Valid values range from 0 to 255.
- **DMX channel 5** represents the inverted light level in percent. Valid values range from 0% to 100%.
- **DMX channel 6** represents the inverted decimal place in percent. Valid values range from .0% to .99%.
- **DMX channel 7** represents the inverted light level in DMX values. Valid values range from 0 to 255.
- **DMX channel 8** represents the inverted decimal place in DMX values. Valid values range from 0 to 255.

Support

In case of further questions concerning handling of MADRIX® I/O or technical problems, please read the MADRIX® Help And Manual first, contact your dealer, or have a look at the website www.madrix.com. You can also directly contact info@madrix.com

4) Set Up DMX Input

- Go to the menu 'Preferences' > 'Device Manager...' > 'DMX Input'.
- Select one entry in the list [e.g., 'Universe 1'] and go to the section 'Device'. Choose your device under 'DMX-IN Device'.
- The MADRIX® Software now receives data from your device.

5) Choose How To Use Incoming Data

Now, you have several options to choose from:

- A) You can activate 'Remote' and choose a protocol in the section 'Remote Control'. This will allow you to control the MADRIX® Software remotely using your controller.
- B) You can use incoming data in a Script or Macro.
- C) You can activate 'Trigger' and choose the trigger functionality in the section 'Trigger'.
- D) You can monitor incoming DMX data. Select your device in the list and click on the DMX Watcher (display icon). Learn more below.

Close the Device Manager with 'OK'.

Monitoring Incoming DMX Data

To effectively work with incoming DMX data from your device, you can use the DMX Watcher to monitor incoming signals.

- Open the DMX Watcher as explained above or go to the menu 'Tools' > 'DMX Watcher...'.
- Select 'Input'.
- Set up the correct 'Universe'. This is the same number as you have chosen in the list under 'Preferences' > 'Device Manager...' > 'DMX Input' [e.g., 'Universe 1'].

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