

MOS - LED - IP MANUAL

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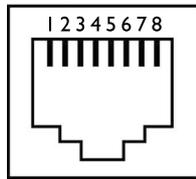
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ETHERNET

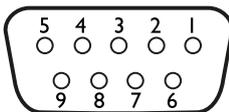
USB

RJ45 GPI contacts.



Pin	Function	Signal
1	GPI-1A	+ 5 to + 15 volts
2	GPI-1A GND	Ground
3	GPI-1B	Contact to pin 7 / 9
4	GPI-1B/2B GND	Ground GPI-1B / GPI-2B
5	GPI-2A	+ 5 to + 15 volts
6	GPI-2A GND	Ground GPI-2A
7	GPI-2B	Contact to pin 7 / 9
8	GPI-1B/2B GND	Ground GPI-1B / GPI-2B

SUB-D 9 GPI contacts. In parallel to the RJ45



Pin	Function	Signal
1	GPI-1A	+ 5 to + 15 volts
2	GPI-1B	Contact to pin 7 / 9
3	GPI-2A	+ 5 to + 15 volts
4	GPI-2B	Contact to pin 7 / 9
5	Alarm	Contact to pin 7 / 9
6	GPI-1A GND	Ground
7	GPI-1B/2B GND	Ground GPI-1B / GPI-2B
8	GPI-2A GND	Ground GPI-2A
9	GPI-1B/2B GND	Ground GPI-1B / GPI-2B

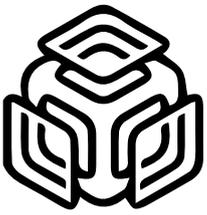
SUB-D 9 MALE is included



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Supply voltage: 12 to 24 volts DC. Polarity is unimportant
Power consumption of the MOS-LED-IP is 0.7 watt in standby.

Signal indicators: Red - Green - Blue - White

The controller switches ground and uses a fixed + output.

This is standard for most RGB-W LED strips. Maximum power rating for each colour is 2 amps with a total maximum power consumption of 4 amps for all 4 colours.

LED connections:

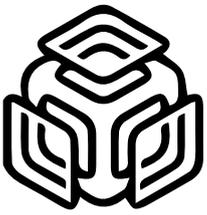
Pin	Functie
1	+12 / +24V
2	Red
3	Green
4	Blue
5	White



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MOS-LED-IP

Device mode: GPI commands

Remote device settings
Select device: SUB-D selected
Remote IP: 192.168.0.100

Brightness: [Slider]
Fade speed: [Slider]

GPI 1 settings
Color: [Red]
Blink speed: [Slider]

GPI 2 settings
Color: [Green]
Blink speed: [Slider]

Standby settings
Color: [White]
Light settings: Continuous selected

MOS IP settings
IP address: 192.168.0.101
Subnet mask: 255.255.255.0
MAC: 00.50.C2.80.80.62
Firmware: V 1.05

Save settings and reboot

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Network access

The MOS LED IP settings can be adjusted using a standard web browser.

The factory default settings:
IP 192.168.0.101
Subnetmask: 255.255.255.0

It may take up to 30 seconds for the device to be active on the network after connecting the device to your computer or network.

Enter the IP address in your browser and the MOS LED IP will display the following settings page:

Packet Sender

Name: Packet Name
ASCII: restore
HEX: 72 65 73 74 6f 72 65
Address: 255.255.255.255
Port: 4009
Resend Delay: 0.0/blank off
Method: UDP

Send Save

Search Saved Packets...

Send	Name	Resend (sec)	To Address	To Port	Method	ASCII	Hex

Clear Log Log Traffic Save Log Save Traffic Packet Copy to Clipboard

Time	From IP	From Port	To IP	To Port	Method	Error	ASCII	Hex

Reset settings to factory default

Connect your computer directly with a UTP cable to the device without any switch in between. Reset to default setting can be done by sending the restore command on port 4009 at broadcast address 255.255.255.255. Use packetsender to do this.

link to reset program



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MOS LED IP settings

Here the IP address with the corresponding subnet mask can be set. The MAC address is unique for each device and can not be changed. The firmware shows the currently running firmware version of the device.

MOS IP settings	
IP address:	<input type="text" value="192.168.0.101"/>
Subnet mask:	<input type="text" value="255.255.255.0"/>
MAC:	<input type="text" value="00.50.C2.80.80.62"/>
Firmware:	V 1.05

To activate and save the settings press “Save settings and reboot.”

Brightness and Fade speed

Brightness:	<input type="range" value="80"/>
Fade speed:	<input type="range" value="20"/>

Brightness: Here you can adjust the intensity of the led-strip.

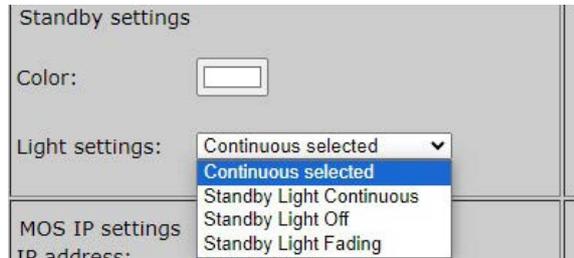
Fade speed: Here you can adjust the fade speed of the led-strip.

To activate and save the settings press “Save settings and reboot.”



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Standby settings



Standby light Continuous: When no triggers are active (GPI 1 - GPI 2) this color will be active.

Standby light Off: When no triggers are active (GPI 1 - GPI 2) there will be NO color.

Standby light Fading: When no triggers are active (GPI 1 - GPI 2) this color will be fading up and down.

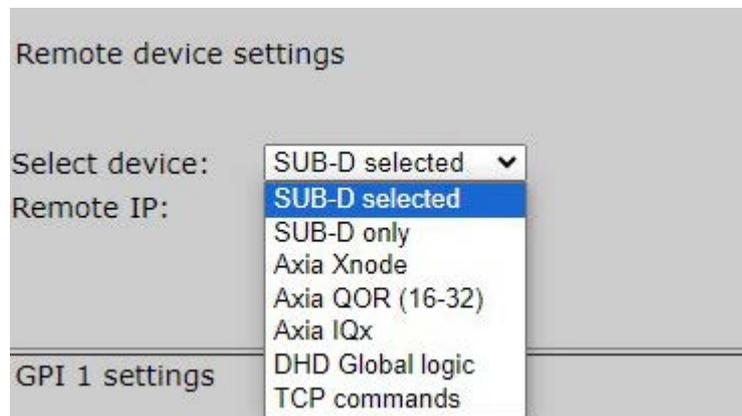
To activate and save the settings press "Save settings and reboot."

Save settings and reboot

Methods

There are 5 methods to work with MOS LED IP:

- METHOD 1: SUB-D ONLY (SUB-D 9 GPI contacts or RJ45 GPI contacts)
- METHOD 2: TELOS AXIA X-NODE / LIVEWIRE DRIVER
- METHOD 3: TELOS AXIA QOR/IQ/IQX
- METHOD 4: DHD GLOBAL LOGIC
- METHOD 5: TCP COMMANDS



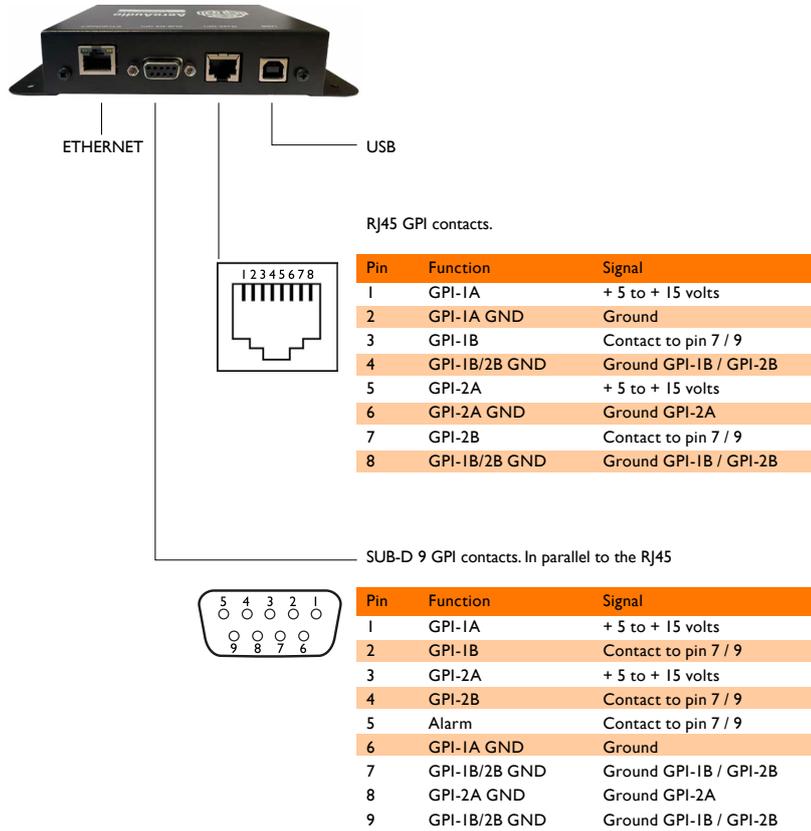


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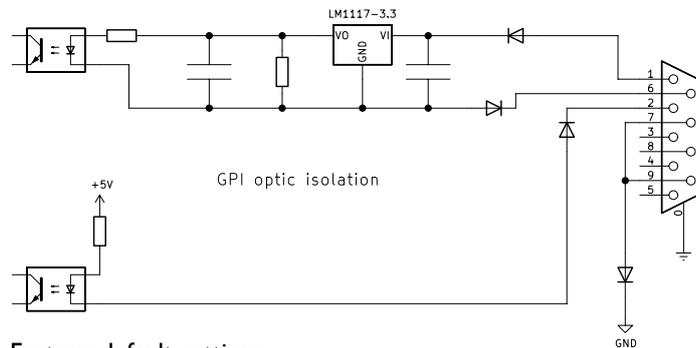
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METHOD I: SUB-D ONLY (SUB-D 9 GPI CONTACTS OR RJ45 GPI CONTACTS)



The voltage control of GPI1 and GPI2 are isolated from each other and from the MOS-LED. Voltage control is possible between +5 and +15 volts DC.



Factory default settings:

- GPI1 = Red (Full on)
- GPI2 = Green (fully on, flashing)
- No GPI active = White.

If GPI1 is on and GPI2 joins it (or vice versa) then the LED control will alternate between Red and Green.



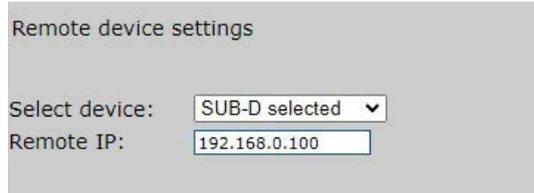
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Remote device settings: select “SUB-D”



Remote device settings

Select device:

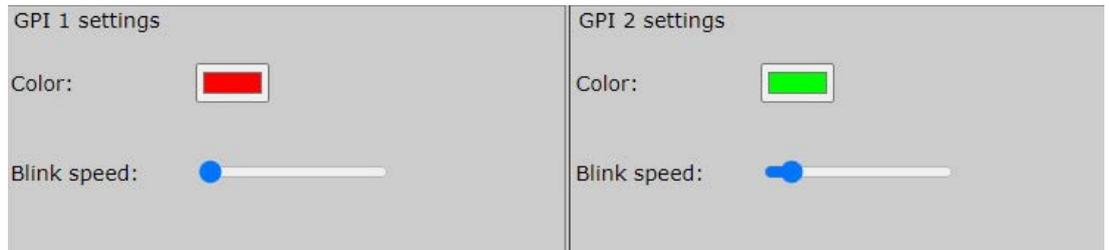
Remote IP:

Remote IP: not used in this method

To activate and save the settings press “Save settings and reboot.”

Save settings and reboot

GPI 1 (same for GPI 2)



GPI 1 settings

Color:

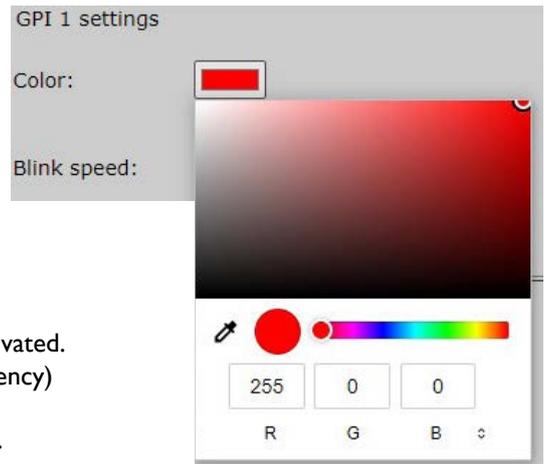
Blink speed:

GPI 2 settings

Color:

Blink speed:

Color: color selection



GPI 1 settings

Color:

Blink speed:

255 0 0
R G B

Blink speed: If set to left, the color will not be blinking when activated. If turned more to the right side, the color will be blinking when activated. To adjust the blinking speed (frequency) move the slider as desired (the more to the right, the slower).

To activate and save the settings press “Save settings and reboot.”

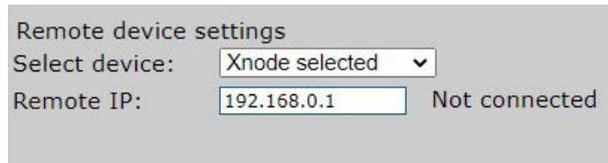
Save settings and reboot



MOS - LED - IP MANUAL

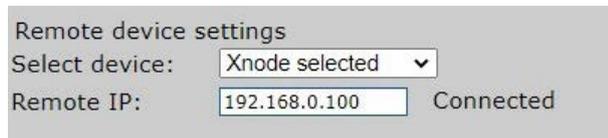
METHOD 2: TELOS AXIA X-NODE / LIVEWIRE DRIVER

Remote device settings: select “Axia X-node”



Remote device settings
 Select device: Xnode selected
 Remote IP: 192.168.0.1 Not connected

Remote IP: enter the IP address of the X-node/livewire
 In this example 192.168.0.100 - Make sure that devices are in the same IP-range.



Remote device settings
 Select device: Xnode selected
 Remote IP: 192.168.0.100 Connected

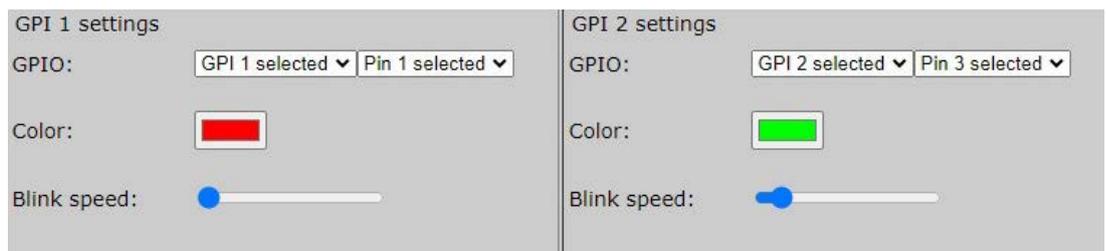
To activate and save the settings press “Save settings and reboot.”



Save settings and reboot

GPI 1 (same for GPI 2)

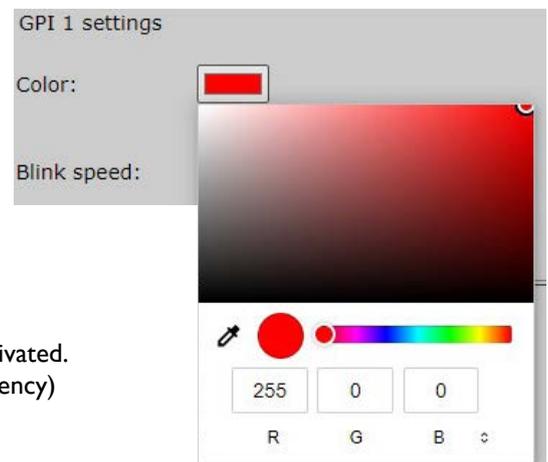
GPIO: Select your GPIO contact and designated PIN
 In this example “GPI1” and “PIN 1”



GPI 1 settings
 GPIO: GPI 1 selected Pin 1 selected
 Color:
 Blink speed:

GPI 2 settings
 GPIO: GPI 2 selected Pin 3 selected
 Color:
 Blink speed:

Color: color selection



GPI 1 settings
 Color:
 Blink speed:

Color selection dialog:
 255 0 0
 R G B

Blink speed: If set to left, the color will not be blinking when activated.
 If turned more to the right side, the color will be blinking when activated.
 To adjust the blinking speed (frequency)





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To activate and save the settings press “Save settings and reboot.”

Save settings and reboot

After save settings and reboot, if the device is found it wil show “connected”

Remote device settings
Select device: Xnode selected ▼
Remote IP: 192.168.0.1 Not connected

If not it will show “not connected”
Please check if your device is correct-
ley connected and the IP address is set
correct.



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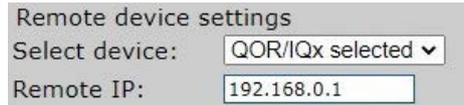
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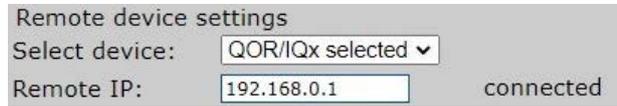
METHOD 3: TELOS AXIA QOR/IQ/IQx

Remote device settings: select "Axia QOR/IQx"



Remote device settings
 Select device: QOR/IQx selected ▾
 Remote IP: 192.168.0.1

Remote IP: enter the IP address of the QOR/IQx
 In this example 192.168.0.1 - Make sure that devices are in the same IP-range.



Remote device settings
 Select device: QOR/IQx selected ▾
 Remote IP: 192.168.0.1 connected

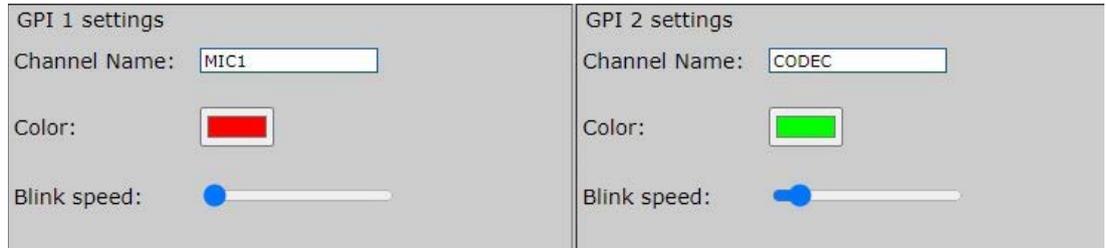
To activate and save the settings press "Save settings and reboot."



Save settings and reboot

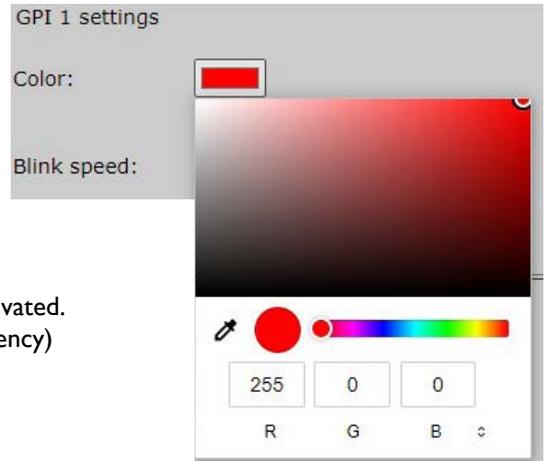
GPI 1 (same for GPI 2)

Channel Name: Enter the source name that you like use (the QOR/IQx source profile name).
 In this example "MIC1" for GPI 1.



GPI 1 settings Channel Name: MIC1 Color: Blink speed: <input type="range" value="0"/>	GPI 2 settings Channel Name: CODEC Color: Blink speed: <input type="range" value="0"/>
--	---

Color: color selection



GPI 1 settings
 Color:
 Blink speed:

Color selection dialog showing a color picker and RGB values: R: 255, G: 0, B: 0

Blink speed: If set to left, the color will not be blinking when activated.
 If turned more to the right side, the color will be blinking when activated.
 To adjust the blinking speed (frequency)



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To activate and save the settings press “Save settings and reboot.”

Save settings and reboot

Make sure for the first use to reload the show profile of your studio console.

Remote device settings
Select device: ▼
Remote IP: Not connected

If not it will show “not connected”
Please check if your device is correctly connected and the IP address is set correct.

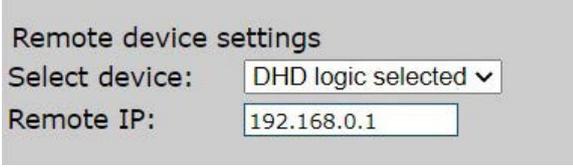
If for any reason the MOS LED IP doesn't react on the commands of the QOR/IQx (this can be caused by power reboot of the QOR/IQx or too fast loading of the show profiles) then please try to reload the show profile on the QOR/IQx.



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METHOD 4: DHD LOGIC

Remote device settings: select “DHD logic”



Remote device settings
 Select device: ▼
 Remote IP:

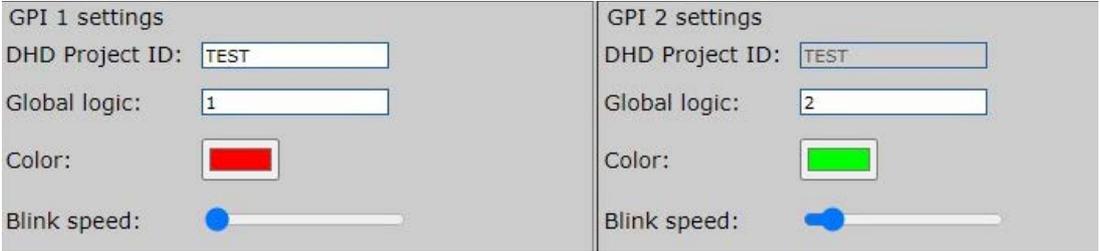
Remote IP: enter IP of the DHD device
 In this example 192.168.0.1 - Make sure that devices are in the same IP-range.

To activate and save the settings press “Save settings and reboot.”

GPI 1 (same for GPI 2)

DHD Project ID: enter your DHD Project ID, in this example “TEST”

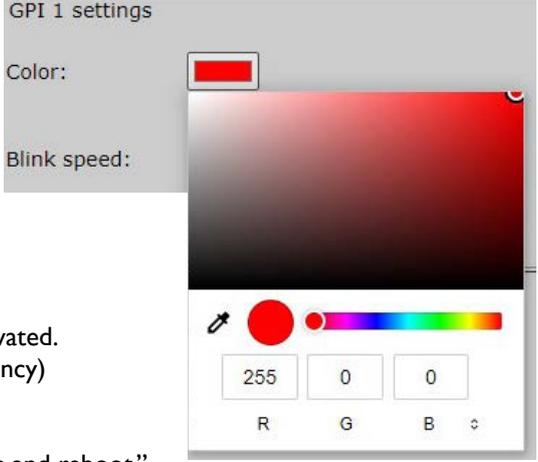
Global logic: enter your Global logic, in this example “1” for GPI 1



GPI 1 settings	GPI 2 settings
DHD Project ID: <input type="text" value="TEST"/>	DHD Project ID: <input type="text" value="TEST"/>
Global logic: <input type="text" value="1"/>	Global logic: <input type="text" value="2"/>
Color: <input type="color" value="red"/>	Color: <input type="color" value="green"/>
Blink speed: <input type="range" value="50"/>	Blink speed: <input type="range" value="50"/>

Color: color selection

Blink speed: If set to left, the color will not be blinking when activated.
 If turned more to the right side, the color will be blinking when activated.
 To adjust the blinking speed (frequency)



GPI 1 settings
 Color:
 Blink speed:

Color picker interface showing a red color selection and a color wheel. Below the wheel are RGB input fields: R: 255, G: 0, B: 0.

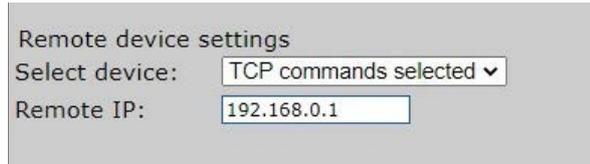
To activate and save the settings press “Save settings and reboot.”



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METHOD 5: TCP COMMANDS/ STRINGS

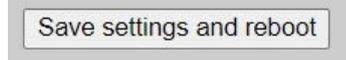
Remote device settings: select “TCP commands”



Remote device settings
 Select device: TCP commands selected ▾
 Remote IP: 192.168.0.1

Remote IP: not used in this method

To activate and save the settings press “Save settings and reboot.”

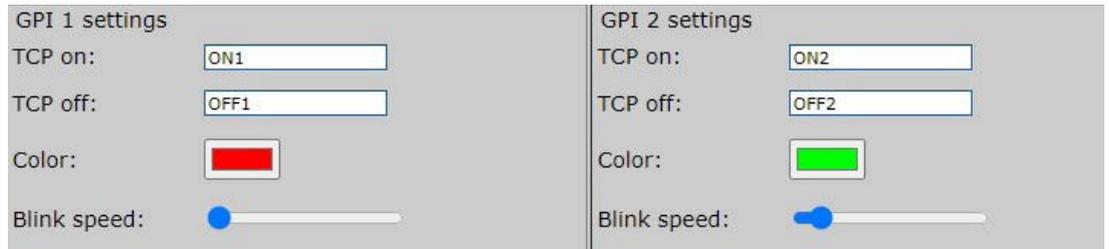


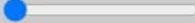
GPI 1 (same for GPI 2)

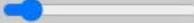
You can activate this command by sending the specific string to the IP address of the MOS LED IP and port 93. In this example 192.168.0.101 port 93

TCP ON: string to activate GPI in this example “ON1” for GPI 1

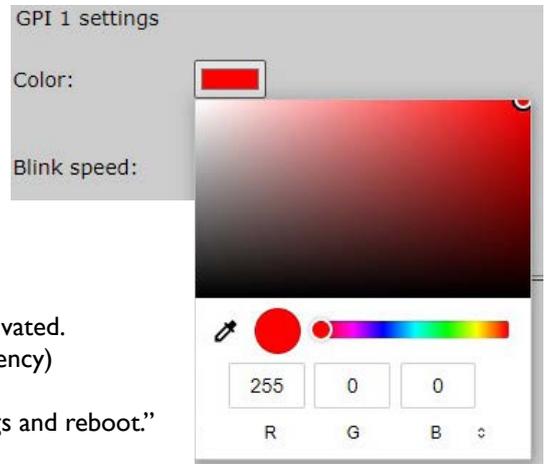
TCP OFF: string to deactivate GPI in this example “OFF1” for GPI 1

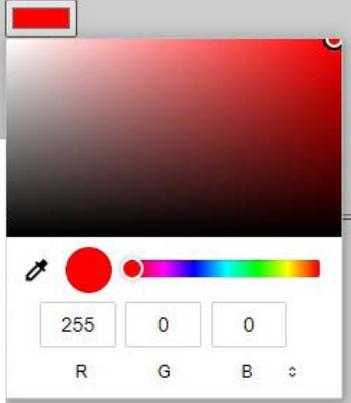


GPI 1 settings
 TCP on: ON1
 TCP off: OFF1
 Color: 
 Blink speed: 

GPI 2 settings
 TCP on: ON2
 TCP off: OFF2
 Color: 
 Blink speed: 

Color: color selection

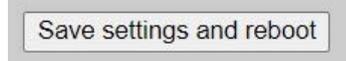


GPI 1 settings
 Color: 
 Blink speed: 

255 0 0
 R G B ↻

Blink speed: If set to left, the color will not be blinking when activated.
 If turned more to the right side, the color will be blinking when activated.
 To adjust the blinking speed (frequency)

To activate and save the settings press “Save settings and reboot.”






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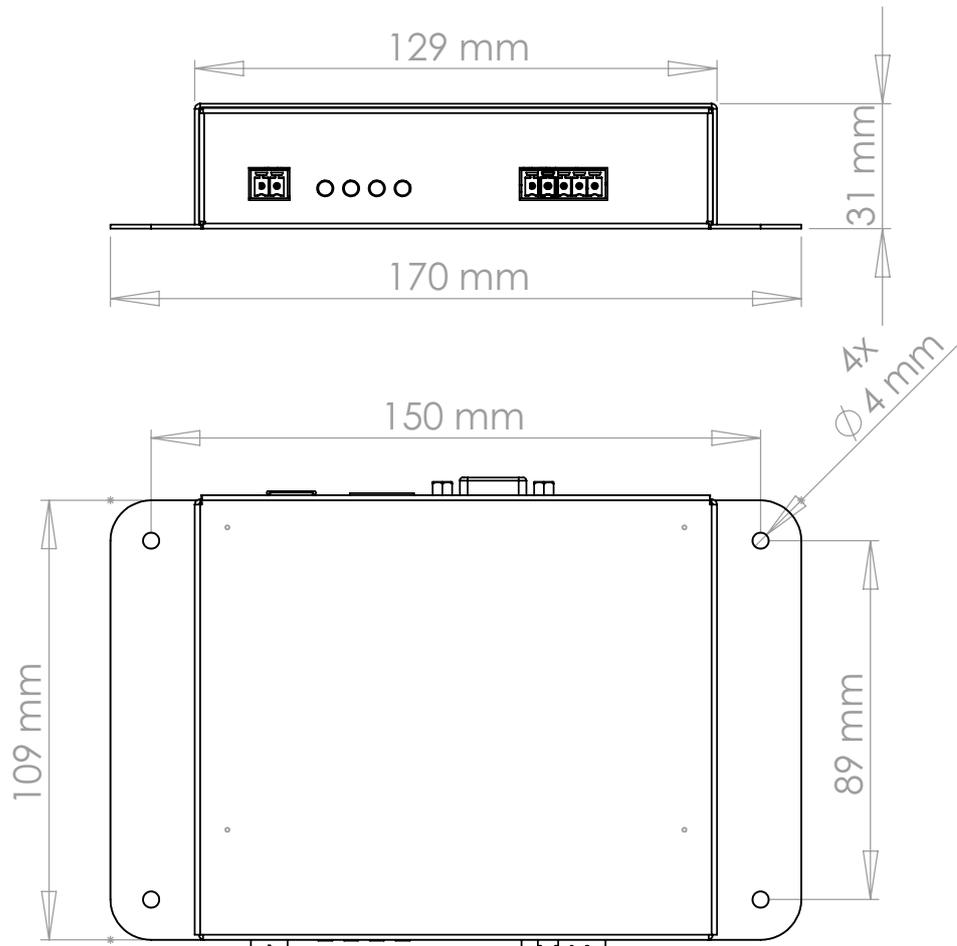
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Dimensions

Dimensions: 170*109*31 mm

Weight: 0.25 Kg



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Safety First!

- Caution: hot and sharp surfaces ! This professional device should only be installed by qualified personnel.
- Check the cardboard box for any damage upon receipt of the goods. In case of a damaged box, please contact your distributor contact your distributor before opening the box.
- Read all documentation before using the unit.
- Keep all documentation for future use.
- Keep the box and packing materials even if the equipment has arrived in good condition.
- Should you ever need to ship the equipment, use only the original factory packaging.
- Do not spill water or other liquids in or on the unit.
- Always use the power supply provided.
- Make sure the outlets match the power requirements listed on the back of the power supply.
- Do not use the unit if the power cord is frayed or broken.
- Turn off and disconnect the devices from the power supply before making any connections.
- Do not use the unit near heaters, heating vents, radiators, or other devices that produce heat.
- Do not use the unit on a surface or in an environment that may interfere with the normal flow of air around the unit.
If the unit is used in an extremely dusty or smoky environment, the unit should be "dusted" periodically.
- Do not remove the cover. Removing the cover will expose you to potentially dangerous voltages.
- In case of malfunction, this unit should only be serviced by qualified service personnel.
- Always follow the instructions of the supplier and manufacturer - Use only manufacturer specified accessories, spare and replacement parts.
- Use the device only for the application the manufacturer intended.

