

SHOWLED

Controller Vision Compact

Manual Version-2.0

1 get with



2 connect



3 control



1 get with it

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SAFETY INSTRUCTIONS



Take care of environmental limits. Do not exceed them.
(See technical information)



The connection cables are NOT mechanical safeties!
If you are not familiar with mechanical safeties, contact us to
provide you with professional advice.
(See contact information)



Do not subject to excessive shock by dropping the unit.



Do not expose the controller to water, rain or direct sunlight.



This controller is designed and tested for driving LEDs; do not use it
for other purposes.



Use only properly grounded power outlets and receptacle.



Make sure to read and understand each connection before connecting it.



Make sure that all connections are made correctly before connecting to Mains.



Always disconnect controller from the mains or power supply when connecting signal leads.



Please make sure that the mains socket is easily reachable.
Do not apply voltage higher than 24V to the controller.



To insure good ventilation in order to prevent fire caused by overheating, do not install or use the controller in a closed space.



Keep minimum distance of 1m between you (or audience) and the LEDs.



Do not stare in to the LEDs, especially when narrow angle LEDs are used.

INTRODUCTION

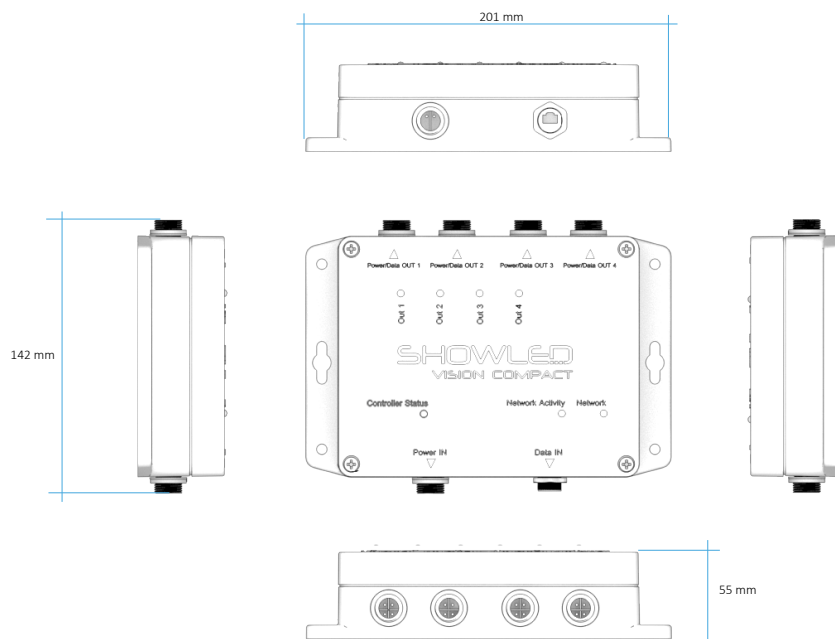
ShowLED Vision Compact is a power/data combined controller for the ShowLED range of RGB or RGBW LED nodes and LED tubes. It is designed to handle large architectural installations and incorporates features to allow for remote monitoring of LED functioning.

Over voltage, over temperature, over current and short circuits are protected and upon the detection of malfunctioning LEDs the output can be programmed to switch off.

The control node has 4 output ports; each output port rated at 5A maximum and upto 24V operation. The ports provide optically isolated differential data for long distance transmissions.

Incoming data, power and operational malfunctions are indicated on the controller

PRODUCT DIMENSIONS



TECHNICAL SPECIFICATIONS

Model : Vision Compact**Part No: SL-VC-002**

Electrical

Supply Voltage	12~24 VDC
Rated Current	5A per output
Output Power	60W per output

Control

ARTNET, sACN (ANSI E1.31)

Firmware

Processing	Internal Gamma Correction (8 to 16 bits)
Configuration	TFTP Upload
IP Address	Default IP 10.210.0.1

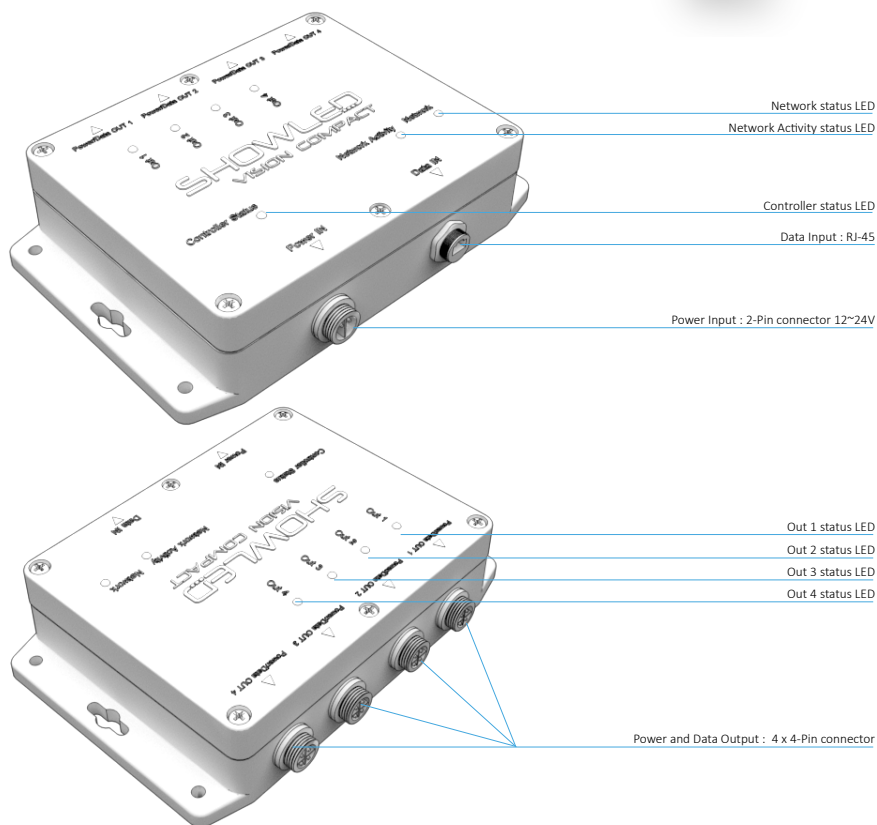
Physical

Dimensions	201 mm (W) x 55 mm (H) x 142 mm (D)
Data Input	RJ-45
Power Input	2-Pin connector 12~24V
Power and Data Output	4 x 4-Pin connector
Operating Temperature	0°C..+50°C, <80% RH
Storage Temperature	0°C..+50°C, <60% RH
Environment	IP66

Certifications

CE, RoHs

CONTROL FUNCTION INDICATORS



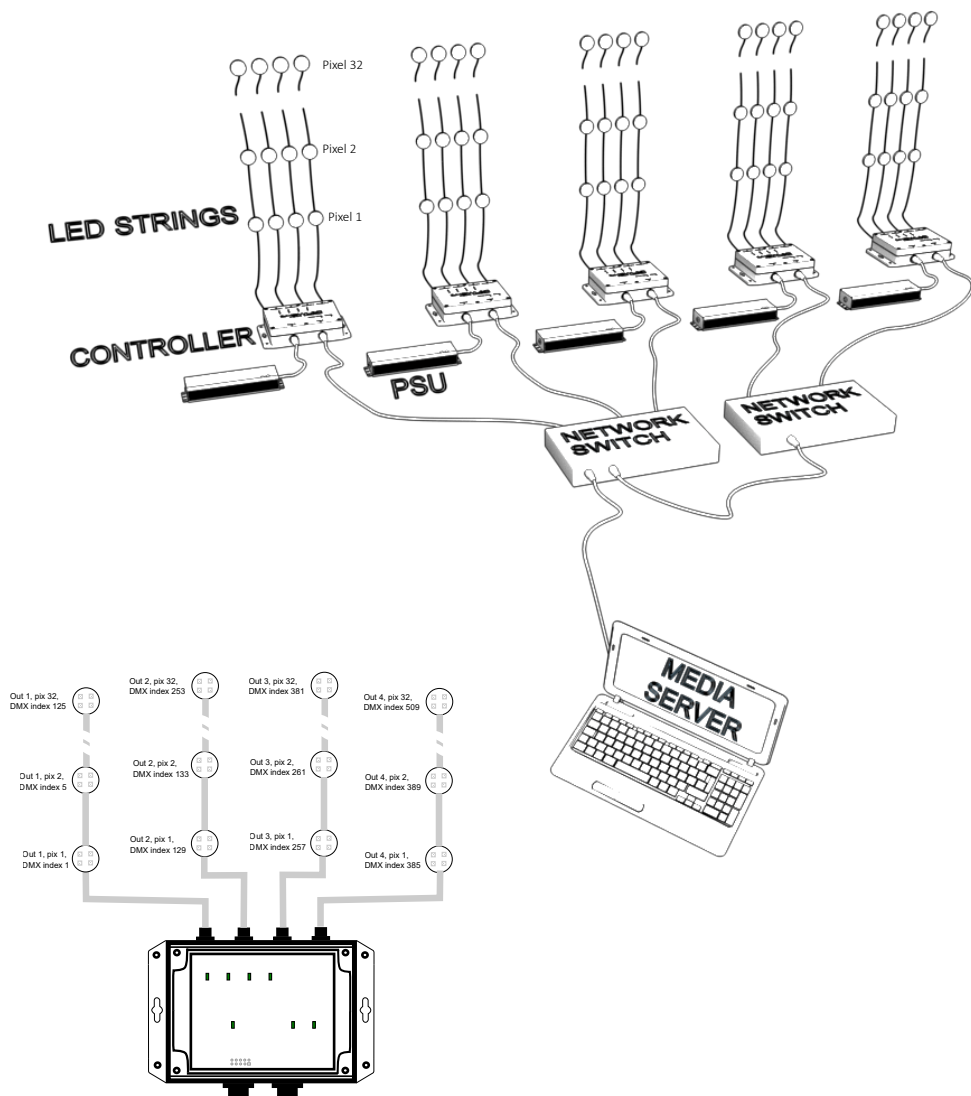
Output status LEDs indicate the power presence on output connectors. Green LED light is good working condition of power and data on string. If the pixel string is connected and the status LED is off, please check Controller status LED. If status LED is off, then check and reconnect pixel string. If status LED is red, there is a short circuit on LED string and port is switched off. Other ports remain active. Controller needs to be rebooted when faulty string replaced to active output port again.

Network status LED is ON (green), when the controller is connected to the network switch.

Network activity LED blinking green indicates successful transfer of the network packets over the network.

CONTROL NETWORK SET-UP

2connect it



One controller drives up to 32 HYBRID RGBW pixels on each output, making a total of 128 pixels and use of 512 DMX channels. Pixel addressing as on image above.

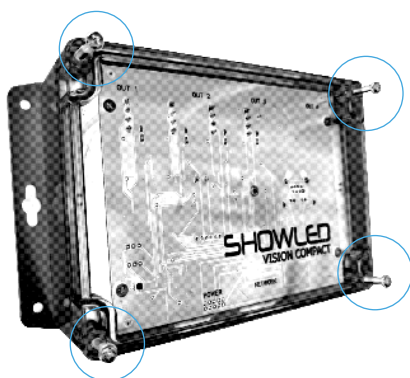
3 control it

CONTROLLER CONFIGURATION

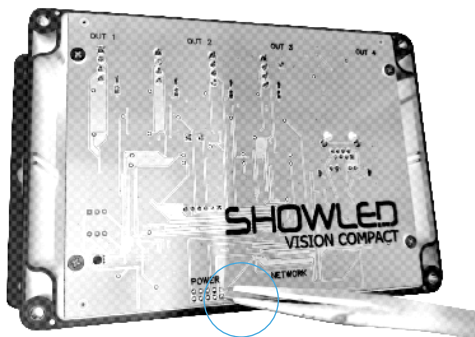
Default IP address of the controller is 10.210.0.1. PC network adapter should be in static IP address mode. Both the controllers and the PC must be on the same local area network (LAN) with IP addresses in the 10.210.x.x range.

The PC can be connected directly to one of the controllers using a network Ethernet cable. To connect more than one controller, use a network switch. Pre-configured controllers can be supplied upon request.

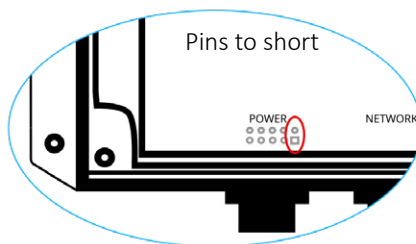
You can reset the IP address of the controller to 10.210.0.1 using the procedure described below.



1. Open 4 screws that are holding the transparent cover and remove the cover.



2. Short pin 1 and 2 of the config connector (near the power input) using tweezers.



3. Apply the power to controller and remove the tweezers, controller will start with default IP:10.210.0.1, use tftp configuration file upload to change IP and universe index(see next page).

Please note that default IP is active only during power up with tweezers. If no new configuration will be uploaded, the controller's previous IP will not change to default.

Close the cover, take care placing the insulation silicone sealer.



CONTROLLER IP AND UNIVERSE ADDRESS SETUP

Changes to internal configuration is done via TFTP protocol. Third party free software like Windows TFTP utility or MacTFTP client should be used to download the file “conf.txt” from the controller.

Conf.txt file example:

IP: 10.210.0.1

MAC: 0.AA.0.77.A0.22

UNIV_IND_OUT: 1

Firmware version: 28

IP and universe index are editable fields. MAC and Firmware version are for read only purposes.

You can change IP and Universe Address. After changing the file save it and write (put via TFTP) back to the controller. Controller will change its configuration immediately.

MULTICAST CONFIGURATION FOR sACN

Use network switches with IGMP2 support. Activate IGMP querier in switch configuration.

SYSTEM DEBUGGING

To find out how many of the controllers are powered up and connected to PC, third party free software like “Advanced IP scanner V2” can be used.

■ Contact Information and Support

Visit the support section of our website at www.showled.com. Here you will find up-to date FAQ's and Tips and Tricks.

Send your questions to info@showled.com, we will reply to you as soon as possible.

Place a call to ShowLED FZC

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Saturdays and Sundays we are closed.



SHOWLED

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