



VELOX

Art-Net SPI Player

Technical Document and User Guide

English

ZENOPIX VELOX

TECHNICAL DOCUMENT AND USER GUIDE

1st Version June 2025

Thank you for choosing Zenopix® VELOX

Please read this booklet and the product user manual before using the product. You can access the user manual on our website.

If you experience any technical issues, you can contact our company using the information below and receive technical support.

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Safe Use

Use the device only in dry environments (indoors). The device has an IP20 rating. Do not use the device in humid environments and avoid contact with water or other liquids. If the device will not be used for an extended period, turn off the power. It is always recommended to use galvanic isolation. Do not remove any parts from the unit or connect it to an ungrounded circuit. Do not connect the device to LEDs that are already powered on. Only connect the unit to controllers and LEDs that are turned off initially. There are no user-serviceable parts inside or outside the interface. Repair service is the responsibility of the manufacturer only. If the interface appears defective, please contact your vendor. After the warranty period has expired, you may contact your supplier or manufacturer to have the unit repaired, if possible, for an individual service fee. This device is intended for use by professionals. It is not designed to be operated by untrained individuals or children.

Warranty Information

Zenopix VELOX is covered by the manufacturer's warranty. For detailed information, please refer to the product warranty certificate or visit our website.

Package Contents

1x Zenopix VELOX

2x Terminal Block Connector

1x Technical Documentation and User Guide

1x Warranty Certificate

NOTE: After opening the package, please check the contents of the package and the condition of the interface! If anything is missing or damaged, contact your supplier. Do not use the device if it appears to be damaged!

Information Regarding Human and please Environmental Health

If the instructions in the user manual are fully followed, this device poses no risk to human health or the environment. The device should not be disposed of as regular waste; it must be taken to collection centers (electronic and electrical equipment recycling points). It should be recycled or disposed of in a way that does not harm nature or human health.

Introduction

Zenopix VELOX is an online SPI controller that operates as an Art-Net to SPI converter. It transmits animation data from a computer or a Zenopix Solus device to LEDs containing an SPI chip. It can be quickly configured and controlled via a web interface. The device features 2 output ports, allowing control of up to 3072 channels per port.

Technical Specifications

Input Voltage Range	12-24VDC (Adapter or Terminal)
Power Consumption	<5 W (During Normal Operation)
Network Protocol	Art-Net SPI
Number of SPI Universes	2 Ports (2x3072 Channels)
Output Ports	3 Pin, 5.08 Terminal
Status LED	6 Units
Ethernet	1xRJ45, 10/100MBit/s
USB	1x Port, USB 2.0, Type-B Socket
Case	DIN Rail Plastic Enclosure
Boyutlar	Rail Type: 105x91x58.5 mm
Operating Temperature	-5°C ~ 65°C
Operating Humidity	20 ~ 70% RH, Non-Condensing
Protection	IP-20

Status LED Codes

POW

This is the power LED. It lights up when the device is connected to a power source.

USB

It lights up when a USB device is connected.

SPI1 ve SPI2

It lights up when data is transmitted to the output ports.

LNK

It lights red when there is no Ethernet connection.

POL

It blinks red when there is no connection, then blinks green.

Reset to Default Factory Settings

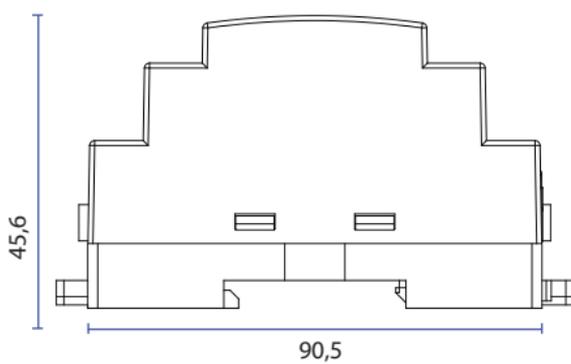
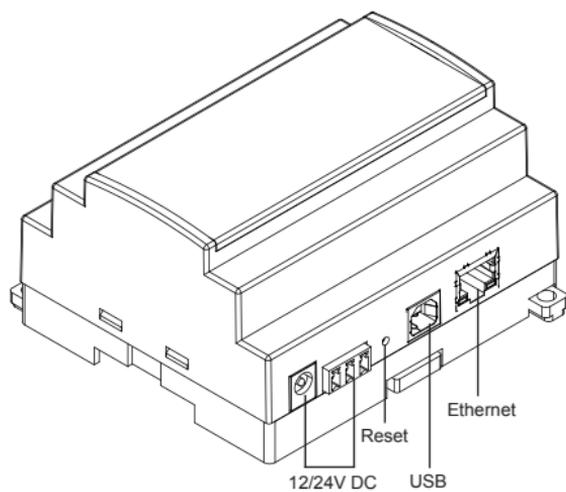
1. Find a suitable tool to press the reset button located on the front of the device.
2. Hold the reset button for 10 seconds.
3. Release the button after all the status LEDs on the front of the device start flashing.

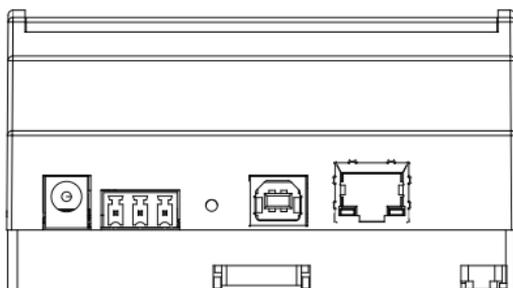
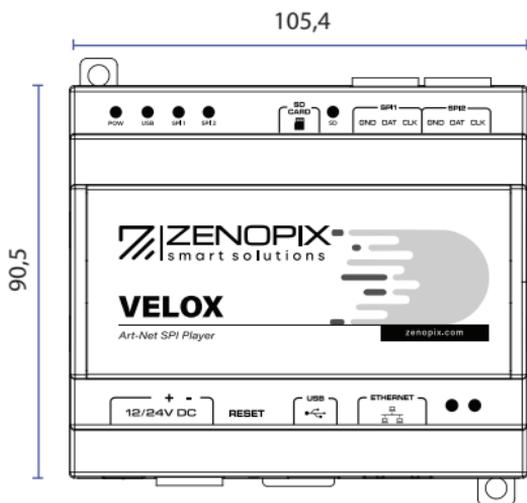
IP Address and Device Information

- Device Serial Number
- Device Model
- Default IP Address

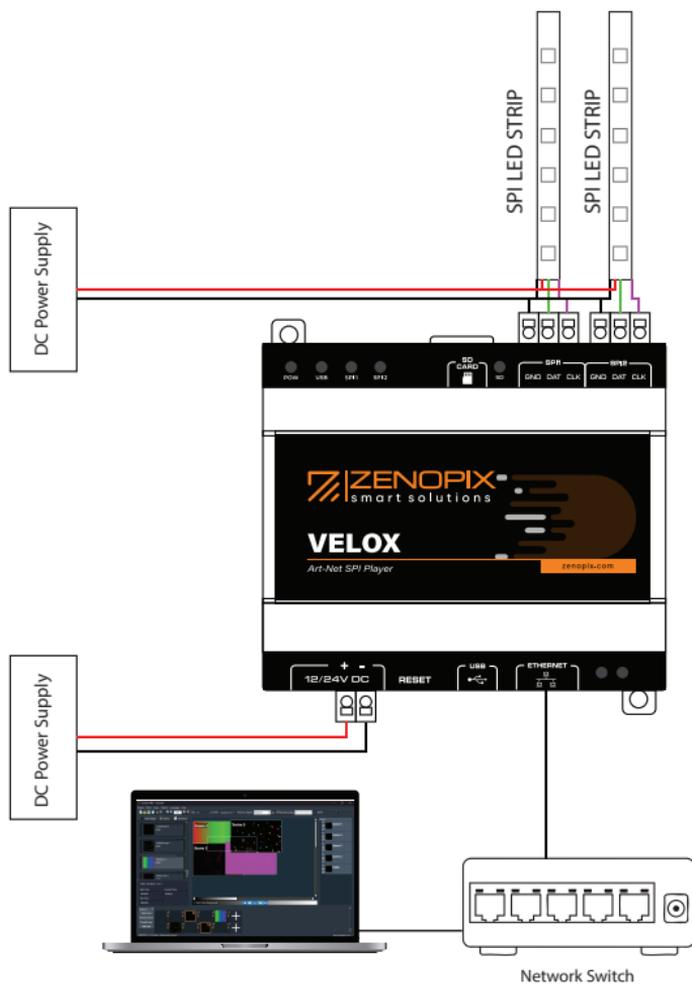
You can find the above information on the device.

Device Technical Drawings





Device and Pin Connections

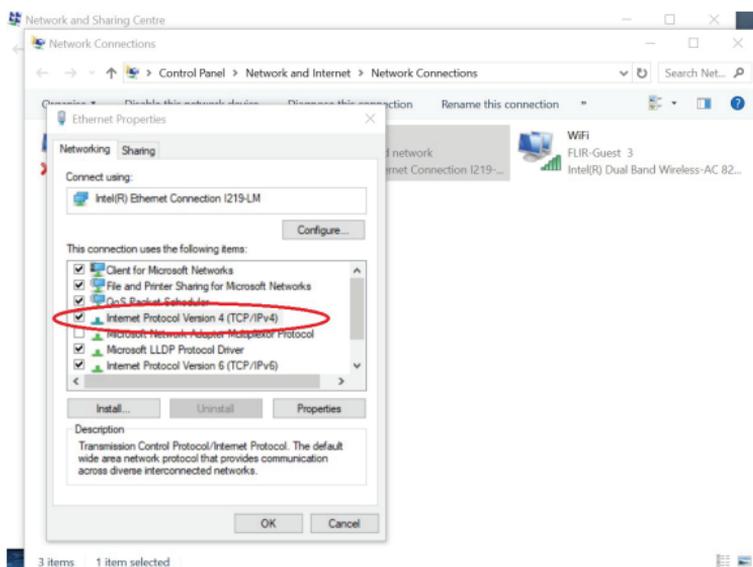


Configuration via Web Browser

You can connect to the Zenopix Velox device from a computer using an Ethernet cable and access the device's IP address, name, port configuration, test section, and version information. The default IP address of the Velox device is 192.168.1.130.

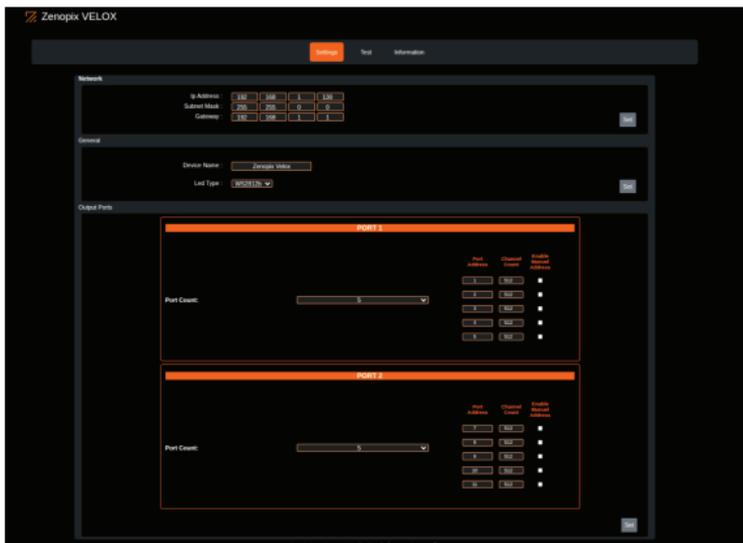
To access the device interface and operate the product with your computer, the device and your computer must be on the same network. You can follow the steps below to achieve this.

- Make the necessary connections for your Zenopix VELOX device and connect it to your computer via Ethernet.
- Configure the IP settings on your computer.



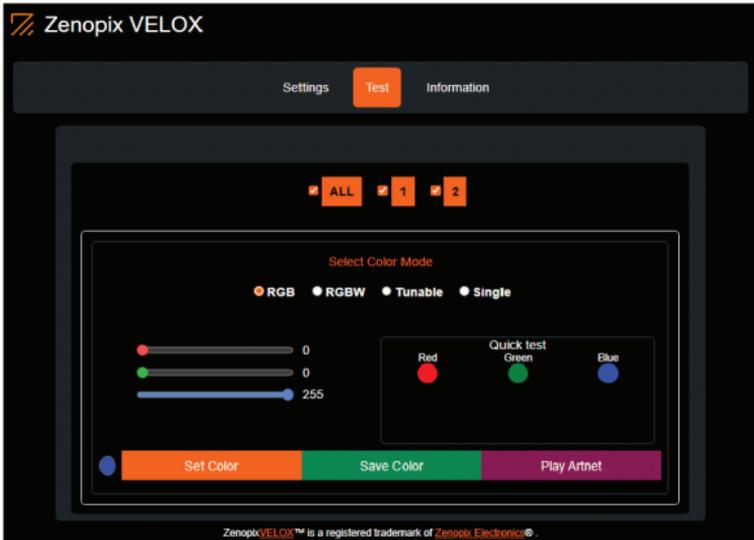


After configuring the necessary IP settings on your computer, you can access the Velox device interface. By entering the default IP address 192.168.1.130 into your browser, the Velox device interface will appear. In the 'Setting' section of the interface, you can configure the device's IP address, name, the SPI chip to be controlled, and how many universes each port will manage. As shown in the example interface image, you can set each port to handle 4 universes. This way, universes 1, 2, 3, and 4 in your animation software will be directed to port 1 of your Velox device.

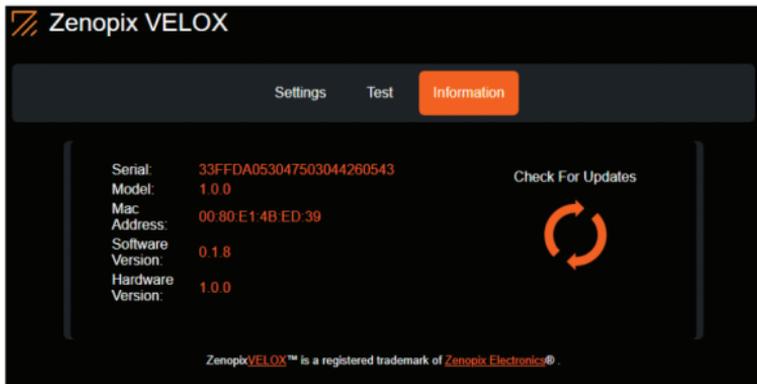


In the test section of the Velox device interface, you can test the LEDs connected to the device. After selecting which output to test, you can set the LED channel layout (RGB, RGBW) and adjust the values you want to send using the buttons on the right and left.

Note: After completing the test, you must press the 'PLAY ART-NET' button; otherwise, the device will not transmit the Art-Net signal.



From the 'Information' tab on the far right, you can view the device's serial number, MAC address, software, and hardware versions. You can also update to the latest software by clicking the refresh button on the right if an update is available.



WARNINGS

1. Products must be installed by qualified professionals.
2. Zenopix products are not waterproof (except for special models). Please avoid exposure to sunlight and rain. When installed outdoors, ensure the product is mounted inside a waterproof enclosure. Proper heat dissipation will extend the product's service life. Please provide adequate ventilation.
3. Please check that the operating voltage used complies with the product's parameter requirements.
4. The wire gauge used must be able to handle the load of the connected lighting fixtures, and the cable connections must be secure.
5. Before powering the products, ensure all cables are correctly connected to avoid damage to the lighting fixtures from incorrect wiring. If a fault occurs, do not attempt to repair the products yourself. If you have any questions, please contact your supplier.
6. This manual is subject to change without prior notice. Product functions depend on the goods. If you have any questions, please do not hesitate to contact us.



Zenopix is an R&D, manufacturing, and technology company specializing in lighting control systems, backed by nearly 20 years of extensive experience in electronics and software.

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