



# AER

Technical Document and User Guide

English

# ZENOPIX AER

## TECHNICAL DOCUMENT AND INTRODUCTION GUIDE

2nd Version June 2025

Thank you for choosing Zenopix® AER.

**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 to receive technical support.**

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## **Safe Use**

Use the device only in dry environments (indoors). The device has an IP rating of IP20. Do not use the device in humid environments and avoid contact with water or other liquids. If you will not use the device for a long time, turn off its power. Galvanic isolation is always recommended. Do not remove any parts from the unit or connect it to an ungrounded circuit. Do not connect the unit to LEDs that are already powered on. Connect the unit only to LEDs and controllers that are initially powered off. There are no user-serviceable parts inside or outside the interface. Repairs are the responsibility of the manufacturer only. If the interface appears defective, please contact your dealer. After the warranty period expires, if possible, you may contact your supplier or manufacturer for repair services for a fee. This device is intended to be used by professionals. It is not designed to be operated by non-professionals or children.

## **Warranty Information**

Zenopix AER 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 AER
- 1x** Power Adapter (Only for XLR version)
- 1x** Cat6 Cable
- 1x** Technical Document and User Guide
- 1x** Warranty Certificate

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

## **Information on Human and 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 must not be disposed of in the trash; it should be taken to collection centers (electronic and electrical equipment recycling points). It must be recycled or disposed of in a way that does not harm human health or the environment.

## Introduction

Zenopix AER is a user-friendly and reliable offline DMX and SPI player. Utilizing 8 universe output ports, Zenopix AER distributes DMX/SPI data effectively over both long and short distances. With Zenopix AER and the Zenopix Art-Net recording software, there's no need for a computer in the field. You can store your DMX/SPI animation data directly onto the Zenopix AER and transmit it to the universe outputs. Animations saved to a micro SD card can be played back to up to 8 universes using a single device, either synchronized or directly sent to a predefined universe without synchronization.

## Technical Specifications

Input Voltage Range	12-24VDC (Adapter or Terminal)
Power Consumption	<5 W (During Normal Operation)
Network Protocol	DMX/SPI
Universe and Channel	8x 1024 DMX/SPI Channel Outputs
Output Ports	3-Pin, 5.08mm Terminal / 3-Pin XLR Female NEUTRIK
Wi-Fi	1x 802.1X/EAP (WPA)
SD Card	1x Class 10 Micro SD Card
Status LED	2 Units
Case	6082 Aluminum
Dimensions	Cabinet Mounting: 483 x 82.5 x 45 mm
Operating Temperature	-10°C ~ 60°C
Operating Humidity	20 ~ 70% RH, Non-Condensing
Protection	IP-20

## Status LED Codes

### Power LED

It is the Power LED. It lights up when the device is connected to power.

### SD Status LED

**Red LED:** Indicates the status of the SD card. The LED lights up if there is any error or when the SD card is removed.

**Green LED:** It blinks every 2 seconds. This indicates that the device is operating correctly.

In reset mode, the red and green LEDs blink 10 times and then restore the Wi-Fi settings to default mode.

## Factory Reset to Default Settings

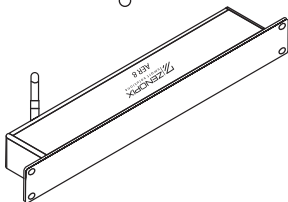
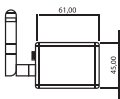
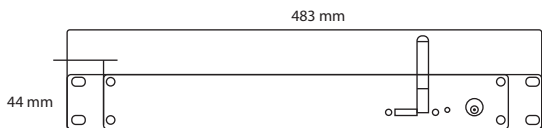
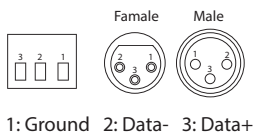
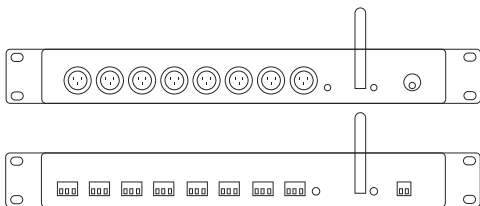
1. On the front side of the device, the reset button
2. Use a suitable tool to press it.
3. Press and hold the reset button for 10 seconds.
4. All status LEDs on the front of the device will light up and release the button after the LEDs turn off.

## IP Address and Device Information

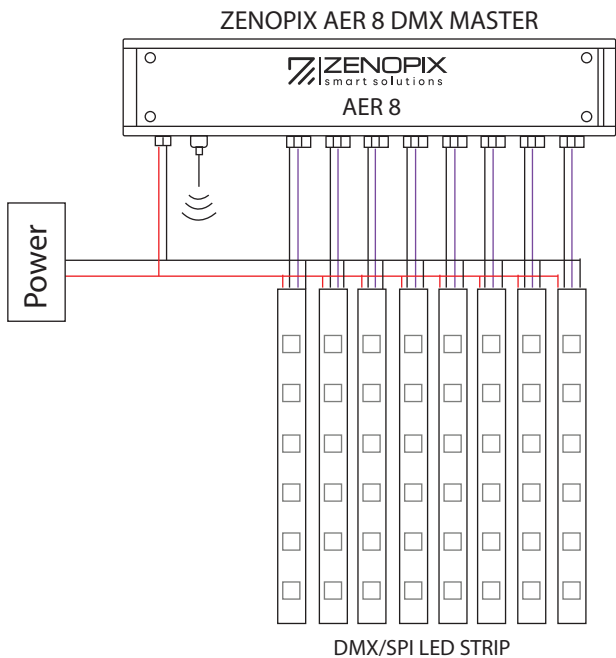
- Device Serial Number,
- Device Model,
- Default IP Address

You can find the above information on the device.

## Device Technical Drawings



## Pin Connections



## Configuration via Web Browser

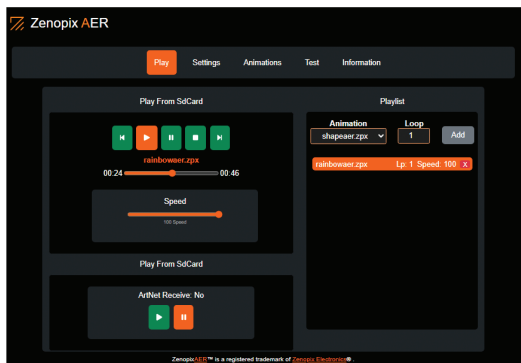
When you connect to Zenopix AER via Wi-Fi, you can easily configure it using the built-in web configuration interface. To do this, your computer must be on the same network as the AER.

### 1. Configuration via Wireless Access Point

The AER device is initially set as a standalone wireless access point by default. Connect your computer to the Wi-Fi network named Zenopix AER 8. Then, open a web browser and enter the IP address 192.168.4.1 to access the device's web interface.

Wi-Fi Password: zenopix123

**Note:** You can download detailed configuration information for the web interface from [www.zenopix.com](http://www.zenopix.com).



When you access the interface, the Playlist appears on the right panel under the Play tab. This section displays the animations currently stored on the SD card and the one that is currently playing. The left panel allows you to stop or skip animations.

Zenopix AER

Play **Settings** Animations Test Information

Access Point Mode Client Mode

Wi-Fi

SSID:

Password:

• Wi-Fi SSID and Password are valid for the selected mode(Access Point Mode/Client Mode).  
• If you want to change the mode, you must press the same button.

Save

Network

IP Address:

Subnet Mask:

Gateway:

Save

General

Device Name:

Save

Led Type

Led Type:

Save

Port Address(es) output port(s)

Port1:

Port2:

Port3:

Port4:

Port5:

Port6:

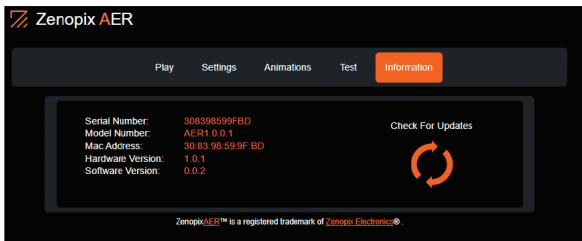
Port7:

In the Settings panel, you can modify the device name, password, IP address, port settings, and the DMX/SPI output configuration.



In the Test tab, you can select which port to apply the test color to. After selecting the number of channels for the chip, you can perform testing and channel counting.

In the leftmost Information tab, the device's serial number, software version, and hardware version are displayed.




## **WARNINGS**

1. Products must be installed by qualified professionals.
2. Zenopix products are not waterproof (except for special models). Please avoid exposure to sun and rain. When installed outdoors, ensure the device is mounted inside a waterproof enclosure. Proper heat dissipation will extend the product's lifespan. Please provide adequate ventilation.
3. Please ensure that the operating voltage used complies with the product's specified parameter requirements.
4. The wire gauge used must be capable of handling the connected lighting fixtures' load, and the cable connections should be secure and reliable.
5. Before powering on the products, please ensure all cables are correctly connected to avoid any damage to the lighting fixtures caused by incorrect wiring. If a malfunction 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 specific items. 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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