ZENOPIX smart solutions

Your Solution Partner in Lighting Control

MAGUS

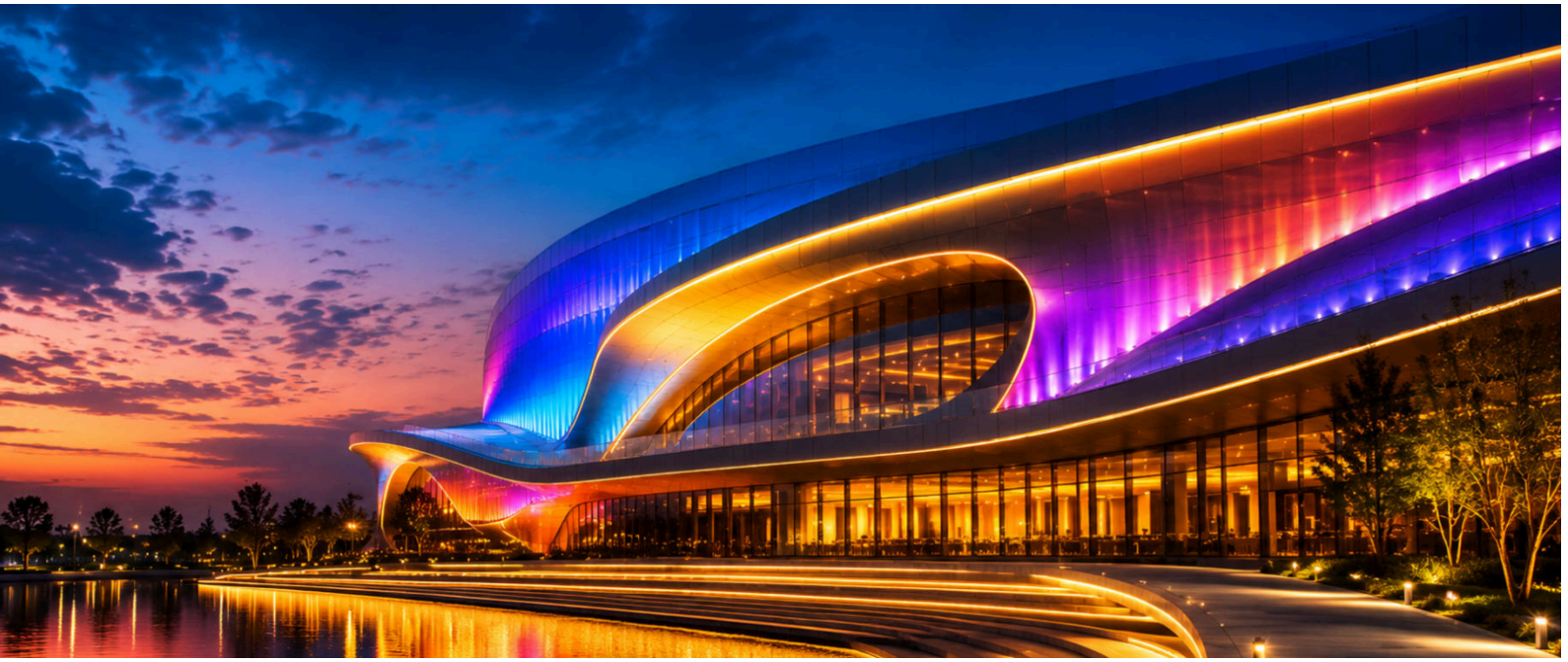
ONLINE ART-NET RDM/DMX CONTROLLER

INTRODUCTION GUIDE AND TECHNICAL DOCUMENT



Version 3 / October 2026

zenopix.com



Thank you for choosing Zenopix Magus.

Please read this user manual before using the product. The user manual is available on our website. If you experience any technical problem, 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 IP rating of the device is IP20. Do not use the device in humid environments and avoid contact with water or other liquids. Switch off the power if you will not use the device for a long time. The use of galvanic isolation is always recommended. Do not remove any part from the unit or connect it to an ungrounded circuit. Do not connect the unit to LEDs that are switched on. Connect the unit only to LEDs and controllers that are initially switched off. There are no user-serviceable parts inside or outside the interface. Repair service is the sole responsibility of the manufacturer. If the interface appears to be defective, please contact your dealer. After the warranty period has expired, you can contact your supplier or the manufacturer about having the unit repaired, if possible, for a service fee. This device must be used by professionals. The device is not designed to be operated by non-professionals or children.

Warranty Information

Zenopix Magus comes with a standard 2-year manufacturer's warranty, with an optional 3-year extension for a total of 5 years. Detailed information is available in the product warranty certificate or on our website.

Box Contents

1× Zenopix Magus

2× 1*3 Female Terminal Block

1× 1*2 Female Terminal Block

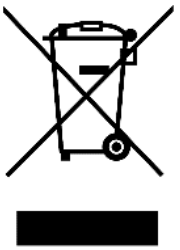
1× Technical Document and Introduction Guide

1× Warranty Certificate

1× Device Test Report

NOTE: After opening the package, 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 damaged!

Information on Human and Environmental Health



If the information in the User Manual is fully followed, this device poses no risk to human health or the environment. The device must not be disposed of with household waste; it must be delivered to an electrical and electronic equipment recycling center. It must be recycled or disposed of without harming nature or human health.

Introduction

Zenopix Magus is a professional Art-Net RDM & DMX controller designed to simplify the commissioning and management of **RDM**-based DMX lighting systems. Using the **RDM** (ANSI E1.20) protocol for remote device management and the **Zenopix Explorer** software (under a Free License), Magus automatically detects and addresses compatible RDM/DMX decoders, significantly reducing installation time and eliminating the need for manual device configuration.

RDM-enabled fixtures, once configured with the **Zenopix Magus** device, receive uninterrupted data transmission over DMX control. Integrating directly with Art-Net networks, this structure offers fast installation, precise control and stable operation in architectural lighting, stage productions, entertainment venues and large-scale installations. Testing and quick configuration further speed up the commissioning process.

- Converts Art-Net packets to RDM and DMX outputs.
- Provides control by forwarding Art-Net RDM and DMX data to connected devices.
- Enables addressing, reading sensor data from and controlling RDM-enabled lighting devices.
- Has two RDM/DMX ports with a maximum total capacity of 2048 (1024x2) channels.
- RDM addressing and monitoring can be performed with the free **Zenopix Explorer** software.

Safety Instructions

To prevent misuse of the device, damage or personal injury, please follow the instructions below:

⚠️	This device operates at low voltage (12-24VDC). Do not use lower or higher voltages.
⚠️	External USB Power Supplies: Using unapproved units may pose a risk. Please do not use the USB port on the device to supply power to external devices.
⚠️	Any external power supply to be connected to the device must be fused according to its output power and/or protected against short circuits.
⚠️	It is the user's responsibility to protect the device against lightning, electric shock and high-voltage surges. Make sure that all necessary electrical surge protection measures have been taken at the installation site.

Technical Specifications

Feature	Value
Input Voltage Range	12-24VDC (Adapter or Terminal Block)
Power Consumption	<8 W (During Normal Operation)
Network Protocol	Art-Net 4 RDM/DMX
Number of RDM / DMX Universes	2
Number of RDM / DMX end devices (per universe)	32 (Recommended) 170 (Maximum RGB fixtures)
Number of RDM / DMX channels	512 Channels for RDM (recommended) 1024 channels for DMX (with RDM off)
Maximum FPS	512 Channels 40FPS, 1024 Channels 20FPS
Output Ports	3 Pin, 5.08 Terminal
Status LEDs	6
Ethernet	1x RJ45, 10/100Mbit/s
USB	1x Port, USB 2.0, Type-B Socket
Software Update	Via USB Port and Internet
Enclosure	DIN RAIL Plastic Box
Dimensions (Rail Type)	105.14 x 103.12 x 57.04 mm (L x W x H)
Weight	160g
Operating Temperature	0°C ~ 60°C
Operating Humidity	20 ~ 70% RH, Non-Condensing
Storage Temperature and Humidity	-10°C ~ 70°C, 0 ~ 70% RH, Non-Condensing
Protection	IP20

Certificates	CE, RoHS

Status LED Codes

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

USB
Used for device software updates; lights up when a USB connection is made.

DMX1 and DMX2
Light up when data is sent to the output ports.

LNK
Lights red when there is no Ethernet connection.

POL
Blinks red when there is no connection and green when connected.

Resetting to Factory Default Settings

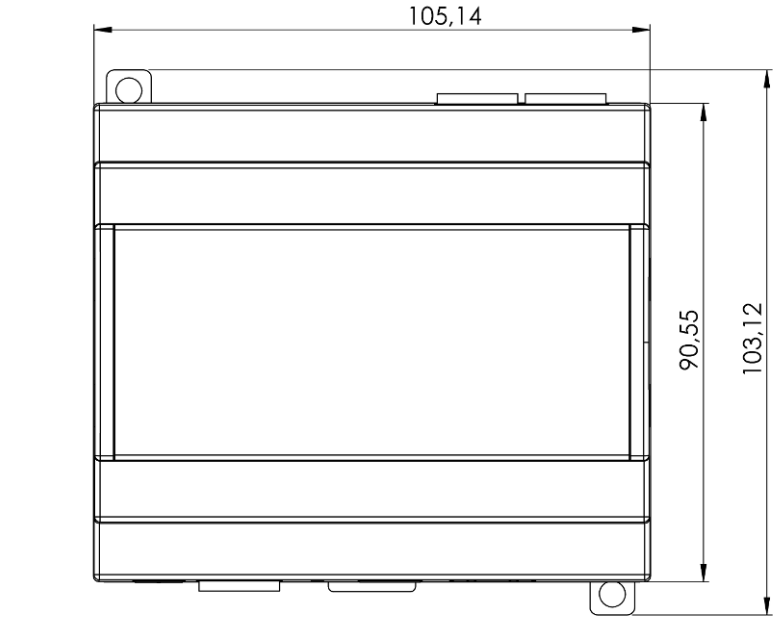
- Find a suitable tool to press the reset button located on the front of the device.
- Press and hold the reset button for 10 seconds.
- Release the button after all status LEDs on the front of the device have blinked.
- *If the process fails, repeat the steps.*

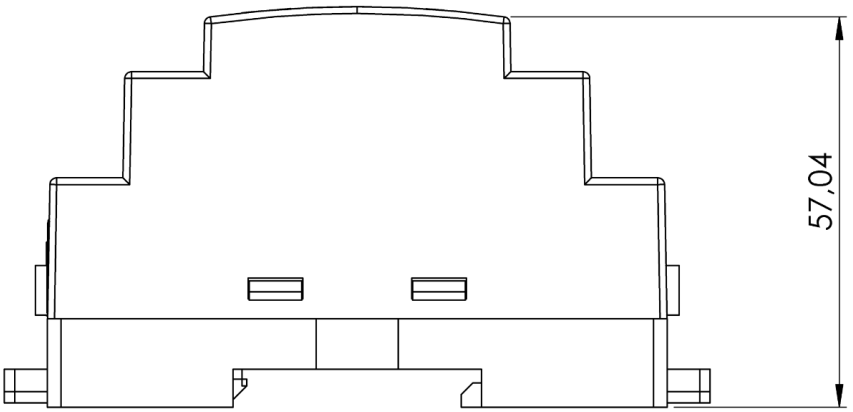
IP Address and Device Information

- Device serial number
- Device Model
- Default IP address

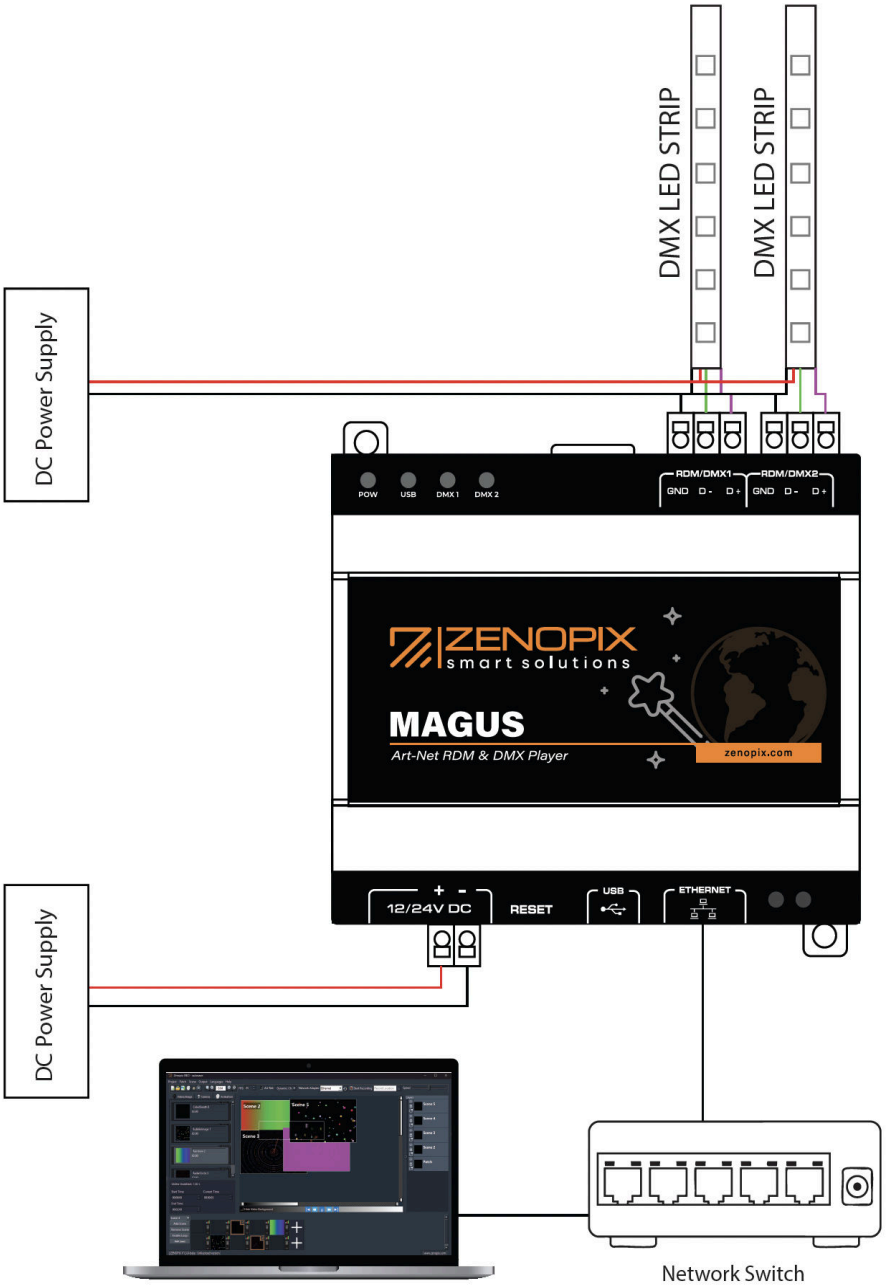
You can find the above information on the device.

Device Dimensions





Device and Pin Connections



RDM / DMX connection

When making the RDM / DMX connection, connect the devices in a daisy-chain structure (so that the DMX output of one device is connected to the DMX input of the next device). Never use a Star topology on the DMX line. Make the cable connections between terminals bearing the same name label*¹. It is recommended to use cables specifically manufactured for RS485*². Do not route RDM/DMX signal lines near power lines carrying high voltage or high current (for example, asynchronous motor supply cables). For reliable signal transmission, connect a 120 Ω termination resistor to the DMX/RDM output of the last device (at the end of the line). Extending your DMX cables beyond 100 meters without a repeater is not recommended.

*¹ Cable labeling may vary between manufacturers. In Zenopix and general standard products, the DMX Data + (D+ or DP) pin corresponds to pin A, and the DMX Data- (D- or DN) pin corresponds to pin B. This may differ for some manufacturers. If the receiving fixtures do not receive a signal, you can swap the wires.

*² **Recommendation:** Belden cable recommendations for DMX cable are given below. Make sure any alternative cable you purchase is a twisted-pair cable with an impedance of 120 Ω. If the cable will be used outdoors, choose cables with high UV resistance.

Area of Use	**Cable Type / Feature**	**Recommended Belden Cable**	**General / Local Code Equivalent**
Indoor	Standard (PVC Jacket)	Belden 9841	LI2Y(St)CH / LIYCY(TP)
Indoor	Halogen-Free (LSZH/ HFFR)	Belden 9841NH	LI2Y(St)CH
Outdoor	UV Resistant	Belden 3105T	LI2Y(St)C2Y
Outdoor	Armored (Underground Runs)	Belden 9841LS	LI2Y(St)C2Y-SWA

Power Connection

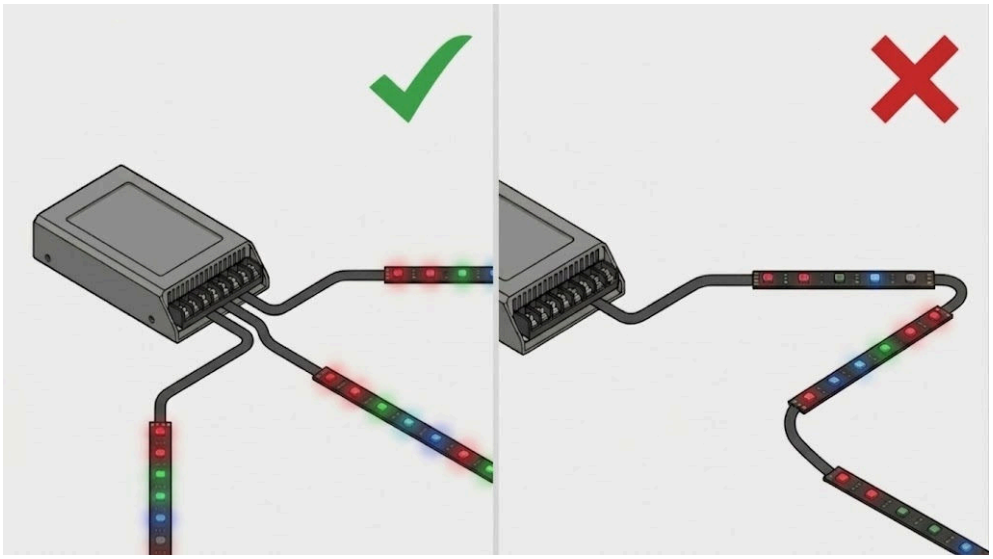
Magus Device power:

The device can operate at 12-24VDC. The device has reverse-polarity protection, but make sure the polarity is correct during installation.

The device has two power inputs: a 2.1 mm barrel jack and a 5.08 mm terminal block. Do not power the device from both at the same time; one connection is sufficient. If you use an adapter, use one of at least 12W (for example, 24V >=0.5A).

Recommendation: For panel or DIN rail installations, we recommend the following power supplies: Mean Well HDR-15-24, DRC-24V015W1RZ or Omron S8VK-G01524.

Warnings About LED Power Connection

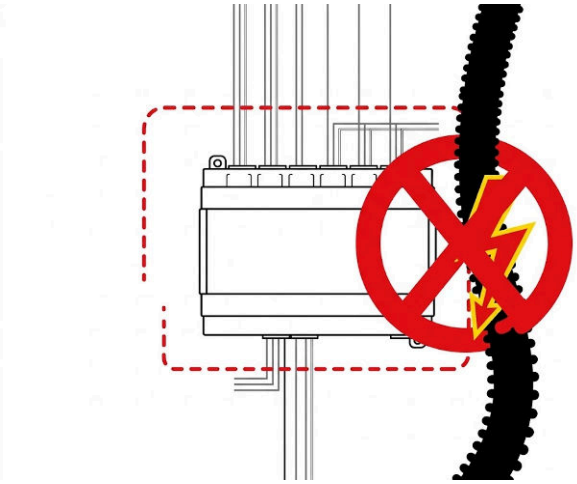


In high-current applications (>5A), it is recommended to power your LED segments directly from the power supply and distribute the power in a star topology. When doing this, the data must still be carried in a daisy-chain arrangement.

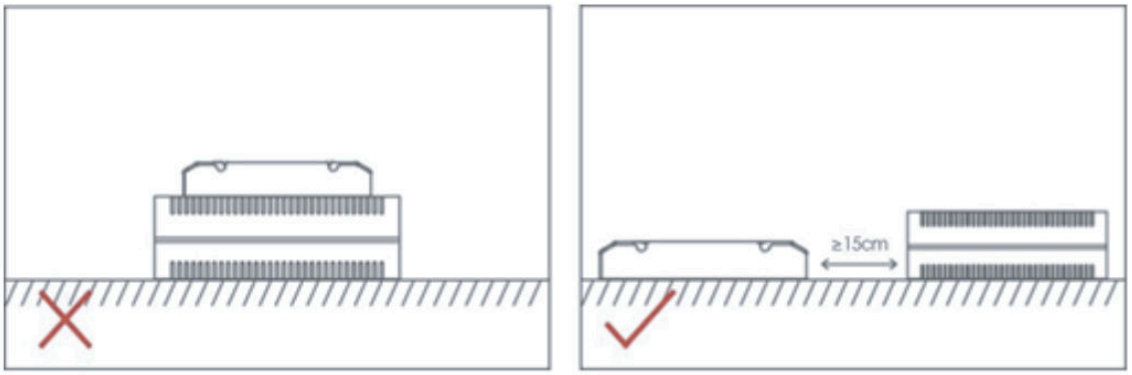
Especially for flexible LED installations, we recommend powering the LEDs from both ends to prevent voltage drop from dimming the white light or

shifting its color temperature at the ends. For more details, see the datasheet of your LED.

Installation and Precautions



Isolation of the signal lines is critical for stable operation of the Zenopix Magus device. Routing high-current/high-voltage cables near the device body or terminal connections may cause fluctuations in the output signals or permanent damage to the hardware. Isolate the device from high-current and high-voltage cables.



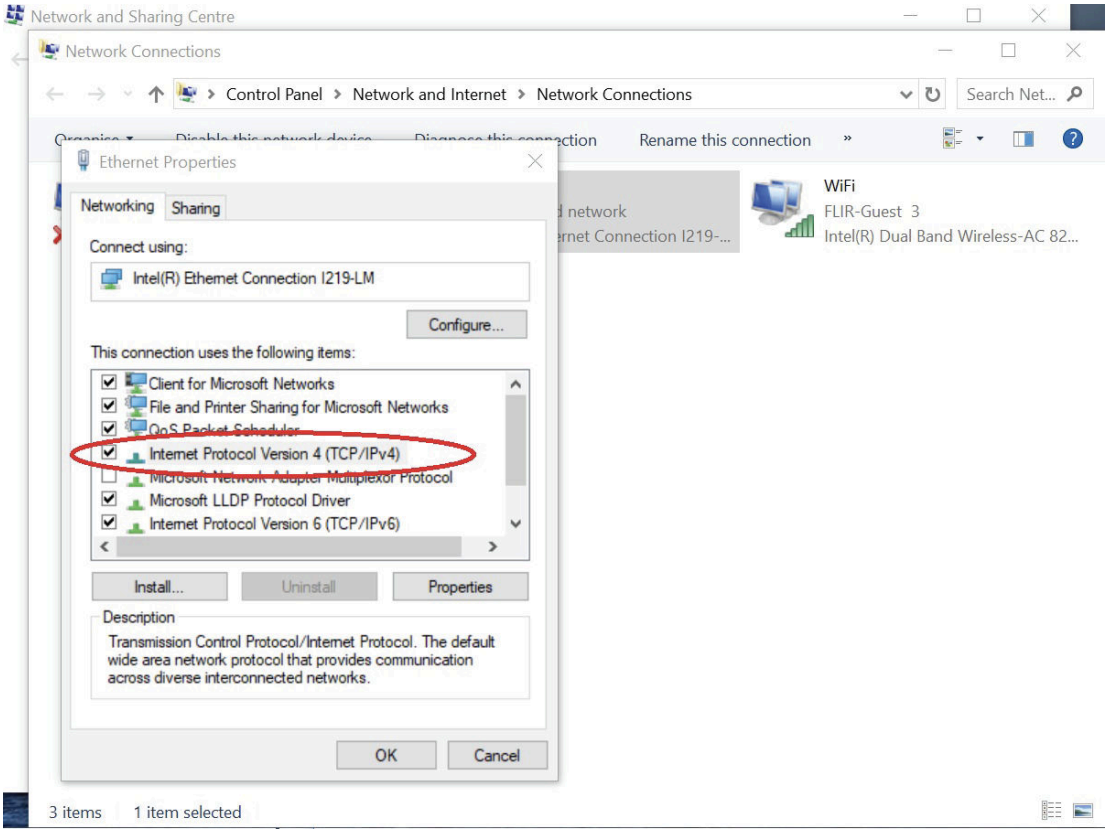
Please do not place the products on top of LED drivers. Leave **at least 15 cm** between the product and the driver to ensure proper heat dissipation and to prevent shortening the service life of the devices.

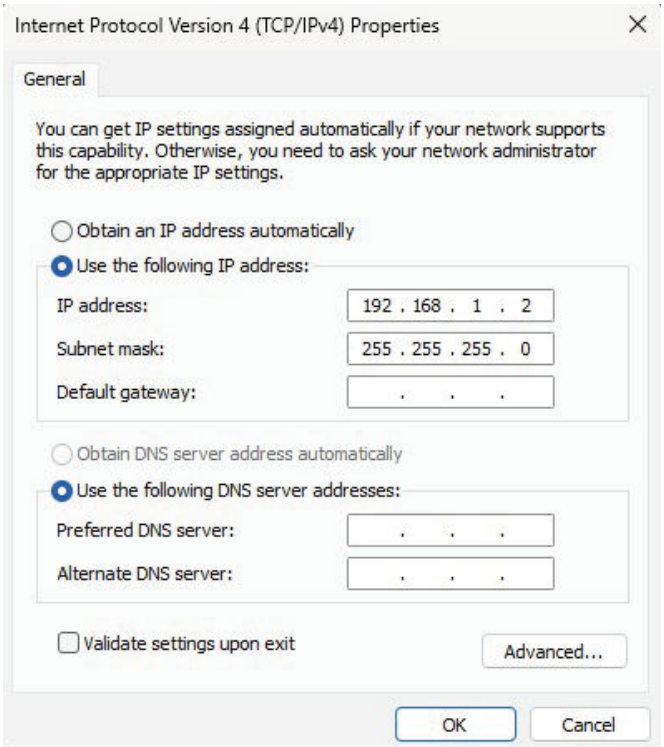
Network Configuration

You can connect to the Zenopix Magus device from a computer with an Ethernet cable and access the device's IP address, name, port configuration, test section and version information. The default IP address of the Magus device is **192.168.1.230**.

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

- Make the necessary connections of your Zenopix Magus device and connect it to your computer via Ethernet.
- Configure your computer's IP settings.





After your computer's IP configuration is done, the Magus device interface can be accessed. Entering the default IP address **192.168.1.230** in the browser opens the Magus device interface.

Configuration via Web Browser

When you connect Zenopix Magus to an Ethernet network, you can manage network, Universe, RDM, test, addressing, system and firmware update functions via the built-in web interface. The computer and Magus must be on the same network.

Follow the steps below to configure the device:

1. Connect Zenopix Magus and your computer to the same network.
2. Assign your computer a suitable IP address from the same subnet. Example: 192.168.1.10 / 255.255.0.0.
3. Open your web browser and enter the IP address of Magus.

Default network settings:

IP Address: **192.168.1.230**

Subnet Mask: **255.255.0.0**

Gateway: **192.168.0.1**

Web Interface and Firmware Functions

Menu names are given as they appear in the device interface. In normal use, ArtNet MODE must be selected; return to this mode when service tests are completed.

General Network Settings and Output Ports

- **IP Address:** The device's address on the network. Each field is in the range 0–255.
- **Subnet Mask:** Defines the local network boundary of the device. The factory value is 255.255.0.0.
- **Gateway:** Used to access networks outside the local network and the update server.
- **SET NETWORK:** Writes the network settings to non-volatile memory and refreshes the network interface with the new IP.
- **Device Name:** Defines a short name of up to 17 characters to identify the device on the network.
- **Failsafe Mode:** Selects the behavior to apply if no Art-Net data is received for 10 seconds.
- **Release DMX Line:** No blackout or last-look refresh is applied after an interruption.
- **Hold Blackout:** Sets all outputs to 0 and maintains the blackout state.
- **Hold Last Look:** Maintains the last received Art-Net frame on the outputs.
- **Output Port Configuration:** The Global Universe and RDM status are set for the two outputs. The interface automatically calculates the Net, Sub and Uni fields; the DEVICES field shows the number of RDM end devices found; SAVE OUTPUTS saves the port settings.

Important Note: *If Magus will be used only as an Art-Net DMX controller, it is recommended to disable the RDM feature on unused ports for uninterrupted transfer of animation data.*

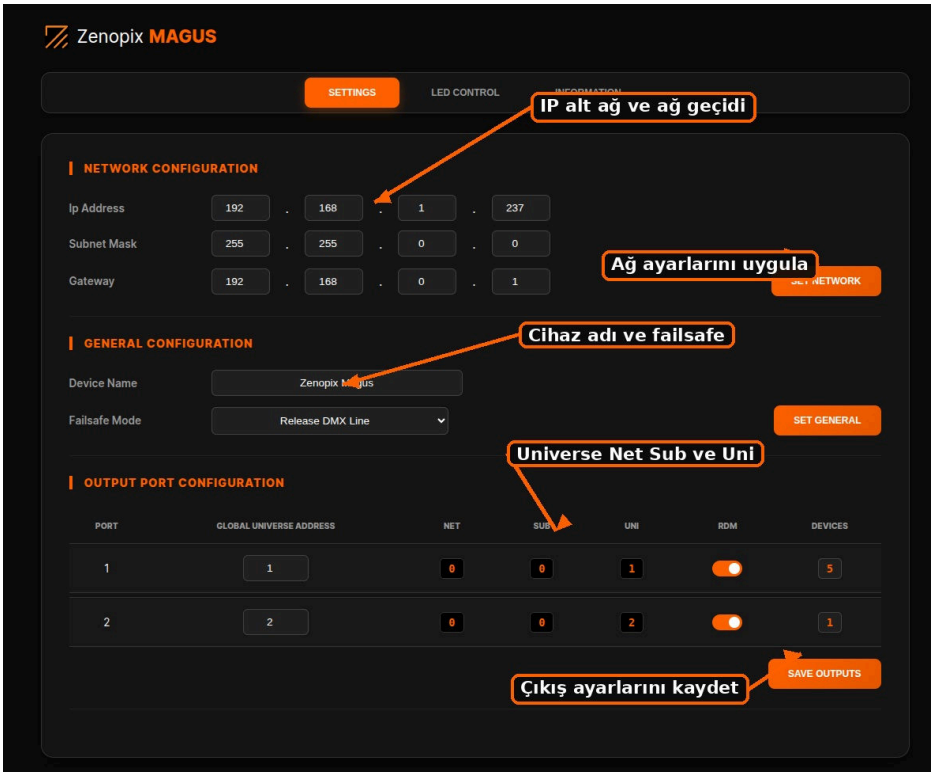


Figure: General network settings, output Universe and RDM configuration

RDM Configuration and Device Discovery

Magus can communicate bidirectionally with RDM-enabled fixtures and decoders on its two output ports. The RDM switches in the web interface work independently for each port; the DEVICES field shows the number of RDM end devices found by the firmware scan.

1. Connect the RDM-enabled devices to the relevant DMX output and use a 120 Ω terminator at the end of the line.
2. In the OUTPUT PORT CONFIGURATION section, set the Universe value of the port to be used.
3. Turn on the RDM switch of the relevant port and press the SAVE OUTPUTS button.

4. Wait for the firmware to complete the scan; check the number of devices found in the DEVICES field.

5. Use Zenopix Explorer for RDM device addressing, identity information and the Identify function.

- **Recommended number of devices:** For reliable communication, 32 RDM devices per Universe are recommended; the theoretical upper limit is 170 RGB fixtures.

- **Uninterrupted Art-Net playback:** RDM should be enabled only on the ports where it is needed. RDM discovery and queries run between normal DMX packets. Intensive discovery or bulk configuration can temporarily affect the DMX refresh rate. For critical live shows, we recommend performing extensive RDM operations outside show hours.



Figure: RDM enabling, number of devices found and save controls

LED Control Mode

- **ArtNet MODE:** The normal operating mode. Art-Net data arriving at the selected Universe values is transferred to the DMX outputs.

- **LED CONTROL MODE:** Opens the manual color, channel counter and addressing tools. When a test command is applied, external Art-Net data is not processed.

During the test, the red warning bar at the top indicates that external Art-Net data is being ignored.



Figure: ArtNet MODE and LED CONTROL MODE selection

Manual Color and Output Test

1. Turn on the switch for each port you want to test (Port 1, Port 2 or both).
2. Enter the number of channels to test in the TOTAL TEST CHANNEL COUNT field. The firmware range is 1–1024; the factory value is 512.
3. Select the channel count using the 1-CH through 5-CH options.
4. Select the color each channel represents and set its value to a number from 0 to 255.
5. Press the SAVE COLOR button if you want the device to start in test mode with these settings after a power cycle.

SAVE COLOR saves the color, port, channel count and test length to non-volatile memory. To exit the saved test mode, ArtNet MODE must be selected.

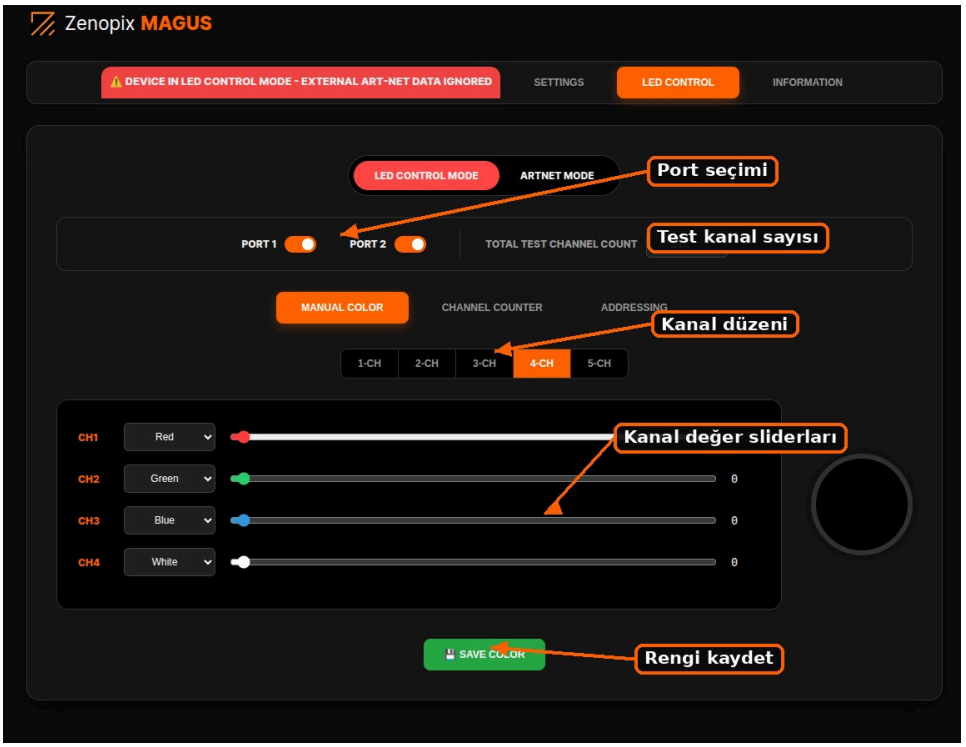


Figure: Manual color test fields

Channel Counting

The channel counter cycles between the start and end addresses on the selected outputs, setting only one channel to 255 at a time. This way, channel order, address mapping and line continuity can be verified.

- **START ADDR and END ADDR:** Define the scan range. Values must be between 1 and 1024.
- **SPEED:** Sets the time between steps from 20 to 2000 ms. Lower values give a faster scan.
- **PREV and NEXT:** Go to the previous or next channel; wrap around at the ends of the range.
- **PLAY and PAUSE:** Start or pause automatic stepping.
- **STOP:** Stops stepping and returns the counter to the start address.



Figure: Channel counter speed and navigation controls

Pixel and IC Addressing

The ADDRESSING tool sends an addressing sequence from the selected ports to addressable DMX LED drivers. A wrong IC type or channel count may cause unexpected addressing; verify against the fixture manufacturer's datasheet.

1. Enable only the output ports connected to the devices you want to address.
2. Enter the Start Address and End Address range.
3. Select the 1-CH–5-CH value that matches the pixel structure of the fixture.
4. Select the driver IC from the IC Type list.
5. Enter the number of pixels that will share the same address in the Pixel Group Size field.

6. Press the START ADDRESSING button and do not turn off the device until the process is complete.

Supported IC types: TM512, UCS512C, SM16512, SM18522, GS8511, GS8512, GS8513, GS8515, GS8516, GS8516B, GS8521, GS8523, GS8524, GS8525 and GS8526.

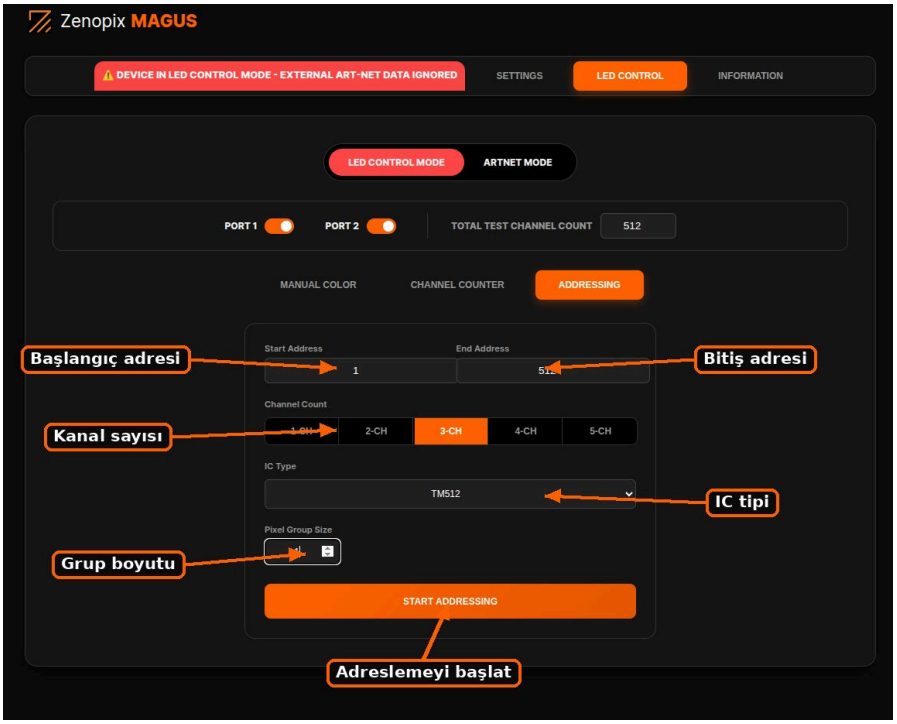


Figure: Pixel and IC addressing fields

System Information and Management

- **System Information:** Shows the serial number, model name, MAC address and installed firmware version.
- **FACTORY RESET:** Restores user settings to factory values and restarts the device.
- **SYSTEM REBOOT:** Restarts the device via software without deleting settings.

System Updates: Connects to the update server and starts the installation when a suitable package is found.



Figure: System information, update and management fields

Online Firmware Update

- **Connection:** Ethernet, IP, subnet, gateway and internet access must be working.
- **Power:** Must not be interrupted during download, verification and finalization.
- **Timing:** Do not update during a critical stage event or show; the device will restart.

4. Press the System Updates icon on the INFORMATION page.
5. Watch for the Connecting to server, Requesting info or Waiting for response message.
6. If a new version is found, verify the version number and press the START UPDATE button.
7. Keep the update page open and maintain the network connection and power until Downloading reaches 100%.

8. After the Transfer Complete Finalizing update DO NOT power off message, wait for the device to restart.

When you reconnect, check the Firmware Version field.



Figure: Waiting for a response from the update server

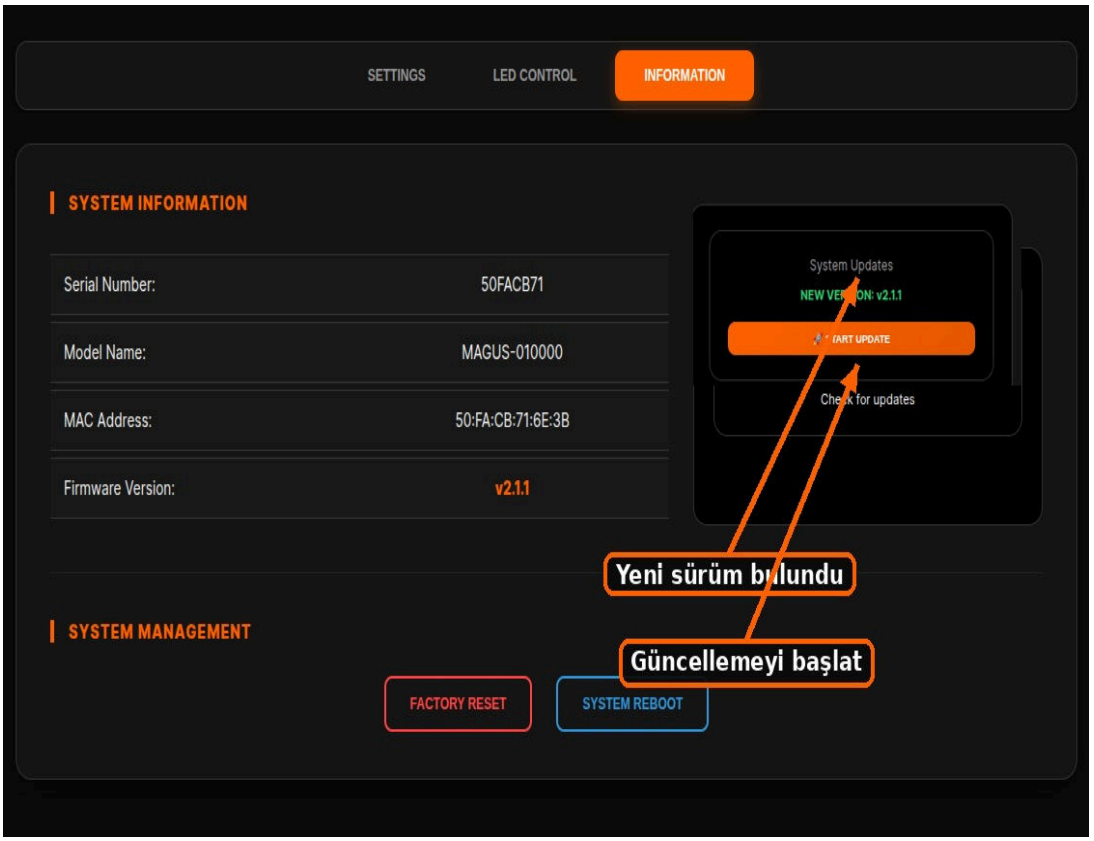


Figure: New version and START UPDATE button

Update Progress and Finalization

During download, a percentage and a progress bar show the progress. Once the download reaches 100%, the device finalizes the firmware package; keep the device powered on and leave the network connection unchanged.

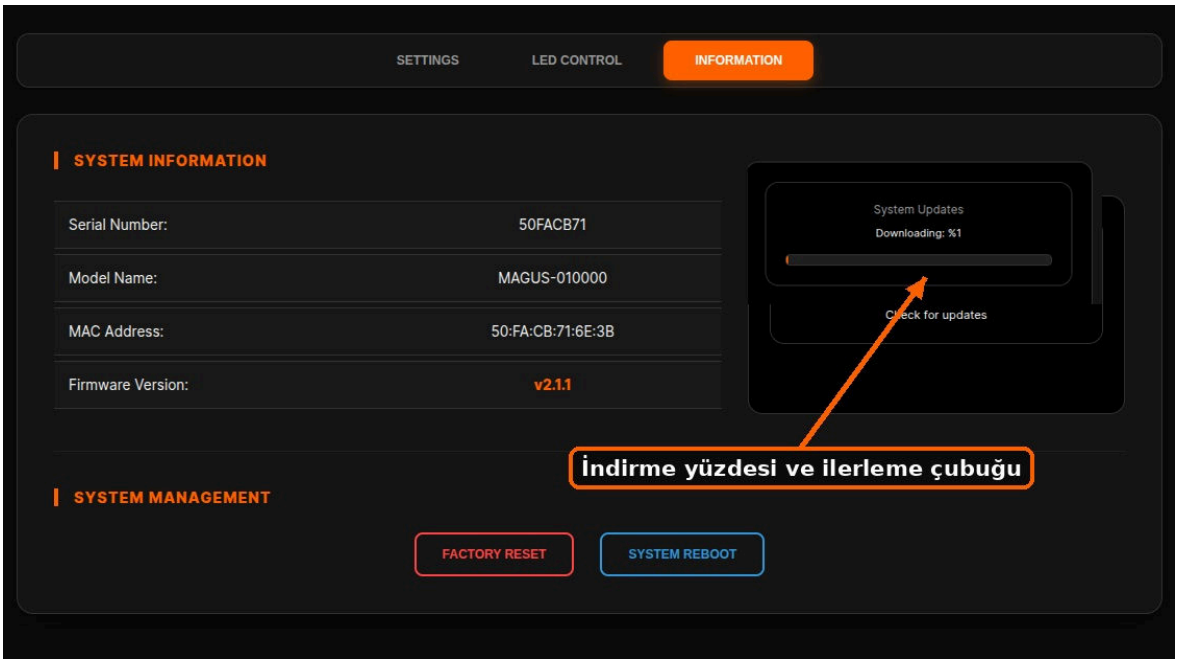
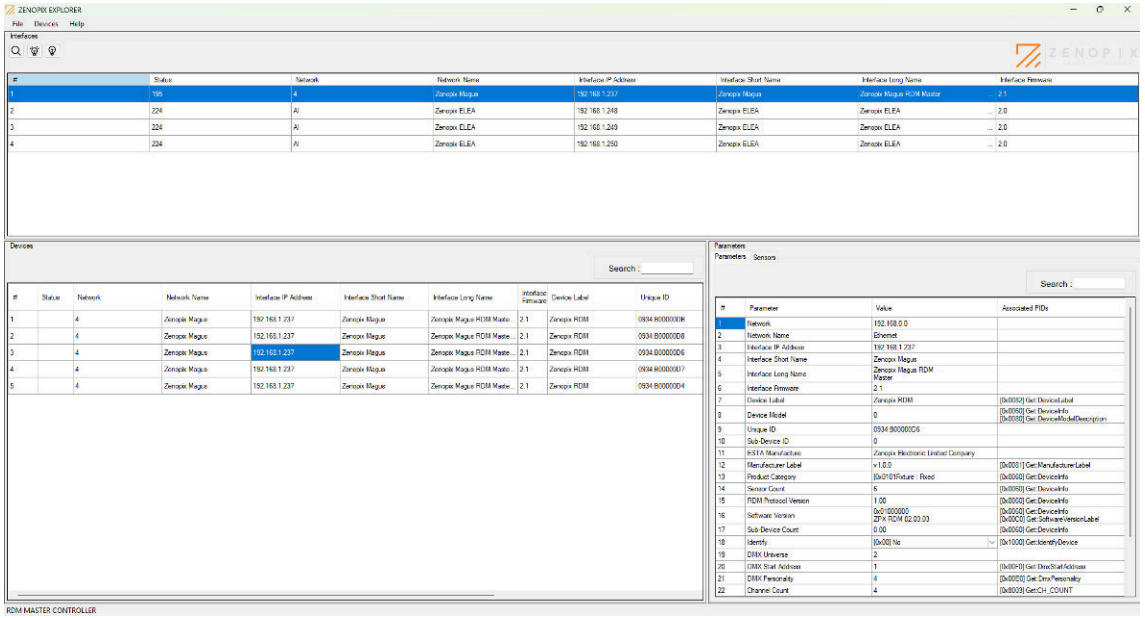


Figure: Firmware download progress

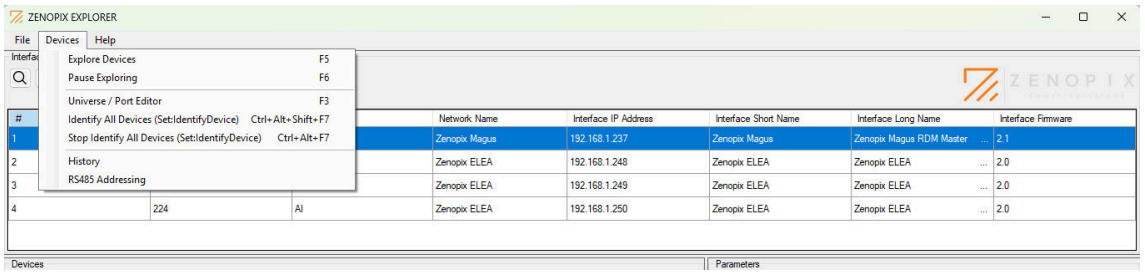
RDM Configuration with Zenopix Explorer Software

To control the RDM-enabled end devices connected to Magus, the Magus device must be used together with the **Zenopix Explorer** software. You can download Zenopix Explorer for free from www.zenopix.com.



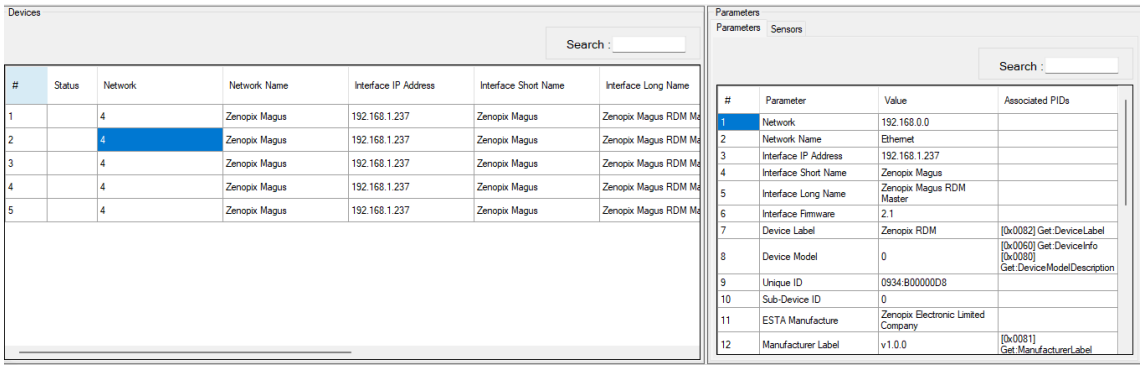
Once the network connections of Magus are made and Explorer is opened, the device performs RDM scans at regular intervals. In the upper panel (Interfaces) you see the Magus interface, and in the lower left panel (Devices) the connected RDM devices. The right panel shows the parameters of the selected device.

Important Note: Explorer and your Art-Net animation software (Zenopix NEO, Madrix, Resolume, etc.) must not be open at the same time.



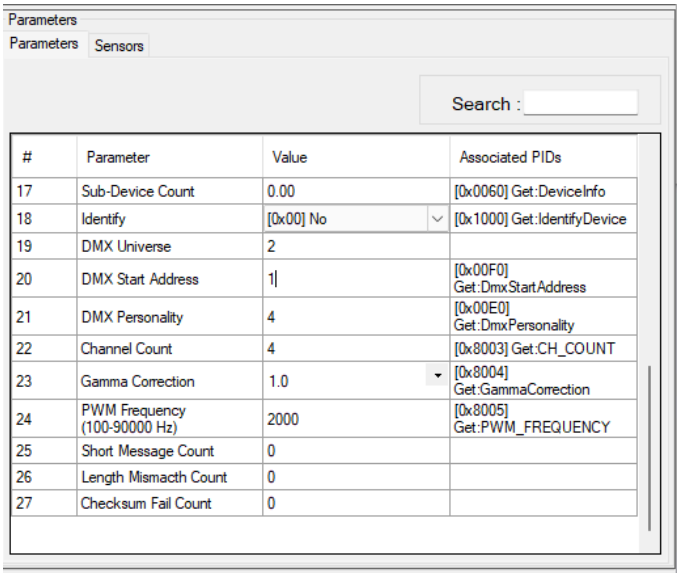
When Explorer is opened, or when Devices → Explore Devices (F5) / the magnifier button at the top is pressed, Magus appears in the Interfaces list. Here, the IP address, short/long name and firmware information of Magus are shown.

You can use the bulb ON button to turn on Identify on all devices and the bulb OFF button to turn it off. If necessary, pause the scan by selecting Devices → Pause Exploring (F6).



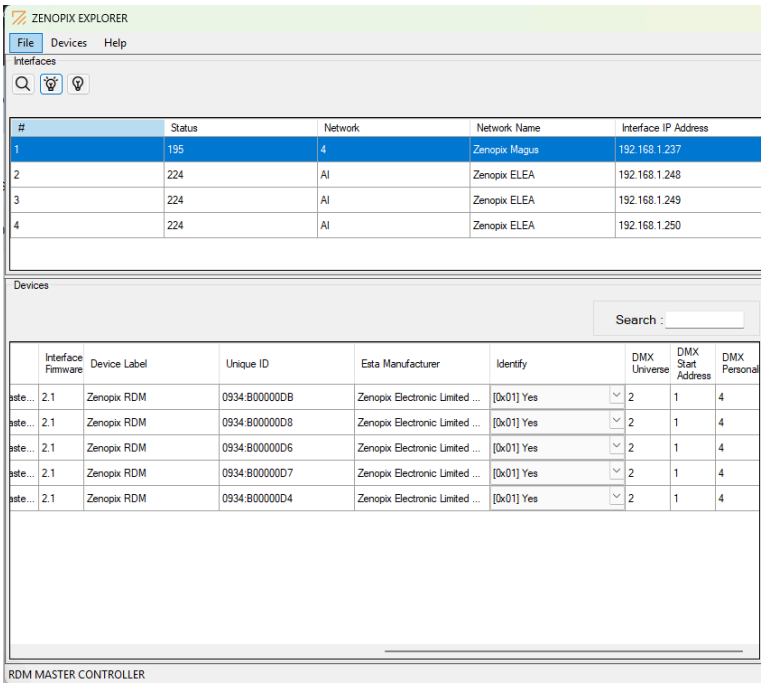
You can find the connected RDM-enabled decoders listed in the Devices panel at the lower left. The list shows the device label, Unique ID, manufacturer, Identify status, DMX Universe and DMX Start Address.

When you click a device, its details open in the Parameters panel on the right. You can quickly filter the list by typing in the Search box.



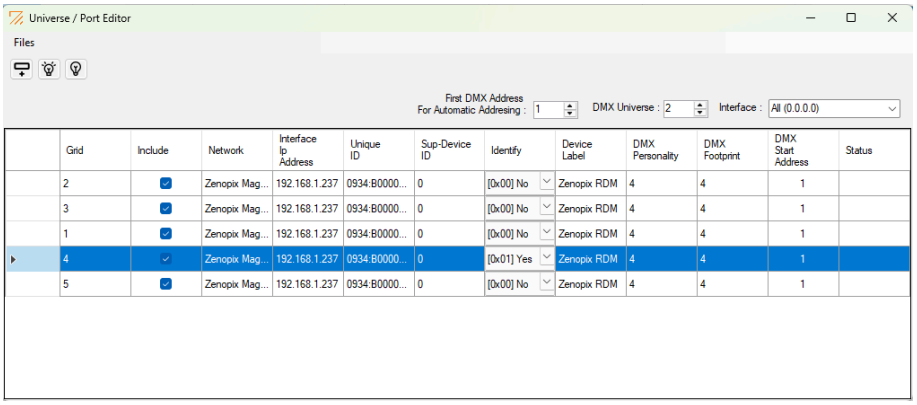
You can update the DMX start address of a product by selecting the device in the lower left list and changing the DMX Start Address value in the right panel. The change is sent to the device via Magus when you leave the cell.

You can do the same from the DMX Start Address column in the Devices list.



You can see the device's Unique ID by scrolling the Devices list horizontally. To locate the device visually, set the Identify field to [0x01] Yes to make the device light up. When finished, set Identify to [0x00] No.

To Identify all devices at once, use the Identify ON/OFF buttons at the top or the Identify All / Stop Identify All options in the Devices menu.

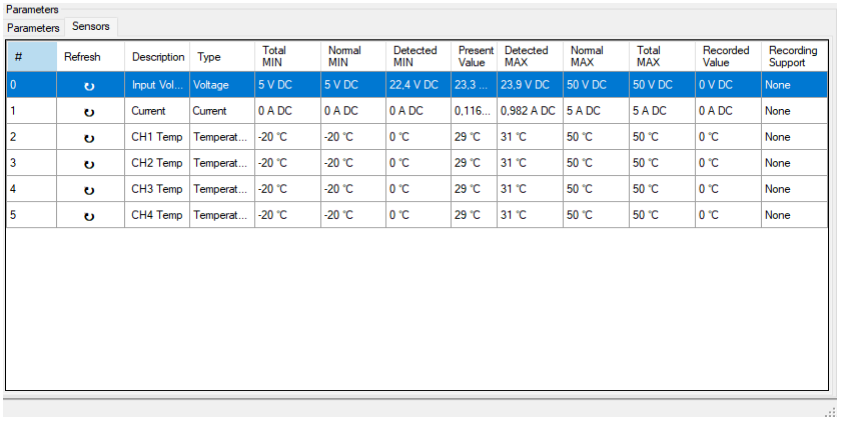


To address multiple devices in sequence, open the Devices → Universe / Port Editor (F3) window. Select the Interface and DMX Universe, and check the Include box for the devices to be addressed.

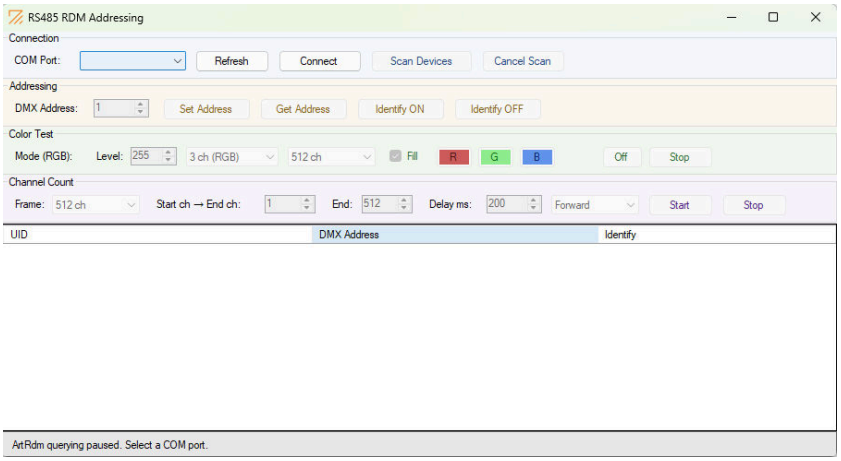
Enter the start address in the First DMX Address For Automatic Addressing field and press the sequential addressing button at the top. The devices are

addressed automatically according to the grid order and the DMX Footprint value of each.

The Identify ON/OFF buttons in this window apply only to devices with Include checked.



On sensor-enabled devices, you can monitor values such as temperature and voltage from the Sensors tab in the right panel. The values are refreshed periodically. For longer-term logging, you can use the Devices → History window.



To address directly with a USB–RS485 converter instead of Magus, use the Devices → RS485 Addressing screen. Select the COM port, click Connect, then find the devices with Scan Devices. Set Address sets the selected device's address, Get Address reads it, and Identify ON/OFF toggles identification.

While this window is open, Explorer's Magus (Art-Net) scan is paused. Close the RS485 window before returning to Magus.

Controlling Magus with Zenopix NEO

Zenopix NEO is a desktop application for broadcasting Art-Net to your devices. It is tailored to all online and offline Zenopix devices, especially Magus.

In NEO, Magus devices are limited to 1024 channels (FPS drops as the channel count increases; 512 is recommended). This lets you use Magus for complex, multi-channel projects.

To create a Magus project in NEO, select Patch->New Patch from the main screen menu and choose the Magus device as the project parameter.

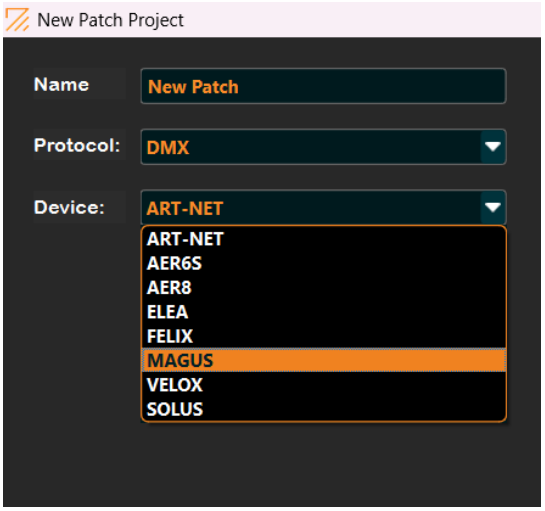


Figure: Adding Magus to Zenopix NEO

Then, on your Patch screen, configure your Zenoverses according to the Magus device you have configured. The parameters you need here are:

- IP address of the target Magus device
- Start and end Universe numbers of the target Magus device

Based on this information, click the “Add Zenoverse” option on the patch screen that appears, and complete the configuration for your device by selecting the target group on the next screen.

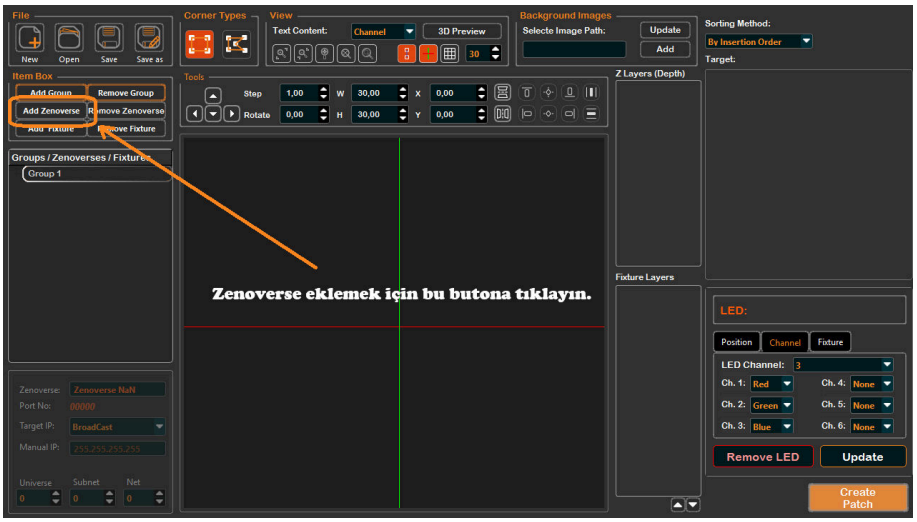


Figure: Adding multiple universes (ports) to Zenopix NEO

"Single Addition" is the default option, but with the "Multiple Addition" option you can add all ports at once. You only need to know the start and end Universe numbers.

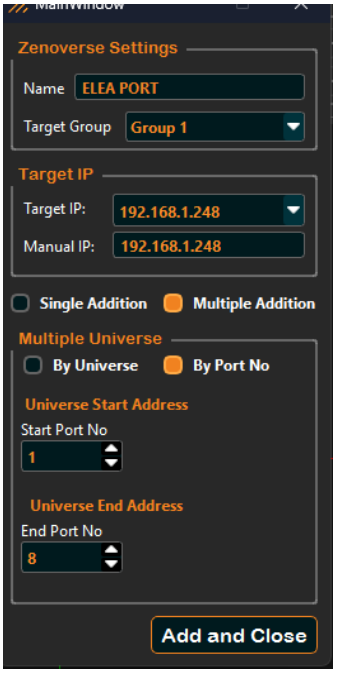


Figure: Adding multiple universes (ports) to Zenopix NEO and defining the IP address

After configuration, when you add the Zenoverses, you should see the port outputs appear on the Patch screen. Here you can change all parameters of the ports individually if you wish.



Figure: Universe (port) management in Zenopix NEO

The digital infrastructure of your Magus controller is now set up. You can now move on to designing your project.

After the project design is complete, open the “Art Net” panel on the main screen to start broadcasting.



Figure: Enabling ArtNet broadcast in Zenopix NEO

In the broadcast panel that opens, select the network adapter (Ethernet, Wi-Fi ...) that Magus and the computer share, and enable broadcasting. Your device will then connect to your computer and provide real-time broadcast control.

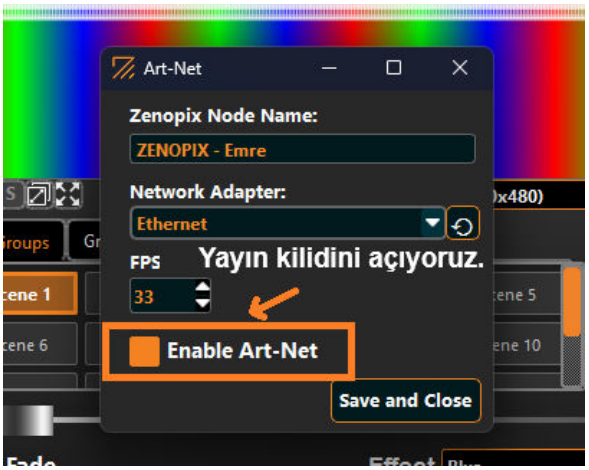


Figure: Selecting the network card in Zenopix NEO and enabling ArtNet broadcast

Connecting with a 3rd-Party Media Player

It is very easy to achieve the images and animations you want with Zenopix Magus. Zenopix Magus works seamlessly with all 3rd-party media player programs on the market. By connecting it to your computer via Ethernet, you can instantly transfer the visuals you create with programs such as **MADRIX, RESOLUME ARENA and JINX** to your LEDs.

Warnings

1. The products must be installed by qualified professionals.

2. Zenopix products are not waterproof (except for special models). Protect the products from direct sunlight and rain. For outdoor installations, mount each product in a waterproof enclosure. Good heat dissipation will extend the service life of the products. Please ensure good ventilation.

3. Make sure the operating voltage meets the product specifications.

4. The cable gauge used must be sufficient to supply the connected lighting fixtures, and the cable connection must be secure.

5. Before switching on the products, please make sure that all wiring is correct, as an incorrect connection may damage the lighting fixtures. If a fault occurs, please do not attempt to repair the products yourself. If you have any questions, please contact your suppliers.

6. This manual is subject to change without prior notice. Product functions may vary depending on version and variant. If you have any questions, please do not hesitate to contact us.

Technical Support

If you have further questions about the use of Zenopix Magus or technical problems, use the following resources for troubleshooting:

- Read the Zenopix Magus user manual
- Contact your supplier or sales representative.
- Check the latest information on our website
- For any technical problem, you can contact us directly at info@zenopix.com.

Frequently Asked Questions (FAQ)

What do the blinking LEDs on the front of the device mean?

-Please refer to the "Status LED Codes" section of the manual.

Can I use multiple Zenopix Magus devices at the same time?

-Yes, you can. Just make sure that your network bandwidth is adequate in projects using multiple Magus units.

Does the Magus device support RDM?

-Yes. With the RDM-capable Zenopix Magus, you can configure all your RDM products and also provide DMX control.

Can I use the Magus device with DMX Decoders?

-Yes. You can use Zenopix Magus with DMX decoders.

Can I use the Magus device with SPI LEDs (WS2812, TM1914, etc.)?

-No, Zenopix Magus does not support the SPI protocol. For this, you can check out our Zenopix Velox product, or use Magus with DMX LEDs (TM512, etc.).

I cannot access the web interface (Web GUI). How can I restore the device to factory settings (Factory Reset)?

-Please refer to the "Resetting to Factory Default Settings" section of the manual.

Is it possible to get more than 512 channels of output from the Zenopix Magus device?

-Zenopix Magus can technically be configured for up to 1024 channels (only in Zenopix NEO and Zenopix Solus applications). However, due to potential data loss on the signal lines and reduced transmission speed (FPS) in scenarios exceeding 512 channels, we recommend limiting the channel count to 512 to maintain the stability of your project.

I am experiencing flicker, freezing or latency in LED fixtures. What could be the cause?

-No 120 Ω termination resistor at the end of the DMX line.

-The number of controlled channels exceeding the optimum limit of 512, causing an FPS drop.

-Non-standard cabling or exceeding the maximum signal transmission distance.

-Delay of data packets due to heavy network traffic.

The distance between Magus and my LEDs is very long (>100 meters). What should I do to prevent signal degradation?

-To extend the signal cable or prevent signal degradation, you can check out Zenopix Repeater products.

Can I use the Magus device standalone (offline)?

-Only for single-color applications; Zenopix Magus is an online device. It requires Art-Net data over Ethernet. In applications without a computer, you can use it together with Zenopix Solus, or check out the Zenopix AER product.

Troubleshooting

Web interface does not open: Check that the computer is on the same subnet, and check the device IP and the Ethernet LEDs.

No Art-Net output: ArtNet MODE selection, the Universe mappings and the Universe value of the incoming packet must be verified.

Art-Net not working after a test: LED CONTROL MODE may still be active. Return to ArtNet MODE.

Failsafe activates late: The firmware detects a loss of Art-Net data 10 seconds after receiving the last Art-Net packet.

Channel counter does not advance: Check the PLAY status, address range, Speed value and selected ports.

Addressing failed: Verify the IC Type, channel count, group size, port selection and address range.

Version Check Failed: Check the gateway, DNS and internet access, then try again.

Cannot Connect to Server: Check the firewall and internet connection.

Server Not Responding: Check the network connection and try again later.

Update Error: Verify the connection without turning off the device and restart the update.

RDM devices not visible: Check the RDM switch on the relevant port, the DMX termination and the device count; turn off unused RDM scanning during DMX-only playback.

If the device does not start after an update or the version information does not change, follow the technical service procedure before power cycling again.

Order Code

PRODUCT CODE	MAGUS	2	RM	TB
Capacity				
2 Universes Output		2		
Enclosure Type				
DIN Rail Mount			RM	
Connection				
Pluggable Terminal Block				TB

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