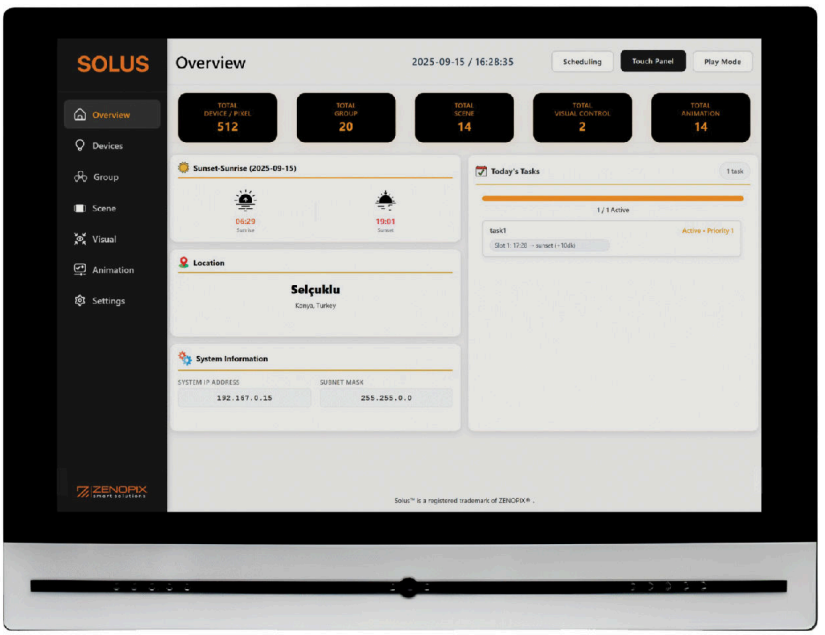
ZENOPIX
smart solutions

Your Solution Partner in Lighting Control

SOLUS TOUCH PANEL

USER MANUAL



zenopix.com



Thank you for choosing the Zenopix SOLUS Touch Panel. 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.

Company Information and Contact Address

ZENOPIX LIMITED COMPANY

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Konya Teknokent Office

Akademi Mah. Gürbulut Sok. S.Ü. Teknoloji Geliştirme Bölgesi Konya Teknokent No: 67 Selçuklu / Konya / Türkiye I +90 332 503 67 77

E-mail: info@zenopix.com

Website: https://www.zenopix.com

SOLUS Touch Panel *is a registered product of Zenopix® Elektronik Limited Company.*

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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

The Zenopix SOLUS Touch Panel comes with a 2-year warranty (with an optional 3-year extension). Detailed information is available in the product warranty certificate or on our website.

Box Contents

1× Zenopix SOLUS Touch Panel

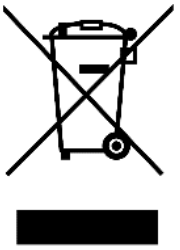
1× Adapter

1× Technical Document and Introduction Guide

1× Warranty Certificate

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

The Zenopix Solus Touch Panel is a user-friendly and powerful Art-Net Master Controller that offers advanced control in architectural and stage lighting applications. Combining the flexibility of the Art-Net protocol with an intuitive, modern touchscreen interface, it provides fast and precise control over lighting systems.

Without the need for complex computer systems or special control software, you can easily manage your lighting network directly from the panel and control stage, ambient and other lighting scenarios from a single point.

Key Features of the Product

Precise Pixel-Based Control

The Zenopix Solus Touch Panel sends Art-Net data to all your Art-Net DMX players connected to the network. Thanks to the device's touch panel, you can control DMX-based fixtures installed on site (floodlights, wall washers, bollards, linear DMX fixtures, etc.) pixel by pixel.

- **Single-Channel Devices:** Can be dimmed.
- **Two-Channel (Cool-Warm) Pixels:** Color temperature can be adjusted.
- **Three-Channel RGB and Four-Channel RGBW Pixels:** Control the color of each pixel individually, or group pixels and control them with a single command.

Grouping and Scene Management

You can easily group the pixels you want and combine these groups under the "Scene" menu. This way, you can activate different lighting scenarios with a single touch. For example, you can quickly switch between scenes prepared for everyday lighting, event lighting or special days.

Visual Control

Under the "Visual Control" menu, you can add images of your project to the device and define different lighting zones by drawing polygons on these images. By linking these polygons to groups, you can create an image-based control system. You can even combine different polygons into a single polygon for more complex lighting designs. This feature lets you unleash your creativity, especially in facade lighting projects.

Large Capacity and Flexibility

- Support for 128 DMX universes
- Support for up to 1024 DMX channels per universe
- Ability to control a total of 43,000 RGB DMX pixels or fixtures

Animation Playback

You can easily upload animations prepared and recorded with the Zenopix NEO software to the device via remote access. You can play as many animations as you like on your facade, adding a dynamic and lively look to your projects. Your Art-Net data is stored in the memory of Zenopix Solus and quickly transmitted to all Art-Net DMX converters via an Ethernet switch.

Smart Timing and Scheduling

The timing and scheduling interface of the Zenopix Solus Touch Panel automates lighting management. You can achieve dynamic management by setting the start and end dates and times of the lighting or animation.

- Special days such as Mother's Day, Father's Day and Valentine's Day
- National and religious holidays
- Predefined lighting scenarios for specific periods of the year

This way, you can manage the entire lighting process automatically and safely without having to go on site.

The Zenopix Solus Touch Panel simplifies the management of your lighting projects while giving you unlimited room for creativity. Are you ready for a new era in lighting control?

On-Site Debugging and Easy Commissioning

The Zenopix Solus Touch Panel goes beyond being just a controller and also becomes a powerful test tool. Thanks to the device's Test Panel feature, your on-site commissioning processes are now much faster and error-free.

Use the Test Panel to step through the channels one at a time and verify that your installed DMX pixel fixtures are correctly addressed and that all their channels work properly. This feature greatly simplifies the work of field engineers and lets you detect possible errors during installation. As a result, your project completion time is shortened and problems that might arise later are prevented from the start.

Technical Specifications

Processor:	Rockchip
Processor Model:	RK3576 2.2 GHz 8 Cores
RAM:	4 GB LPDDR4
Storage:	32 GB eMMC
Screen Size:	10.1"
Screen Resolution:	1280 x 800
Wi-Fi:	2.4 GHz - 5 GHz
Touch Type:	Capacitive Touch
Power supply:	12VDC, 3A
Max. Power Consumption:	36W
Protection type:	IP20
Software Update:	Update via the web interface
Lighting Protocol:	Art-Net
Art-Net DMX Universes:	128 Universes (Maximum)
Channels per universe:	1024 Channels (Maximum)
Network:	100/1000 Ethernet/ RJ45
Dimensions:	289x220x36 mm (protrudes 5 mm from the wall when wall-mounted)
Weight	1000 g
Operating Temperature	0°C ~ 60°C
Operating Humidity	20 ~ 70% RH, Non-Condensing
Storage Temp. and Humidity	-10°C ~ 70°C, 0 ~ 70% RH, Non-Condensing

IP Address and Device Information

•Device serial number

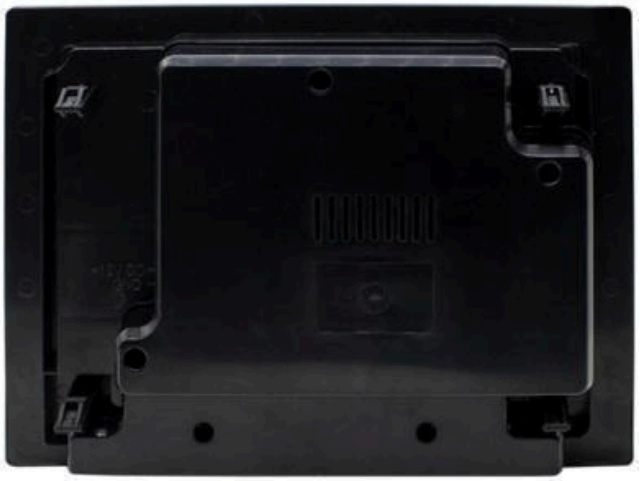
•Device Model

•Default IP address

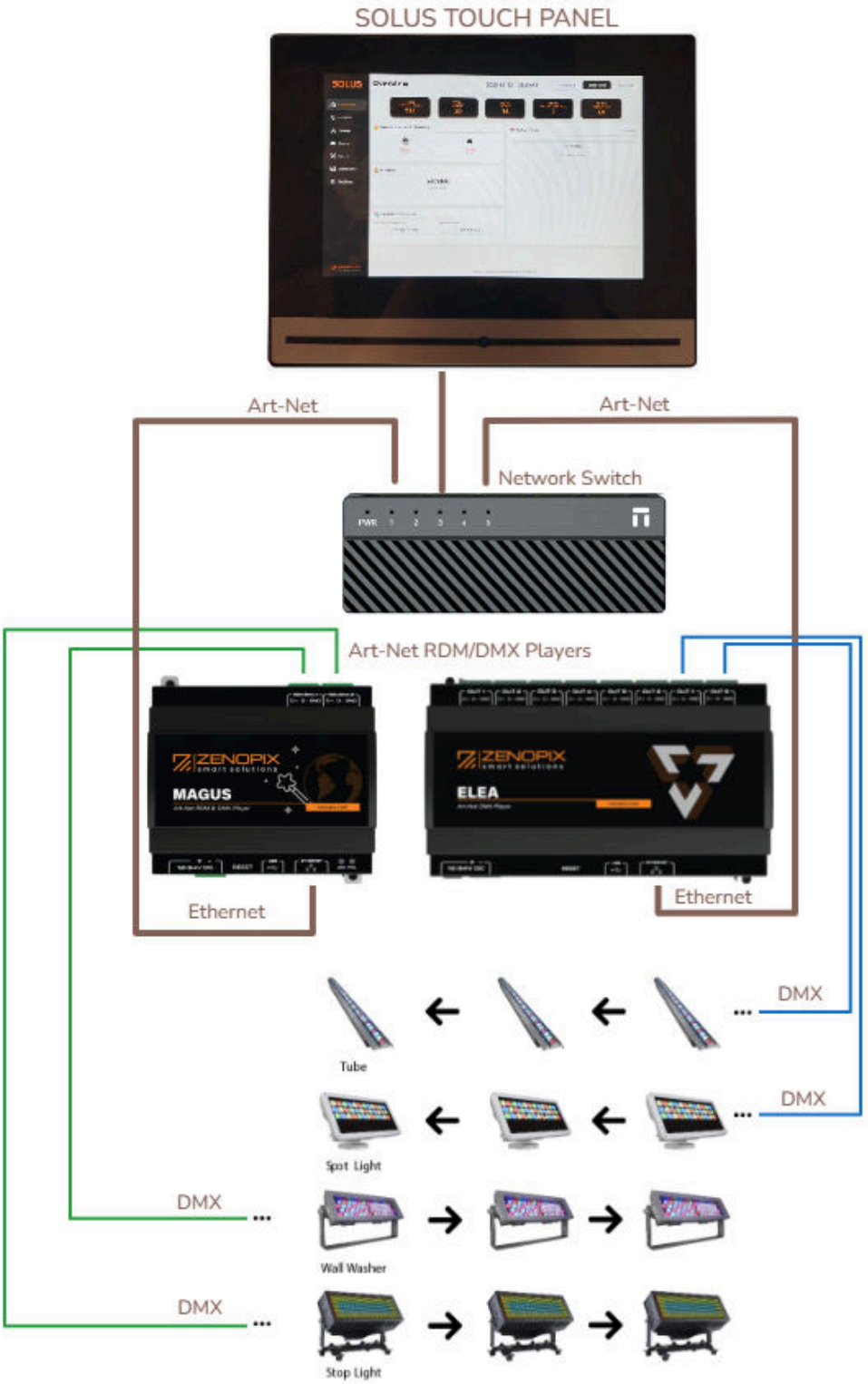
You can find this information under System Information after startup.

Device View





Connection Diagram



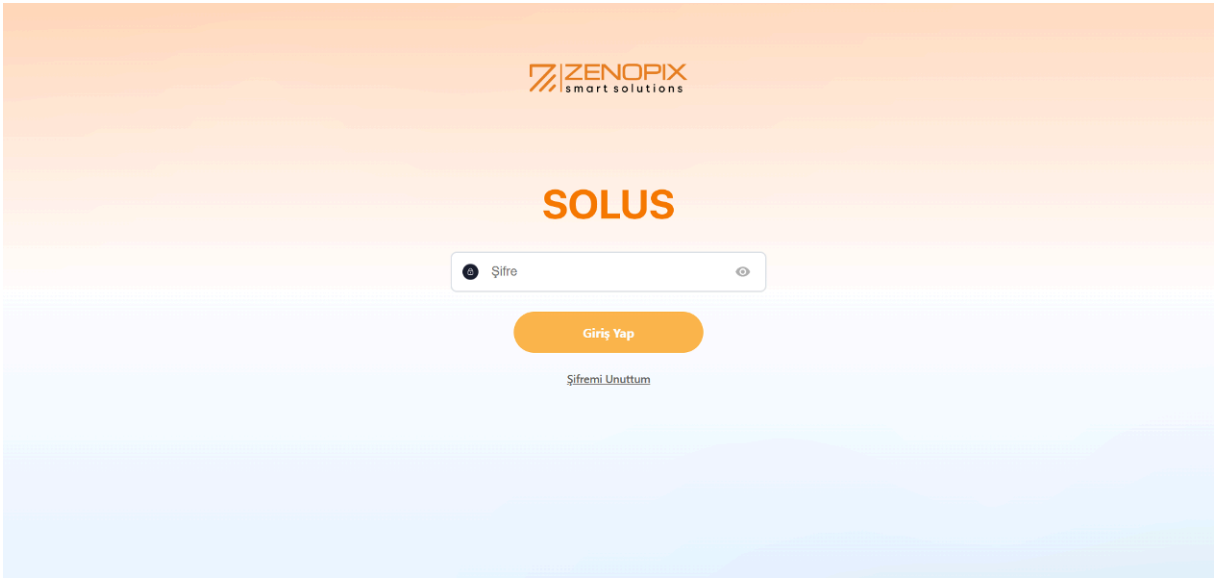
1.Configuration via Web Browser

When you connect Zenopix SOLUS via Ethernet, you can easily configure it using the built-in web configuration interface. For this, SOLUS and your computer must be on the same network.

Follow the steps below to configure the device:

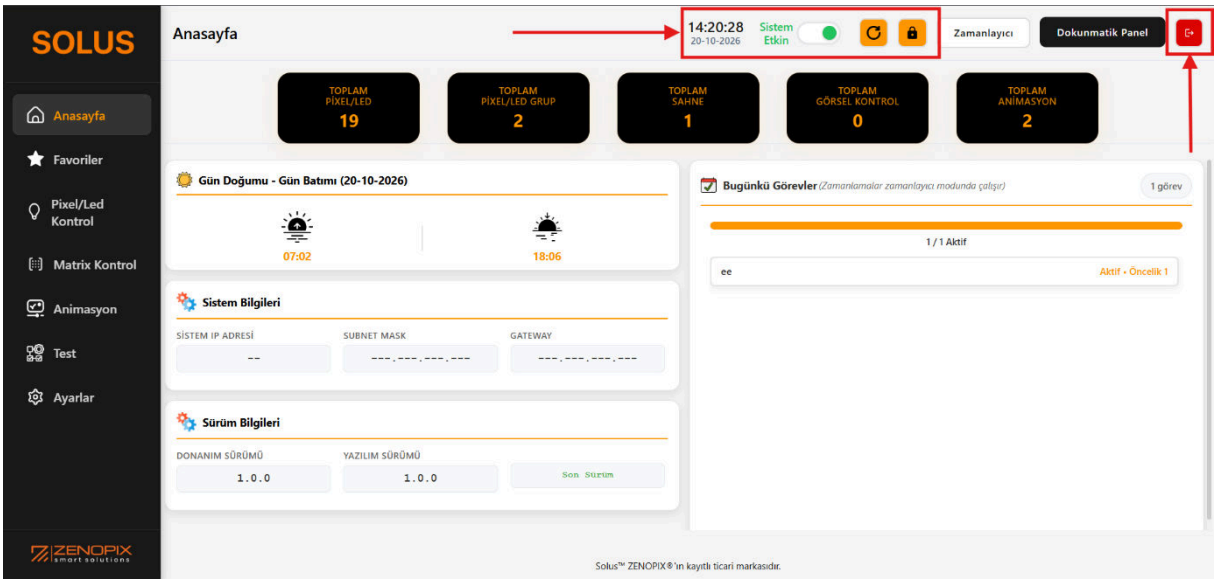
- Connect Zenopix SOLUS and your computer to the same network.
- Assign the correct network settings to the PC.

Set your computer's IP address to the 192.168.1.X block (e.g. IP: 192.168.1.20, Subnet Mask: 255.255.0.0). Open your web browser and go to **192.168.1.222**, the default IP address of Zenopix SOLUS.



Enter your password and click the login button (Default Password: **111111**).

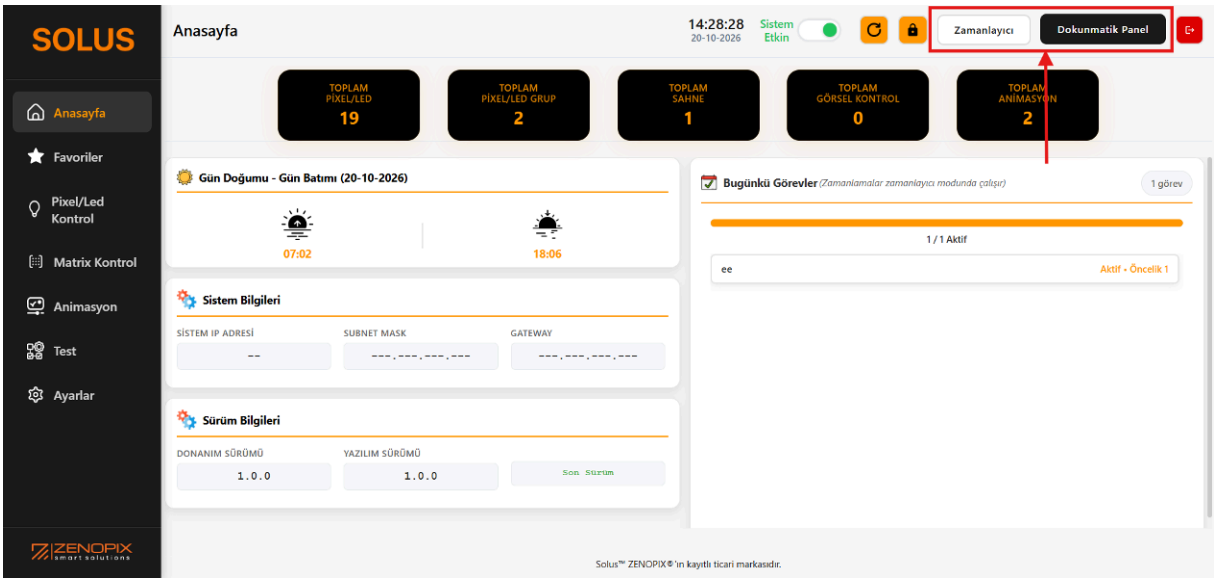
2.Home Page and Top Control Bar



The first screen that greets the user after logging in is the Home page.

The marked area at the top of the screen contains:

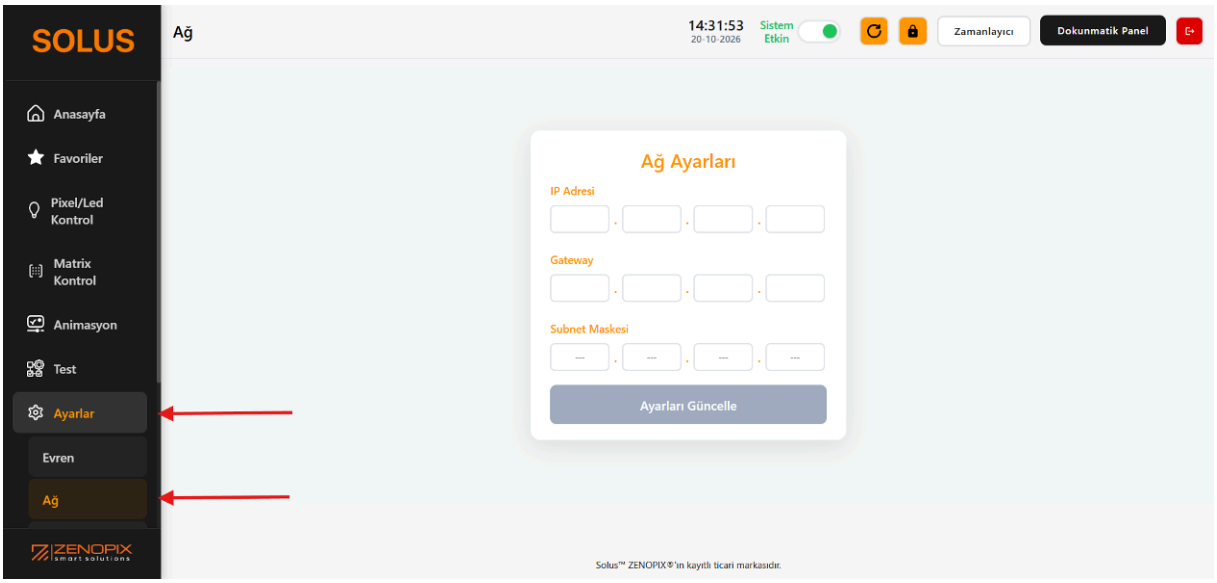
- The current date and time used for system synchronization, and the System Active/Inactive switch
- Screen refresh button
- Screen lock, which locks the panel to prevent unauthorized interventions and accidental touches when you leave the device
- Logout button, which safely ends the session and returns to the login screen.



The Timer and Touch Panel buttons in the top control bar determine the logic by which the SOLUS system manages lighting scenarios.

- Timer mode is the mode in which the system runs fully automatically. While this mode is active, the system automatically starts and stops scenes and animations according to pre-planned hourly, weekly or sunrise and sunset rules, without any user intervention.
- Touch Panel mode, on the other hand, provides control by instant manual intervention instead of automatic rules. Use this mode during live events or whenever you need to change colors on the fly. From the interface, you can trigger a device, group or scene directly and adjust color and brightness in real time.

3.Configuring Network Settings



First, the network settings of the Solus device must be set according to the network used.

In the **Settings > Network menu**, check the device's IP address, gateway and subnet mask on the local network.

Configure Solus to use the same subnet as the devices it will control.

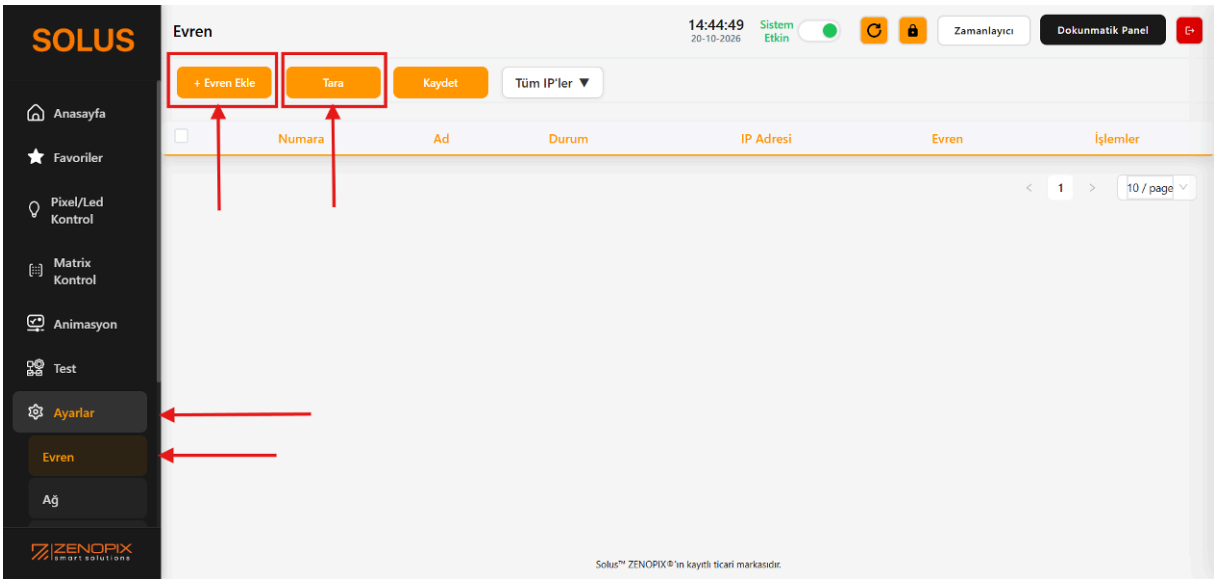
To view your computer's network settings, run **ipconfig** in a terminal.

```
Wireless LAN adapter Wi-Fi:

   Connection-specific DNS Suffix  . :
   Link-local IPv6 Address . . . . . : fe80::a344:6320:e5c3:3b46%17
   IPv4 Address. . . . . . . . . . . : 192.167.0.20
   Subnet Mask . . . . . . . . . . . : 255.255.254.0
   Default Gateway . . . . . . . . . : 192.167.0.1
```

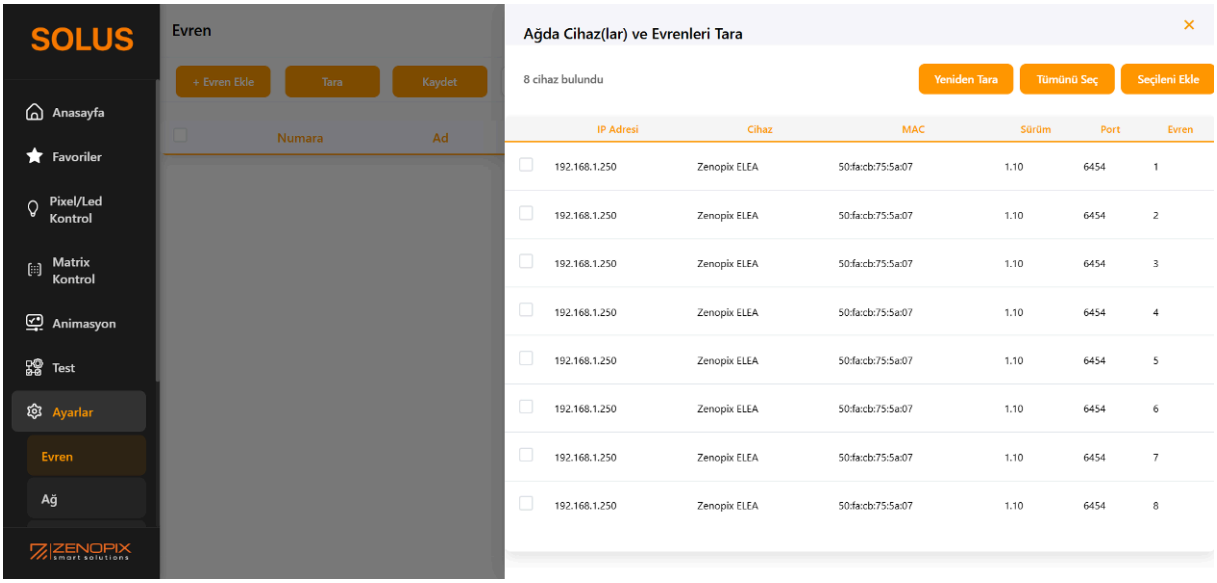
Solus cannot find or manage devices that are not on the same subnet.

4.Configuring Universe Settings

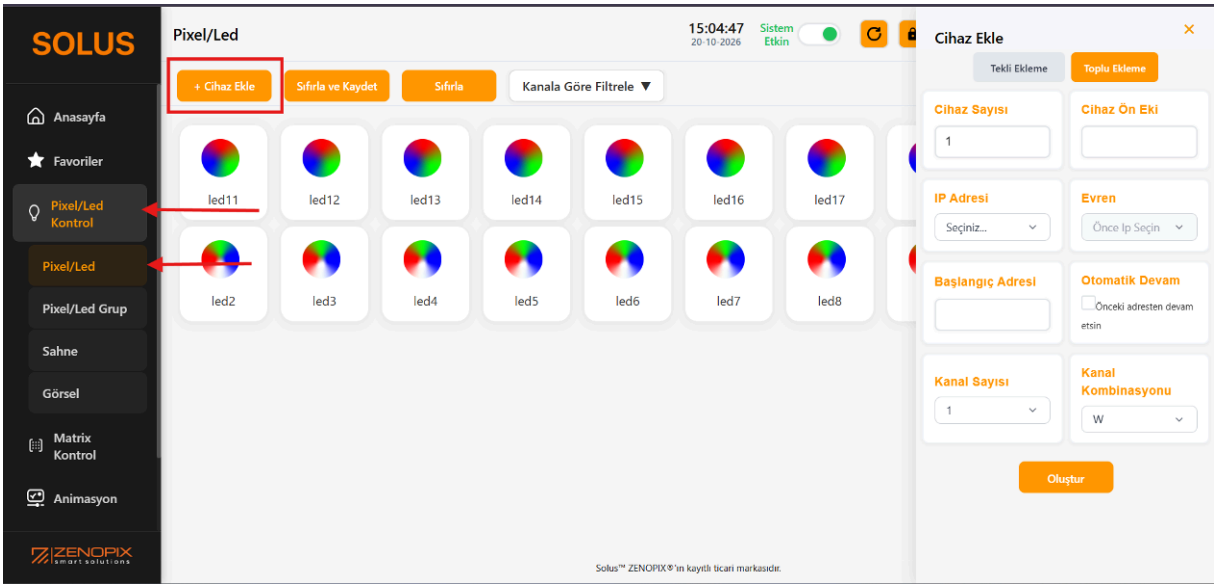


For SOLUS to control the Art-Net controllers in the field, the controllers must be added.

- You can add them manually with the Add Universe button.
- With the Scan button, you can automatically find and add Art-Net control devices that comply with the global standard.



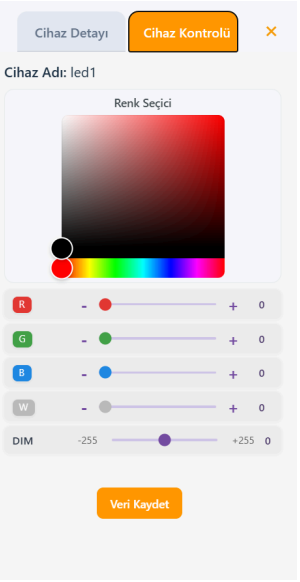
5.Pixel/LED Management and Control



This screen is used to define the pixels/LEDs on the lighting lines:

- **Add Device** button: Click to define single or multiple devices.

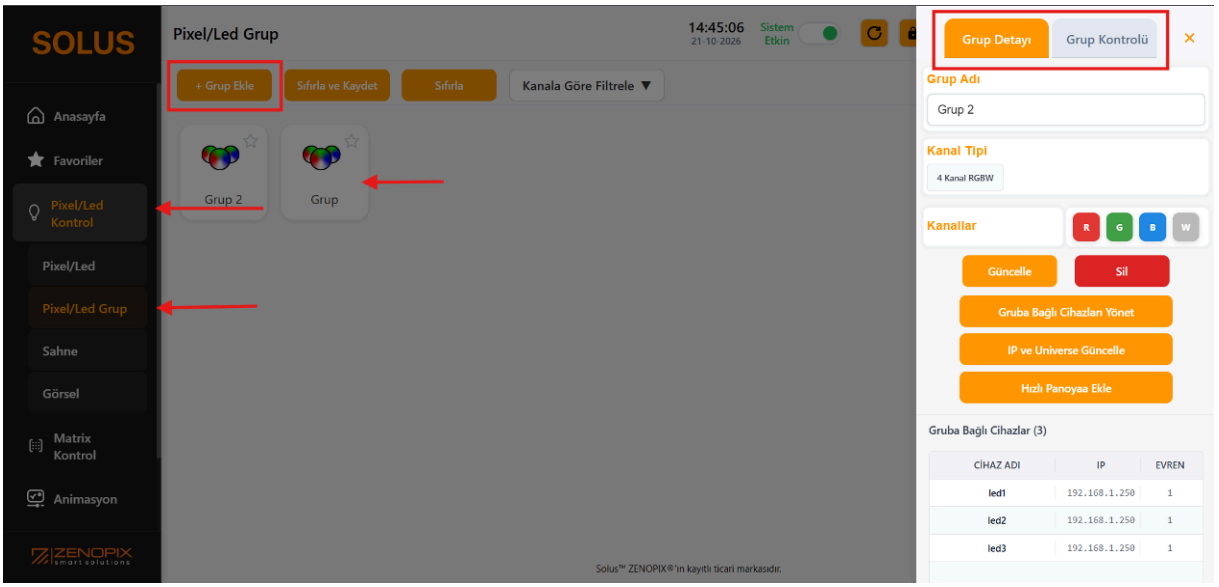




- **Device Details** tab: Device information can be updated here.

- **Device Control** tab: Light and color tests can be performed on the relevant fixtures.

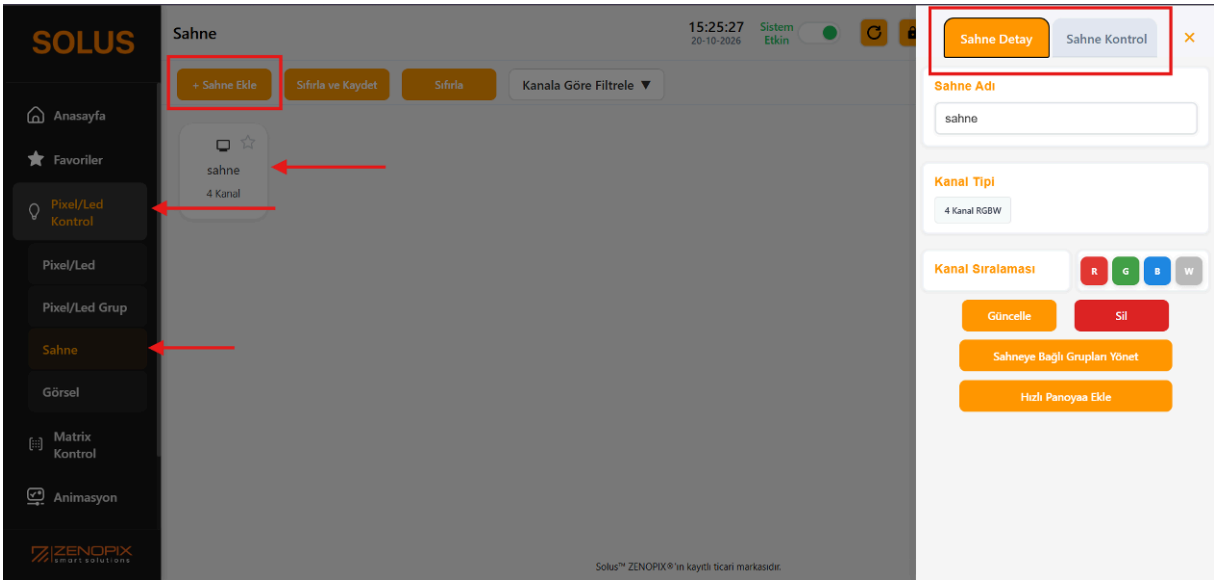
6.Pixel/LED Group Management



Used to bring different pixels together and manage them collectively:

- **Add Group** button: Creates a new group.
- Click a created group to manage the pixels/LEDs connected to it in the **Group Details** tab and add the group to favorites (with the star button) for quick access.
- **Group Control** tab: The color and brightness of all pixels/devices in the group can be changed collectively.

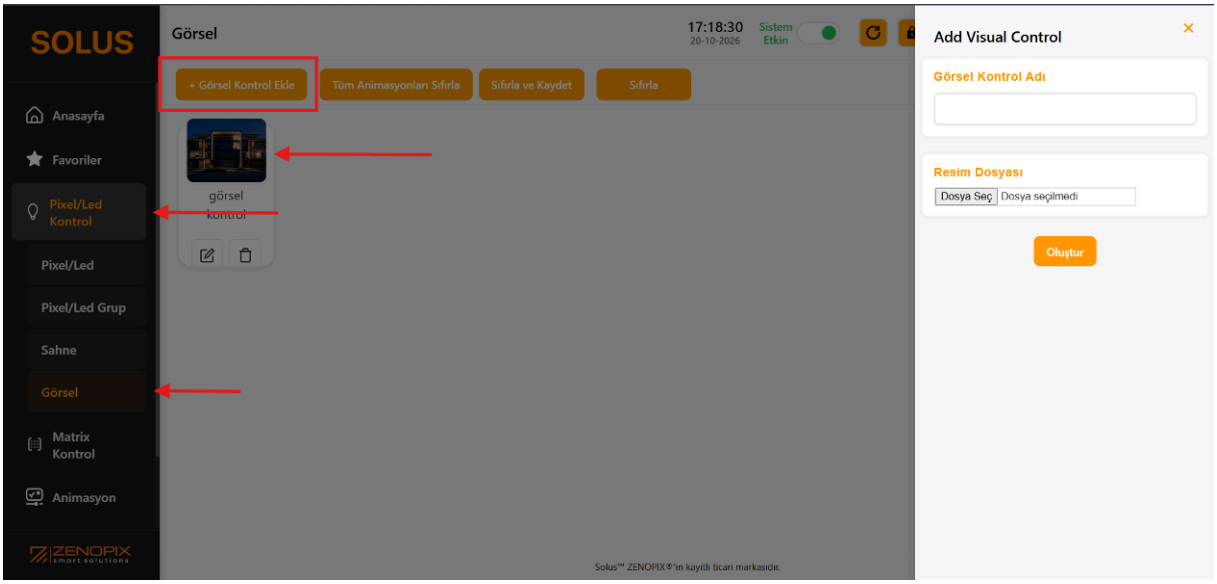
7.Scene Management and Control



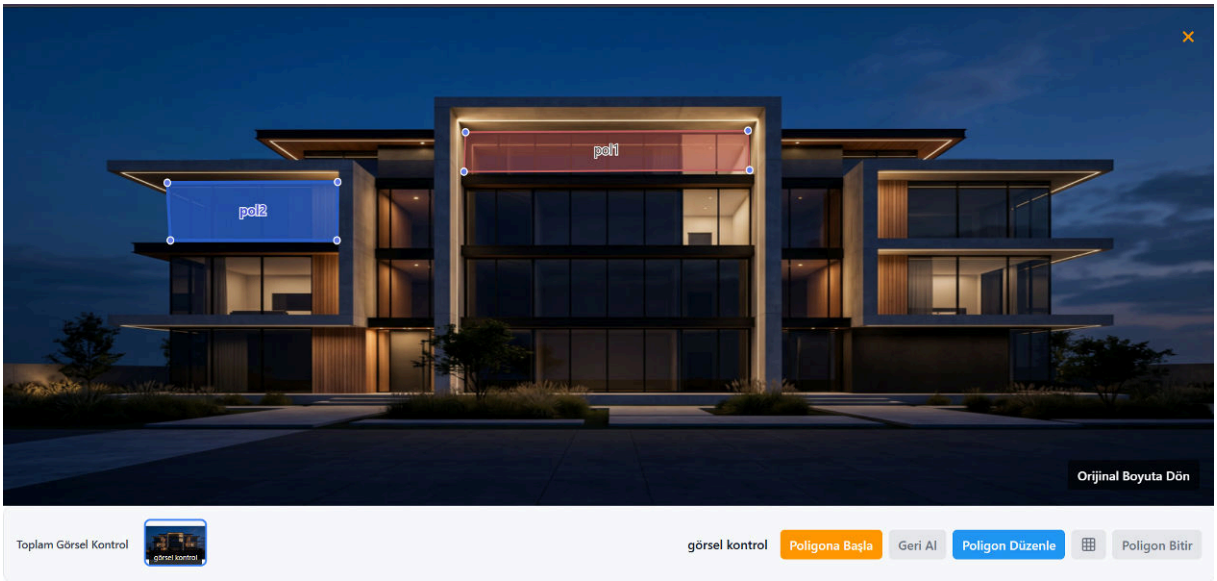
Scenes are created to combine multiple groups under a single scenario and control them at the same time:

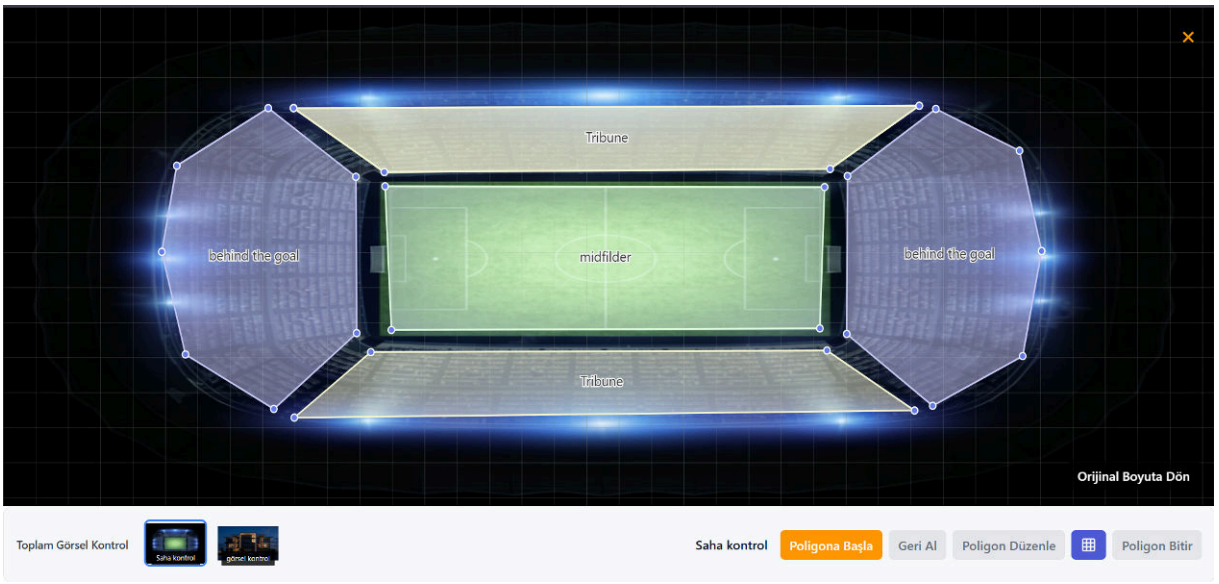
- **Add Scene** button: Creates a new scene.
- Click a scene; in the **Scene Details** tab, use the Manage Scene Groups button to select the groups to include in the scene. You can also add the scene to favorites.
- **Scene Control** tab: The color transitions and lighting scenarios of all groups assigned to the scene are controlled collectively.

8.Visual Control



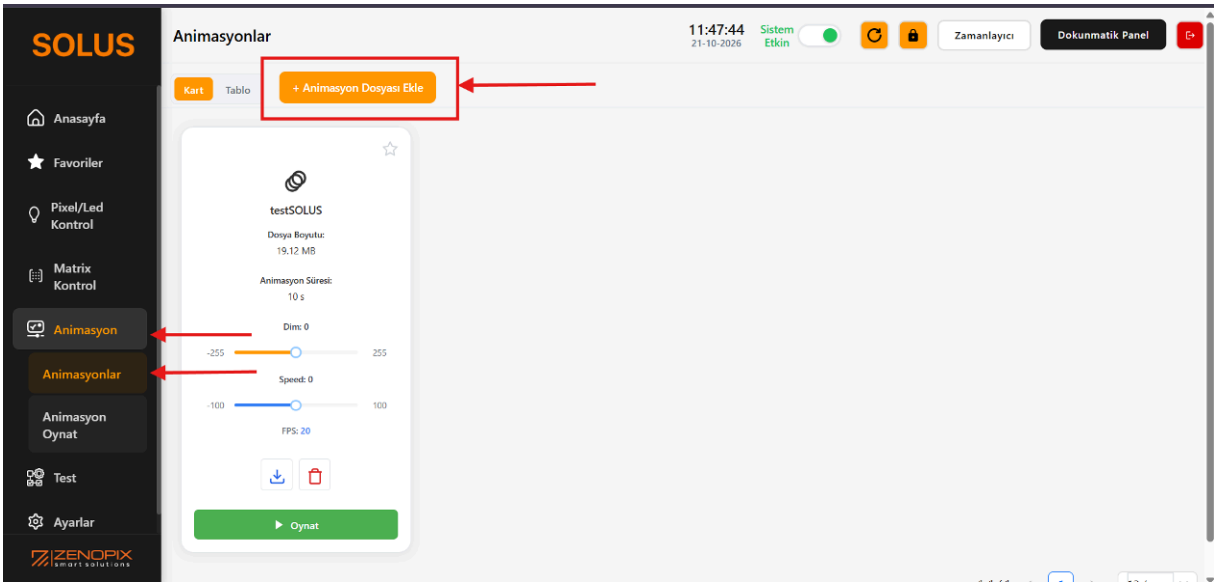
- **Add Image** button: Click to upload a layout plan/photo to the system and name it.
- Click the uploaded image to switch to the polygon drawing area.





- **Start Polygon** button: Click to outline the area to be lit on the image. Assign a scene to the polygon to control that area's color directly from the image.

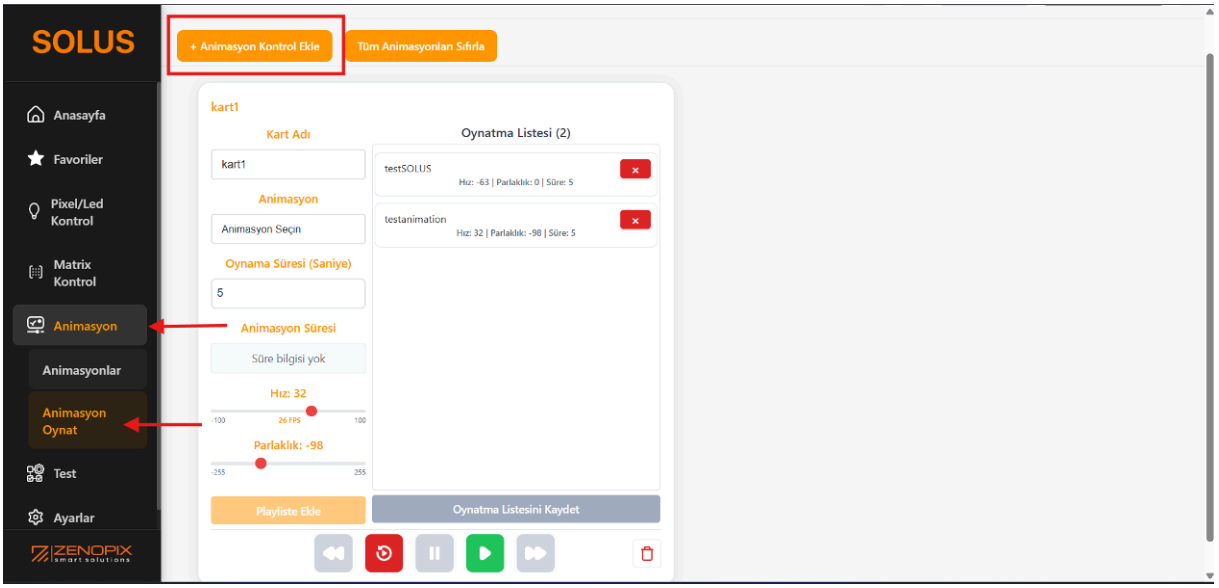
9.Uploading Animation Files and Playing Animations



This is the section where the animation files to be played in the system are uploaded and managed:

- **Add Animation File** button: Click to upload animation files recorded with Zenopix NEO.
- Uploaded animations can be played manually with speed and brightness settings.

10.Animation List Management

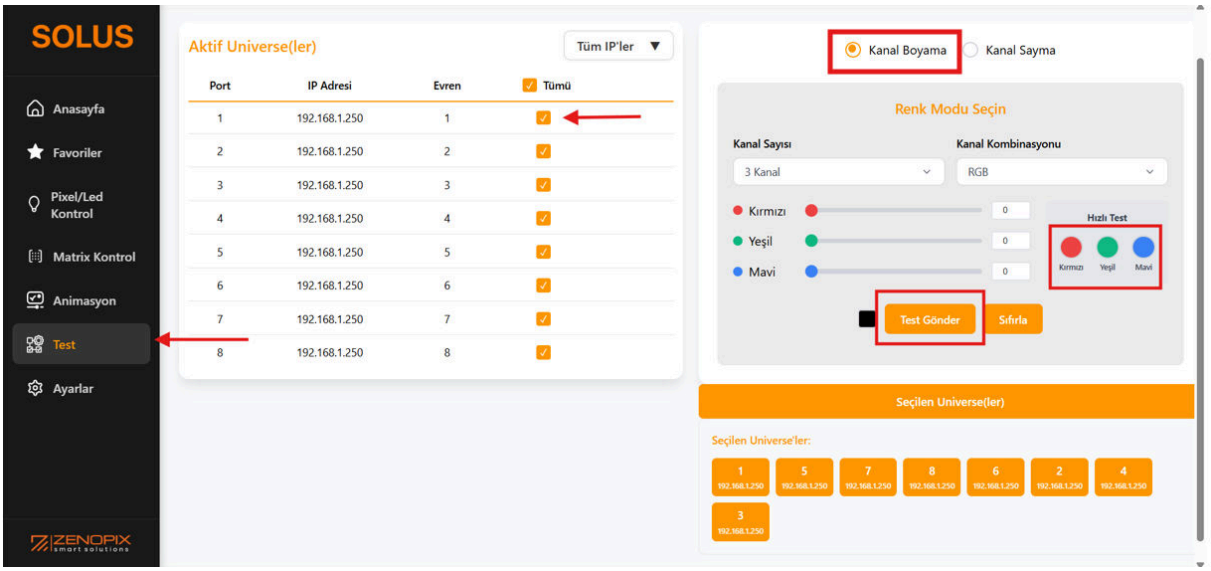


- **Play Animation** tab: You can create custom playlists by adding playlist cards with duration, speed and brightness settings.
- The created lists can be run in a loop.

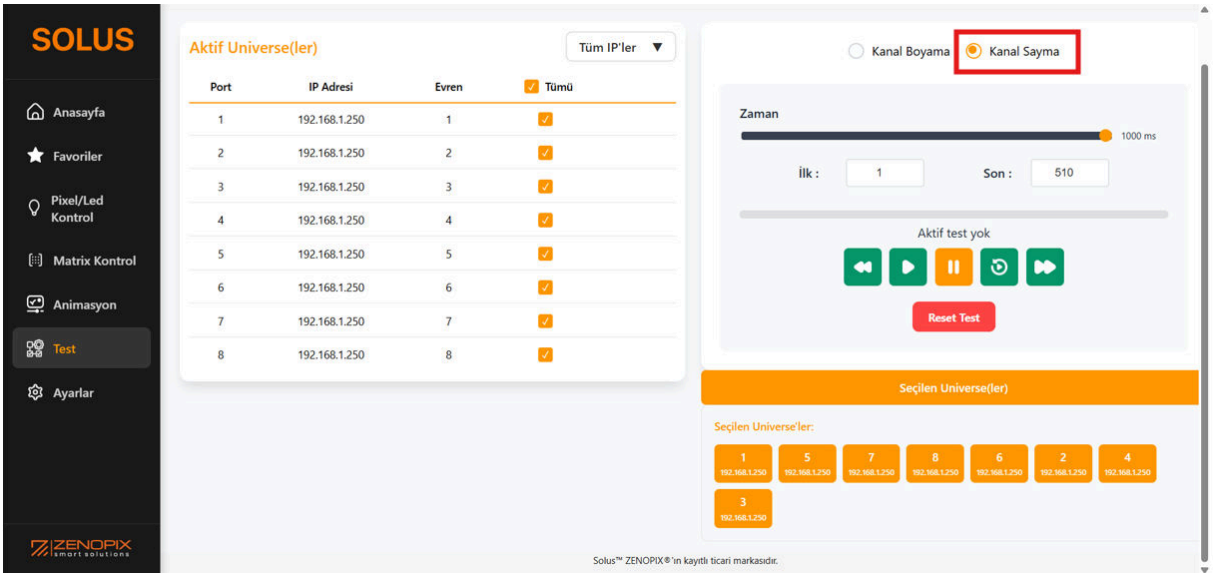
11.Test Operations / Channel Control

Use this screen for on-site testing. Select the universes you want to test:

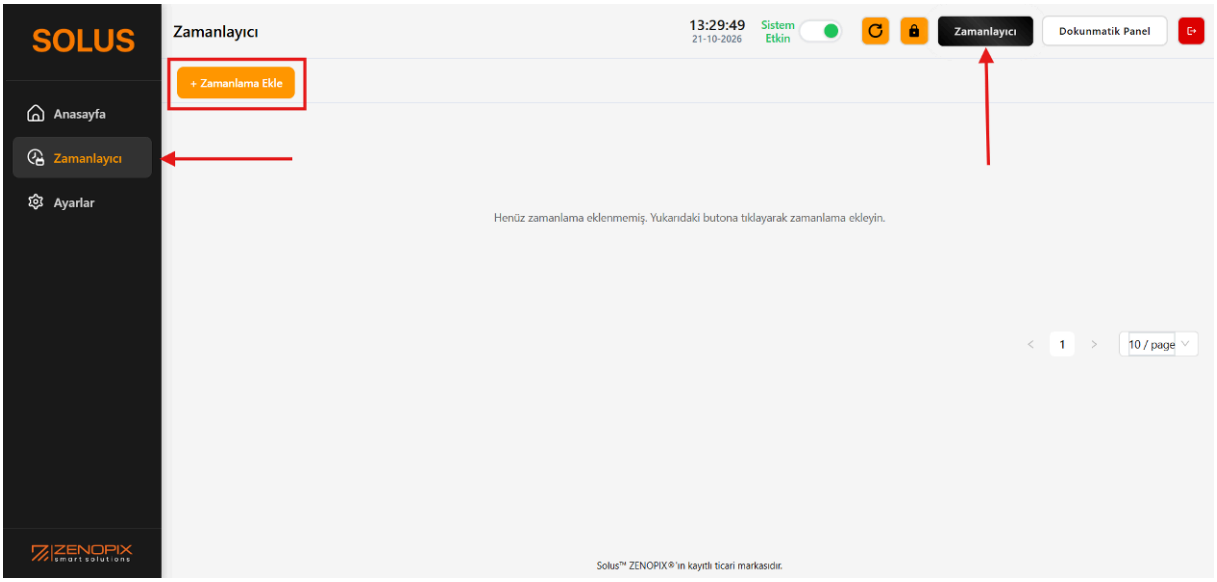
- **Channel Painting:** Choose a color from the quick palette or enter color values manually, then click **Send Test** to test the pixels/LEDs.



- **Channel Counting:** Channels are checked one by one between the set start and end channels, either automatically at the set speed or manually with the forward/back buttons.



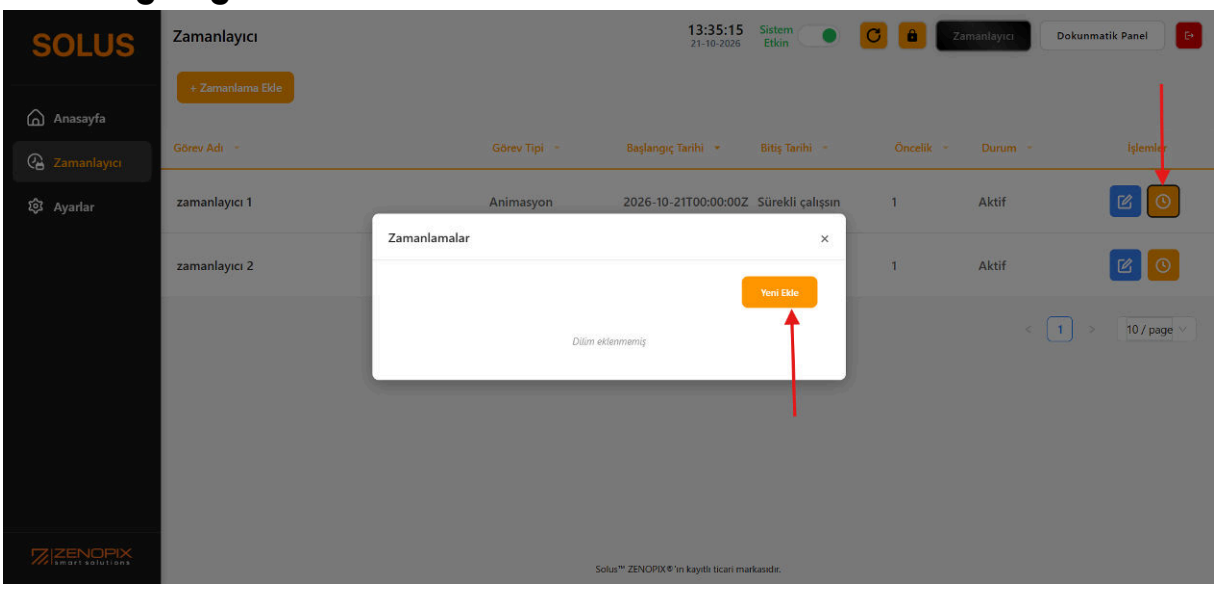
12. Timer (Automatic Task Scheduling)



Enables lighting scenarios to run automatically according to the calendar and time:

- To create a new schedule, click the **+ Add Schedule** button at the top left.
- In the form that opens, enter the task name and type, set a date range or leave the schedule open-ended, and specify the priority and excluded days.
- For automatic animation playback, select Animation as the task type. To send a fixed color to your LEDs or pixels, choose group, scene, matrix or matrix group.

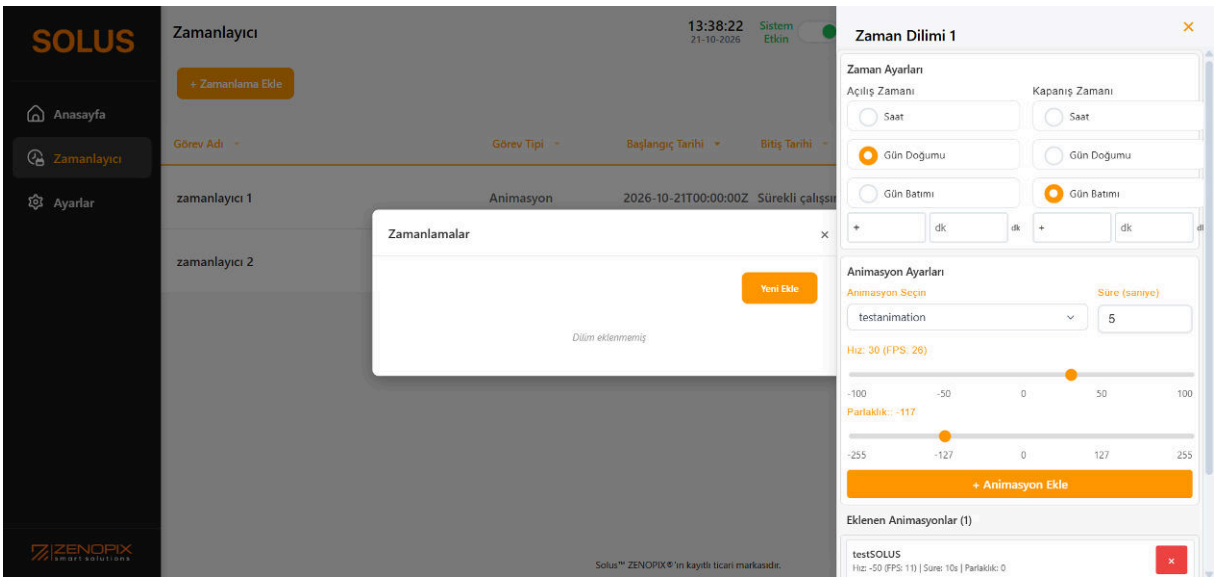
12.1. Assigning Tasks and Time Slots



Click the **clock icon** next to the relevant timer in the list, then click **Add New**.

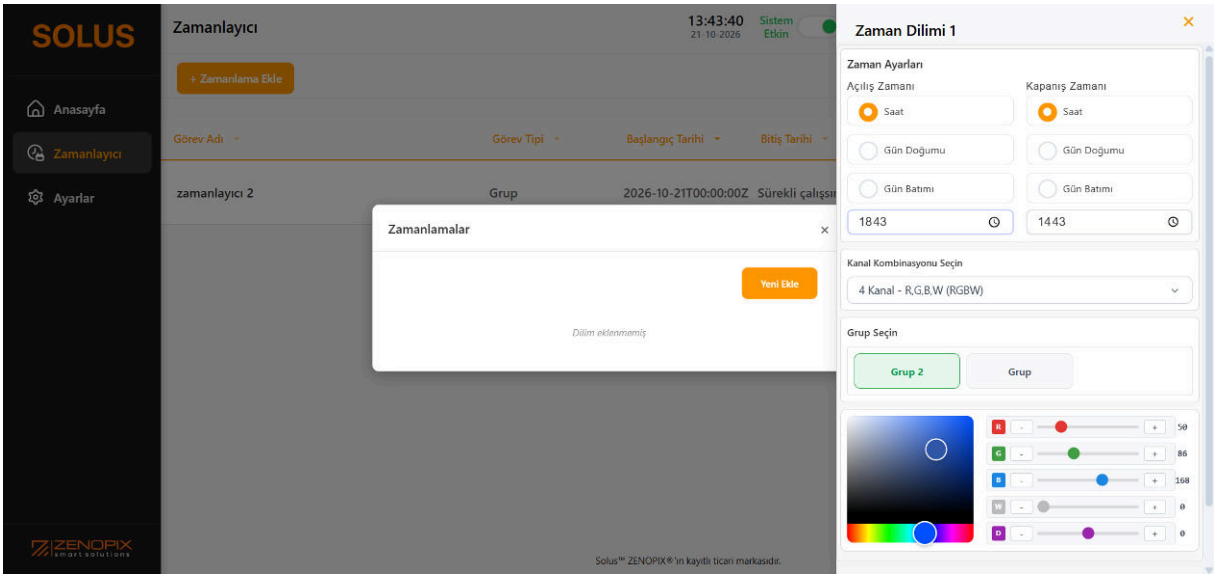
Set the start and end times during which the task will be active.

Animation Type Schedule:



If the timer type is set to animation, add the animations that will run in this time slot to the list, set the duration, speed and brightness, and save.

Fixed Color Schedule:



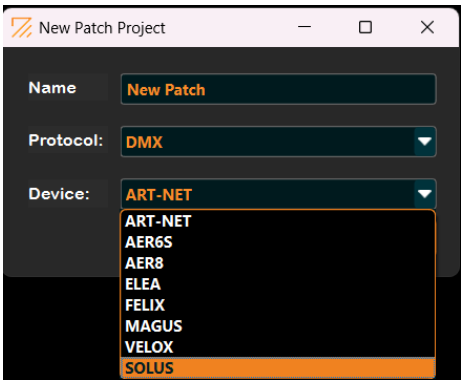
If the timer type is set to fixed color, select the relevant groups or scenes and set their color and brightness for the specified time slot.

Recording Animations for Solus 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 Solus.

NEO can manage up to 128 DMX universes for Solus devices on a single network, supporting large-scale projects with many channels.

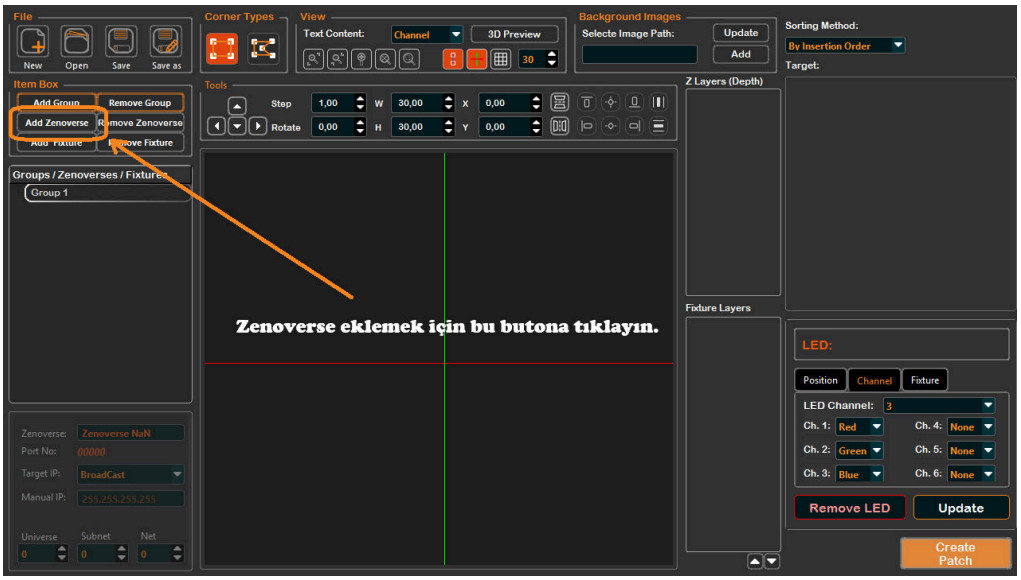
To create a Solus project in NEO, select Patch->New Patch from the main screen menu and choose the SOLUS device as the project parameter.



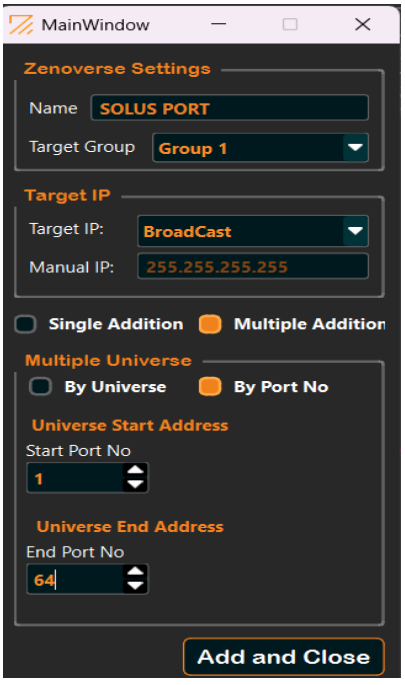
Then set the recording parameters for your configured SOLUS device on the Patch screen. The basic information you need here is:

- DMX channel range and universes to record
- Recording target or group settings

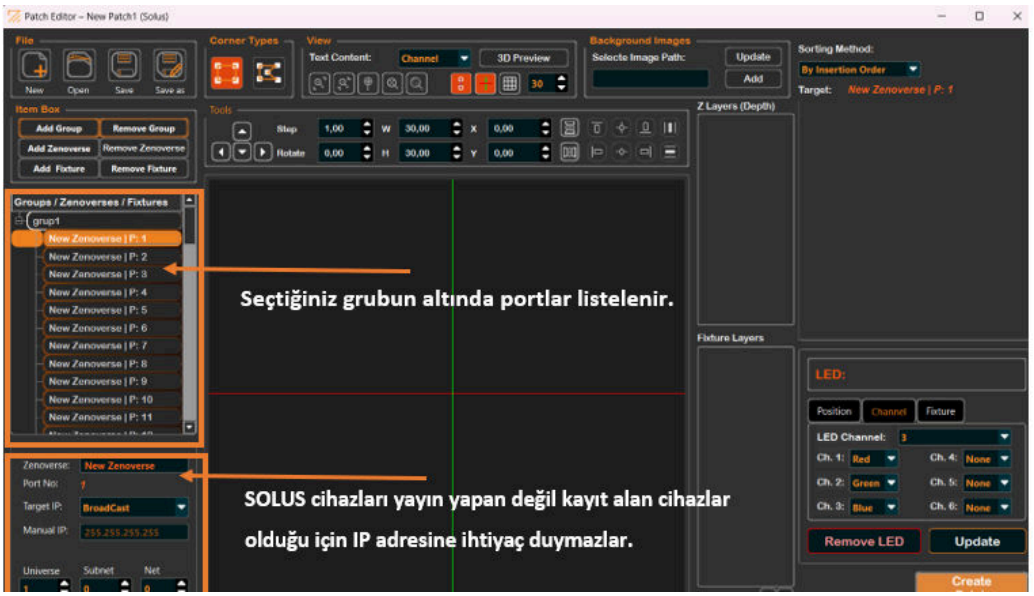
On the Patch screen, click “Add Zenoverse” or the appropriate option for adding a recording or group. Select the target recording group to finish configuring your device.



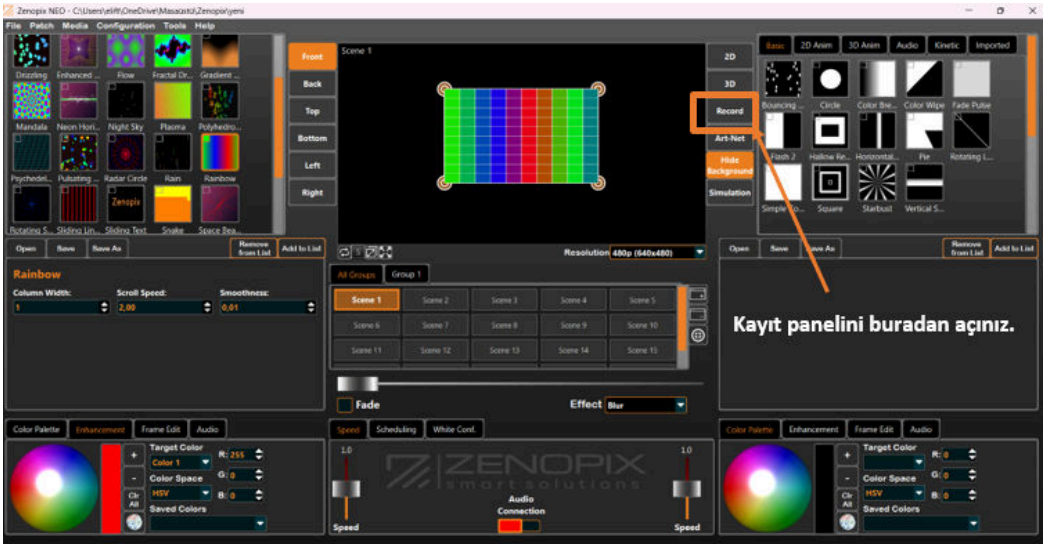
"Single Addition" is the default option, but with the "Multiple Addition" option you can add all ports at once. You only need to know the start and end Universe numbers.



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.



The recording infrastructure of your SOLUS controller is now set up. Once the project design is ready and the animations are selected, open the **"Record"** panel on the main screen to start recording.



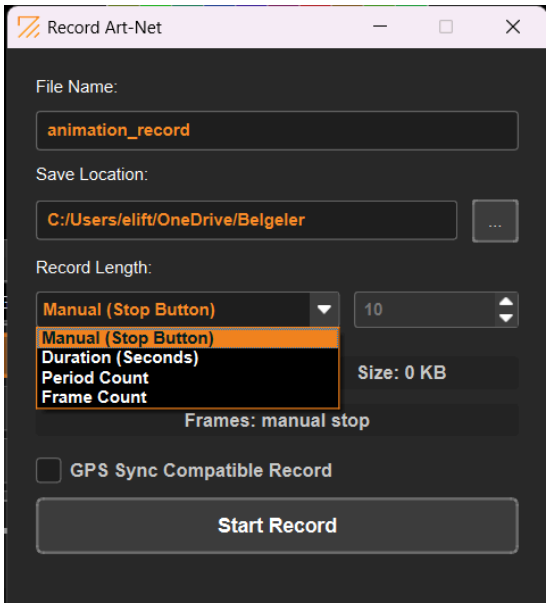
In the Record Art-Net window that opens, you can configure the recording settings as follows:

- File Name: Specify the name of the file to be saved (the default is *animation_record*).

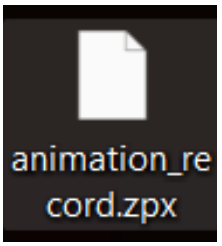
- Save Location: Select the folder on your computer where the recording will be saved. You can change the target directory by clicking the three-dot (...) button next to it.
- Record Length: The mode that determines the duration or end criterion of the recording.

You can choose from the following options in the drop-down menu:

- Manual (Stop Button): Continues recording until you stop it.
- Duration (Seconds): Records for the number of seconds you specify.
- Period Count: Records for a specific number of periods. (Applies to single-group Patch designs.)
- Count: Ends the recording when the specified number of frames is reached.
- GPS Sync Compatible Record: If you are recording for a SOLUS device with GPS, you can enable this option.



After completing all these settings, click the “Start Record” button to start recording the Art-Net broadcasts for your Solus device.



When recording is complete, a recording file with the .zpx extension is created in the selected directory. You can upload this file to your SOLUS device via the SOLUS interface and play your recording.

WARNINGS

- The products must be installed by qualified professionals.
- 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.
- Make sure the operating voltage meets the product specifications.
- This manual is subject to change without prior notice. If you have any questions, please do not hesitate to contact us.

Order Code

PRODUCT CODE	SOLUS TP	128	WM
Capacity			
128 Universes		128	
Enclosure Type			
Wall Mount			WM

Your lighting solution partner

Zenopix is an R&D, technology and manufacturing company specialized in lighting control systems, built on nearly twenty years of expertise in electronics and software.

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