ZENOPIX
smart solutions

Your Solution Partner in Lighting Control

FELIX PRO

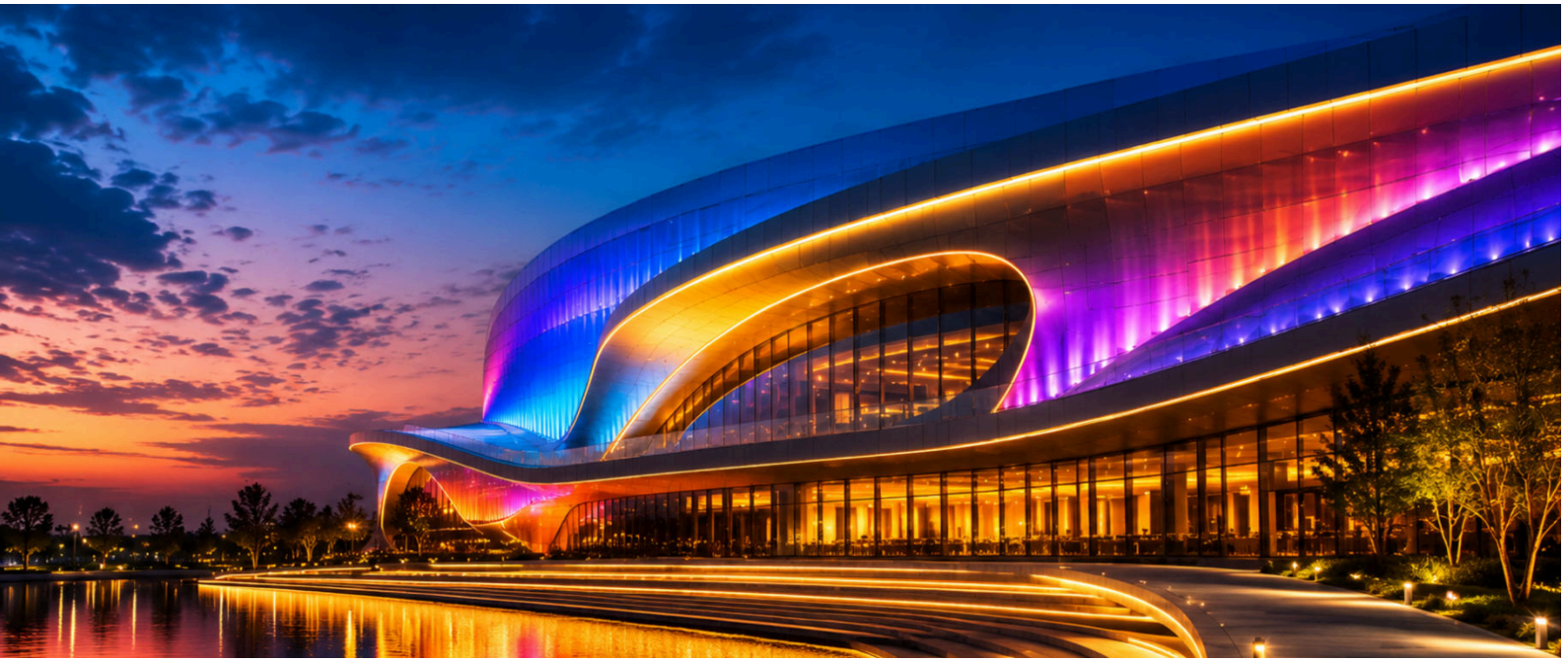
BLUETOOTH DMX-SPI CONTROLLER

USER MANUAL



Version 2 / November 2026

zenopix.com



Thank you for choosing Zenopix FELIX PRO.

Please read this manual before using the product. If you experience any technical problem, you can contact our company using the information below and receive technical support.

Company Information and Contact Address

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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 Felix Pro is covered by the manufacturer's warranty. Detailed information is available in the product warranty certificate or on our website.

Box Contents

1× Zenopix Felix Pro

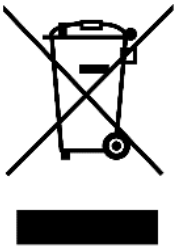
1× Technical Document and Introduction Guide

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 Felix Pro is a standalone lighting controller designed to provide reliable and smooth control of LED lighting systems without requiring a computer during operation. Managed with the app on your phone, Felix Pro plays colors, animations and music-reactive effects directly from the device. This delivers fluid and precise synchronization in architectural, entertainment and decorative lighting applications.

Thanks to its simple installation, stable performance and reliable playback, Felix Pro is an ideal solution for both permanent installations and spectacular lighting projects.

- Controls lighting independently on site with a phone app, without a computer.
- Works with DMX512 and a wide range of pixel LED chips (WS2812, WS2811, SK6812, APA102 and similar).
- Supports single color, Tunable (warm–cool white), RGB, RGBW and RGBWC fixtures and outputs up to 4096 channels in total.
- Device settings and software updates are performed over Bluetooth, without requiring cables or a network setup.
- Built-in animations, your own colors and drawings are stored in the device memory. You can create your own animation list.
- With the Microphone page, the lights move to the music heard by the phone or the device.

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.
⚠️	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

Output Protocol	DMX/SPI
Input Voltage Range	12–24 VDC
Power Consumption (Max)	10 Watt
Output Port	1 × 4096 DMX Channels / 1 × 4096 SPI Channels
Input / Output Connection Type	Screw Terminal
Enclosure	Plastic
Operating Temperature and Humidity	0°C – 55°C / 20 ~ 95% RH
Storage Temperature and Humidity	-25°C ~ 60°C / 10 ~ 95% RH
Dimensions	105 × 43 × 25 mm (L × W × H)
Weight	60g
Protection	IP20
Device Connection	Bluetooth
Certificates	CE,RoHS

Status LED Codes

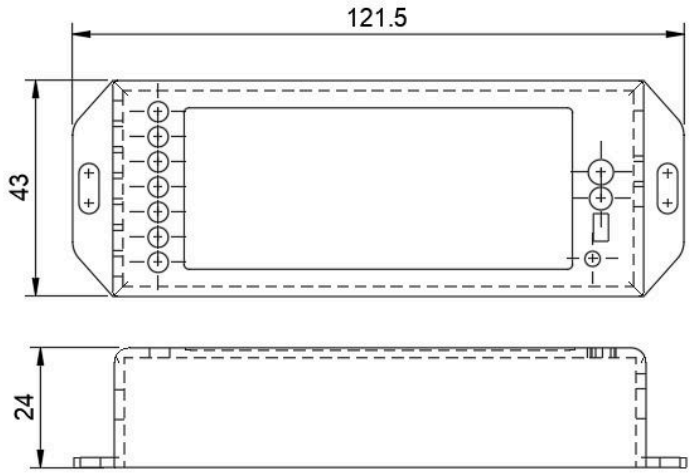
Power LED: This is the power LED. It lights up when power is connected to the device.

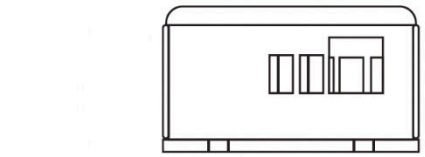
Status LED:

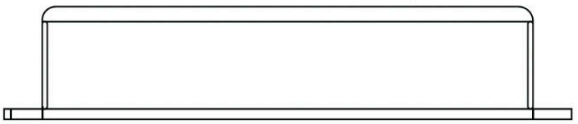
- Red LED: No Bluetooth connection.
- Green LED: Bluetooth connected.

You can find the above information on the device.

Device Dimensions





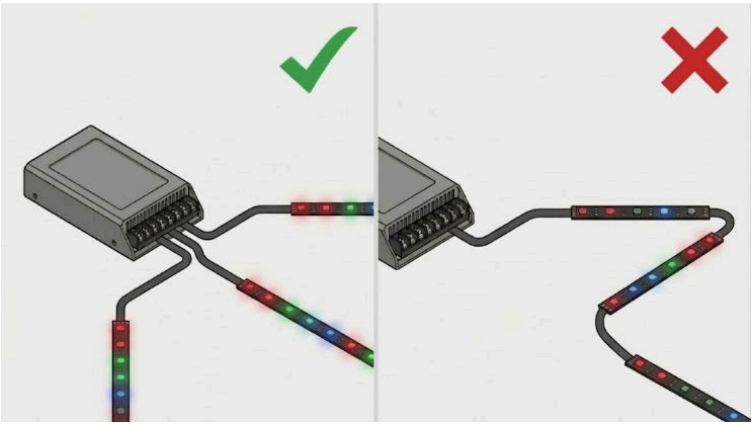




Device Connections



The device can operate at 12-24VDC. Although the device has reverse polarity protection, avoid reverse polarity when connecting power. If LEDs are connected to the power output terminals, be sure to check the polarity of the LED connections. The maximum current that can be carried through the device is 3A. Powering the LEDs through the device is not recommended. If your output current is greater than 3A, do not power your LEDs from the power output terminal on the device. Connect the LEDs directly to the adapter/power supply.



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 in flex LED applications, it is recommended to power the LEDs from both ends to prevent fading/color temperature shift in white colors at the ends of the LEDs caused by voltage drop.

DMX Connection



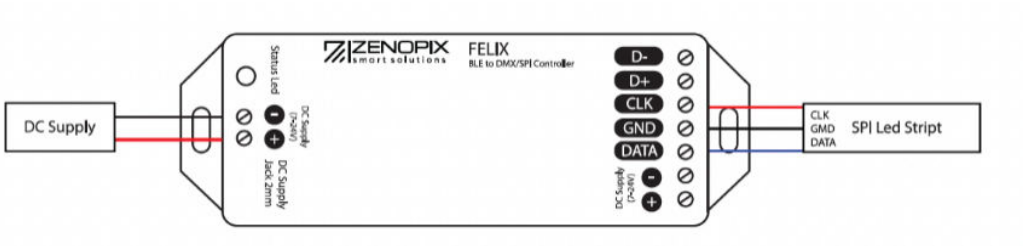
When making the DMX connection, connect the devices in a daisy-chain structure (so that the DMX output of one device is connected to the DMX input of the next device). Never use a Star topology on the DMX line. Where a star structure is unavoidable, use a splitter/repeater (2x4, 1x2, 1x8 options). Make 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 OUT port of the last device. Do not extend your DMX cables beyond 100 meters without a repeater.

[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 products do not receive a signal, you can swap the wires.

[2] Recommendation: Belden cable recommendations for DMX cable are given below. Check that any alternative cable you purchase has a 120 ohm impedance and is twisted pair. If the cable will be used outdoors, choose cables with high UV resistance.

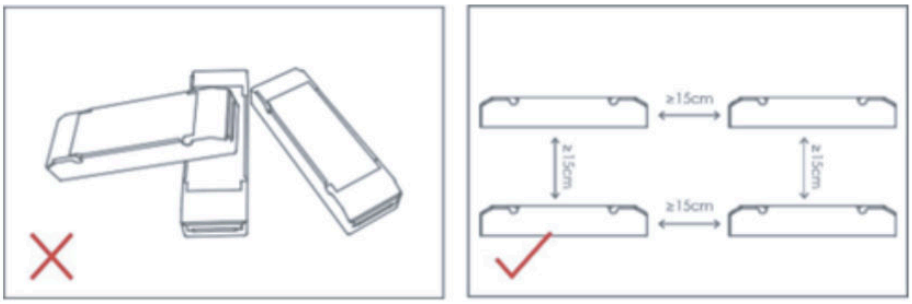
Area of Use	**Cable Type / Feature**	**Recommended Belden Cable**	**General / Local Code Equivalent**
Indoor	Standard (PVC Jacket)	Belden 9841	LI2Y(St)CH / LIYCY(TP)
Indoor	Halogen-Free (LSZH/HFFR)	Belden 9841NH	LI2Y(St)CH
Outdoor	UV Resistant	Belden 3105T	LI2Y(St)C2Y
Outdoor	Armored (Underground Runs)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

SPI Connection

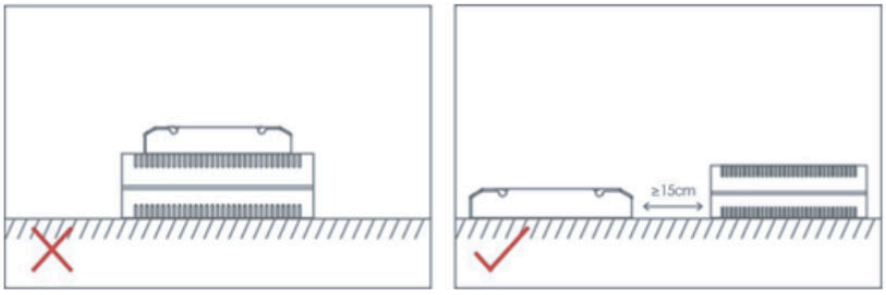


Zenopix Felix Pro has 1 SPI output. This SPI output also supports a Clock line. When making an SPI LED connection with Zenopix Felix Pro, connect your LEDs to the terminal with the same name label. If your LEDs have more than one data pin (for example, the Backup Control data pin on WS2815), you can short it with the LED's data out pin and connect them as a single data pin. In SPI systems, the GND references of the systems must always be connected together. For more details, refer to the user manual of the LED strip you are using.

Installation and Precautions



In multi-device scenarios, please do not stack the products on top of each other. Leave more than 15 cm between two devices so as not to adversely affect heat and signal distribution or the service life of the products.



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.



Isolation of the signal lines is critical for stable operation of the Zenopix Felix Pro 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.



Do not install the device inside fully enclosed metal panels or enclosures. Since the device communicates via Bluetooth (BLE), metal enclosures will create a Faraday cage effect and block radio frequency signals. For outdoor installations, ABS or polycarbonate plastic enclosures should be preferred.

My Devices Menu

Download the Zenopix Felix Pro app to your phone and turn on your phone's **Bluetooth** connection.

When you open the app, you will be greeted by the screen in **Figure-1**. This screen lists the devices you have previously connected to. To add a new device, tap the **+** button at the bottom right.

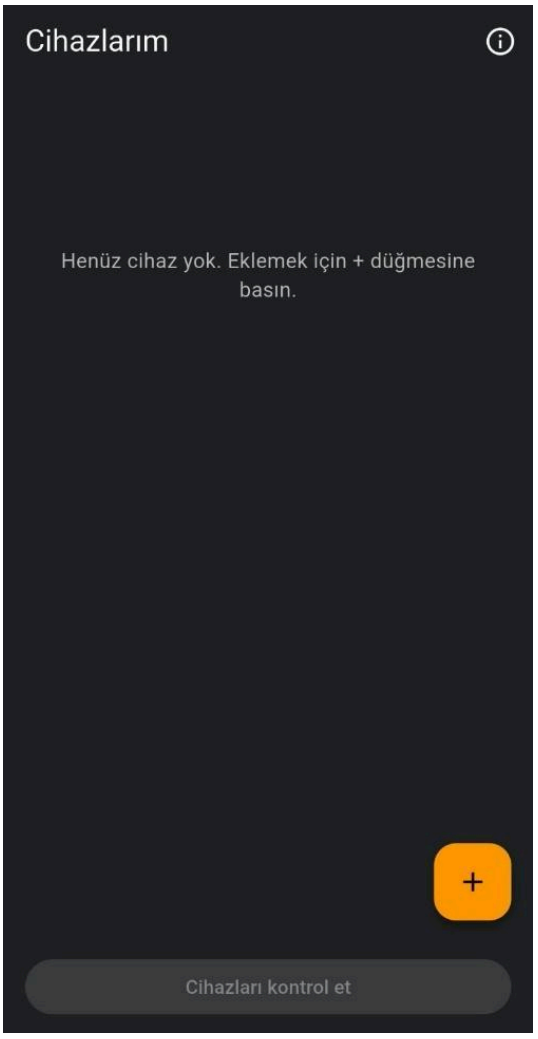


Figure-1

Your phone scans for available devices and lists them as shown in **Figure-2**. Add the devices you want to your list by tapping the **Add** button. After the device is added to the list, its name, whether you are connected to it, and its model are displayed as shown in **Figure-3**.

After connecting your device(s), as shown in **Figure-3**, tap the **Control Devices** button at the bottom of the screen to start controlling them.

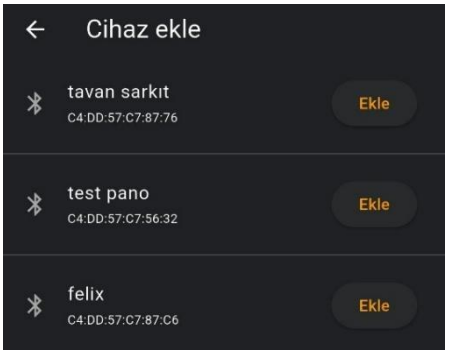


Figure-2

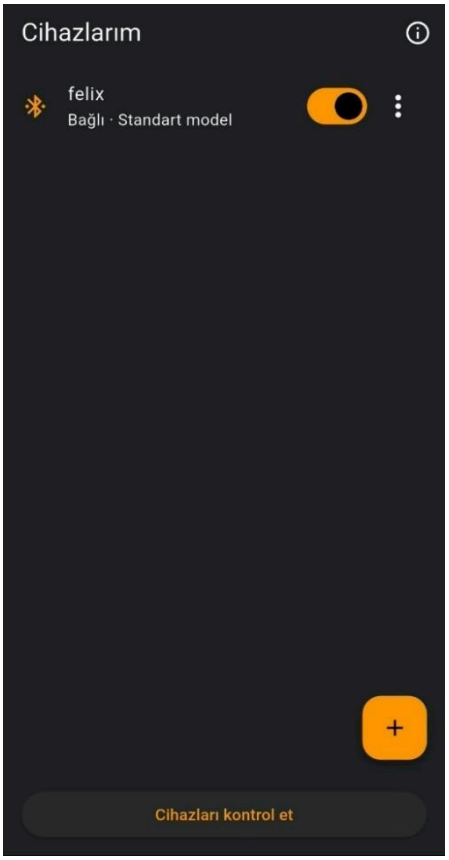


Figure-3

To control multiple devices at the same time with the standard Felix Pro model, THE LED TYPE AND COUNT (number of rows and columns) MUST BE THE SAME. A MAXIMUM OF 4 STANDARD FELIX PRO UNITS CAN BE CONNECTED AT THE SAME TIME.

Felix Pro SD units can only be controlled individually.

In Figure-4, tap the **three dots** to the right of the device in the list. The menu that opens in **Figure-5** has four options:

Option	What does it do?
1 · Settings	Opens the device name, LED count, LED mode and layout settings. (See the **Settings** section for details.)
2 · Addressing	Explained in detail in the Addressing section. (See the **Addressing** section for details.)
3 · Order Test	Lets you check the order of the LEDs by lighting them one by one. (See the **Order Test** section for details.)
4 · Remove from list	Removes the device from your list in the app. If necessary, you can add it again with **+**.

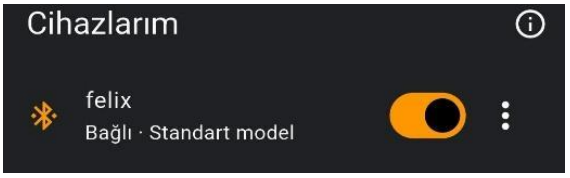


Figure-4

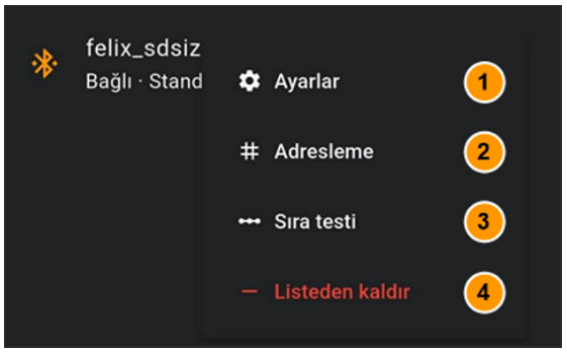


Figure-5

Settings

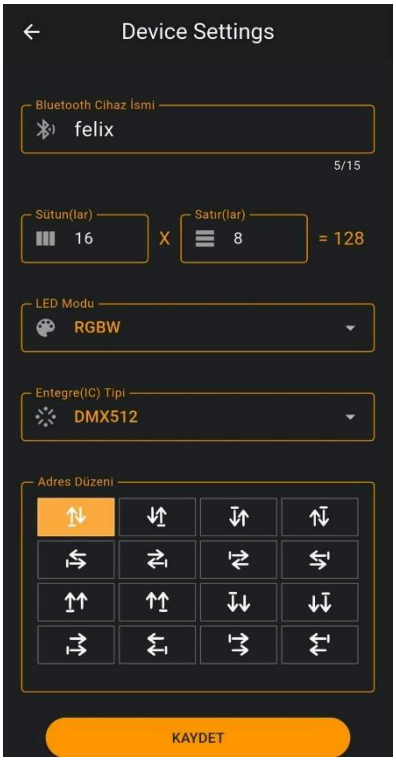


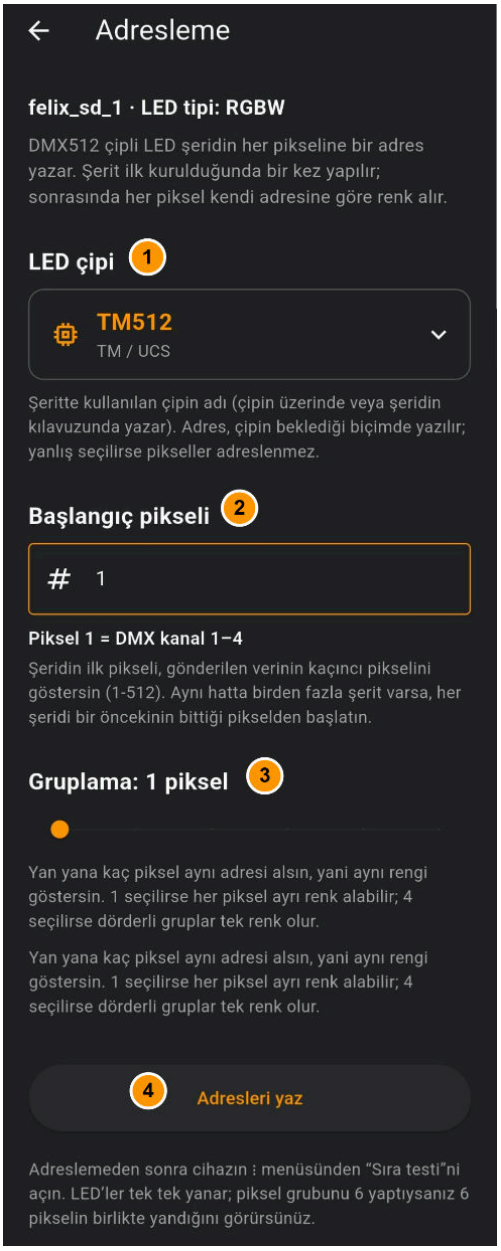
Figure-6

After entering the Settings tab, you will see the screen in **Figure-6**. Here you can set the name of your Felix Pro device, the pixel count of your LEDs, channel settings such as RGB, RGBW and GBR, and the type of your DMX and SPI IC. If your LEDs are arranged in a matrix, you can select the order in which they are connected under the address layout. After making the settings, tap the **SAVE** button to save the device settings and return to the My Devices menu.

Addressing

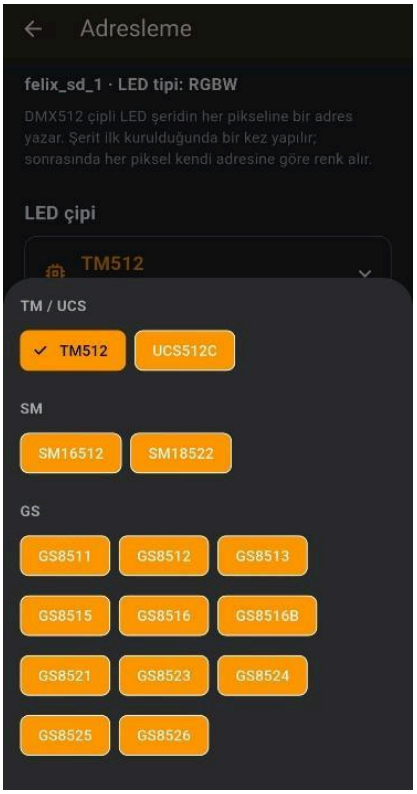
Before you start

- Felix Pro must be connected to the LED strip/panel, and the strip must be powered.
- Your phone's Bluetooth must be on and you must be connected to the device in the app.
- Do not cut the power to Felix Pro or the strip during addressing.



1. LED Chip: Select the name of the chip on your strip. If the wrong chip is selected, addressing will fail.

1.1 LED Chip Selection List



2. Start Pixel: Specify the pixel position from which the strip will start.

3. Grouping: Set how many pixels will receive the same color.

- 1: Each pixel receives a separate color.
- 4: The pixels form consecutive groups of four, each group has its own color, and all 4 pixels in a group take that color.

4. Write Addresses: Pressing the "Write Addresses" button starts the addressing process. **Do not turn off the device during addressing. After addressing, the device will reset itself and then automatically reconnect to the phone.**

Order Test

The order test lets you check the order of your panel or strip by lighting the LEDs one by one in sequence. After entering this tab, you will see the screen shown below. There are 2 options here:

Panel Order:

The LEDs light up in reading order: **starting at the top left and proceeding left to right, row by row. If you have configured Felix Pro correctly, the light should progress this way.**

A live preview of what will happen on the panel is shown on the pixel map.

If you activate the Light colors in sequence option, the test progresses by lighting the primary colors of each pixel one by one according to the LED type of the selected Felix Pro. This is useful for detecting dead pixels on your strip or panel.

The start and end pixels can be set, and you can jump to any target pixel.

You can increase the test speed by reducing the step time.

If the LEDs in this test do not follow the preview, review your device's address settings.


Sıra testi
LED'leri tek tek yakarak panonun sırasını kontrol edin. Pano sırası ayarınızı, Şerit sırası ise gerçek kablolamayı gösterir.
Pano sırası
Şerit sırası
LED'leri kablonun gerçek sırasıyla yakar: 1., 2., 3. LED... Işığın izlediği yol, panonun nasıl kablolandığını gösterir. Adres düzeni ayarına bakmaz; ayarı seçerken bu yola göre karar verin.
Piksel 1 / 192
Satır 8 · Sütun 1
Döngü
Renkleri sırayla yak
Her piksel ana renklerini sırayla gösterir; LED tipinin doğru seçildiğini kontrol eder.
Başlangıç
1
Bitiş
192
Piksele git
1 - 192
Adım süresi: 500 ms

Strip Order:

The LEDs progress in the actual order of the wiring. This mode ignores the address layout setting. The path the light follows shows how the panel is actually wired. **If you do not know how the LEDs are wired, it is recommended to look at this path when choosing the address layout setting.**

A live preview of what will happen on the panel is shown on the pixel map.

If you activate the Light colors in sequence option, the test progresses by lighting the primary colors of each pixel one by one according to the LED type of the selected Felix Pro.

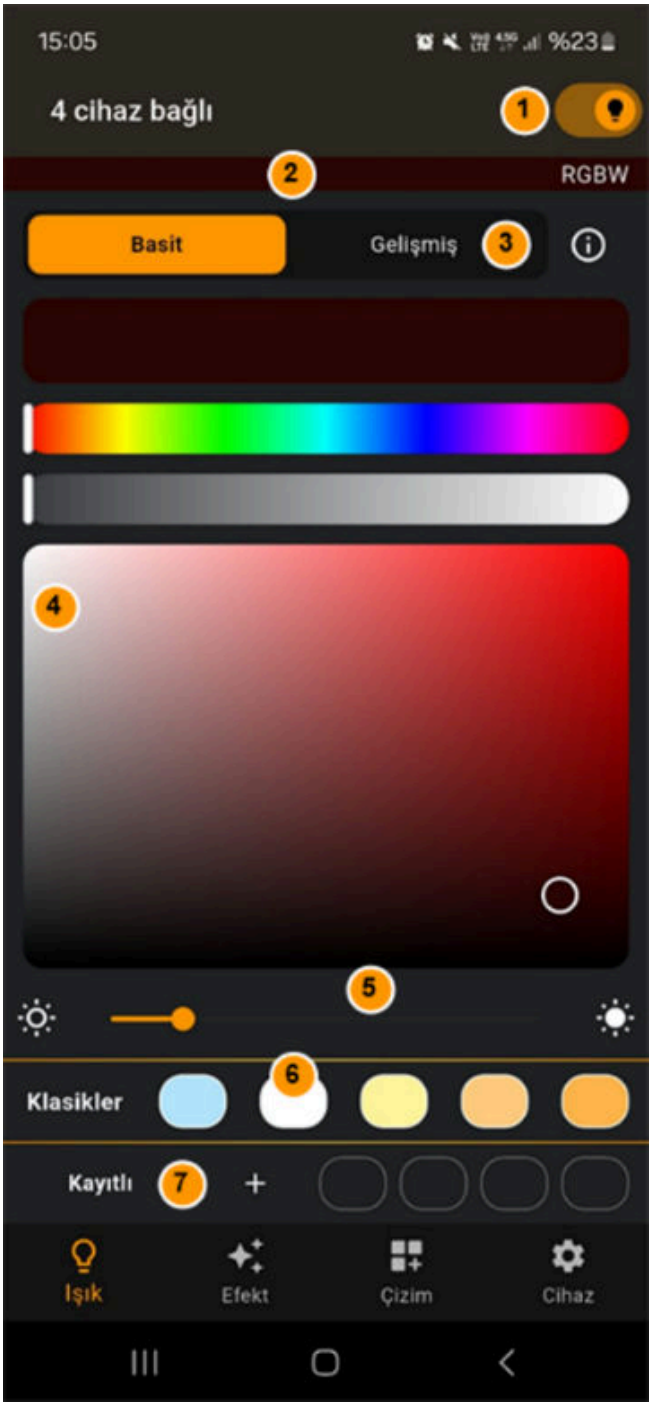
The start and end pixels can be set, and you can jump to any target pixel.

You can increase the test speed by reducing the step time.


Sıra testi
LED'leri tek tek yakarak panonun sırasını kontrol edin. Pano sırası ayarınızı, Şerit sırası ise gerçek kablolamayı gösterir.
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LED'leri kablonun gerçek sırasıyla yakar: 1., 2., 3. LED... Işığın izlediği yol, panonun nasıl kablolandığını gösterir. Adres düzeni ayarına bakmaz; ayarı seçerken bu yola göre karar verin.
Piksel 1 / 192
Satır 8 · Sütun 1
Döngü
Renkleri sırayla yak
Her piksel ana renklerini sırayla gösterir; LED tipinin doğru seçildiğini kontrol eder.
Başlangıç
1
Bitiş
192
Piksele git
1 - 192
Adım süresi: 500 ms

Light Menu

This is where you select the color and brightness of Felix Pro's light. Depending on the LED type, there is only a Simple menu or both Simple/ Advanced menus. (Details are explained in the **Simple/Advanced** section.)



The numbers in the image correspond to the list below.

1. Bulb Switch: When off, the light of the connected devices goes out. WHILE THIS SWITCH IS OFF, THE LEDS ALWAYS STAY OFF. TURN THE SWITCH ON TO SEE YOUR CHANGES.

2. Thin color strip: Shows the color you selected. Your device's LED type is shown on its right.

3. Simple/Advanced tabs: (Details are explained in the Simple/Advanced section.)

4. Color Selection Area: You can select the color you want here. Its appearance changes according to the LED type.

5. Brightness Bar

6. Classics: Preset colors selected with a single tap.

7. Saved: Where you store your own colors and recall them with a single tap.

Simple/Advanced Menu

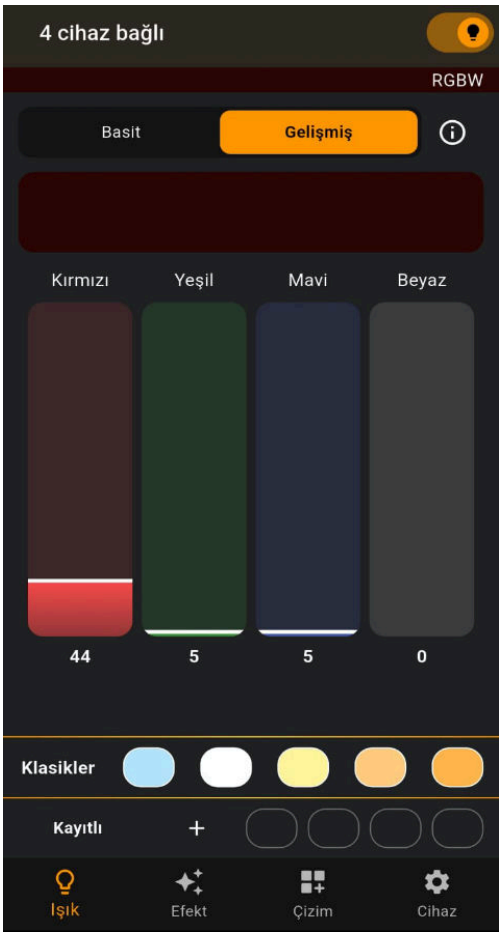
These two tabs at the top of the Light tab adjust the same light in two ways. Switching tabs does not change the light; color and brightness are kept.

Simple Menu:

Pick a color from the color strip, then slide your finger across the area: left-right changes the color from vivid to pale, up-down changes brightness. Felix Pro calculates each LED's level itself. Simple is enough for most uses. (See the example in the Light Menu.)

Advanced Menu:

Set each color channel to a value from 0 to 255. The channel sliders control brightness, so the bottom brightness bar is hidden in this tab.



Light Menu by LED Type

LED type	What do you see and what do you do?
RGB	Simple: Select a color from the color strip. In the area below it, sliding left-right changes the color from vivid to pale, and sliding up-down changes the brightness. Advanced: Use separate sliders for red, green and blue to create your own mix.
RGBW	Like RGB. In Simple, there is also a white strip below the color strip; use it if you want pure white light. Advanced also provides a White slider.
RGBWC	Like RGBW. In addition, below the white strip there is another strip for selecting the warm–cool tone (two separate white LEDs).
Cool-Warm	Simple: Sliding left-right in the area changes the light from cool to warm, and sliding up-down changes the brightness. Advanced: Use separate sliders for Warm and Cool.
Single Channel	Since it is a single color, you only see one vertical bar. Drag up to increase the light and down to decrease it. There is no color selection.

Effect Menu

The Effect tab gathers the animated light shows. There are three sections at the top: **Animation, Microphone and SD Card. The SD Card section appears only on the Felix Pro SD model.**



Animation Menu

The Animation section has two more options: **Single and List.**

Single:

Tap an animation in the list and the device plays it immediately. Built-in animations:

Animation	What does it do?
Breathe	The light slowly fades out and in.
Pulse	Two beats like a heartbeat, then a rest.
Flowing Light	Soft bands of light flow along the strip.
Wave	Light comes in waves; bright areas shift to the second color.
Comet	A light moves forward, leaving a fading tail behind it.
Two-Tone Comet	Like Comet, but the tail turns to the second color as it fades.
Flash	A soft flash, then a fade. The color changes each time.
Sparkle	Random points light up and fade out.
Candle	Flickers gently like a candle flame.
Fire	Flickers vividly like a flame; bright areas turn the second color.
Sunrise	Slowly brightens, shifts to the second color, fades (very slowly).
Hue Breathe	Brightness stays fixed; the color shifts between two colors.

Features of the Single Menu:

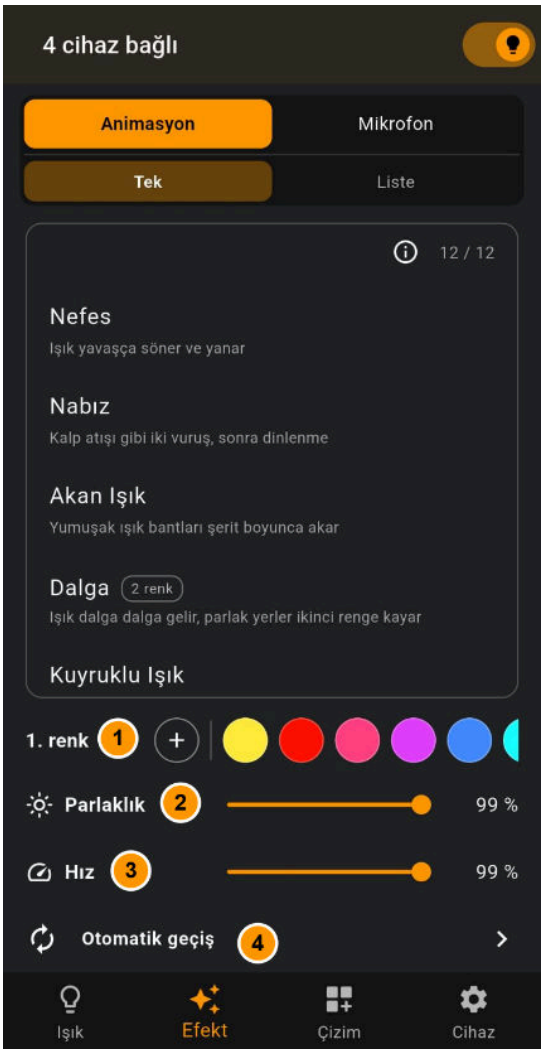
1. First Color: The default color selection, available in every animation. Tap the **+** button to add a color of your choice.

2. Brightness: Available in every animation. Sets the brightness of the selected animation.

3. Speed: Available in every animation. Sets the speed of the selected animation.

4. Auto Transition: Available in every animation. From here you can control automatic playback of the built-in animation list.

If activated here, you can set how many seconds each animation is played.



When Felix Pro is turned off and on, **ONLY** the last selected effect and its settings are retained.

If you want to permanently store different settings for each effect, use the List menu. **IN THE LIST MENU, YOUR SETTINGS ARE WRITTEN TO MEMORY**.



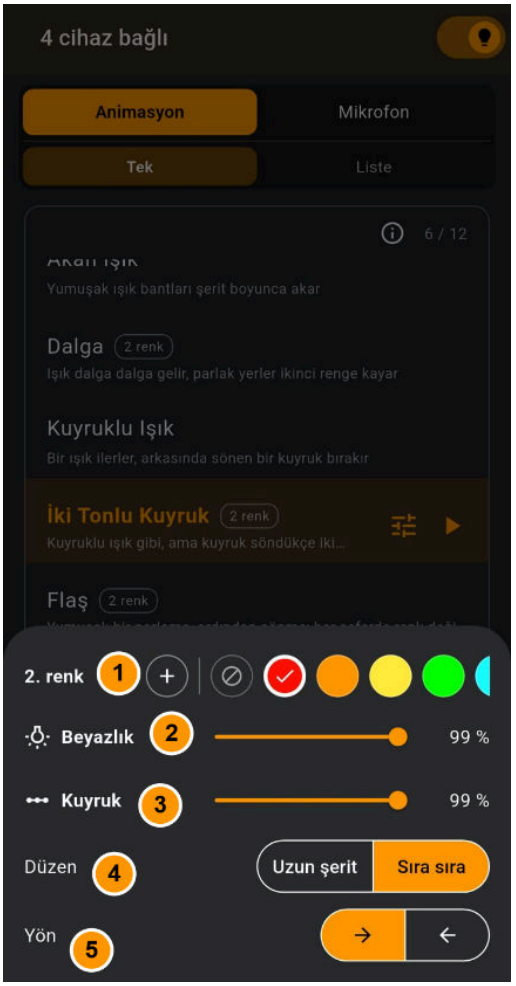
1. Second Color: Not in every animation. Supported ones show “2 Colors” next to their names. It appears in the settings of 2-color animations and blends the two colors.

2. Whiteness: Only for the RGBW LED type. Sets the White channel level.

3. Tail: Only for animations with a tail. Sets the tail length.

4. Layout: How the animation progresses. **Long Strip:** LEDs light in wiring order like a long strip. **Row by Row:** Each row (column) moves left to right at once. Recommended for panels.

5. Direction: Only in flowing animations. Sets the flow direction.



List

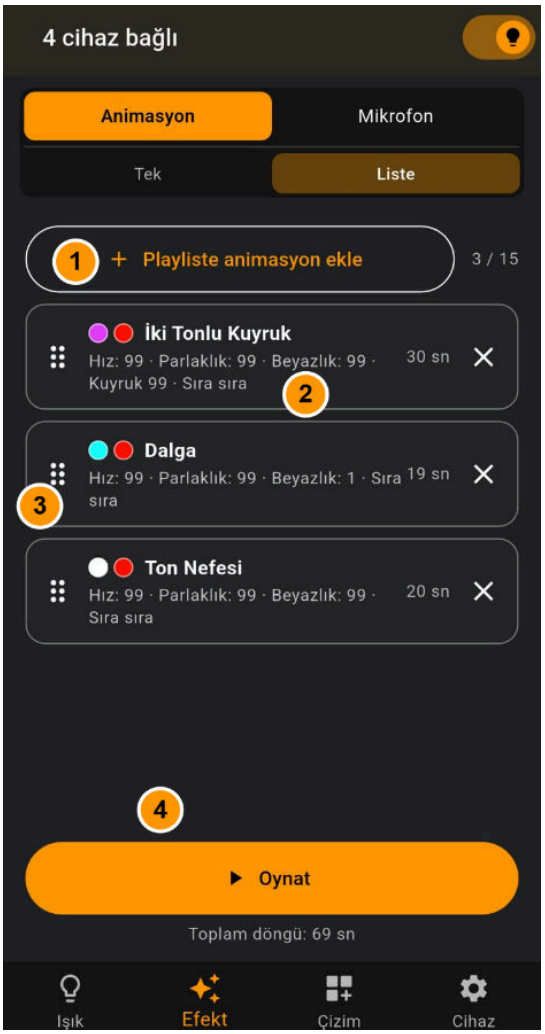
List lets you save animations selected from the Single menu with the settings you want and play them in the order you want.

1. Tap the "**+ Add animation to playlist"** button to add the animations you want to the list with the settings you want.

2. This section shows the color(s), name, speed, brightness and other properties, and duration of the animation you added.

3. Press and hold this section and drag to change the order of the animation.

4. Tap the Play button to play the List in an endless loop. When the list ends, it starts again from the beginning.



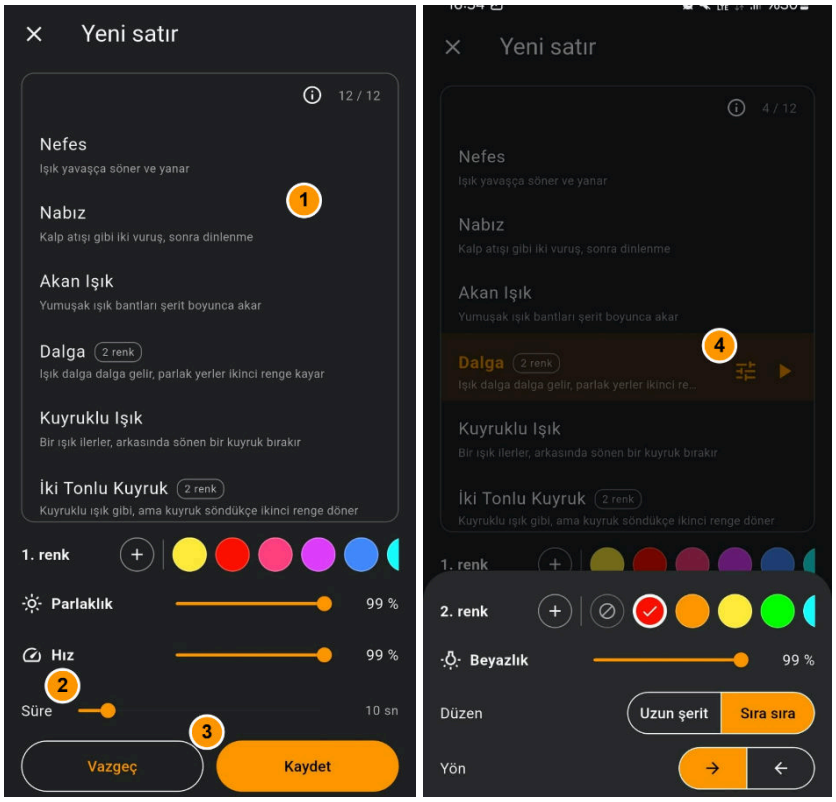
When you choose Add animation

1. Select the animation you want to add.

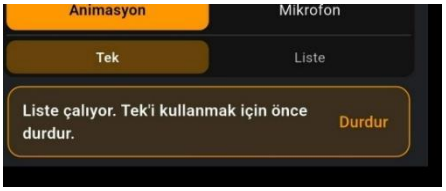
2. Set how long you want the animation to play.

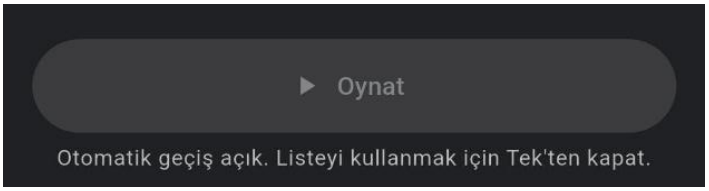
3. Tap Save to save it to the list.

4. Animation-specific settings are made with the settings button that appears when you tap the animation.



Single and List **CANNOT PLAY AT THE SAME TIME**. To use Single, you must first stop the List. To use the List, auto transition must be OFF in the Single menu.





Microphone Menu

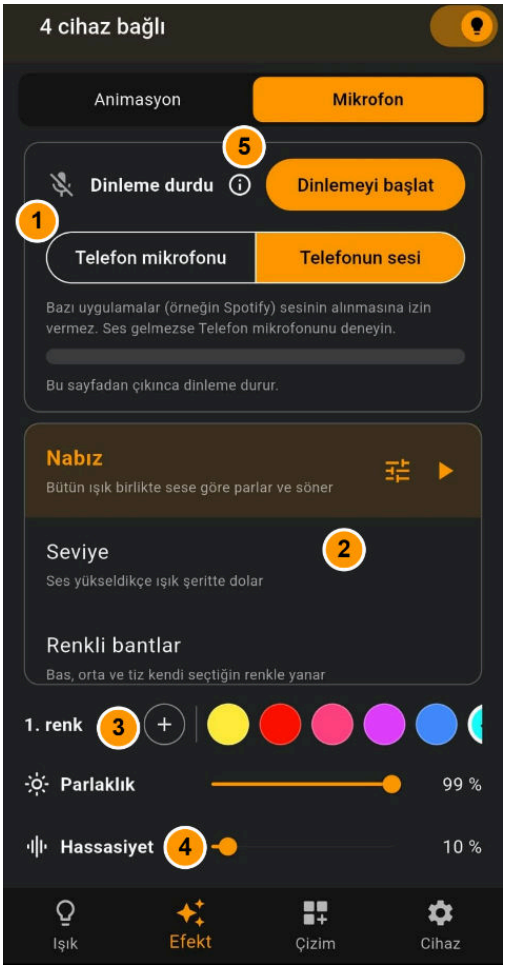
The Microphone section moves the light according to sound. Without music, the light stays off.

1. You can check the listening status and select the sound source. (Details in the **Sound Source** section.)

2. This is the list of Sound Effect Animations. Each animation has its own properties. (Details in the **Sound Effects** section.)

3. This is the first color selection, available in every sound effect.

4. Adjust how sensitively the app responds to the selected audio input.



Sound Source

Option	When to use it?
Phone microphone	Listens to the sound in the environment. It also picks up ambient noise and does a poor job of capturing bass frequencies.
Phone audio	Takes the music playing on the phone directly and gives a cleaner result. Works on Android 10 and above. While this option is selected, a "Felix Pro is capturing audio" notification appears on the phone. **This option is recommended if you will use settings such as bass and treble.**

Sound Effects

Effect	What does it do?
Pulse	All the light brightens and dims together with the sound.
Level	The light fills the strip as the sound gets louder.
Color Dance	Colors shift quickly as the sound gets louder and slowly when it is quiet.
Color Bands	Bass, mid and treble light up in the colors you select.
Spectrum	On a panel, each column shows a bar for a different frequency band, with lower frequencies on the left and higher on the right. Works on panels with at least 8 columns and 4 rows; on smaller devices it falls back to a simple level bar.

Sound Effect Specific Settings

Pulse

1. The effect plays according to the setting you select.



Level

1. Select the setting that controls the effect.

2. Choose whether the level fills horizontally or vertically.

3. Set whether the LEDs start from the beginning or the middle.

4. Select the direction in which it will move.

5. Select “Long Strip” or “Row by Row”. **(See Layout in the Single menu.)**



Color Bands

1. Select the color for the bass band.

2. Select the color for the midrange band.

3. Select the color for the treble band.

4. If you select All together, the selected colors are applied to all LEDs according to intensity and blend together. If you select Sections, the panel is divided symmetrically according to its size and each section shows only its specific color.



Spectrum

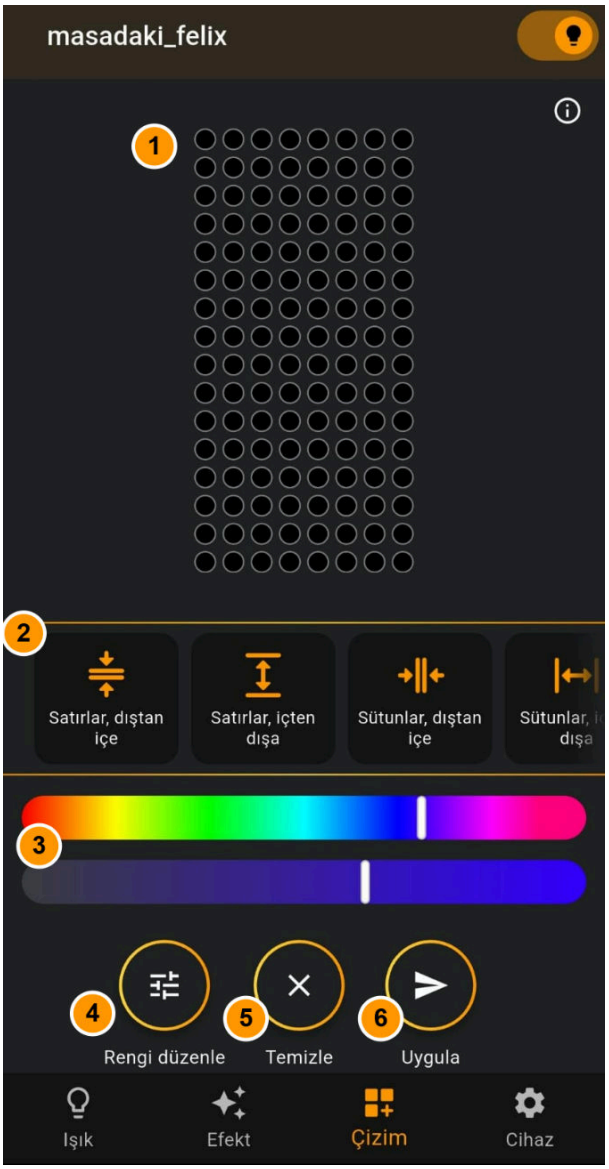
1. Select the direction from which the bars will rise.

2. If you select a second color, the bars transition from the first color to the second color as they rise. If you do not, the spectrum is a single color.



Drawing Menu

In the Drawing tab, you use your panel like a canvas. You paint the LEDs you want in the colors you want. The picture you draw is stored on the device.



1. **Panel**: An exact representation of the panel connected to Felix Pro. Each circle is a pixel. The number of rows and columns comes from the device setting. If you select a color and tap a circle or drag your finger, that pixel/ those pixels are painted in the selected color. If you long-press a circle, you can adjust the color of that circle in detail (by setting a value for each of its channels individually).

If the panel is too large to fit on the screen, scroll with two fingers and pinch to zoom in or out.

2. **Effect List**:

You can animate the picture you have drawn. The effect turns the drawing's pixels on and off in the selected sequence. The drawing is not deleted.

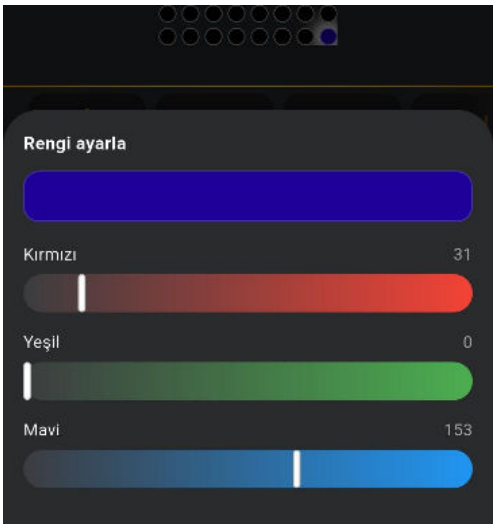
- Rows, outside to inside
- Rows, inside to outside
- Columns, outside to inside
- Columns, inside to outside
- Columns, backward
- Columns, forward
- Rows, up
- Rows, down

Tap the playing effect again to stop it. If the panel is very narrow or has a single row, effects that would be meaningless are not shown in the list.

3. **Color Strips**: Select the color you will paint with here. The upper strip sets the color and the lower strip sets the brightness. The number of strips varies according to the channel type. (See the **Menus by Channel Type** section for details.)

4/5/6. Edit Color / Clear / Apply:

Button	What does it do?
Edit Color	You can adjust the color settings of the pixel selected on the screen in more detail. You can set each channel individually. You can also do the same by long-pressing a pixel.
Clear	Deletes the entire drawing on the panel. Before deleting, the app asks, "Delete drawing?"
Apply	Applies the drawing on the mobile screen to all connected devices. **OLD DRAWINGS ON THE DEVICES ARE DELETED.**

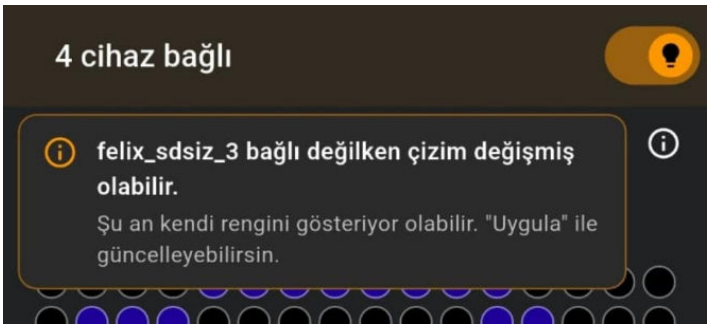


The tab displayed when Edit Color is opened



When you zoom in on the panel, the pixel numbers are displayed as shown in the image

The drawing is stored on Felix Pro. Even if you close the app or unplug and replug Felix Pro, the drawing stays in place. When using multiple Felix Pro units, if the drawing is changed while one Felix Pro is not connected, the following warning appears after it connects. You can synchronize all Felix Pro units by tapping the Apply button.

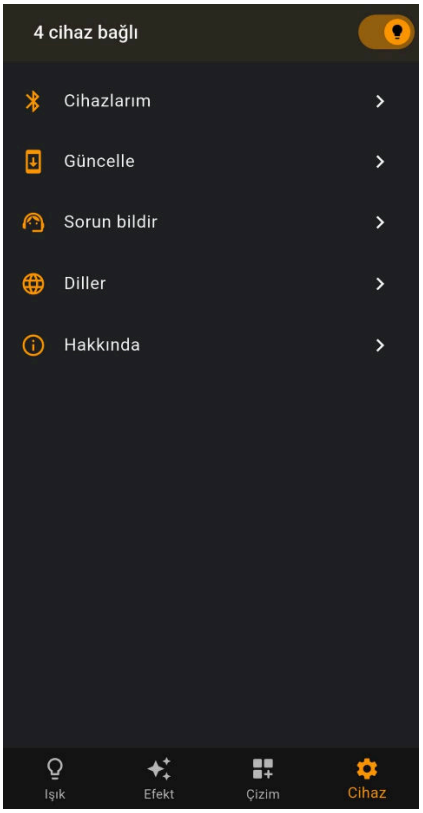


"... the drawing may have changed while it was not connected." "It may currently be showing its own colors. You can update it with 'Apply'."

Device Menu

The Device tab contains these device management and app settings options:

Row	What is it for?
My Devices	Returns to the device list (see the **My Devices Menu** section.)
Update	Updates Felix Pro's software. A red dot blinks next to it when an update is available.
Report a Problem	Prepares and shares a support report when a problem occurs.
Languages	Selects the app language.
About	Version info, privacy notice, contact and problem reporting.

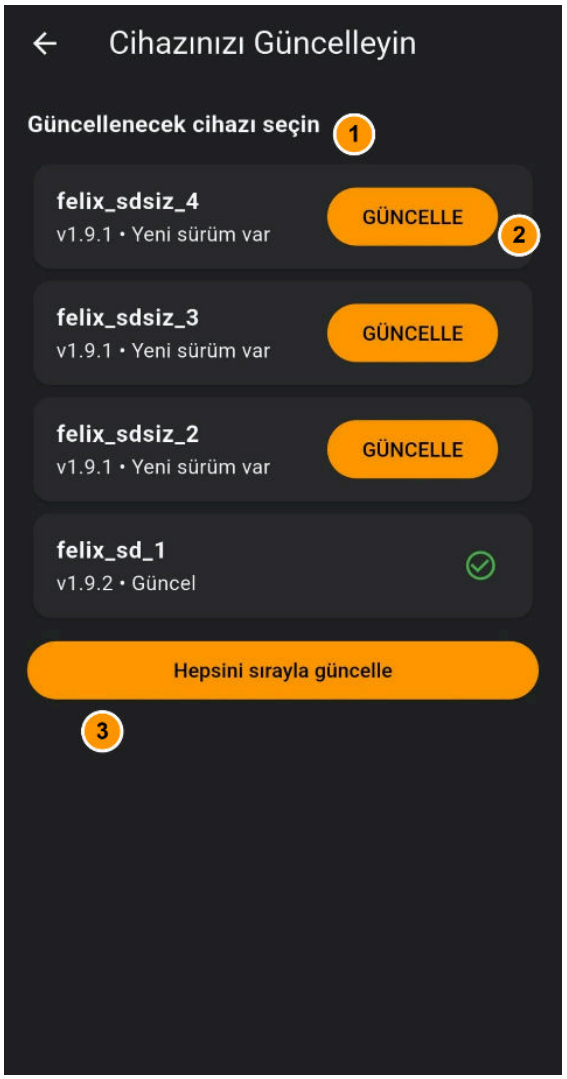


Update Menu

Felix Pro's software is updated from time to time with new features and fixes, from your phone over Bluetooth.

Before you start

- Make sure your phone is connected to the internet. (The new software is downloaded once and transferred to the device via Bluetooth.)
- Keep the phone close to Felix Pro.
- The update takes a few minutes. Do not close the app or press back during this time.



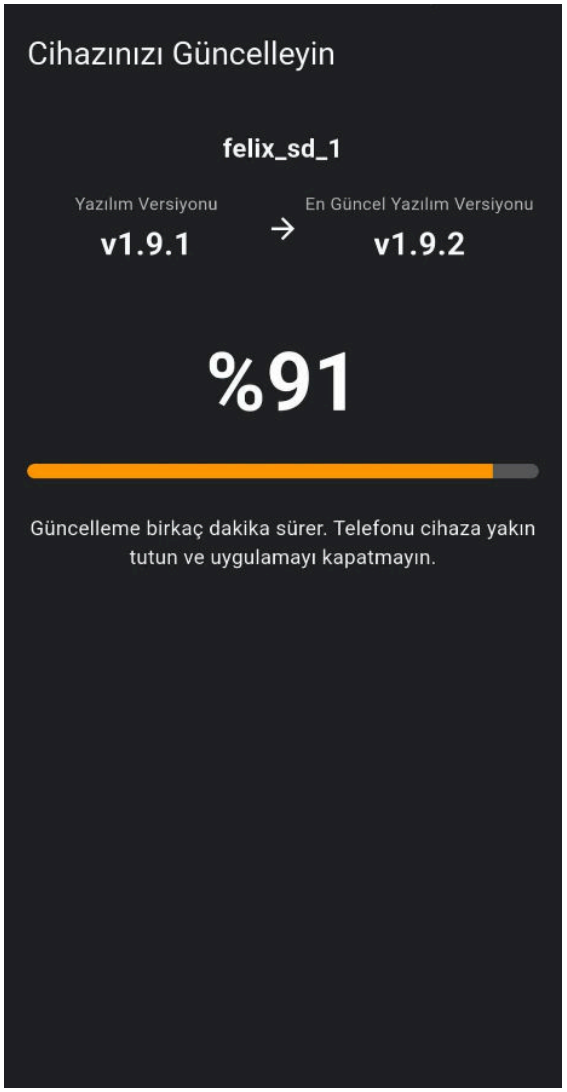
This is the Update menu when more than one Felix Pro is connected.

1. Device status: Shows the current version status of the connected devices.

2. Update: Tap this button to **UPDATE ONLY THE SELECTED DEVICE.**

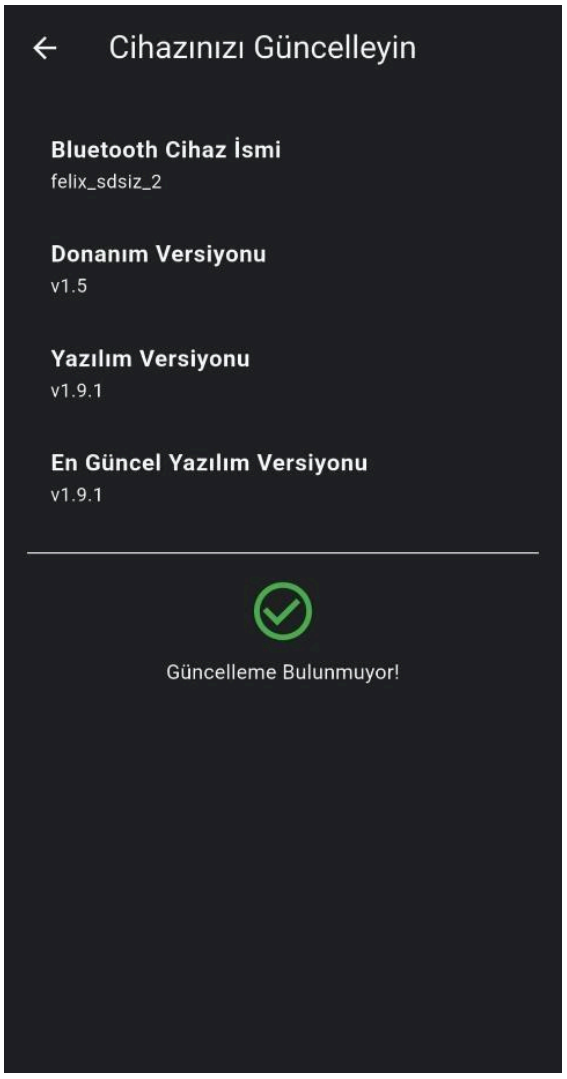
3. Update All in Sequence: Tap this button to update the connected devices **IN SEQUENCE**, one after another. **IF AN UPDATE FAILS, IT IMMEDIATELY MOVES ON TO THE NEXT DEVICE.**

This is how it looks while the device is being updated.



Do Not Turn Off the Device Until the Update Is Complete!

This is the screen displayed when the device update is complete. You can return to the Device menu by pressing the back button.

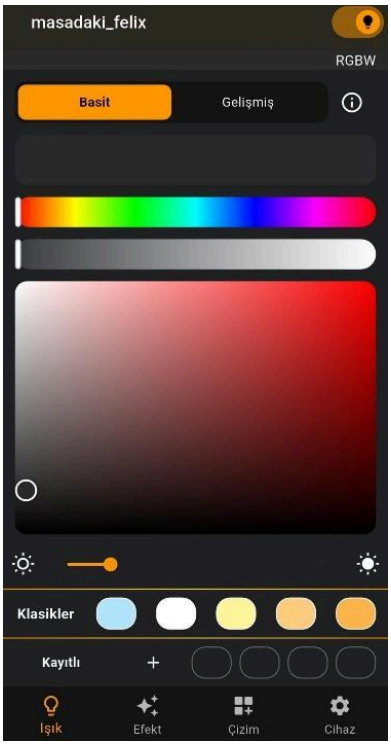


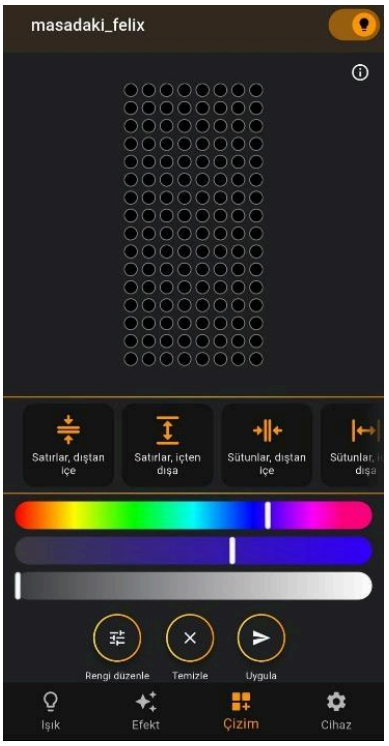
Menus by Channel Type

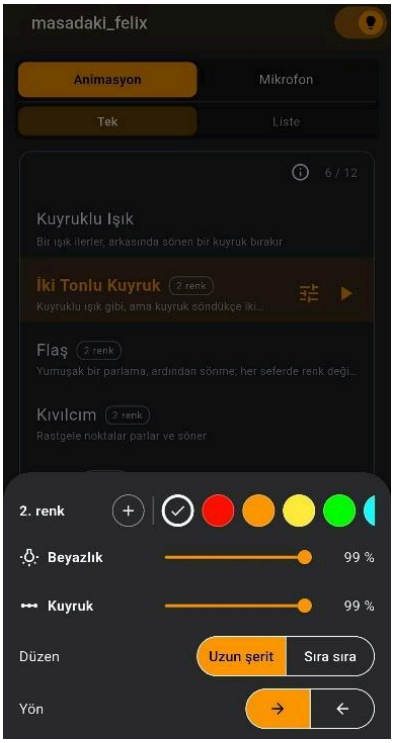
RGBW

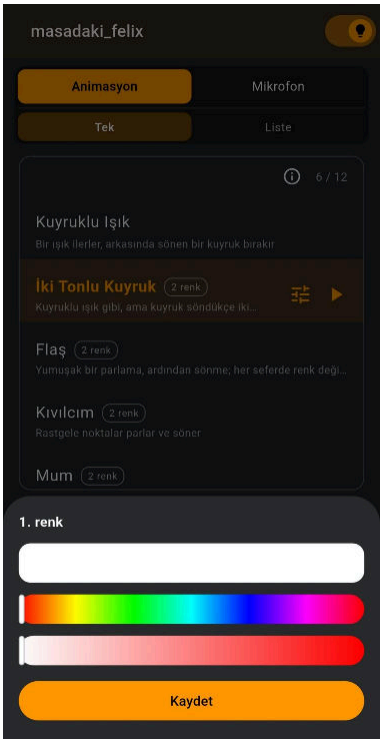
Light/Advanced Menu ***Light/Simple Menu*** ***Drawing Menu***







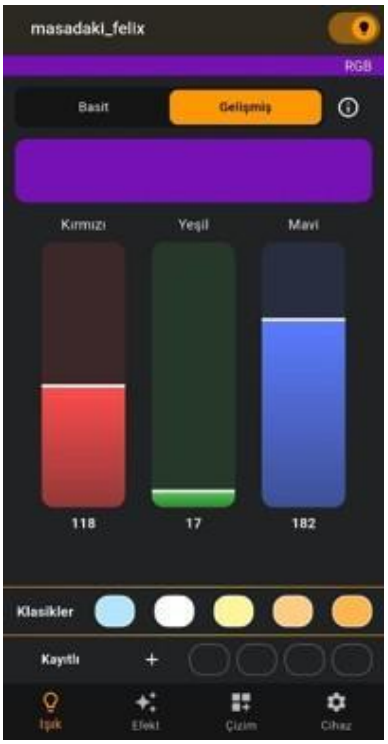




Effect Settings ***Effect Settings Custom Color***

RGB

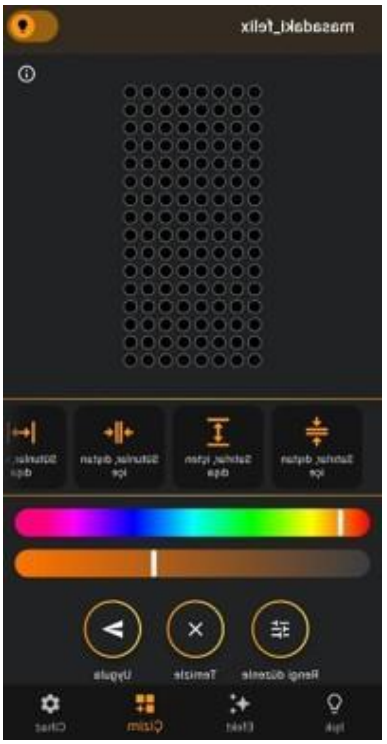
Light/Advanced Menu



Light/Simple Menu

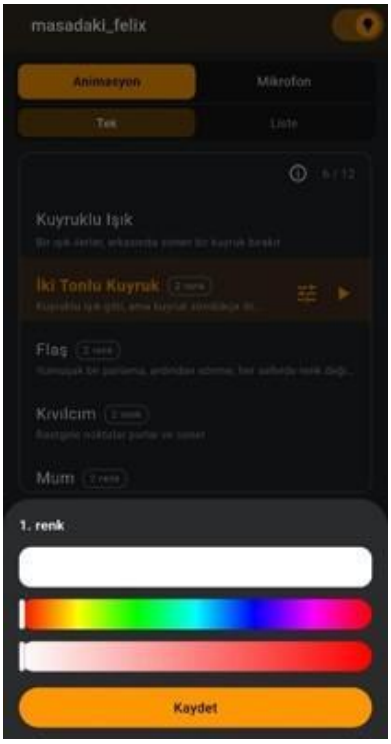


Drawing Menu





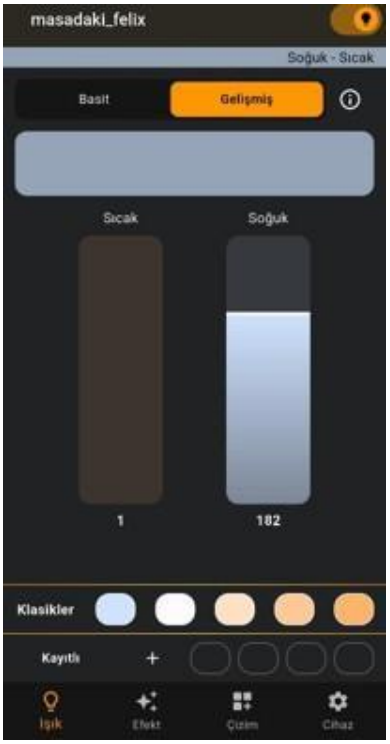
Effect Settings



Effect Settings Custom Color

Tunable (Warm-Cool)

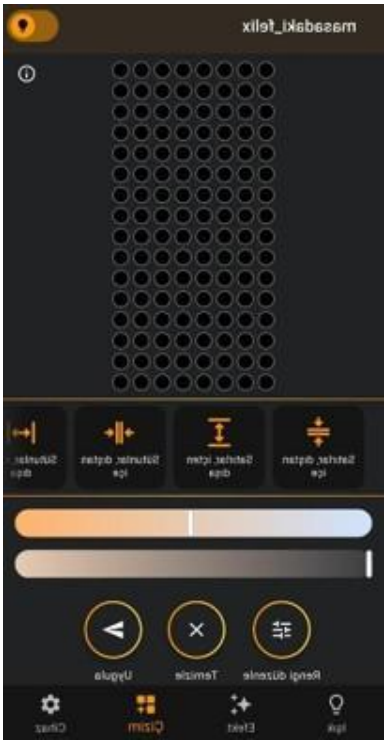
Light/Advanced Menu



Light/Simple Menu



Drawing Menu



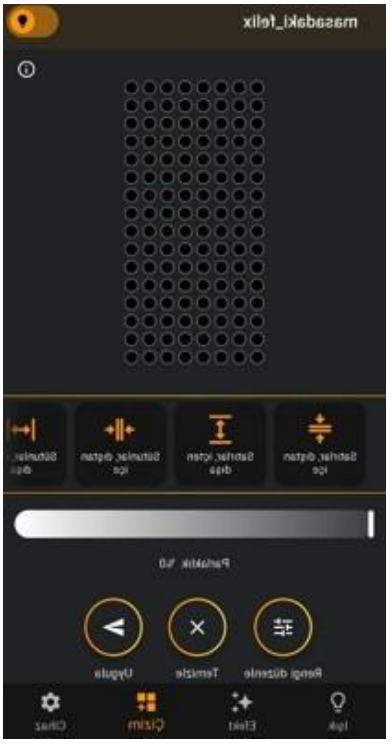


Effect Settings

Single Channel (Dim)

Light/Advanced Menu ***Drawing Menu***





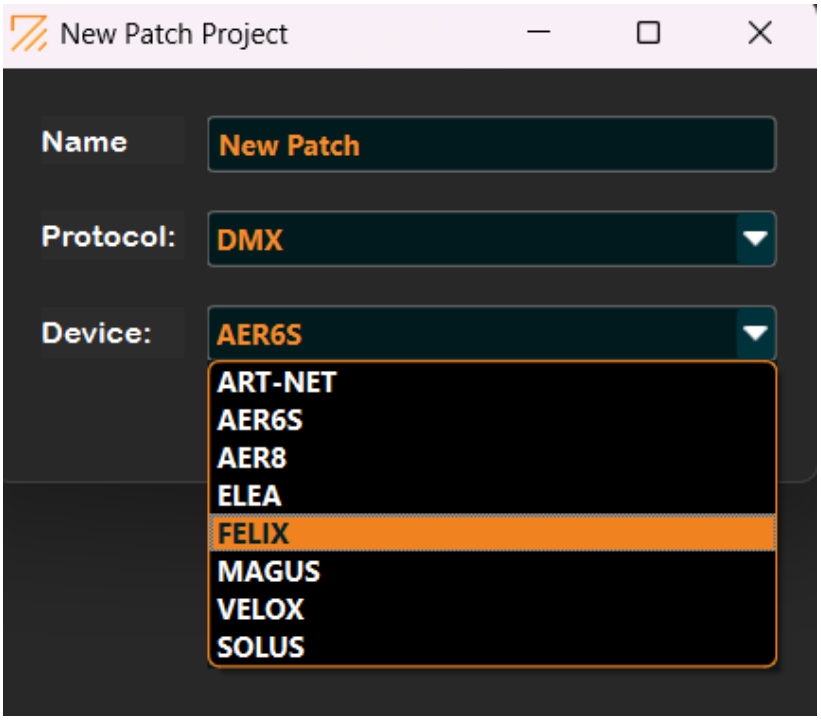


Effect Settings

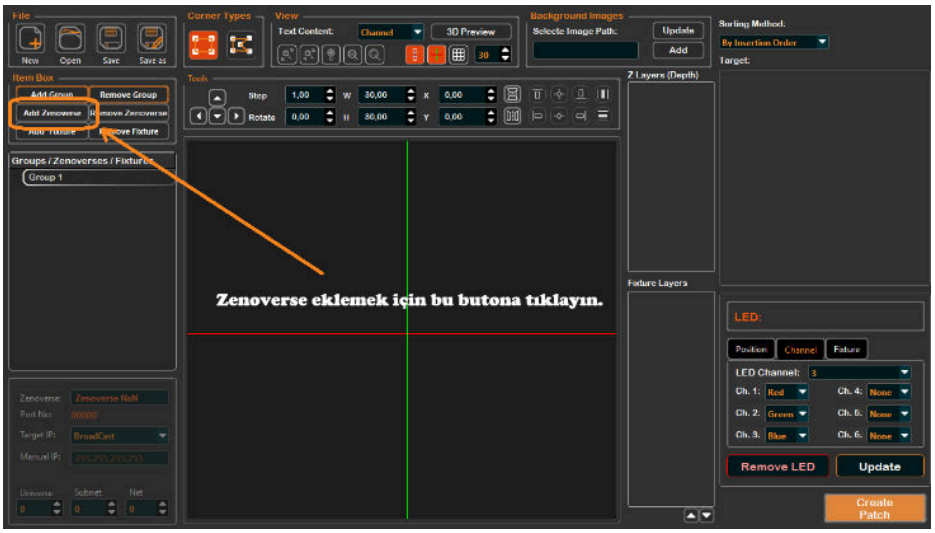
Controlling Felix Pro with Zenopix NEO

Zenopix NEO is a desktop application for broadcasting Art-Net to your devices. It is tailored to all online and offline Zenopix devices, especially Felix Pro. The Felix Pro SD variant is required for use with NEO.

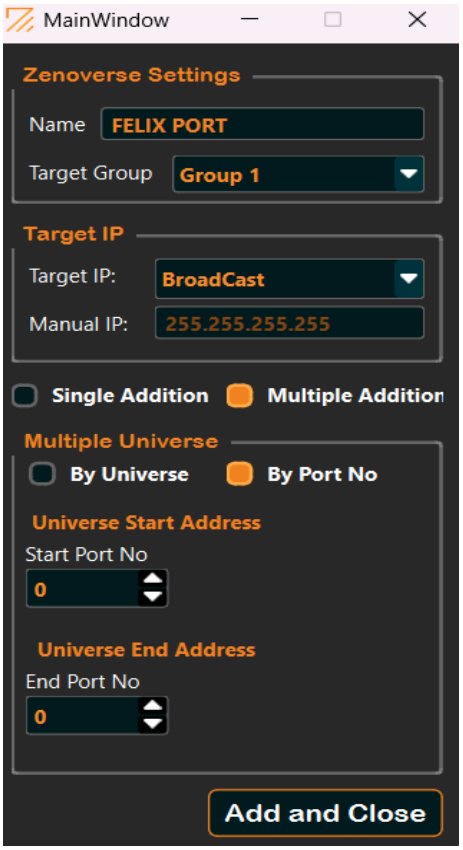
To create a project customized for Felix Pro in NEO, simply select Patch->New Patch from the main screen menu and choose the FELIX PRO device as the project parameter on the screen that appears.



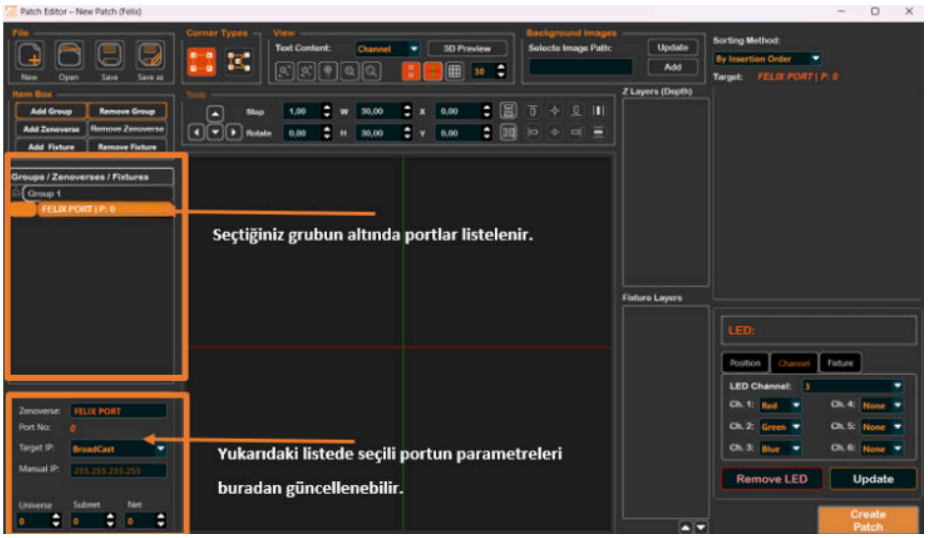
Then, on your Patch screen, configure your Zenoverses (Universes) according to the FELIX PRO device you have configured. Based on this information, click the “Add Zenoverse” option on the patch screen that appears, and complete the configuration for your device by selecting the target group on the next screen.



"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 digital infrastructure of your FELIX PRO controller is now set up. You can now move on to designing your project.

After the project design is complete, you can open the “Record” panel on the main screen to make a recording. You can upload the recorded animation file to the SD card.



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 wire gauge used must be able to carry the load of the connected lighting fixtures and ensure a secure cable connection.
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. If you have any questions, please do not hesitate to contact us.

Technical Support

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

- Read the Zenopix Felix Pro 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)

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

- If the line is DMX, no 120 Ω termination resistor at the end of the DMX line.
- The power supply cannot provide sufficient current.
- Non-standard cabling or exceeding the maximum signal transmission distance (100 meters for DMX, 5 meters for SPI).
- Errors caused by the animation.

Does the device support RDM?

- No, the device does not support RDM.

How should I choose between DMX and SPI LEDs?

This choice depends on the scale, budget and environmental factors of your project:

- DMX LEDs: Although relatively more expensive, they have strong immunity to electrical noise. They are ideal for professional and architectural applications where the cable distance between the controller and the LEDs needs to be long.
- SPI LEDs (WS2812, etc.): Generally more cost-effective and can offer higher pixel density. Due to their data transmission structure, they do not require external addressing. However, since their immunity to cable noise is low, they should be preferred for short-distance connections.

Order Code

PRODUCT CODE	FLXPRO	X
SD Card		
Version with SD Card		S
Version without SD Card		X

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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