



# FELIX

Technical Document and User Guide

English

# ZENOPIX FELIX

## TECHNICAL DOCUMENTATION AND PROMOTIONAL GUIDE

2nd Version – June 2025

Thank you for choosing Zenopix® FELIX

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

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

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## **Safe Use**

This device is intended for indoor use only and must be operated in dry environments. Its ingress protection rating is IP20. It must not be used in humid conditions, and contact with water or other liquids should be strictly avoided. If the device will not be in use for an extended period, it is recommended to turn off the power. For safety and operational reliability, galvanic isolation is always recommended. The unit must not be opened, and no part should be removed or connected to an ungrounded circuit. The unit should never be connected to LEDs or controllers that are already powered on. It must only be connected to LEDs and controllers that are initially switched off. There are no user-serviceable components inside or outside the interface. All repairs must be carried out solely by the manufacturer. If the interface appears to be faulty, please contact your reseller. After the warranty period ends, if applicable, repairs may be provided by your supplier or manufacturer for an individual service fee. This device is intended for use by trained professionals only. It is not designed to be operated by untrained individuals or children.

## **Warranty Information**

Zenopix FELIX, üretici firma garantisini kapsamındadır. Ayrıntılı bilgiye ürün garanti belgesinden veya internet sitemizden ulaşabilirsiniz.

## **Package Contents**

**1x** Zenopix FELIX

**1x** Warranty Certificate

**NOTE: After opening the package, please check the contents 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 instructions in the user manual are followed completely, this device poses no risk to human health or the environment. The device should not be disposed of as regular waste. It must be delivered to collection centers (electronic and electrical equipment recycling points). It should be recycled or disposed of in a manner that does not harm nature or human health.

## Introduction

Zenopix Felix is a Bluetooth-based DMX and SPI controller. DMX/SPI LEDs can be easily controlled remotely via Bluetooth-enabled mobile devices and a mobile application. You can download the Zenopix Mobile App from the QR codes below, directly from your FELIX device, or from our website.

## Technical Specifications

Output Protocol	DMX/SPI
Network Protocol	Bluetooth
Input Voltage Range	7-24VDC
Output Port	1×1024 DMX Channel / 1×4096 SPI Channel
Bluetooth	1x 802.1X/EAP (WPA)
Case	Plastic
Operating Temperature and Humidity	0°C - 50°C / 20 ~ 95%RH,
Storage Temperature and Humidity	-25°C ~ 80°C, 10~95%RH
Dimensions	105×43×25mm (L×W×H)
Protection	IP-20

## Status LED Codes

### Power LED

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

### SD Status LED

**Red LED:** No connection.

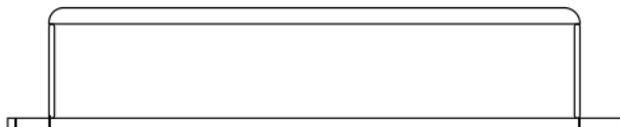
**Green LED:** Connection established.

**Blue:** Please perform the update.

In reset mode, the red and green LEDs blink 10 times, after which the Wi-Fi settings are restored to the default mode.

You can find the above information on the device.

## Device and Pin Connections



## Wi-Fi Network Connection



## Device Usage

Download the Zenopix Felix app to your phone and enable Bluetooth on your device. When you open the app, you will see the screen shown in Visual-1. On this screen, tap the 'No devices connected' button at the top to go to the connection screen.

Image 1



Your phone will scan the devices on the network and list them as shown in Figure 2. As shown in Figure 3, you can access the settings by tapping the three dots on the right side of the device name.

Image 2

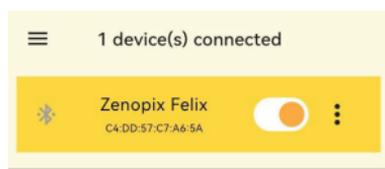
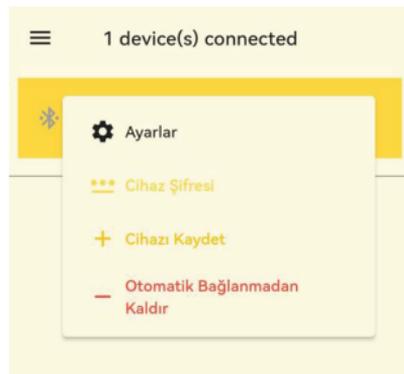


Image 3



After entering the Settings tab, you will see the screen shown in Figure 4. Here, you can set your Felix device's name, the number of pixels on your LEDs, channel configurations such as RGB, RGBW, GBR, and select the type of your DMX and SPI driver. If your LEDs are arranged in a matrix, you can choose the connection order for the address layout.

After pressing the Save button, you will be taken to the main screen as shown in Figure 5. Here, you can select colors by touch, as displayed on the screen. By tapping the button with three lines at the bottom left, you will access the screen shown in Figure 6. From here, you can manually enter color codes.

Image 4

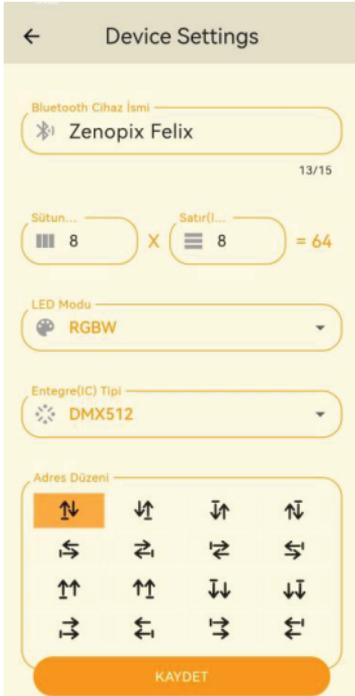


Image 5



If you want to apply animations to your LEDs, you can go to the animation tab, which is the second option in the bottom menu. As shown in Figure 7, you can play saved animations and control brightness, speed, and the white channel separately. By pressing the save icon on the right and selecting "Save and Run," the animation will be stored in the Felix device's memory. This means that even if the connection is lost or the Felix device is powered off and on again, it will continue playing the same animation.

Image 6

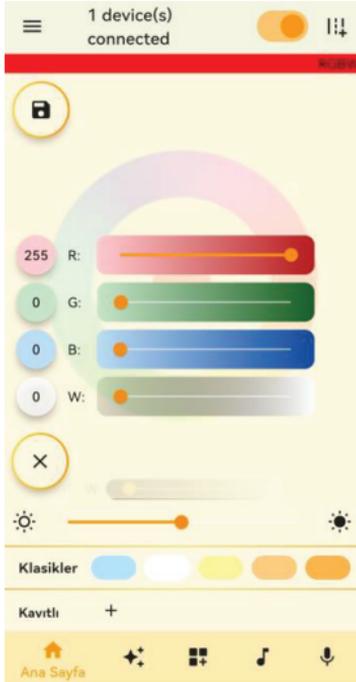


Image 7



If you want to assign different colors to each pixel, go to the third tab among the icons below to reach the screen shown in Figure 8. On this screen, you can assign different colors to different fixtures or pixels and play animations.

Image 8

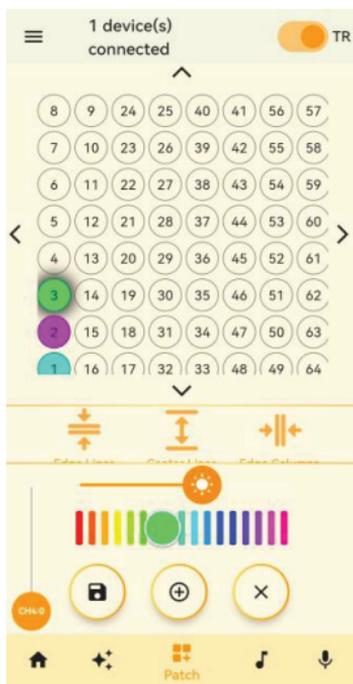


Image 9

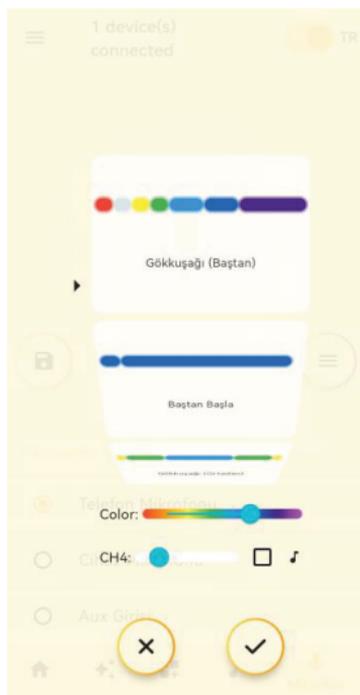


When you tap the music icon in the side menu, the music addition menu will appear. As shown in Figure 9, you can add music here to synchronize your LEDs with the music. (This feature is not fully functional yet.)

Image 10



Image 11



When you tap the microphone icon, the screen shown in Figure 10 will appear. The microphone on the Felix device will be activated, allowing you to create animations that respond to sound and music—whether through AUX input, an external microphone, or the built-in microphone. By tapping the three-line icon on the right, you can change the animation type, as shown in Figure 11.

## **Warnings**

1. The products must be installed by qualified professionals.
2. Zenopix products are not waterproof (except for special models). Please avoid exposure to sunlight and rain. When installed outdoors, make sure they are mounted inside a waterproof enclosure. Proper heat dissipation will extend the product's service life, so ensure adequate ventilation.
3. Please check whether the operating voltage used is compatible with the product's specified parameters..
4. The wire gauge used must be capable of supporting the connected lighting fixtures and ensure a secure cable connection.
5. Before powering on the products, please ensure all cables are correctly connected to avoid damaging the lighting fixtures due to incorrect wiring. If a malfunction occurs, do not attempt to repair the products yourself. If you have any questions, please contact your supplier.
6. This manual is subject to change without prior notice. Product functions may vary depending on the model. If you have any questions, please do not hesitate to contact us.



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

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