

## Quick Start Guide

# P3 mini 4G Bonding Video Encoder

4G+ H.265 Bonding Video Encoder

(V1.0)



The Kiloview P3 mini is a new generation wireless bonded encoder developed by Kiloview based on Kilolink transmission technology. It supports multiple simultaneous wireless bonding connections, including 3x 4G cellular networks, WiFi (2.4G/5G dual-band), and Gigabit Ethernet. The device supports PD and DC charging and can be powered by a power bank through the TYPE-C port, ensuring round-the-clock operation. The P3mini uses H.265/H.264 encoding technology, equipped with dual interface inputs of 3G-SDI and HDMI, and supports resolutions up to 1080p60. When used with the KiloLink Server Pro software, it provides remote management and all-protocol streaming forwarding services, and supports cross-Internet voice intercom functionality, fully meeting various application needs.

### Contents

- Packing List
- Device interfaces
- Device installation
- Device connection, login and use guide
- Device upgrade and restore factory setting

Before you start using this product, it is recommended that you carefully read the user manual. To ensure your personal safety and to avoid physical or electrical damage to the device, please strictly follow the guidance in this manual or install and use the product under the supervision of a professional. Incorrect electrical connections or physical installation may cause permanent damage to the device and even pose a threat to personal safety.

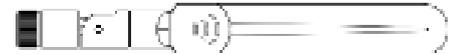
# 1 Packing List



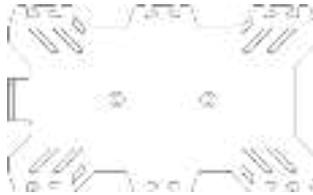
(1) P3 mini Encoder x1



(2) Wi-Fi antenna x1



(3) 4G antenna x3



(4) Power bank Bracket x1



(5) Cold boot screw x1



(6) Power Adapter x1



(7) Bracket screw mount x1

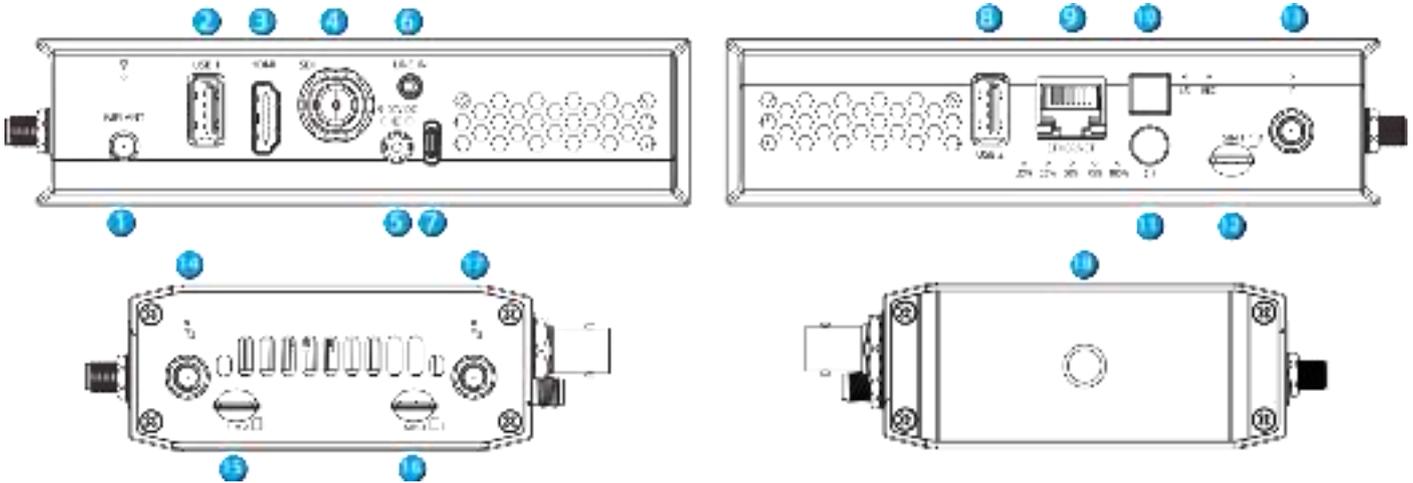


(8) Warranty Card x1



(9) Quick Start Guide x1

## 2 Device Interface



- |   |   |
|---|---|
| <ul style="list-style-type: none"> <li>(1) Wi-Fi SMA Interface</li> <li>(2) USB TYPE-A</li> <li>(3) HDMI Input</li> <li>(4) SDI Input</li> <li>(5) Power Port</li> <li>(6) 3.5mm LINE IN</li> <li>(7) USB TYPE-C (PD charging supported)</li> <li>(8) USB TYPE-A</li> <li>(9) 1000M Ethernet</li> </ul> | <ul style="list-style-type: none"> <li>(10) Quick Stream Switch</li> <li>(11) Power Switch</li> <li>(12) SIM card slot</li> <li>(13) 4G SMA Interface</li> <li>(14) 4G SMA Interface</li> <li>(15) SIM card slot</li> <li>(16) SIM card slot</li> <li>(17) 4G SMA Interface</li> <li>(18) 1/4 inch screw mount</li> </ul> |
|---|---|

## 3 Battery indicator light

After the battery is installed, the P3 mini battery indicator light can help users understand the current device power usage. The colors of the indicator light correspond to different states are as follows:

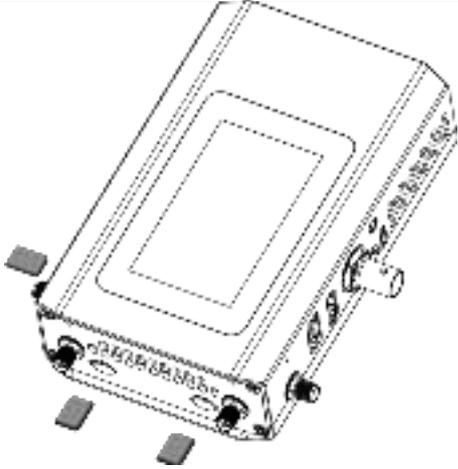
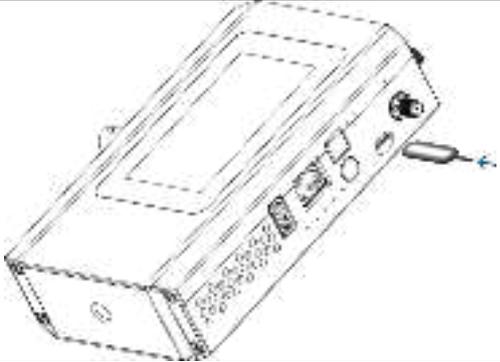
Indicator light	Explanation
	<p>The device has five indicator lights, labeled as LOW, 25%, 50%, 75%, and 100%. Each light indicates the current battery level. When the battery level drops below 25%, the LOW light will illuminate with a red warning to indicate low battery. When the battery level is between 25% and 100%, the corresponding indicator light for that battery level range will stay on.</p> <p>During charging, the lights corresponding to the battery levels will flash according to the charging progress. When all the battery level indicators are constantly on, it means the battery is fully charged.</p>

## 4 Device installation

The P3 mini supports simultaneous multi-path wireless bonding connections, including 3 channels of 4G cellular network, Wi-Fi (2.4G/5G dual-band), and Gigabit Ethernet. It also supports PD charging, allowing it to be powered by a portable power bank for round-the-clock operation. Before using the multi-bonding feature of the P3mini device, ensure that SIM cards, antennas, and other external accessories are correctly installed. The specific installation method is as follows:

### 4.1 Installation of 4G SIM Card

To use the 4G feature of the P3 mini, a Nano-SIM card must be installed. The installation procedure is as follows:

	<p>The three Nano-SIM card slots shown in the left image can be used for installing SIM cards. The installation steps are as follows:</p> <p>As shown in the left image, align the notch on the SIM card with the slot where it will be inserted. Push the SIM card all the way in to ensure it is securely fixed in the slot.</p> <p>After installation, insert the SIM card and wait for about 1 minute. The device will automatically detect the signal from the inserted slot. If the signal is normal, it indicates that the SIM card has been successfully installed.</p>
	<p>Remove the SIM card: Please use a pin as shown in the left image to gently push the SIM card inward until it pops out, then you can remove it.</p>

## 4.2 Antennas Installation

The P3 mini requires antennas for the 3 channels of 4G cellular network and Wi-Fi. The installation procedure is as follows:

	<p>The P3 mini has two types of external antennas: the Wi-Fi antenna and the 4G antenna. The installation method is as follows:</p> <p>As shown in the left image, align the SMA connector of the antenna with the corresponding antenna port on the device. Screw in the antenna securely to ensure it is firmly connected.</p> <p>Note: The Wi-Fi antenna and 4G antenna should not be interchanged. Mixing them can cause abnormal antenna signals. Please carefully check the markings on the antennas when connecting them to ensure proper installation.</p>
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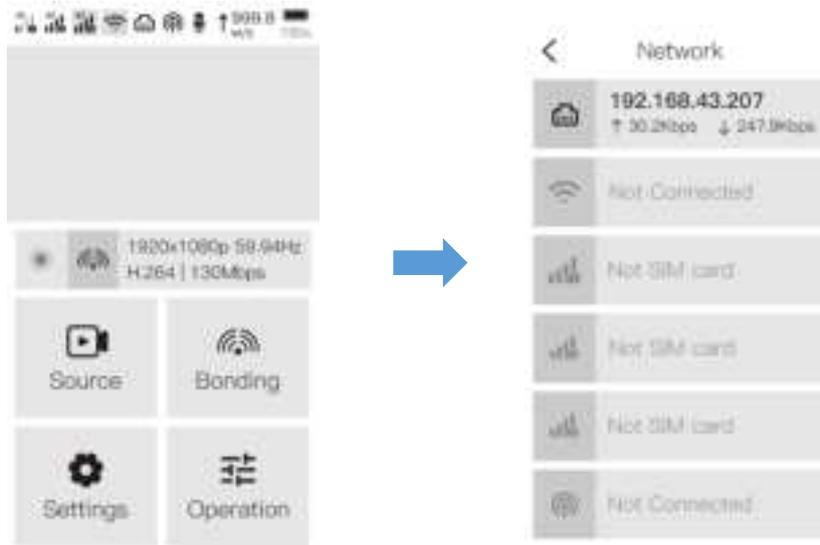


### Note

- Please use the device' s standard power adapter or a compliant PD charger to power the device. Other non-standard power sources may damage the device.
- Ensure that the Wi-Fi antenna and 4G antenna ports are not confused. Incorrectly installing the antennas can significantly affect the device's signal quality and performance.

## 5 Viewing the Device's IP Address

On the LCD screen, you can easily view the device's IP address. Click "Settings" on the main interface of the LCD screen and then click "Network" to view the corresponding IP address of the current network connection.



### Login to the device management page

In addition to using the LCD display to quickly set up and operate the device, this device also supports operating and managing the device through the WEB management system. If you need to log in to the device management page, just open the web browser and enter: <http://device IP address/> in the address bar to access the device management system.



#### Note

- The username and password are admin by default.
- To ensure information security, it is recommended to change your password immediately after logging in for the first time.
- Due to the browser compatibility issues, it is recommended to use Chrome or Edge.
- This device requires KiloLink Server Pro to provide bonding service support.

## 6 Work with your device

### 6.1 Video source checking

After connecting the video source, you can preview the input video source in real-time on the LCD screen.

### 6.2 Bonding Service

The P3 mini uses the KiloLink patented multi-link bonding transmission algorithm, which provides exceptional bonding transmission and anti-network jitter capabilities and supports the bonding of 4G cellular, Wi-Fi, and Ethernet. To achieve bonding transmission with the P3 mini, a KiloLink Server Pro server with a public IP address is required, and device registration information must be configured on the server side (for details on configuring and using the KiloLink Server Pro server, please refer to the "KiloLink Server Pro Operation Manual"). Before performing aggregation transmission on the device side, you also need to configure the connection parameters between the P3 mini and KiloLink Server Pro on the device side.

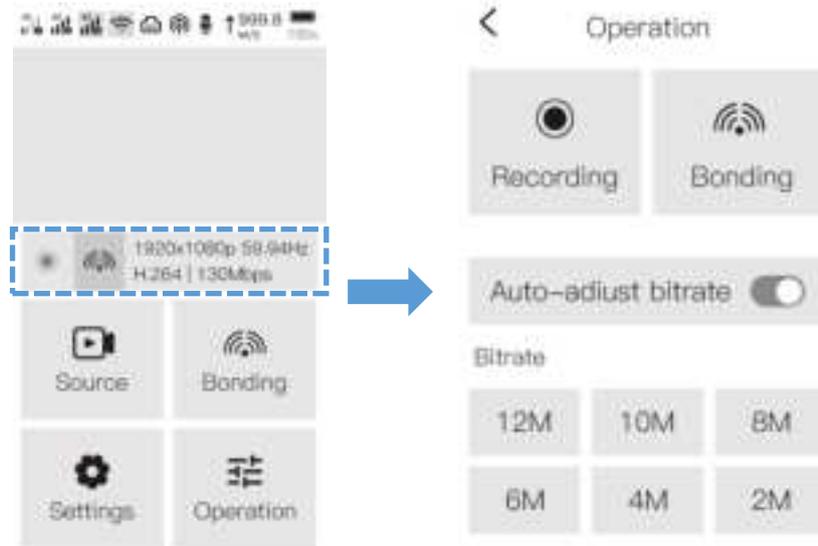
To configure the connection between the device and KiloLink Server Pro:

1. Click the "Bonding" button on the main interface to enter the device bonding configuration page.
2. Enter the server address, server port, authorization code, and other details, set encryption options if needed, and select the network communication links that need to participate in bonding communication.
3. Click the "Apply" button to configure and establish the connection parameters (as shown below):

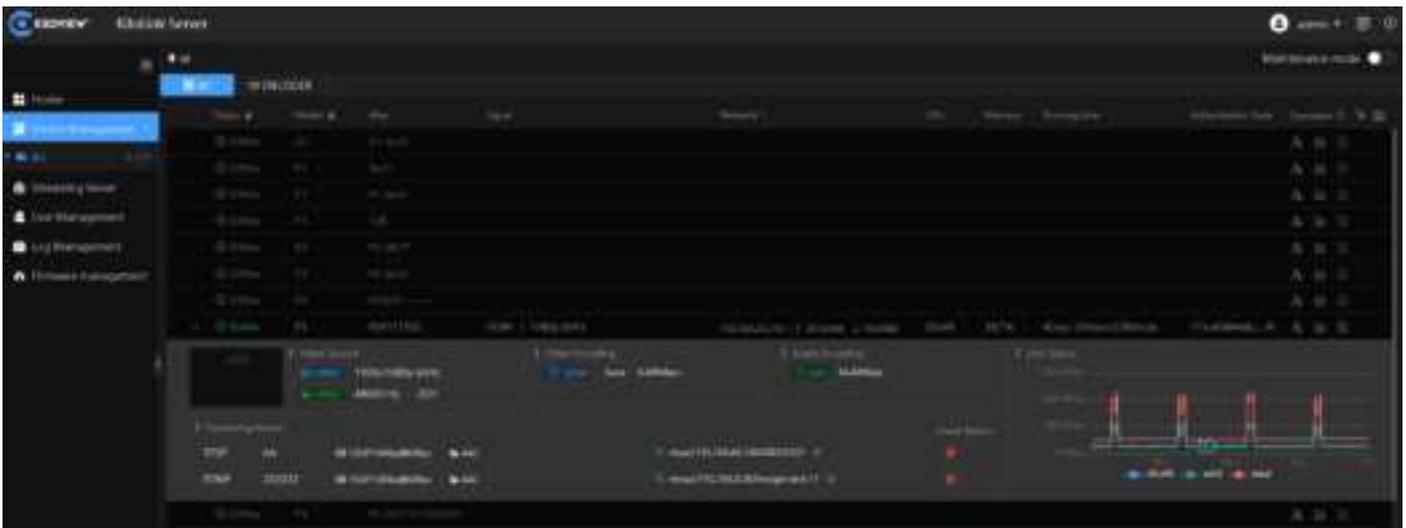


After configuration is complete, when live streaming to KiloLink Server Pro, please click on the

general quick dialog on screen for streaming(as show below):



Once the streaming is successful, you can view the corresponding device streaming information and status on the backend management interface On the Web of Kiloview Sever (as shown in the figure below).



**Note**

To ensure optimum performance, please make sure your KiloLink Server Pro is updated to the latest version.

For obtaining and deploying the KiloLink Server Pro version, please refer to:

<https://www.kiloview.com/en/kilolink-server-pro/>

## 7 Firmware update

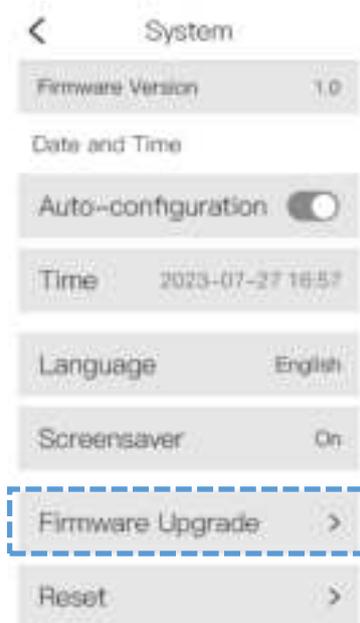
Kiloview will continue to provide firmware updates and bug fixes for the P3 mini device. Visit:

<https://www.kiloview.com/en/support/download/>

In the filtering list, select "Video Encoder" > "P3 mini", and find the latest firmware download under the "Firmware" tab.

Firmware upgrades can be performed in two ways:

1. log in to the P3 mini GUI interface, click on "Settings" > "System Settings" > "Firmware Upgrade", upload the firmware to upgrade according to the prompts.
2. insert a USB drive containing the P3 mini firmware upgrade, and click on "Settings" > "System Settings" > "Firmware Upgrade" on the P3 LCD screen to perform the firmware upgrade.



### Note

- During the upgrade process, do not power off the device, as it may cause the device to fail to start.
- The upgrade process takes approximately 3-5 minutes. If the upgrade is not completed within 5 minutes, please try restarting the device. If you still cannot access it normally, please contact technical support..
- If using the USB storage for firmware upgrade, it is recommended to format the USB storage with the FAT/FAT32/exFAT file system.

## 8 Restore factory settings

If the device cannot work normally after modified the parameters, please restore factory settings. There are two methods to perform a factory reset:

Method 1: Through the web interface, go to "Settings" > "System Settings" > "Factory Reset".

Method 2: Through the display screen interface, go to "Settings" > "System Settings" > "Restore Factory Settings".



**Note: The following parameters will be changed to default values after restoring factory settings.**

- The login user and password will be admin;
  - All video encoding parameters and audio parameters will be restored to factory default settings.
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## 9 FCC Caution

### FCC COMPLIANCE STATEMENT:

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

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- Reorient or relocate the receiving antenna.
  - Increase the separation between the equipment and receiver.
  - Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
  - Consult the dealer or an experienced radio/TV technician for help.

This equipment must be installed and operated in accordance with provided instructions and the antenna(s) used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter. End-users and installers must be provided with antenna installation instructions and transmitter operating conditions for satisfying RF exposure compliance.

## 10 Others

To prolong the device' s life, please unplug the power and keep it properly if you do not use it for a long .

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For more information on using the P3 mini encoder, please visit the Kiloview official website.

<https://www.kiloview.com/en/p3-mini/>

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