

User Manual

Kilolink Bonding Platform

P1/P2 Series

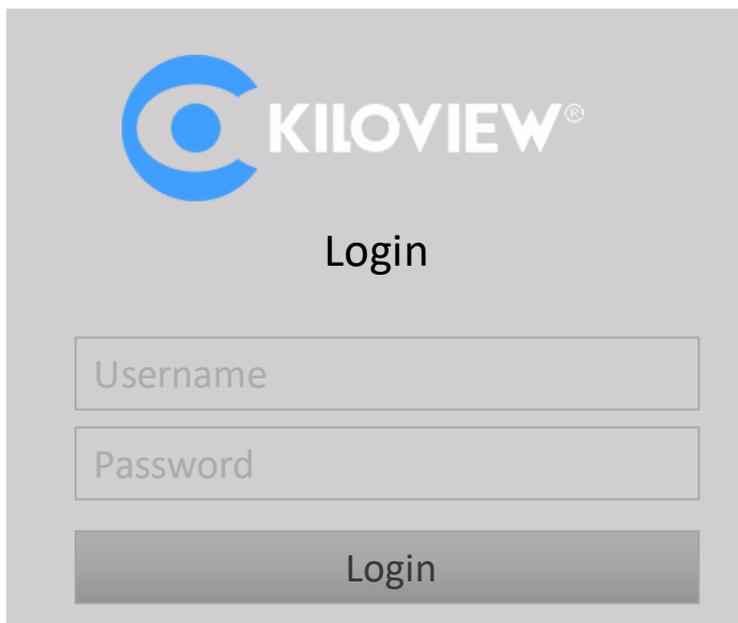
(2021-8 Version)



The P series 4G bonding encoder is a professional video encoder for mobile applications. It adopts Kiloview KiloLink (based on Reliable-UDP) to achieve stable, efficient, and reliable network transmission and multi-link bonding transmission.

1 Login the bonding platform

Enter `http://server IP: 60000/` in the browser to login to the bonding platform. The default username is admin, and the password is admin.

The image shows a login interface for KiloView. At the top left is the KiloView logo, which consists of a blue stylized 'C' shape followed by the text 'KILOVIEW®'. Below the logo, the word 'Login' is centered. There are two input fields: the first is labeled 'Username' and the second is labeled 'Password'. Below these fields is a dark grey button with the text 'Login' in white.

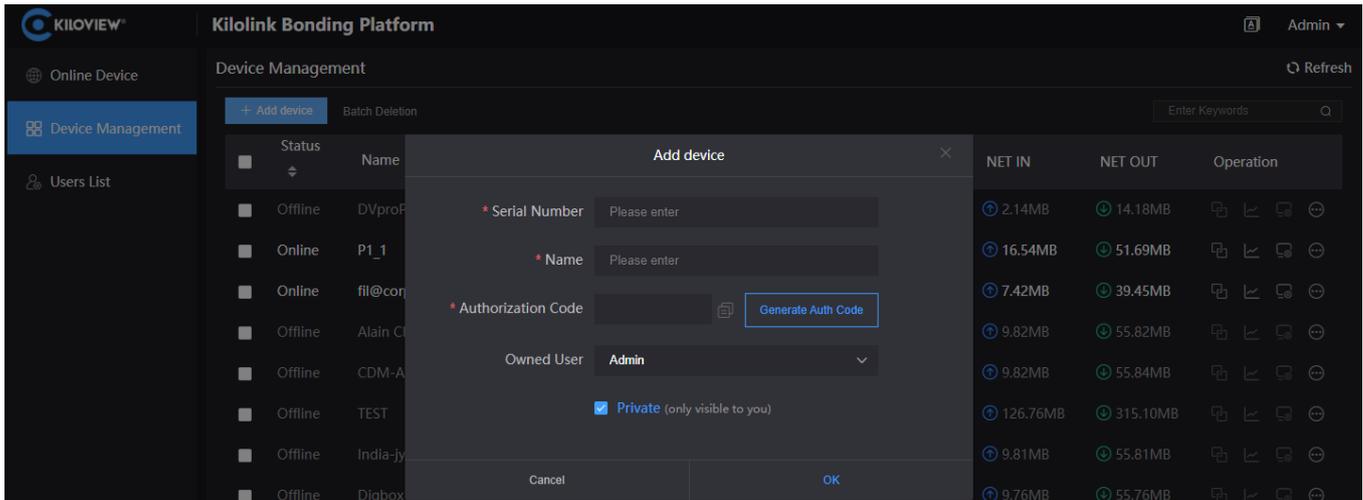
Note:

- To ensure information security, we recommend you change the password immediately after your first login.
 - The port of the bonding server is the one configured during deployment. The default port is 60000.
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2 Device connection

Step 1: Add the device to the platform and generate an authorization code.

Click “Device management” - “Add device” , configure the parameters and generate an authorization code.



The screenshot shows the Kiloview Kilolink Bonding Platform interface. On the left, there is a sidebar with 'Device Management' selected. The main area displays a table of devices with columns for Status, Name, NET IN, NET OUT, and Operation. A modal window titled 'Add device' is open in the foreground, containing the following fields:

- * Serial Number: Please enter
- * Name: Please enter
- * Authorization Code: [Generate Auth Code button]
- Owned User: Admin (dropdown menu)
- Private (only visible to you)

Buttons for 'Cancel' and 'OK' are at the bottom of the modal.



Introductions:

- **Serial Number:** Login to the device Web page to get the Serial Number in the lower left corner of “System Information” .
- **Name:** Any combinations of alphabets, numbers and symbols.
- **Authorization Code:** Click “Generate Auth Code” , then an authorization code combining with letters and numbers will be generated automatically, which will be used for device registration.
- **Owned User:** The added devices can be visible to a certain user you assigned.

Step 2: Device registration

Login to the device Web page, click “Network & Service Settings” – “Connect Bonding Server” , and configure the parameters to start the bonding service.



Introductions:

Please download the latest firmware from our website: <https://www.kiloview.com/en/support/download/> Select “Video encoder” in the filter list > “P1/P2” , find the latest firmware to download.

- **Server address:** The IP address of the bonding server.

- **Port:** The port that used to login to the Web page of the bonding server. The default port is 60000.
- **Auth Code:** Generated when adding the device to the bonding platform.

Network & Service Settings

Set Hostname

Network Manager

Easy Management Services

Web Service

Onvif Service

Telnet Service

ARP Resolution Setting

Static routing setting

Connect Bonding Server

Serial Port and PTZ

Voice Intercom

nil

Quick Reset

Logs & Debug

Reboot

- Connect Status: **Conneted**
- Bonding Links: **eth1 | modem1**
- Send Total: **2.70M | 2.62M Byte**
- Recv Total: **2.04M | 12.63M Byte**
- Round-trip Time: **300.0 | 270.0 ms**
- Loss Rate: **0.0 | 0.0 %**
- Send Rate: **3K | 17K bps**
- Recv Rate: **2K | 23K bps**

Bonding Service

Enable Bonding Service: **Yes**

Server Address: **43.128.30.176**

Port: **60000**

Auth Code: **FWILYRIL31**

Timeout: **15** Second

Interface:

- Default Ethernet
- Ethernet 1
- 3G/4G Modem 1
- 3G/4G Modem 2
- Default WIFI

SAVE



Note:

There are four default options of bonding ports: Default WIFI, 3G/4G Modem 1, 3G/4G Modem 2 and Default Ethernet. When inserting 4G USB modems, there are two modes: one is "MODEM" mode, the other is "ETHERNET CARD" mode. In the MODEM mode, it will be recognized as 3G/4G Modem 3 or 3G/4G Modem 4. In the ETHERNET CARD mode, it will be recognized as USB network connection 1 or USB network connection 2. And the options will be increased in the port.

A few seconds later, it will show "Connected" in the bonding status, which means that the device has successfully registered to the bonding server and you can use the aggregated links for streaming. And you can log into the bonding platform through the QR code in the upper left corner to disable and configure the parameters.

Connect Bonding server



Refresh

Bonding Status

- Connect Status: **Conneted**
- Bonding Links: **eth1 | modem1**
- Send Total: **2.70M | 2.62M Byte**
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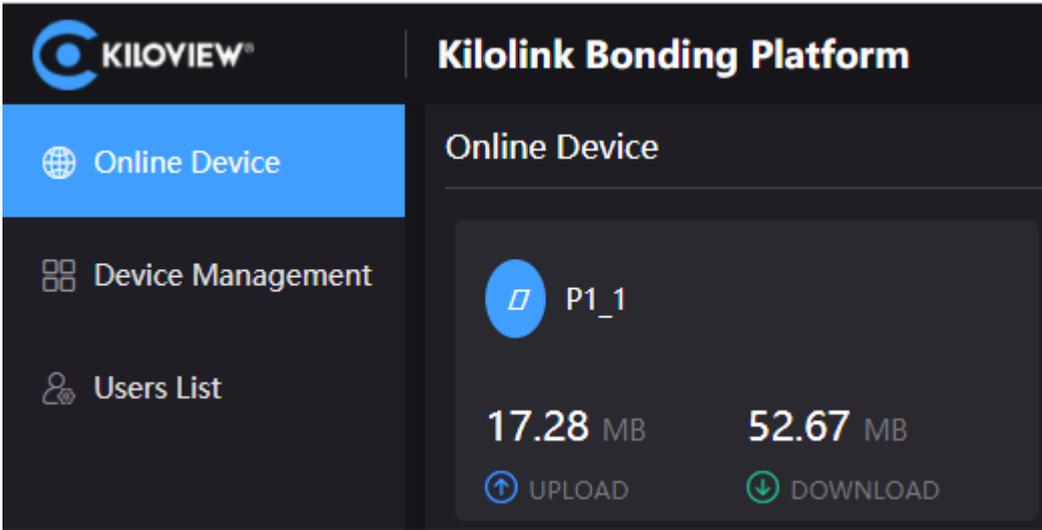
Introductions:

- **Aggregated link:** Display all selected aggregated network links
- **Sending statistics:** Calculate the data transmitted by each network link
- **Round-trip time:** The round-trip time at both ends of each network link. The longer the time, the higher the delay after aggregation.
- **Packet loss rate:** The packet loss of each network link. When the packet loss rate is too high, it may cause abnormalities such as unsmooth video transmission.
- **Transmission rate:** The transmission rate of each network link. The total rate is equal to the actual configured encoding rate.

3 Kilolink platform management

3.1 Online devices

The list shows all the online devices. Online device means that the device connected to the bonding platform successfully and can use the aggregation link.

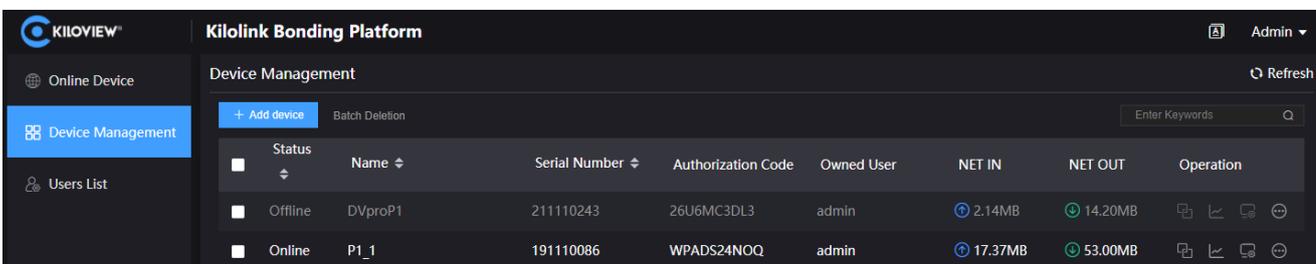


Introductions:

Devices that are not in the list are offline devices, which means that the device has not been registered successfully or the device has not been turned on to register to the bonding platform. All the added devices will be displayed in the "Device Management" .

3.2 Device Management

The device management list contains all the added devices, including online and offline devices. The online devices can do image preview, port forwarding, and device configuration.



Click the line of the online device, a video preview window will pop up to preview the real-time image of the device.

The screenshot displays the Kilolink Bonding Platform interface. On the left, there is a sidebar with navigation options: 'Online Device', 'Device Management' (selected), and 'Users List'. The main area is titled 'Device Management' and includes a '+ Add device' button and a 'Batch Deletion' link. Below this is a table listing devices with columns for 'Status', 'Name', and 'Video preview'. A modal window titled 'Video preview' is open, showing a camera feed of a person. To the right of the video preview is a table with columns for 'NET IN', 'NET OUT', and 'Operation', displaying various data points and icons for each device.



Note:

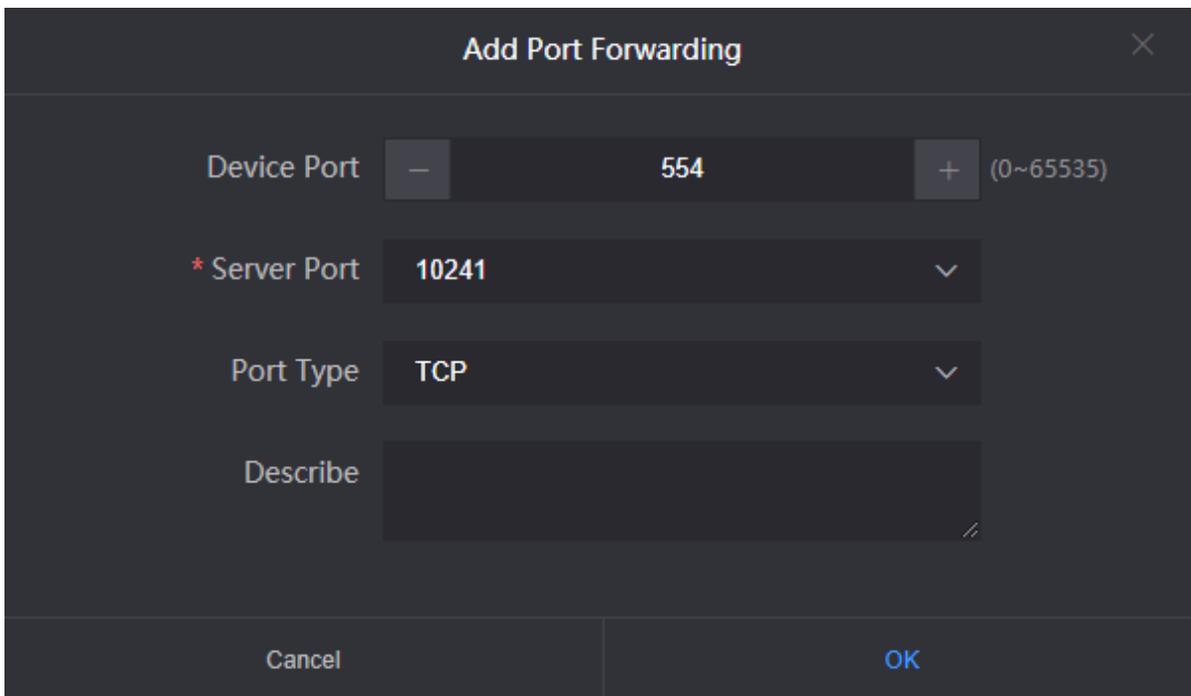
The video preview is for the sub-stream of the video, please make sure that the sub-stream is enabled in your device, otherwise the images cannot be previewed.

① Stream Service

Click  to enter the port forwarding page, and forward the internal network port of the device to the Internet through port forwarding, allowing other users to access the device or for streaming.

Click “Add Port Forwarding” and configure the parameters. Here take RTSP streaming as an example for configuration. The default port is 554 and the server port is 10240. Select the port type and save.

Other users in the network can use `rtsp://server IP: 10240/ch01` to get the RTSP stream transmitted by the bonding device, for example: `rtsp://43.128.30.176:10240/ch01`



② Bonding Status

Click  to enter the bonding status page to check the real-time bonding status and data statistics status. The statistics data and the bonding status statistics data on the device page correspond to each other.

The real-time status displays the real-time sending/receiving and packet loss rate of each network link, and the statistics status displays the total amount of sending/receiving and packet loss retransmission rate.

③ Device Web page

Click  to enter to the device Web page directly, and you can configure the parameters wherever there is a network.



For more information about P series encoder, please visit kiloview's website:
<https://www.kiloview.com/en/support/docs/p2/>

3.3 User List

In the user list, you can add users and delete or modify the added users. There is an admin account by default.

The image shows a dark-themed dialog box titled "Add User" with a close button (X) in the top right corner. It contains four input fields, each with a red asterisk indicating a required field and a "Please enter" placeholder. The fields are: "* User Name", "* Alias", "* New Password", and "* Confirm Password". At the bottom of the dialog, there are two buttons: "Cancel" on the left and "OK" on the right.

4 Others

When the device is not used for bonding transmission, please disable the bonding service to make the device offline. Otherwise, the bonding server will continue to use the traffic, resulting in a waste of traffic.



Website for Official online document of P series
<https://www.kiloview.com/en/support/docs/p2>



Website for Kiloview official technical support
<https://www.kiloview.com/en/support/>



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