

Manual for KiloLink Server Pro

Bonding Service and Centralized Device

Management Platform

(kiloLink Server Pro V1.00.0014)

Draft

Kiloview Electronics Co.,Ltd.



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1. System introduction

1.1. Introduction

KiloLink Server Pro is a centralized management software platform based on KiloLink technology, specifically designed for Kiloview devices. KiloLink Server Pro software is sold together with relevant devices. Currently, KiloLink Server Pro offers centralized device management and network bonding services with no limits on the number of devices or connections.

KiloLink Server Pro efficiently manages various new hardware encoder and decoder devices produced by Kiloview

KiloLink Server Pro provides network bonding, video preview, and streaming services for Kiloview's P series devices.

KiloLink Server Pro can also serve as an NDI encoder, outputting NDI HX streams.

KiloLink Server Pro can easily manage various devices integrated with the KiloLink SDK.

KiloLink Server Pro centralizes the management of device web UI, making complex streaming media management simple and efficient.

1.2. Features

1.2.1. Multi-link Bonding

KiloLink Server Pro, based on Kiloview's proprietary KiloLink technology, supports multi-link bonding for transmission. The KiloLink network bonding is highly flexible, allowing you to combine multiple 4G/5G SIM cards, Wi-Fi and Ethernet to achieve bonding transmission. This multi-link bonding technology enhances transmission bandwidth and improves reliability in complex and varying network environments.

Multi-link bonding is one of the standout features of Kiloview's proprietary KiloLink technology. It not only retains the advantages of traditional single-link network transmission but also demonstrates unique benefits across various network scenarios:

Increase the bandwidth of your device

Multi-link bonding is not limited by the bandwidth of a single link. By simultaneously utilizing multiple links, it enhances the network transmission bandwidth of devices, supporting higher-resolution image and video transmission requirements

Enhanced jitter resistance

In a multi-link bonding network, even if one link experiences fluctuations, the overall impact on audio and video transmission is minimal. This makes it suitable for scenarios with unstable network environments, such as outdoor live streaming.

These features give link bonding technology significant advantages in improving transmission efficiency and stability.



1.2.2. Multi-protocol Conversion

KiloLink Server Pro integrates high-performance streaming services. The streaming service will pack the audio and video data from P series wireless bonding encoders into various streaming protocols. Currently, it supports transmission protocols including SRT, NDI HX, RTMP, RTMPS, RTSP, RTP, HLS, and TS-UDP

1.2.3. Batch Management

The KiloLink Server Pro homepage provides a direct view of the current CPU usage, memory usage, and network status. It also displays the number of online and offline devices and includes a new alert section to help you easily identify any device anomalies, allowing for timely diagnostics.

KiloLink Server Pro supports batch firmware upgrades. After uploading the firmware, KiloLink Server Pro automatically categorizes it based on type. Users can select devices for batch firmware upgrades according to their needs. This centralized firmware upgrade process makes it easier for users and significantly saves time on updating devices. KiloLink Server Pro homepage can directly view the current CPU and the number of online and offline devices, which also adds an alarm information section, allowing you to easily discover abnormal status of the current device and make timely diagnosis.

KiloLink Server Pro Support batch firmware upgrade. After uploading the firmware of the codec device, KiloLink Server Pro automatically classifies it according to the firmware type.

Users can select devices for batch firmware upgrade according to their needs. Centralized firmware upgrade is convenient for users and greatly saves time in updating devices.

1.2.4. Low Resource Usage

KiloLink Server Pro has minimal hardware resource usage for CPU and memory, ensuring stable program performance. It can be easily deployed on ECS from major cloud service providers (such as Aliyun, AWS, etc.) as well as on your private servers.



2. Products Parameter

2.1. Main Function

Function options	KiloLink ServerPro
Real-time display of equipment status	Supported
Alarm information	Supported
Remote control of equipment	Supported
Number of devices managed	Unlimited
Streaming Services	Supported
Video Preview	Supported
User/Group Management	Supported
Permission settings	Supported
Firmware Upgrade	Supported
Organizational structure management	Supported
System log	Supported
Multi-language support	Chinese/English
Deployment	Public cloud, private cloud, and independent server deployment
Running Environment	Docker Virtualized Environment
Authorization and Use	Free forever



2.2. Support Notes

	~ -				C . I	c	
KiloLink	Server Pro	currently	supports	management	of the	tollowing	devices:
					• • • • •		

product type	Models which support KiloLink Server Pro			
	E1/E1-s/E2/E3	P1/P2/P3	M2	
Encoder	E1 NDI/E2-NDI	G1/G1-s/G2	S2	
	E1-S	N1/N2	U40	
Codec integration[IO]	N3/N3-s/N4	N5/N6	N30/N40/N50/N60	
decoder Media Gateway	D350/D260	MG300/MG300 v2	D300/DC230/DC220	
	RD-230	RE-1/RE-2/RE-3	RD-350	
	RD-300	REN-2	RD-260	
Rack-mounted codec	RE-1 v2 (new)	RE-100	RN-40	
equipment	REN-1	REN-100	RMG-300	
	REN-1 v2(new)	RN-3 (new)	RMG-300 v2	

product type	Models which support the KiloLink reset function		
Encoder	E1/E1-s/E2/E3	P1/P2/P3	
	E1-S	N1/N2	
Codec integration[IO]	N3/N3-s/N4	N30/N40/N50/N60	
Decoder Media Gateway	D260		
Rack-mounted codec	RD-230	RE-2	
equipment	RD-260		
	RE-1 v2 (new)		



Notice:

1. Due to the limited performance of P1/P2 hardware, using Kilolink SDK Bonding service will affect CPU utilization. Please refer to its user manual in detail before upgrading the P1/P2 device to fully understand the risks of P1/P2 device upgrade. The upgrade may cause instability in some services. For details, please refer to the user manuals of P1 and P2.

2. After jump from the KiloLink Server Pro backend to the independent management backend of the "device", if the browser and the device are not connected to the network, you will not be able to watch the video preview in the device backend, which is normal.



2.3. Hardware Configuration

Minimum configuration requirements without using bonding :

CPU	One core or above (X86/AMD64) CPU	
	Recommended model: 1*Intel Xeon Platinum 8255C +	
Hard dick	40G+	
	Recommended storage media type: SSD	
Memory	2GB +	
Bandwidth	2Mbps+(One public IP needs to be configured)	

Minimum configuration requirements for using the bonding:

CDU	Dual-core or above (X86/AMD64) CPU
CPU	Recommended models: 2*Intel Xeon Platinum 8255C +
	100G +
narddisk	Recommended storage media type: SSD
Memory	4GB +
	Example:
	Assume 2 piece of P3 which select 8M/bps bit rate of concurrent video
	traffic,each unit output N channel of stream as an example:
	Symmetrical bandwidth calculation formula:
bandwidth	(TIP: One public IP needs to be configured)
banawiatii	INPUT: 2*8Mbps*1.2
	OUTPUT: 2*N*8Mbps*1.2
	TOTAL: Max { 2*8Mbps*(1+0.2), 2*(RTMP RTP Protocol Bit Rate)*(1+0.2) }
	Note: Reserved 20% bandwidth is used as a sub-stream (for preview of streaming channel), Device management and Redundancy;

2.4. System Parameters

system version	RHEL9+/debian9+/Ubuntu 20.04 LTS+	
Linux Kernel	Linux kernel 5.4.0 versions above	



2.5. Software Environment

Docker	Recommended Docker version 24.0.5			
Firewall	Open the specified ports in Section 2.6			
Security Group	Open the specified ports in Section 2.6 If the cloud server is on a cloud service provider such as AWS/Aliyun, you need to pay attention to the impact of security groups If the cloud server is in the company's intranet environment, pay attention to the impact of ACL security rules			
DNS	DNS can be resolved normally Set it to the DNS of the local telecom provider or cloud service provider to ensure that the DNS resolution is normal			
Public IP address	The server public IP can be pinged normally If the cloud server is in the company's intranet environment, DNAT configuration may be required to ping the server from the external network. If the cloud server is on a cloud service provider such as AWS/Aliyun, you need to configure a public network EIP or NAT external gateway			



2.6. Port Description

Static port range

Port Range[static]	protocol	effect
80:80 (default)	ТСР	KiloLink ServerPro Web Access
50000:50001 (default)	UDP	Encode/Decode Deviceexternal access
5353:5353 (default)	UDP	mDNS (NDI Stream Discovery)

Dynamic port range

Port Range[dynamic]	protocol	effect
30000:30300	ТСР	AV stream deliver
30000:30300	UDP	AV stream deliver
5960:6500	ТСР	NDI stream Control
7960:10000	UDP/TCP	NDI stream deliver



Notice:

TIP1: The default service port of KiloLink Server Pro can be customized during installation. You need to remember it and allow access to the relevant ports in your security configuration. Otherwise, device connection and web access may go wrong.

TIP2: KiloLink Server Pro currently supports no limit on the maximum number of push channels. It is recommended that one device support up to 200 AV streams.

TIP3: The hardware configuration in Section 2.3 cannot support 200 AV streams. It depends on the specific situation. If the number of channels you want is not supported, please upgrade the configuration as appropriate.



3. Installation and Deployment

If you refer to "Products parameter" in the "Hardware Configuration" section and a server with Linux system has been prepared.

3.1. Container Installation

The general installation steps for the Docker container environment are as follows:

1. Install the Linux operating system environment;

2. Add Docker installation sources suitable for your country's network environment;

3. Install the Docker series of programs;

Taking Ubuntu system as an example, the installation process is as follows:

Enter the update source command: apt update

root@ubuntu:/home/hanr# apt update
命中:1 http://us.archiv <mark>e.ubuntu.com</mark> /ubuntu bionic InRelease
获取:2 http://security.ubuntu.com/ubuntu bionic-security InRelease [88.7 kB]
获取:3 http://us.archive.ubuntu.com/ubuntu bionic-updates InRelease [88.7 kB]
获取:4 http://security.ubuntu.com/ubuntu bionic-security/main i386 Packages [1,379 kB]
获取:5 http://us.archive.ubuntu.com/ubuntu bionic-backports InRelease [83.3 kB]
获取:6 http://us.archive.ubuntu.com/ubuntu bionic/main Translation-zh_CN [67.7 kB]
获取:7 http://us.archive.ubuntu.com/ubuntu bionic/restricted Translation-zh_CN [1,188 B]
获取:8 http://us.archive.ubuntu.com/ubuntu bionic/universe Translation-zh_CN [174 kB]
获取:9 http://security.ubuntu.com/ubuntu bionic-security/main amd64 Packages [2,717 kB]
获取:10 http://us.archive.ubuntu.com/ubuntu bionic/multiverse Translation-zh_CN [4,768 B]

Chart1

Enter the command to install Docker: apt install docker.io -y

root@ubuntu:/home/hanr# apt install docker.io -y

Chart2

After Docker is installed, start docker device and set docker startup automatically: Enter Docker start command: systemctl start docker

Enter Docker automatic start command: systemctl enable docker

```
root@ubuntu:/home/hanr# systemctl start docker
root@ubuntu:/home/hanr# systemctl enable docker
root@ubuntu:/home/hanr#
```

Chart3



Verify docker to check whether the installation is successful. Run the command: docker --version

Other operating system installation docker environment can refer to docker official installation method:

Install Docker Engine on Ubuntu | Docker Docs

https://docs.docker.com/engine/install/ubuntu/#install-from-a-package

3.2. Software Deployment

After deploying the Docker environment

Start deploy KiloLink Server Pro, execute the installation script:

Install Method 1:

REPO: the repository address where the image is deployed, the default is docker hub;

VER: Version information of the deployment image, the default is latest;

REPO=kiloview/klnk-pro VER=latest /bin/bash <(curl -fsSL https://www.Kiloview.com/downloads/klnk-pro/install.sh)

Install Method 2:

/bin/bash <(curl -fsSL https://github.com/Kiloview/klnk-server/raw/main/install.sh)

The above command will download install.sh script and execute it locally, follow the prompts to complete KiloLink Server Pro deployment process, after installation is completed, KiloLink Server Pro can be successfully run. For specific steps, please refer to the installation script prompts:

Notice:

TIP1: Use terminal software on the local computer to log into the server through the SSH protocol. It is recommended to use Xshell or PuTTY.

TIP2: The login user who installs KiloLink Server Pro must have root user privileges. It is recommended to use the root user directly.

TIP3: Pay attention to the format issues of the copy command in the DOC document. It is recommended to copy and paste it into a txt notepad first to remove the format issues.



The interactive process of installing the script is as follows:

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Chart4

Installation script prompts KiloLink Server Pro license agreement, Press Q to proceed to

the next step, and the following prompt will pop up:

"You must type [y/Y] to agree, type [n/N] to disagree."



Chart5

Press Y to agree and proceed to the next step;

Press Y "Agree" to automatically download KiloLink Server Pro image from the cloud;

0d349†a6ec1d:	Already exists		
a31576bf378b:	Already exists		
cb7cd1acd91c:	Already exists		
b93f24981bb2:	Already exists		
527daadf3fd8:	Already exists		
9d58969c968c:	Already exists		
40be363e2825:	Already exists		
3ec24d231635:	Already exists		
6be775985f56:	Already exists		
892e2270b886:	Already exists		
0aa0965005de:	Downloading [============>]	8.943MB/23.91MB
71218faa6ff9:	Download complete		
a27196b1a7ca:	Download complete		
0056f6bbf110:	Download complete		
0aeb7dcb544a:	Download complete		
7dcf3dd54243:	Download complete		
ff73c2a50b7d:	Download complete		

Chart6

Please wait for a moment until you enter the next step:

ou can input your install path below, or just press ENTER to install into default location [/root/kilolink-server]
/root/kilolink-server] >

Chart7



If you choose to create a new directory for installation,

Please create the new directory in advance: mkdir -p /dir_path/file_name

If you choose the default directory(~/kilolink-server) for installation, press Enter .



Chart8

Press Y Click the button to agree to proceed to the next step:



Chart9

If the default port 80 or 50000 is not occupied, just press Enter to the next step;

If the default port 80 or 50000 is occupied or you want to specify port, please enter the port you specify. After confirming the port, proceed to the next step.

The interface prompts you to enter the Internet public IP for external access.



Chart10

Please enter the Internet public IP address and press Enter to proceed to the next step.



Chart11

Press Y to agree to without install 'avahi-daemon' and proceed to the next step.

Notice:

If you need KiloLink Server Pro to support automatic discovery of NDI output streams, you need to manually install the following application.

Ubuntu/Debian : sudo apt install avahi-daemon

CentOS/Fedora : sudo yum install avahi-daemo



Chart12

The KiloLink Server Pro installation is now complete.

Kiloview officially launched KiloLink Server Pro Installation reference video:

- 1. English reference video: https://youtu.be/BpTyNKjLEL4
- 2. Chinese reference video:https://www.bilibili.com/video/BV14T421a7Qq

If you encounter other problems, please watch the reference video or send an email to Kiloview technical support.

Email address: support@Kiloview.com

After receiving your email, Kiloview technicians will get back to you shortly.



4. Instructions for Use

4.1. Log in to KiloLink Server Pro

Step 1:

Open KiloLink Server Pro management system with your browser http://SERVER_IP:[PORT]

Step 2:

Once successfully connected, you should see the login interface of KiloLink Server Pro

CINCULEW® KiloLink Server Pro	
	Login
	🙏 admin
	â @
	C Remember Password English
	Read and Agree -End User License Agreements
	Login

Chart13

Step 3:

Input the default username and password and click Login to jump to KiloLink Server Pro's management page.



Notice:

It is recommended to use popular browsers such as Chrome, Firefox, Edge, etc.. The KiloLink Server Pro access URL can be obtained from the standard output returned by the installation script.

The format is: http://SERVER_IP:[PORT], see the software deployment instructions in Chapter 3 for details.

Default administrator username: admin

Default administrator password: Kiloview001



4.2. KiloLink Server Pro HomePage



Picture1

On the platform homepage, you can view the following details:

System running time

Displays the length of time the system has been running continuously.

System alarm information

Provides statistics and details of system and device related event information.

CPU Usage

Display the current platform in real time CPU Resource utilization.

Memory usage

Displays the current memory resource utilization.

Overview of the equipment

Displays the number of connected devices of each type.

Streaming Media Service Status

Displays the current status and performance of the streaming service.

Terminal status

Provides information on the status of various terminals connected to the system.

The summary information on the homepage can help you monitor and manage platform devices efficiently and assist in diagnosing related problems.



4.3. Top Navigation

C KILOVIEW KiloLink Server Pro		NavBar		😩 admin 🔻 🗴 🔿
프 🛛 CPU Usage	Memory Usage	e Rea	al-time Traffic	System Running Time 0d 17h 42m
iii Home iii Device Management All 0/13 iii User Management		67 5% 15.4178 WWW	8.30KB ↑ 23.30KB ↓ Uplink rate Downlink rate	Event statistics
Firmware management Overview		Online devices 🔳 Off	f-line devices 📕 Alarmed devices	Total alarms
10 9pcs				Event Details
6 4 2		Зрез	lpcs	2024-06-26 17:56:33 Attention The device's system disk exceeds 80%,Please reserve sufficient storage space 211220206
Encoder	s Decoders	I/O Converters	Streaming Server	2024-06-26 17:56:33 Critical
Streaming Media S	erver Status	Terminal Status		CPU occupation over 90%,Please check the device running status immediately 211220206
Alias Running Status				2024-06-26 17:55:04 Attention
bondin 0 Channels	↑ 92.63KB ↓ 93.39KB 🕑 Onlin			CPU occupation over 75%,Please check the device running status
SV0001 3 Channels				211220206

Picture2

The navigation menu bar contains the following functions:

Modify user, modify password, system maintenance, log out of the system, switch between Chinese and English, version information.

	Server Pr	o									🛓 admin 🔻 🖪 🤅
E	CPU I	Jsage		Memory	/ Usage		0	Real-time Traffic		Syst	유 Edit user information m 合 Change Password
Home Home Device Management All 0/13 Uses Management		4%			69	%		1.69KB ↑ Uplink rate	4.92KB ↓ Downlink rate	Ever	 System Maintenance Logout
Firmware management	Over	view 9pcs				Online	devices 🔳		Alarmed devices	Ever	0 Total alarms
		Encoders		Decoders		3 1/0 Co	pcs nverters	1pcs	2pcs aming Server	2024-06 The dev 80%,Ple 2112202	5-26 17:56:33 Attention ice's system disk exceeds ase reserve sufficient storage space 206 5-26 17:56:33 Critical
	Stream	ming Media Serve	r Status			Terminal St	atus			CPU occ device r 2112202	cupation over 90%,Please check the unning status immediately 206
		Running Status								2024-06	5-26 17:55:04 Attention
	bondin	0 Channels	↑ 119.93KB 👃	119.95KB						CPU oco device r	cupation over 75%,Please check the unning status
										2112202	

Picture3



4.3.1. Alias Modification

You can edit your user information from the drop-down menu in the top navigation bar.

		step1 🕒 ım	• •
	step2	名 Edit user information	Î
Real-time Traffic	Syst	Change Password	m
77.61MB ↑ 2.22MB ↓ Uplink rate Downlink rate	Evei	System Maintenance	
1		E→ Logout	
s Off-line devices Alarmed devices		0 Total alarms	

Picture4

Fill in the modification information.

Rename	step3	
* Username		
* Alias	liumin	
	Cancel	

Picture5



Confirm the modified information.

Rename		
* Username		
* Alias	liumin	
	Сапсе Ок step4	

Picture6

After the modification is completed, you need to log in again to display the modified user alias.

CKILOVIEW® KiloLink	server Pro			😩 liumin 🕶 🖪 🕖
⊡ Bit Home	CPU Usage	Memory Usage	Real-time Traffic	System Running Time 0d 01h 30m
 Device Management ^ All 0 / 13 	4%	6%	O.OOKB↑ 5.6 Uplink rate Dow	7KB J nlink rate Event statistics
User Management Firmware management	0 Too	0 15.4178	levices 🔳 Off-line devices 📕 Alarm	ed devices
р	10 9pcs 8			Event Details
	6 4 2	36	a	2024-06-26 17:56:33 Attention The device's system disk exceeds 80%,Please reserve sufficient storage space 211220206 4
	0 Encoders	Decoders I/O Cor	werters Streaming Ser	ver 2024-06-26 17:56:33 Critical
	Streaming Media Server Status	Terminal St	atus	device running status immediately 211220206
				Status 2024-06-26 17:55:04 Attention
				O Offline CPU occupation over 75%, Please check the device running status
				Offline 211220206
		2112222	F 1 0 0 0 0 7	

Picture7



4.3.2. Change Password

The password can be changed in the drop-down menu on the top navigation bar.
step1 Im < Im < Im </p>



Picture8

You need to log in again after the modification is completed.

wemory	Usage	Real-ume fram		
Change Password	step3			
* Username				
* New Password	Kiloview1688	۵		
		and the sectors lower		
* Confirm Password	Password must consist of upp characters and digits with 6~ Admin001). Do NOT use spec Kiloview1688	32 characters long. (e.g ial characters and space.		
* Confirm Password	Password must consist of upp characters and digits with 6~ Admin001). Do NOT use spec Kiloview1688	Step4		

Picture 9

4.3.3. System Maintain





System maintenance includes WEB Log, Service log, and Download log





4.3.3.1. Check Web Log

The server web log records web server related request and response information. Web server logs can help monitor and analyze KiloLink Server Pro activities and locate related issues. Such as wrong request, unauthorized access, etc.

4.3.3.2.Check Service Logs

The KiloLink Server Pro log records the running status and operation records of the KiloLink Server Pro service.



4.3.3.3. Download logs

The admin administrator can download related log files.

4.3.4. Languages

KiloLink Server Pro provides "Simplified Chinese" and "English" Switch option between two languages.





Once the user selects a language, it will switch to the selected language immediately without having to refresh the page manually.

TIP: In case of special circumstances, please refresh the web page manually.

4.3.5.Version Information



View the current version number of the KiloLink Server Pro.

Picture13

4.4. Device Management

4.4.1. Equipment Overview

C KILOVIEW [®] KiloLink Server Pro										
	ē	♥ All								
Home		🖹 All		DECODE	ER 🖾 IO	Device Type				
Device Mana	aement 🔿	Status	; ≎ Mo	del 🗢 🛛 Alias	Signal	Network 1				
		Θο		21122						
Y All	3/31	© 0	ffline D2	0 D260						
► P3		90	ffline D3	0 D350-	1					
			Pict	ure14						
TIP: There are	four tabs	under the d	evice over	view.						
ALL: All	types of	Devices								
ENCODER:End	coding dev	rices rices								
I O: End	coding and	l Decoding a	ll-in-one de	vices						

The device overview page allows you to view the device's status, model, name, signal, network, running time, and authorization code, and CPU usage, memory, usage and other information.

	KiloLin	k Server Pi	го									ad 3	min 🔻	6	Ð
	≣	🕈 All	step2								Ма	aintena	nce mo	de 🔵	
Home step1		E All	D ENCOD	ER	DECODER	I 0									
Device Manage	ment ^	Model ᅌ													
- E All	3/31														Î
D 2															
- P5															
117															
🚍 N60		E3	E3									8	F 2		
🛲 N60-ziz		E3	117	step4		192.168.40.112	100.38KB 🤳 31.34KB	17.9%	28.4%	0d 10h 15m	f844116c 🖓	8	3 2		
🔒 User Managem	ent														۰
 Firmware mana 	gement														
															0.2
															27.2
															U
		st	tep3 → 🗖									0	-		1
		🗊 Bulk Op	peration Movi	re							Total 16 < 1		20/page		

Picture15

The relevant operation buttons on the far right of the page correspond to device access permissions, moving devices, and jump to web UI operations.



4.4.2. Device Permissions

TIP: Device permissions can only be authorized by the admin user. When you create a user for the first time and assign device management permissions, you do not yet have permission to access specific devices. You need to first authorize in the device directory and then authorize a single device. The permissions of the two are cumulative.

Initially as state as "Picture16" as shown:

CKILOVIEW* KiloL	nk Server Pro	🕒 liumin 🕶	٦	0
Ξ				
Home				
🚍 Device Management				
🚇 User Management				
Firmware management	+			
	No access			
	Please contact the administrator to get a permission			20 + K/s

Picture16

For details on device catalog authorization,

Refer to he "Catalog Management" section: "4.4.3.2. Access Control"

The authorization process for a single device is as follows: "Picture17" as shown:

TIP: The authorization operation of device directory access control can only be performed by the admin user

									0				
	k Server Pro								e	adm	iin 🔻	۵	0
=	🕈 All								Ma	intenan	ce moo	le 🕕	
step1	E All	D ENCODER	DECODER	⊟ 10									
Home													
Device Management										8 G			1
All 3/31													
📇 User Management													
Firmware management													
													07
										<i>₽</i> , G			16.6
				192.168.40.112 1 199.35KB	👃 19.95КВ	17.5%	28.3%	0d 10h 30m	f844116c @ <mark>step</mark> 3	& G			
										Acces	s Contro	ol	
										A} ⊡			
	N6 step2	N6-43.28								8 6) 🖪		
	Bulk Oper	ation Move							Total 31 < 1 2	> 2	0/page		



Click the ALL (all devices) tab under Device Management;

Move the slider to the far right in step 2 and start configuring access permissions for a single device in step 3.

	E W [∞]				AV	over IP Trailb	lazer
Access Contro	I:E3-170						×
User/User g	^{roup} step4			List			
Van Nan	ne in	_{Type} User		Name	Type No Data	Acess Control	
step5			step6				

Picture18

Select the searched user or user group and add the selected item to the Allow List. Be careful to choose the right Access Control Permission type, it is recommended to select "View and edit".

View : represents only the permission to view the device,

Edit : represents the permission to modify the device.

Access Control:E3-170					×
User/User group		Allow List			
Q admin		Name	Туре	Acess Control	
Name Type		liumin	User	View only	
		admin	User Group	View only	
	Cancel	ОК	step7		

Picture19

After authorization is completed, log out of the system and log in again as the authorized user.

CKILOVIEW KiloLii	nk Server Pro							🛓 liumin 🕶 🖾 🕐
⊒	● AII							Maintenance mode 🕥
Home	🖹 Ali 🗇 EN	CODER						
Device Management	Status ≑							
▶ ► All_step1 ···	> 📀 Online	E3	117	192.168.40.112 🕇 233.41KB 🔱 46.14KB	в 14.4%	28.4%	0d 10h 38m	f844116c 🖉
User Management								
Firmware management								
and that age that age that age that age that age that age that a set of the s								

Picture20

You can see that the individual device authorization has been completed.



4.4.3.Catalog Management

TIP: The authorization operation of device directory permissions can only be performed by the admin user

4.4.3.1. Create directory

Move the mouse to the directory you want to add in the left navigation bar...,

	KiloLink Server	ver Pro				
Home		All 🗇 EN		DECODER	I 0	
Device M	anagement 🛆	Status 🖨	Model 🗢	Alias	Signal	
	stop1	⊖ Offline		211220		
T All	stept) Offline	D260	D260		
🗁 P3	+ Add a group	⊖ Offline	D350	D3501		
= 117	Step2 & Access Control	⊖ Offline	D350	D350		
🛲 N60		⊖ Offline				
🛲 N60-zlz) Offline	E1-s	E1-S		
🚇 User Man	agement) Offline	E2	E2		
Firmware	management) Offline		E3-232		
		⊖ Offline	E3	E3		

Picture21

Right-click "Add a Group", enter the "Group Name", and click "OK" to add it.

	-		
* Group name	KILOVIEW		6
	Concol	OK C	I STON/

Picture22



4.4.3.2. Access control

TIP: The authorization operation of device directory access control can only be performed by the admin user

For users/The user group is assigned access permissions to the device directory.

CKILOVIEW KiloLin	k Server Pr	0						
Ē								
Home	E All	R ENCODER						
🧮 Device Management \land	-							
→ All step1 3/31		User/User group						
✓ ➡ KILOVIEW 2 / 2		Q admin	step3	8				
• 🖿 test step2 2/2		Name		Туре				
 117		🗌 admin	step4	User Group				
🛲 N60-ziz								
🍽 P3								
🚍 N60					<			
🙎 User Management								
Firmware management								

Picture 23

Move the mouse to the directory (test) to be added in the left navigation bar..., Click Access Control option, pop up "Picture24"The window shown;

Access C	ontrol:test								
User/	User group			Allow	List				
Q liur	n								
		Туре			admin		User Group	View and edit	
	liumin	User						View only	
								View and edit	
								step6	
			Cano	el	OK	step7	87		

Picture 24

Select the searched user or user group and add the selected item to the allow List. Be careful to choose the right access control permission type, it is recommended to select "View and edit".



4.4.3.3. Move directory

TIP: Use the admin user to move the device directory

Move the mouse to the directory (test) to be added in the left navigation

bar, ..., appears on the directory

C KILOVIEW KiloLink Server Pro										
豆	🕈 Ali 🔸 Kilo	♥ All > KILOVIEW > test								
Home	🗐 All	C⊅ EN	CODER							
Device Management	Stat	us 🖨	Model 🖨	Alias	Signal					
► All step1 2/21	> 0	Online	E3	117						
	> 0	Online	N60	N60-zlz						
▼ ■ KILOVIEW 2/2										
• 🖿 test step2 🚥										
a 117										
🛲 N60-zlz										
🗁 P3	ň.									

Picture25

When you need to move a directory to another directory, click "Move" to move

C KILOVIEW KiloLink Server Pro								
Ξ								
Home								
😇 Device Management \land	Status 🗢	Model 🗢	Alias	Signal				
► All 3 / 31	> 📀 Online	E3	117					
- All 3731	> 📀 Online	N60	N60-zlz					
KILOVIEW 2/2								
🕶 🖿 test 🛛 🚥								
🚍 11 🛛 🕇 Add a gro	pup							
^{■ N} ⊡ Move St	ep3							
P3 Access Co	ontrol							
E Rename								
♣ Firmware ¹ Delete								

the directory to the target directory.

Picture26

	AV over IP Trailblazer
Move	×
 All step4 KILOVIEW test 117 N60-zlz P3 N60 	
	Cancel OK step5



After the move is successful, the result is as follows Picture28 as shown:

	c Server Pro			
☲	♥ All > test			
I lama	🗐 All 🛛 🖸 EN	ICODER	🖨 10	
Device Management	Status 🖨	Model 🗢	Alias	Signal
	> ⊘ Online	E3	117	
▼ 🖿 All 3 / 31	> Online	N60	N60-zlz	
🗁 KILOVIEW				
► P3				
Test moved 2/2				
a 117				
릚 N60-ziz				
🚍 N60				

Picture28



4.4.3.4. Catalog Rename

Move the mouse to the directory (test) to be added in the left navigation bar...,

	k Server Pro			
E	♥ All → test			
Home	E All D EN	ICODER	Aliar Signal	Natural 1
Device Management	> Online	E3	117	192.168.40.112 ↑ 174.80KB ↓ 50.26KB
KILOVIEW	> ⊘ Online	N60	N60-zlz	192.168.40.132 🕇 543.97MB 🤳 6.23MB
P 3				
• b test step2 2/2				
🛲 117 🕂 Add a gr	oup			
Move				
Access C	ontrol			
♣ Firmware	step3			
🗓 Delete				

Picture29

Click rename option, pop up "Picture30"The window shown;

Renar	ne				
	* Group name	ABC	step4		
		Cancel	ОК	step5	



After modifying the device directory name, the result is show as follows Picture31:

	KiloLin	k Server	Pro			
	₫	♥ All >	ABC			
Home		E AI	I 🗇 EN	CODER	⊟ 10	
🔄 Device Manage	ment 🔿		Status 🖨	Model 🖨	Alias	Signal
- - All	2 / 21		⊘ Online	E3	117	
	3731		⊘ Online	N60	N60-zlz	
▼ ► ABC	2/2					
= 117						
🛲 N60-ziz						

Picture31



4.4.4. Equipment maintenance

Tip: Only after turning on the "Maintenance Mode" can you add devices to the system or restart or reset the devices with one click.

CKILOVIEW® KiloLin	ık Server Pro							8	admin 🔻 💧 🕖
Ē	🕈 All							Maint	enance mode 🌒
Home	E AII 🛛 🗗	ENCODER	DECODER	G 10					step2
Device Management	Status 🗢	Model 🗧							Author
• ► All step1 3/31	⊖ Offline								
* > APC 2/2									
· ■ ABC 2/2									
a 117									
🛲 N60-zlz									
KILOVIEW		N60	N60-zlz	Encoder	192.168.40.132 🕇 142.0	5мв 👃 1.69мв 🛛 64.1%	21.3%	0d 23h 07m	e9e8at
🖿 P3									1
= N60	> ⊘ Online	N60	N60	Encoder	192.168.43.73 ↑ 28.25N	ив ↓ 232.33Кв 42.4%	17.4%	0d 19h 05m	1038b
🚇 User Management									+ K/s 32,1 + K/s
Firmware management									

Picture32

4.4.4.1. Add a device

TIP: Prepare the serial code of the device in advance. Note that not all devices are in "Picture33" shown in the location.

Take N60 for example, find the version information of the device, which generally contains the device serial code.

Like "Picture33" shown:



Picture33



The process of adding a device is as follows: "Picture34" as shown:

	nk Server Pro							🔒 ad	lmin 1		1
- -	♥ All							Maintena	ance r	node	
■• Llama	+ Add device	0	One-click resta	Int COne-click re	set						
	step3										
Device Management ^	All	i o									
• 🖿 All step1 3/31	D260										
	D350										
a 117	F1										
🛲 N60-zlz	51.6										
KILOVIEW	E1-5										
► P3	E2										ti i
	" E3										Ū 📍
-	N3										E 174
📇 User Management	N30			2024214554546	f844116c 🖉		E3-170	1.01.0002			₩As
 Firmware management 	N40										
	N6										
	N60										
	P3										
	80360										
	KD200		Zateh Deletien	Consel dispeteb					201		
	RD350		satch Deletion	Cancel dispatch					20/pa	ge	

Picture34

Enter the device management page, turn on the maintenance mode switch, and

click the "Add Device" button.

♥ All						Maintena	ance	mode	•
		Add device							
All		* Alias	KV-N60						Î
		* Serial Number	70091110096	6F9					
		* Authorization Code	e9e8af35	step6 🖉 Generate					
		Note	KILOVIEWDEN	NO					
									•
									0.2 + K/s 34.3
									¥ K∕s
			Cancel	ок step8					

Picture35

Enter the following information:

- 1. Device Name
- 2. Serial number
- 3. Authorization code
- 4. Remarks

Authorization code can be generated automatically by clicking "Generate".



4.4.4.2. Device Registration

TIP: Prepare the authorization code generated on KiloLink Server Pro in advance.

To connect the devices to KiloLink Server Pro tplatform, input the unique

authorization code to complete the registration operation.

Take N60 as an example:

VIEW* NED Home Settings KiloLink Sen	ver step1		KiloLink Server	
NDI HB NDI HX				
			Status	
			Link Status	
	_{≂≠} 1·58	HDMI	Management Platform	
	RR4EMT		step2 Enable Yes	
			step3 Server Address xxxx	
		G -II-D	step4 Service Port - 50000	
		HDMI	step5thorization Code e9e8af35	
🗐 📰 📴 🔘 Start Recording 🏟	Image 🚺 Video		step6 Encryption Yes No	
			step7 Network Port eth0	
NDI				
Audio			Apply	
Connection				

Picture36

First, click on the web UI to enable the KiloLink Server Pro connection function.

Again, fill in the IP address of the KiloLink Server Pro.

Last, fill in or selected Server Port, Authorzation Code, Network Interface, enable encryption or not.

Tip:

In general, the server port and encryption method are set to the default values,

unless KiloLink Server has additional configurations.



4.4.4.3. Device Confirmation

TIP: On Kile	oLinl	k Ser	ver Pro, pay a	ttention to switching	betwe	en differ	ent tabs			
									4	
CKILOVIEW KiloL	ink Serv	er Pro						e	admin 🔻	
-	e 📍 All							Mai	ntenance mo	de 🔵
Home		All	🗈 ENCODER 🛛 😨 DECODER	🖨 10						
Device Management										
Device management										
• 🖬 All 3/3										
Ser Management										
 Firmware management 										
		N6-43.28							8 🖻 🛛	2
		N60-zlz	Encoder	192.168.40.132 ↑ 564.92MB ↓ 7.28MB	64.0%	21.5%	0d 23h 55m	e9e8af35 🕛	A 🖻 🛙	7
		N60-WTJ							8 🖻 🛙	
		N60	Encoder	192.168.43.73 🕇 135.00MB 🤳 972.29KB	36.3%	17.7%	0d 19h 53m	1038b68a 🖓		8

Picture37

Return to KiloLink Server Pro to view the device status. If the device is displayed as online, it means the device has been added successfully.





4.4.4.4. Move devices

TIP: On K	iloLink Se	erver	Pro, "	Move devi	ces" ope	ratio	ns require	e the ı	use of	the adn	nin user	
CKILOVIEW® KiloLir	nk Server Pro											🛃 admin 🔹 🖪 🛈
E	♥ All										м	aintenance mode 🌒
Home		Model •										0
🔄 Device Management 🗠	> Online	N60	N60		19	2 168 43 73	1 379 17MB . 2 38MR	73.5%	3.7%	0d 04h 44m	1038b68a @	A De la
- 🖿 All step1 171												sten2
KILOVIEW												
► P3												
■ N60												
User Management												
Firmware management												
	step2											
	Bulk Operation	Move									Total 1 💉 🧻	> 20/page ~

Picture38

Single device move

On the far right of the device list, you can see the move button for the current



device. Click it and a pop-up window will appear like this: shown as "Picture39":

Picture39

In the pop-up window, select the device category directory (Kiloview) as the target

of the move. Finally, click Confirm.



Batch Move

Click the batch operation button at the bottom left of the device list and the device checkbox will appear.

	erver Pro					
_ ♥	All					
Home	🗐 All 🛛 🛱 10					
Device Management	Status 🗢	Model 🖨				
r ≥ All step1 1/1	∎ → ① Attention	N60	N60		192.168.43.73 ↑ 347.47MB 🔱 2.19MB	87.7%
KILOVIEW						
Lloss Management						
A rimware management						
D. In the second se						
	step2					
	Cancel Operation	Move				

Picture40

Select the checkbox of the devices that need to be moved in batches, and then click the "Move" button. A pop-up window will appear like this:"Picture41" as shown:

		Move					
N60	N60	Move					0d 04h 55m
		 All KILOVIEW P3 N60 					
			Cancel	OK	step6		

Picture41

In the pop-up window, select the device category directory (Kiloview) as the target of the move. Finally, click Confirm.



Picture42



4.4.4.5. One-click Restart

VIEW KiloLink Serve	r Pro							8 ac	imin 🔻	17
								2 Mainten	ance m	od
	t device ් () One-click res	tart COne-click	reset							
·	📑 Status 🖨	Serial Number 🖨					Upgrading status 🖨			
All	Î									
step1 3/31 D260	□ ⊖ Offline									
Management D350	□ ⊖ Offline									
ware management E1	□ ⊙ Offline									
E1-s	□ ⊙ Offline									
	□ Online	2024214554546	f844116c 🖉			E3-170		1.01.0002		
EZ	🔲 Θ Offline									
P E3	🗌 🕒 Offline									
N3										
N30										
N40	🔲 🖂 Offline									
N6	🔽 🛛 Online	70091110096F9	e9e8af35 @	N60-zlz	N60	N60-700911100		2.02.0018		
N60	sttep3 Offline									
D3		F202405286688	1038b68a	N60	N60	分发源请勿用-73		2.02.0017		
P3										
RD2	ο Ο Θ Offline									

Picture43

Step 3: Select device

You can select a single device, or select multiple devices at once using "Batch Operation".

Step 4: Click the "One-click restart" button.

Click OK in the pop-up confirmation dialog box to restart the selected device.

fline					
fline					
iline	Tip 202421455454	s			E3-170
fline	147258369100	Confirm One-click	restart?		
filne			Cancel	OK	
fline			Callee		
filne					
fline					

Picture44



4.4.4.6. One-button Reset

Step 3: Select device

You can select a single device, or select multiple devices at once using "Batch Operation".

	k Server Pro									8 ac	lmin 🔻	ē	0
Œ	♥ All									Maintena	ance m	ode	
Home	+ Add device		One-click resta	art COne-click re	eset step4								
				Serial Number 🗢	Authorization Code 🖨			Device Name 🖨	Upgrading status 🖨		Opera		
Device Management ^	All												
• 🖿 All step1 3/31	D260												
😩 User Management	D350												
Firmware management													
	EI												
	E1-s			2024214554546	f844116c 🖉	117	E3	E3-170		1.01.0002			
		ste	p3 Offline										
þ													ŵ 📍
	N3	D											ō 📍
	N30												3.7 K/s 39.0
	N40	٥											×k/s آ
	N6			70091110096F9	e9e8af35 🗗	N60-zlz	N60	N60-700911100		2.02.0018			
	NGO												
	NOU			F202405286688	1038b68a 🖉	N60	N60	分发源请勿用-73		2.02.0017			
	P3												
	RD260												
	RD350		Batch Deletion	Cancel dispatch							20/pa	je	

Picture45

Step 4: Click the "One-click reset" button.

Click Confirm in the pop-up confirmation dialog box to perform a "one-click reset" operation on the selected device.

ė					
ė					
e	Tip: 202421455454(5		×	E3-170
ē	147258369100	Confirm One-click r	eset?	step5	
e			Cance		
ė					
ė					

Picture46



4.4.4.7. Firmware Upgrade

- Enable maintenance mode in the upper right corner of the page;
- Click the model in the list on the left column;
- Check the relevant equipment that needs to be upgraded;
- Click the "Firmware Upgrade" button.

	nk Server Pro								😩 adn	nin 🔻 🛛	I ()
ē	♥ All								Maintenar	ice mode	e 💽
😫 Home	+ Add device	One-click resta		reset	rading step5						
				Authorization Code 🖨	Alias 🗢			Upgrading status 🖨			on Q
Device Management ^	All) 🗇
• All step1 2/31	D260	🔲 Θ Offline) 🗇
🚇 User Management	D350	🖸 🛛 Online	2024214554546	f844116c 🖉	117	E3	E3-170		1.01.0002	C 🗗) 🗇
Firmware management		step4									
	E1-s										
	E2										
	₀ 😑 step3										•
	N3										0.0

Picture47



Notice:

TIP:

1. Before upgrading, you need to upload the corresponding version of the device firmware to KiloLink Server Pro;

2. For the operation of uploading firmware, please refer to the contents of section "4.6. Firmware Management";

3. To upgrade the firmware on KiloLink Server Pro, you need to enter the maintenance mode first;

4. Please use the admin user to perform the upgrade operation, otherwise there may be permission issues.



In the dialog box that pops up, select the firmware to be upgraded and confirm the upgrade operation.

🕈 All					
	evice				
	Select Fir	mware			atus 💠
	stepo	Firmware Version	Upload date	Description	
	<u> </u>	1.01.0003	2024-06-14 11:49:11		
	•	1.01.0002	2024-06-14 11:52:04	02	
	•	1.01.0001	2024-06-12 16:58:53	0001	
N40					
			Ca	incel OK step7	

Picture48

the system will automatic dispatch firmware to the corresponding device.

											100
								Maintena	ncer	noa	۵
device											
	Status 🖨	Serial Number 🗢	Authorization Code 🗢		Model \$		Upgrading status 🗢	Current firmw			
		2024214554546	f844116c @	117	E3	E3-170		1.01.0002			
									C		Ū
		70091110096F9	e9e8af35 €	N60-zlz	N60	N60-700911100		2.02.0019			



Dispatch after completion

wait for the device to restart to complete the firmware upgrade operation.

								-				
Server Pro									🔒 a	dmin		A (
🕈 All									Mainten	ance i	mod	e 🤇
+Add device	00	One-click resta	art COne-click	reset								
		Status 🖨		Authorization Code 💠		Model 🖨						
All												
D260												
D350												
5000												
EI												
E1-s			2024214554546	f844116c @	117	E3	E3-170		1.01.0003			Ū
50												

Picture50



4.5. User Management

Default administrator username: admin

Default administrator password: Kiloview001

- First, Login to KiloLink Server Pro
- Then, Create new users and user groups through the user management interface, and add permissions to users and user groups.
- Finally, Save the configuration

TIP: The user management function also includes operations of adding, modifying, deleting individual users, and deleting users in batches.

	KiloLin	k Serv	rer Pro		😩 fuq111 🕶 🖪 🖉
	≊			用户和数 用户的	
📫 首页		0.0			
🔤 设备管理		74.8	STHU-		
> 🖿 All			用户名	影称	が下して
			admin01	admin01	6 4 8
	_				6 Q B
▲ 固件管理			fuq	fuq111	8 Q (j)
					6 @ @
					6 @ @
					合 🤨 🗓
					合 曍 値
					6 ¢ 6
			星期除		共8条 < 1 > 20家/页 >

Picture51

4.5.1. Add User

On the user management interface, find and click the "Add User" button. Enter user information including: user name, nickname, and password.

			-	
C KILOVIEW KiloLinl	k Server Pro			
Ξ			User list User Group	
Home	Step2 유Add User	Add User		
All step1 0/13	Username	* Username	liumin	
🏽 User Management	 123456 Admin123 	* Alias	m	
Firmware management		* Password	•••••	
	fuq hufei		Password must consist of uppercase characters, lowercase characters and digits with 6~32 characters long. (e.g Admin001) Do NOT use special characters and space	
		* Confirm Password	••••••••••••••••••••••••••••••••••••••	
	lg liubo			
			Cancel	
	() bec		Instant	



TIP: The password must contain uppercase and lowercase letters and numbers and be at least6-32Requirements between positions.



4.5.2. Modify User

User password modification

In the user management interface, find the target user, click the "Change Password" button, and the "Change Password" window will pop up.

	KiloLini	k Server Pro		🔒 admin 🕶 🖪 🕜
	⊴		User list User Group	
Home		8 Artis Licer		
E Device Manage	ment ^	7 1740 0344		
👻 🖿 All				
		🗆 fuq	fuq	
		gongle	gongle	
📾 N60		hufel	hufei	
P3 step1				
a User Managem	ent	🗆 liumin	liumin	modify password 🕒 🗉 💼
A Firmware mana	gement			
		🗆 mhb	mhb	
		🗆 test	test	
		zengpeng	zengpeng	
		Batch Deletion		Total 10 < 1 > 20/page ~

Picture53

In the "Password Change" window, fill in "User Name", "Password", "Confirm Password", and then click "Confirm".

C KILOVIEW KiloLin						Θ		
三 計 Home			User list					
📰 Device Management \land	Add User	Change Password						
- 🖿 All 1/1								
✓ ■ KILOVIEW 1/1		step3 * Username						
		* New Password	Newpass1					
				acters lowercase				
■ P3 step1	🗌 iris		characters and digits with 6-32 characte Admin001). Do NOT use special characte	rs long. (e.g rs and space.				
augement 🙎 🙎	🗌 liumin	* Confirm Password	Newnass1			step2	1 (l)	
Firmware management			Tonpass					
			Cannel					
			Charles Con					

Picture54

User alias modification

In the user management interface, find the target user, click the "Modify Alias" button, and the "Rename" window will pop up.

								😫 admin 🕶 🖪 🕐
Ξ						User list User Group		
😫 Home								
🖀 Device Management \land	- 8.A	dd User	Rename					
* 🖿 All 171								
▼ ■ KILOVIEW 171			* Us	semame				
				* Alias	liumin	•		
■ N60								
P3 step1					Cancel	ok step4		
🗶 User Management								
Firmware management								step2 💷 🗉
1								

Picture55

Enter a new alias and click OK to save.



4.5.3. Delete Users

Deleting a Single User

In the user management interface, find the target user, click the "Delete" button, and a "Tips" window will pop up.

C KILOVIEW KiloLink						😫 admin	• 🖪 🖉
				stép2 User list	User Group		
😫 Home	RA	dd Liser		L			
Device Management All step1 3/3	-	Usemane					e.
Iter Management							🔲 step4
Cisci mallegrant in						6	
Firmware management							Ġ
							Ū
							Ġ
			Tion				Ū
			inps				8
			Are you :	ure to delete it?			B
					ancel OK		8
						stal 9 (1) 20/	page v

Picture56

Deleting Users in Bulk

In the user management interface, select the target users to be deleted in batches, click "Batch Delete", and the "Prompt" will pop up.

In the "Tips" window, click "OK" to delete users in batches.

KiloLin	ık Server Pro	
		step2 User list User Group
 Home Device Management ^ 	Add User	
▶ ► All step1 3/3	Step Jume	
augument 🙎	🖾 fuq	
C Firmura and a firmura at	gongle gongle	
Firmware management		
		lips
		I Are you sure to delete it?
	🗈 🔽 zengpeng	step5
	Batch Deletion step4	Cancel
	Junited and steps	

Picture57



4.5.4. Configure User Group

4.5.4.1. Add User Group

In the User Management interface, select the User Groups tab, and then click the "Add User Group" button. When the "Add a User Group" window pops up, fill in the "Group Name | Description".

Search and select the user you want to add.

🧿 KILOVIEW" 🕴 KiloLin	k Server Pro		😫 admin 🕶 🗴 🛈
E Home	step3 I ≨Add a user group	User list User Group Add a user group Step4	
All step1 0/13		* Group name kiloview Create Time \$	
augement 🗶		2023-09-11 18:29:56	
Firmware management		Allovers 1/16 Cancel Allove List 0,0 Cancel Allow List 0,0 Cancel Cancel	Total 1 🤇 1 🌛 200page 🗸

Picture58

Add users to the new user group and click OK to complete the process.

	Add a user group				
Group name S	* Group name	kiloview			
l user l	* Description	Kiloview		2023-09-11 18:29:56	
Batch Deletion			O Allenu List		
			O Enter keyword		
	⊔ Ig				
	liubo				
	□ lys				
	🗌 mhb				
	□ test1				
		Cano	01		
		Callo	step/		

Picture59



4.5.4.2. Authorized User Group

	KiloLink	c Serve	r Pro								😩 admin 🖲	ð	0
	₫					User list	step2 User Group						
Home	ient ^	⊜Adk	step3 1 a user group										
All sten1	0/13									Description	step4		
User Menagemen			kiloview						2024-06-27 10:28:48	Kiloview			
 Gser Managemen Firmware manage 	ement		user	Device Management ming Server	User Management	Firmware Upload	Firmware dispatch	Strea	2023-09-11 18:29:56	user			
		Bato	h Deletion							Total 2 < 1	> 20/pa	ge v	

Picture60

Select a user group and authorize it relevant permissions.

System permissions include:

- Equipment management;
- User Management;
- Firmware management;

You can authorize different system permissions to different user groups, which will take effect after you click OK.

Permission	Crea
🔵 Hide 💽 View	2024
Hide • View/Edit	202
💿 Hide 💿 View/Edit	
💿 Hide 💿 View/Edit	
OK	
	Permission Hide View Hide View/Edit Hide View/Edit Hide View/Edit OK



Note: Device management permissions need to be set in "Device Management".

TIP: Device permissions can only be authorized by the admin user

When you create a user for the first time and assign device management permissions, you do not yet have permission to access specific devices. You need to first authorize in the device directory and then authorize a single device. The permissions of the two are cumulative.



Hidden: management permission without corresponding functions for the relevant user groups;View: The relevant user group can only view the authorized function modules;Edit: The relevant user group can operate the authorized functions;

C KILOVIEW® KiloLin	k Server Pro	 Modifica 	on Successed	×	
Ē			User list	User Group	
📫 Home					
🧮 Device Management \land					
► All 0/13		System permission			Create Time 🗢
	kiloview	Device Management User Manag	ement		2024-06-27 10:28:48
Firmware management	user user	Device Management User Manag ming Server	ement Firmware Upload	Firmware dispatch	Strea 2023-09-11 18:29:56
	Batch Deletion				

Picture62

4.5.4.3. User Management



Picture63

The modification options are:

User Group Authorization Modify

"User Group Authorization Modify" Reference"4.5.5.2. Authorized User Groups".

Add or delete a members of a user group

	KiloLink Server Pro					😩 admin 🔻 🛛	30
Et Home	E		User list User Group				
Device Managem	ent ^ SAdd a user group						
KILOVIEW	admin admin	Device Management User Management Firmware Uploa	d Firmware dispatch	2024-06-28 09:55:28	admin		
► P3	Batch Deletion	Device Management User Management Firmware Uploa	d Firmware dispatch	2024-06-11 16:15:02		ি A ∈] ট > 20/page	
User Managemen	t.						
Hrmware manage	ment						

Picture64

In the User Management interface, select the User Groups tab, and then click the "User Group Members" button.

	E₩°		AV over	IP Trailblazer
EKILOVIEW [®] KiloLin	k Server Pro			😫 admin 🕶 🖪 🔿
E Home	SAdd a user group	User list User Group step2		
Device Management ^	Group name	Add to A group		
- 🖿 All 1/1		Device Manar * Group name admin		
KILOVIEW				
🖿 P3		Lescription admin		Total 2 C 1 2 20/name v
E N60 step1		All Users 1/7 Allow List 0/3		
🏨 User Management				
Firmware management.		🗆 fuq 👘 🛄 🗆 gongle		
		hufei		
		test		
		Cancel OK step6		

Picture65

Deletion and addition of User group members, Please refer " 4.5.5.1. Add User

Group".

Rename a User Group

In the User Management interface, select the User Group tab and click the "rename" button.

EXILOVIEW Kilol.								🕒 admin 🕶 🕯	
3					User list User	Group step2			
Home									
🖀 Device Management 🦟	GAR	s a user group	Rename						
- 🖿 All 17									
IN KILOMEN			* Group name	kloview		0			
KILOVIEW								() A 📑	
► P3				Cancel	ok ste			2 20/page	
= N60 step1									
🍓 User Management									
Firmware management									

Picture66

After modifying the user group name, click "OK" to complete modification.

	c Server Pro		
豆		User list User	Group
 Home Device Management 			
- ► All 1/1	Group name	System permission	
	🗌 admin	Device Management User Management Firmware Upload Firmware dispatch	
- NEOVIEW	L kiloview	Device Management User Management Firmware Upload Firmware dispatch	
► P3	Batch Deletion		
🚍 N60			
🚨 User Management			
Firmware management			

Picture67



4.5.4.4. Delete User Group

In the User Management interface, First select the User Group tab and then select the user group to be deleted.

C KILOVIEW® KiloLinl	k Server Pro		
E			User list User Group step2
Home Device Management	SAdd a user group		
★ ► All 1/1	Group name	System permission	
	✓ test-g3	Device Management User Management Firmware Upload	Firmware dispatch
step3	test-g2	Device Management User Management	
► P3	🗹 test-g1	Firmware Upload Firmware dispatch	
■ N60 step1	🗌 admin	Device Management User Management Firmware Upload	Firmware dispatch
🚨 User Management	🗌 kiloview	Device Management User Management Firmware Upload	Firmware dispatch
Firmware management	Batch Deletion step4		

Picture68

Click "Batch Deletion" to pop up the deletion confirmation Tips. Click "OK" to delete.

Kiloview KiloLin	k Server Pro		
ē			User list User Group
Home			
	test-g3	Device Management User Management Firmware Upload	
	🛛 test-g2	Device Management User Management	
₩ P3	🔽 test-g1	Firmware Upload Firmware dispatch	
🚍 N60		Device Management User Management Firmware Upload	
🙎 User Management		Device Management User Management Firmware Upload	Firmware dispatch
Firmware management	Batch Deletion step4	Tips	
1		() Are you sure to delete it?	step5 Cancel

Picture69



4.6. Firmware Management

TIP: Prepare the firmware packages of related devices before uploading the firmware to the KiloLink Server Pro

4.6.1. Firmware Management

After login into the KiloLink Server Pro system, find the "Firmware Management" option in the main menu.



Picture70



4.6.2. Manage Firmware

In the firmware management interface, select the "Device Model" tab and click the "Edit" button.

Edit the description, such as "Picture77" as shown:

EKILOVIEW KiloLir							admin + 🖪 O
E	@Firmware Up	load					
Home		23					
Device Management				Edit			step3 🗾 🖻
All 3/3					* Description	firmware-N60-kiloview-2.02.0020-20240628	
😩 User Management	N30						
 Firmware management. 	N40						
step1	N60 Step2	1					
						Cancel OK step5	

Picture77

In the firmware management interface, select the "Device Model" tab and click the "Delete" button.

Delete a single firmware, such as "Picture78" as shown:

Kiloview Kilol							🕒 ədmin 🕶 🖪 🕐
:	@Firmwar	e Upload					
Home Home							Operation Q
Device Management							es e
+ 🖿 All 1)							step3 🔝 🖻
🎎 User Management							
 Firmware managemen 	N40						
step1	N60						
	steppid	osd					
				Tips			
				• Are	e you sure to delete it?		
					Cancel		

Picture78



In the firmware management interface, select the "Device Model" tab.

Then select the checkbox of the device firmware that you want to delete and click the "Batch Delete" button.

Batch delete firmware, such as "Picture79" as shown:



Picture79

4.6.3. Upload Firmware

Find the firmware management interface

In the firmware management interface, find the "Firmware Upload" button and click it.

0	KILOVIEW KiloLin	k Server Pro				
		@Firmware Uple	ad step			
			Versio			
88				Firmware Upload		
× 🖬				Firmware Upload	Select a file Only bin files can be uploaded	
	KILOVIEW	N30			No file selected	
	ኮ РЗ			* Description	Describe or note for the uploaded firmware	
		ziguang_osd			within 100 characters.	
8	User Management					
6	Firmware management				Cancel OK step5	
	step1					

Picture71



Select the firmware file

> • 🛧 📙	« arch.MPSoc > N60-V2.0 > 2.02.0020	~ č) Search 2.02.0020	م ر
Organize 🔻 Nev	v folder		8==	- 🔳 🔞
This PC	^ Name ^	Date modified 6/28/2024 8:36 PM	Type BIN File	Size 206.871 KB
 Desktop Documents Downloads Music Pictures Videos Local Disk (C:) Local Disk (D:) 				
Vetwork Network	~ <			
	File name: firmware-N60-kiloview-2.02.0020-20240628.b	bin	V BIN (*.bin)	~
			<u>O</u> pen	Cancel

Picture72

Select the firmware file to be uploaded in the pop-up file (usually *.bin Format).

					k Server Pro	KILOVIEW [®] KiloLink	0
				Ipload	ଦFirmware Up		
							==
		Firmware Upload	2024-06-1				
	Select a file Only bin files can be uploaded	Firmware Upload					× 🖿
	firmware-N60-kiloview-2.02.0020-20240628.bin ×				N30	KILOVIEW	1
	Describe or note for the uploaded firmware	* Description				► P3	
	within 100 characters.						3
						User Management	.8
	Cancel					Firmware management	•
	Select a file Only bin files can be uploaded firmware-N60-kiloview-2.02.0020-20240628.bin × Describe or note for the uploaded firmware within 100 characters.	Firmware Upload		1	N3 N30 N40 ziguang_osd	All 3/3 ► KILOVIEW ► P3 ■ N60 ■ N60-TEST-001 ■ N60-TEST-004 User Management Firmware management	- 11

Describe the firmware

Picture73

Enter a description of the firmware in the "Description" field. Click the "OK" button to start uploading.



Waiting for upload

-1	Firmware Upload		×
	Firmware Upload	Select a file Only bin files can be uploaded firmware-N60-kiloview-2.02.0020-20240628.bin	
		×	
	* Description	firmware-N60-kiloview-2.02.0020-20240628	
		Cancel	

Picture75

KiloLink Server Pro will display the upload progress, waiting for the firmware upload to complete.

TIP: The firmware upload time depends on the file size and network speed, please wait and observe patiently.

4.6.3.Check Uploaded Firmware

After uploading is complete, you can view the uploaded firmware in the firmware management list.

C KILOVIEW [®] KiloLir	nk Server Pro			0	Firmware uploaded Successed	×		
亘	ଦFirmware Upl	oad						
Home				Upload date ¢		Description		
Device Management ^	E3		2.02.0020	2024-07-02 15:27:50		firmware-N60-kiloview-2.02.0020-2024062	8	
All 3/3	N3		2.02.0019	2024-07-02 15:28:37		firmware-N60-kiloview-2.02.0019-2024062	8	
🚇 User Management	N30							
 Firmware management 	N40							
	N60	1						
	ziguang_osd							

Picture76

4.6.4. Upgrade Firmware

For details on operation, see "4.4.4.7. Firmware Upgrade" chapter.

In the device management interface.Turn on "Maintenance Mode" and select the "Device Model" tab .Select the checkbox of the device that needs to be upgraded. Then click the "Firmware Upgrade" button and a window for selecting firmware will pop up.

CKILOVIEW Kild	Link Server Pro	D						e admin - ∎ 0
	≡ ^{♥ All}							Maintenance mode
Ba Home	+ Add dev	ice One-clic)						
🖀 Device Management	All	■ Status ÷	Select F	irmware				N60 🗹 🗉 🗇
🕨 🖿 Ali 🛛 step1 🔹	13 N60	step4 ⊘ Online		Firmware Version				N60 🗹 🕂 🗊
🎩 User Management	step3		٠	2.02.0020	2024-07-02 15:27:50	firmware-N60-kiloview-2.02.0020-20240628		2 4 6
Firmware manageme			•	2.02.0019	2024-07-02 15:28:37	firmware-N60-kiloview-2.02.0019-20240628		
						Cancel OK step7		

Picture80

Select the corresponding "Firmware Version" in the pop-up window, and then click "OK" to start the upgrade.

	KiloLin	k Server Pro					Modification S	uccessed	×				😩 admin 🕶 🖪	0
		♥ All											Maintenance mode	•
Home		+ Add devio	• • • •	one-click										
Device Manag	ement ^	All			70091110096FA	d5f09163 @	N60-TEST-001	N60	N60-TEST-001		2.02.0018	2.02.0020 🛞	N60 🗹 🖷	
👻 🖿 All		N60			70091110096FB	04f37769 😥	N60-TEST-004	N60	N60-TEST-004	Oispatching	2.02.0016.beta8	2.02.0020 🛞	N60 🗹 🗐	
KILOVIEW					F202405286688	1038b68a 🖉	N60	N60	分发蒙瞒勿用-73		null			
🖿 P3														

Picture81

Thanks for reading!

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