

快速入门手册

FN-50/FN-60 视频编解码卡板

12G-SDI或4K HDMI视频编解码卡板

(V1.0)



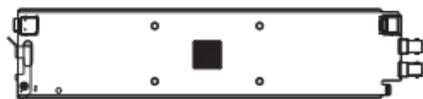
通过本手册，您可以了解到

- 装箱清单
- 设备接口和功能
- 设备连接、登录和基本应用
- 设备升级和恢复出厂设置

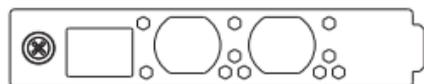
在您正式使用本产品之前，建议您仔细阅读本产品使用说明书。为确保您的人身安全及避免设备受到物理或电气损伤，请严格遵照本说明书的指导或在专业人员指导下进行安装使用本产品。不正确的电气连接或物理安装方式将有可能造成设备的永久损伤，甚至威胁人身安全。由于产品不断升级更新，您所购买的产品可能与本手册的内容有所变更，请以包装箱内实际产品为准。

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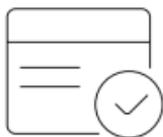
1 设备清单



(1) 卡板×1



(2) 档板×1

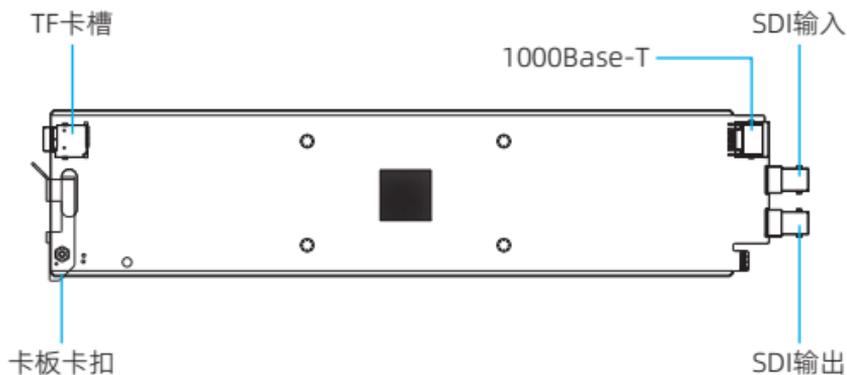


(3) 合格证/保修卡×1

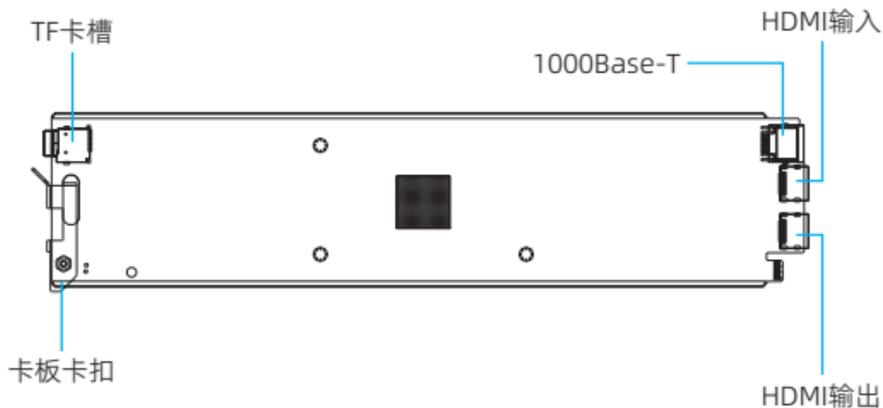


(4) 《快速入门》手册×1

2 设备接口



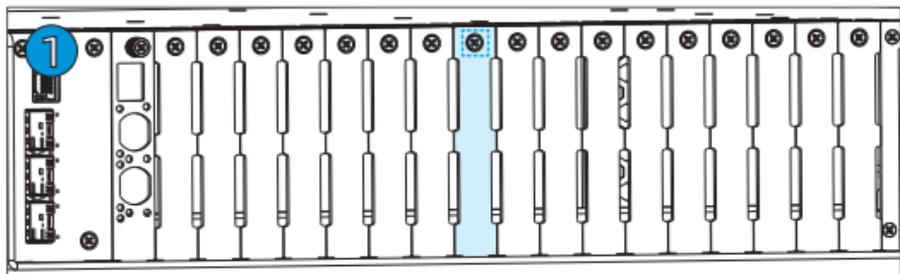
FN-50卡板接口图



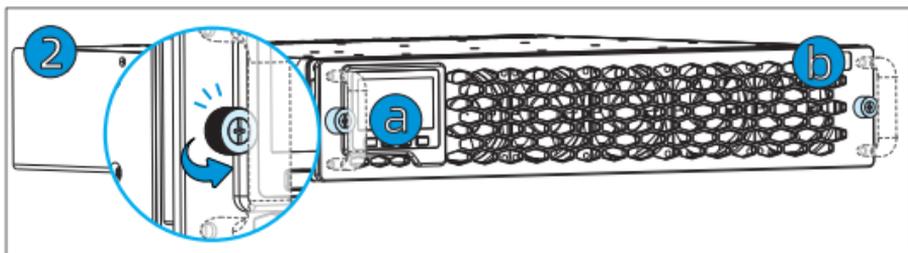
FN60卡板接口图

3 板卡安装

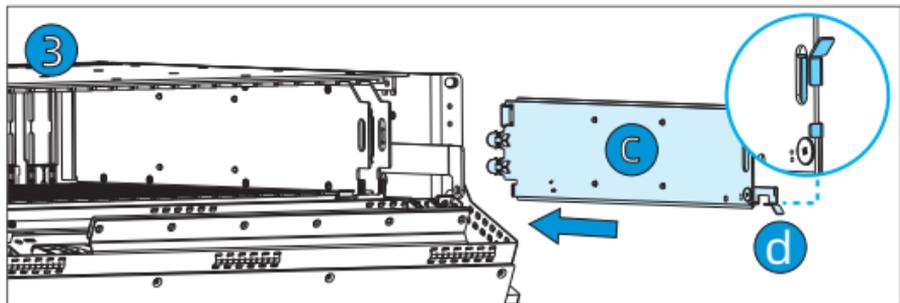
步骤1：拆除RF02上对应安装位置的后挡板。并安装与FN-50/FN-60对应的挡板。



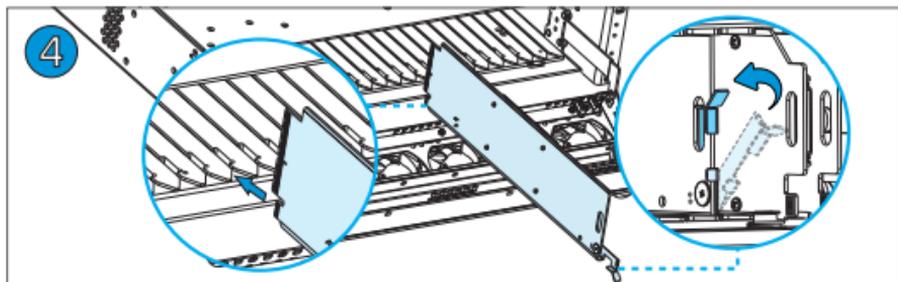
步骤2：将RF02前面板两个手拧螺丝（a和b）拧开，打开机框。



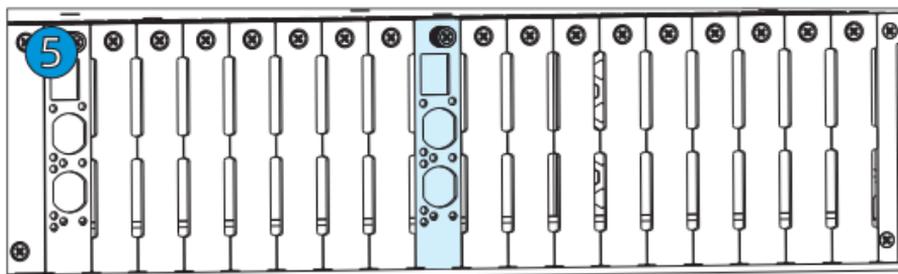
步骤3：将FN-50/FN-60卡板(c)金属卡扣(d)向右拨动，再往下拨动即可松开。



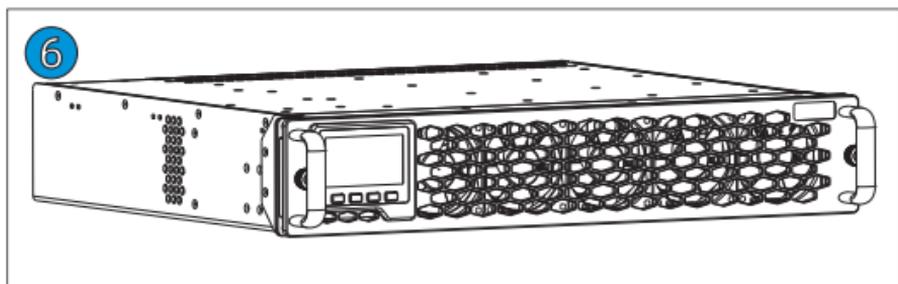
步骤4: 将卡板(c)组件对齐卡槽(短pin金手指朝下), 平行推入到底, 金属卡扣向上拨动, 再往左拨动即完成锁紧, 关闭前面板。



步骤5: 在RF02后盖安装配套的FN-50/FN-60挡板并拧紧螺丝。



步骤6: 拧紧两个手拧螺丝a和b, 组件安装完成。



拆卸时, 将RF02前面板2颗手拧螺丝松开, 松开金属卡扣(d)平行抽出卡板组件(c)。



获取更多 FN50/60 卡板安装使用帮助， 请访问 Kiloview 官方网站地址：

<https://www.kiloview.com/cn/fn50-fn60>

4 发现设备

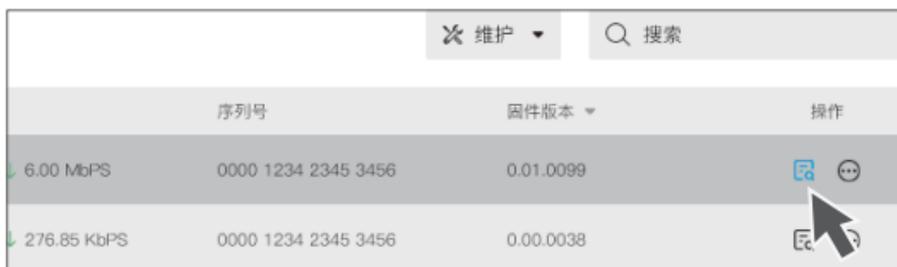
RF02 机框自带设备发现功能；设备插入 RF02 机框后，会通过 DHCP 自动得一个 IP 地址。可以通过 RF02 的前面板的“◀”，“▶”键切换到设备列表信息界面，查看 RF02 中接入的所有卡板设备的 IP 地址等信息。

Kiloview		RF02		2024-09-04 10:44:00		
#01	✔	FMG-400	192.168.35.1	8.2 ↑ Mbps	6.6 ↓ Mbps	31°C 88°F
#02	⚠	FMG-400	192.168.35.143	6.2 ↑ Mbps	4.2 ↓ Mbps	33°C 91°F
#03	✔	FN-50	192.168.35.189	4.2 ↑ Mbps	2.8 ↓ Mbps	36°C 91°F
#04	✔	FN-60	192.168.35.201	9.0 ↑ Mbps	3.6 ↓ Mbps	31°C 88°F
#05		未插卡				
#06	✔	FN-60	192.168.35.202	7.8 ↑ Mbps	1.2 ↓ Mbps	31°C 88°F

5 设备管理

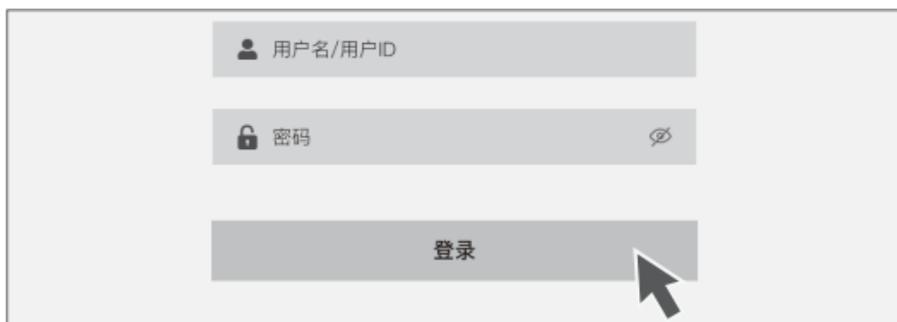
RF02 正常启动开机后，支持通过 WEB 管理系统来单独操作和管理板卡。

方法一、正常开机后，在 WEB 浏览器地址栏输入 **https:// RF02 的 IP 地址 /**；并登录 RF02 的设备管理平台，在 RF02 的设备管理栏目中，可直接点击要管理的 FN-50/FN-60 的业务板卡。



	序列号	固件版本	操作
↓ 6.00 MbPS	0000 1234 2345 3456	0.01.0099	
↓ 276.85 KbPS	0000 1234 2345 3456	0.00.0038	

方法二、设备正常启动开机后，浏览器地址栏输入 **https://FN-50 或 FN-60 的 IP 地址 /**，在登录界面输入账号密码可独立登录对应卡板的设备管理后台。



用户名/用户ID

密码

登录

注意

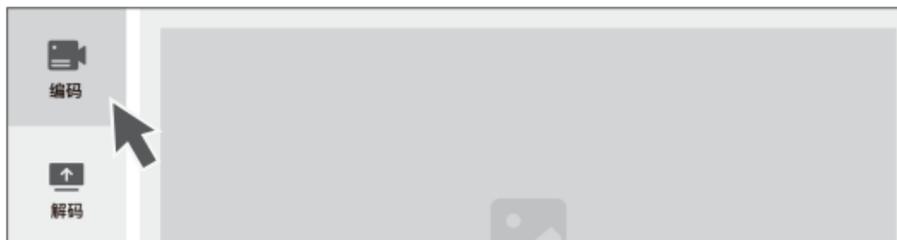
- 默认登录用户名是 **admin**，默认密码是 **admin**。
 - 为保证信息安全，初次登录须立即修改密码！
-

6 使用设备进行工作

FN-50/FN-60支持编码和解码两种模式。在编码模式下，FN-50/FN-60作为一款流媒体编码设备，可将SDI/HDMI信号编码为流媒体格式；而在解码模式下，FN-50/FN-60则作为解码设备，将流媒体协议解码并转换为HDMI/SDI输出。

6.1 编码模式

FN-50/FN-60 默认工作在“**编码模式**”。在 RF02 的 Web 管理界面设备管理界面的编码栏目可以查看设备编码信息，并且在 RF02 的 Web 管理界面中，FN-50/FN-60 可通过浏览器实时预览视频。



6.2 解码模式

如需使用设备的解码功能，只需在WEB管理界面将编码模式切换为解码模式即可。

注意

● FN-50/FN-60 的编码模式与解码模式无法同时处于工作状态，且切换编解码模式时间较长（10 秒钟以上）请耐心等待，如果超过 30 秒 WEB 界面仍无反应，请尝试刷新页面。

7 固件升级

7.1 下载升级固件

当 FN-50/FN-60 有新的功能改进、性能优化以及问题修复时，会发布新的固件以提供更新；升级前请登录公司官网资料下载页面获取升级包。



Kiloview 将持续为 FN-50/FN-60 设备提供修复 Bug 以及更新功能的固件。访问：

<https://www.kiloview.com/cn/support/download/> 在筛选列表中，在筛选列表中，选择“机架式编解码器”>“FN-50/FN-60”，并在“程序”标签中找到最新的固件下载。

7.2 升级设备固件

进入 FN-50/FN-60 设备管理后台，点击‘设置’>‘系统设置’>‘固件升级’，进入固件升级页面，然后点击“固件升级”。

上传固件成功后，系统将提示重启，重启过程请耐心等待；设备重启后，升级成功。

固件升级

当前固件版本： 1.01.0016
当前软件版本： 1.80.2045
请注意：固件成功上传后，系统会自动重启完成升级！

只能上传bin文件

如需要批量升级，可通过 RF02 管理后台的升级功能批量升级。详细说明请参考 RF02 快速入门 / 用户手册。

8 恢复出厂设置

在 FN-50/FN-60 设备详情页的“设置”>“系统设置”>“恢复出厂设置”点击“恢复出厂”按键并确认，设备会重置恢复初始状态设置。

9 其他

如设备长期不使用，为延长设备使用寿命，请将设备断电后从 RF02 机框中取出，并妥善保管设备。

Quick Start Guide

FN-50/FN-60 Video Codec Cards

12G-SDI | 4K HDMI Video Codec Cards

(V1.0)



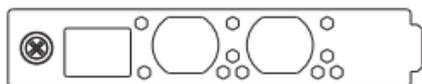
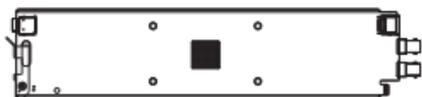
With this manual, you will learn about:

- Packing list
- Device interfaces and functions
- Device connection, login and basic applications
- Device upgrades, and restoring factory setting

Before using this product, please read this manual carefully. To ensure your safety and avoid physical or electrical damage to the device, please strictly follow the instructions of this manual to install and use it under the guidance of professionals. Incorrect electrical connections or improper installation may cause permanent damage to the device and even threaten personal safety.

Due to continuous upgrades and updates, there may be differences between the purchased product and this manual. Please refer to the actual product in the packaging box. When using for the first time, be sure to carefully review the license agreement.

1 Packing List



(1) FN-50/FN-60 Card×1

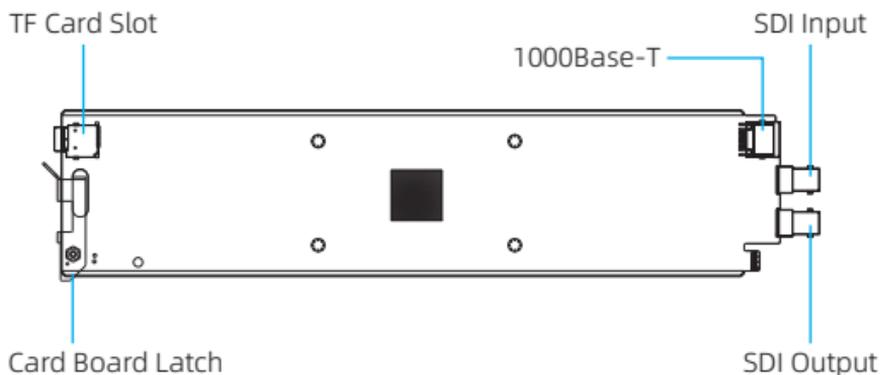
(2) bracket×1



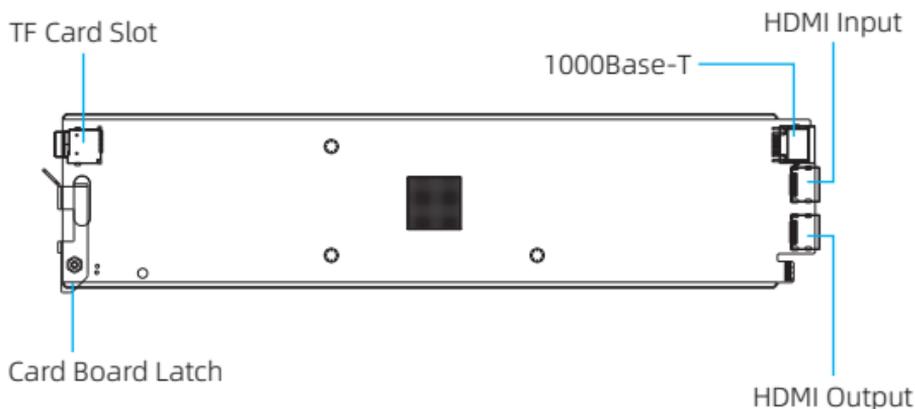
(3) Quality Certificate / Warranty Card ×1

(4) Quick Start Manual x1

2 Device Interfaces



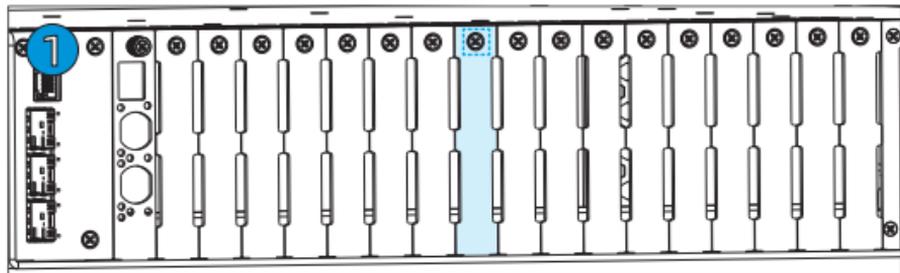
FN-50 Card Interface Diagram



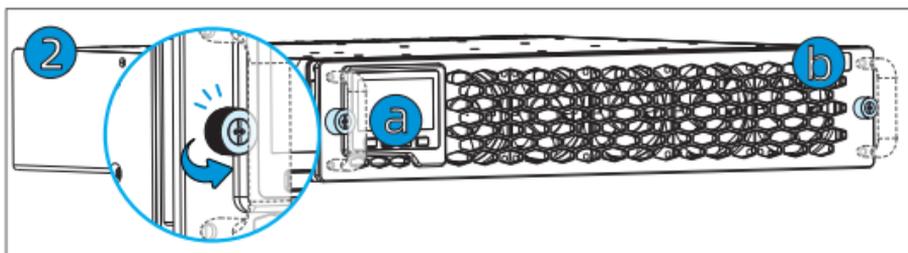
FN60 Card Interface Diagram

3 Card Installation

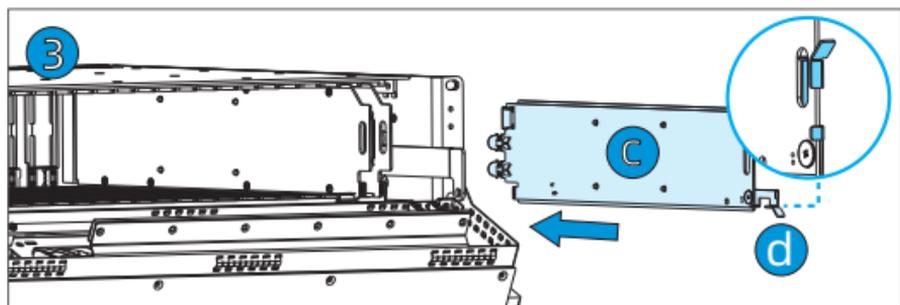
Step 1: Remove the rear panel at the corresponding installation position of RF02, and install the bracket corresponding to FN - 50/FN - 60.



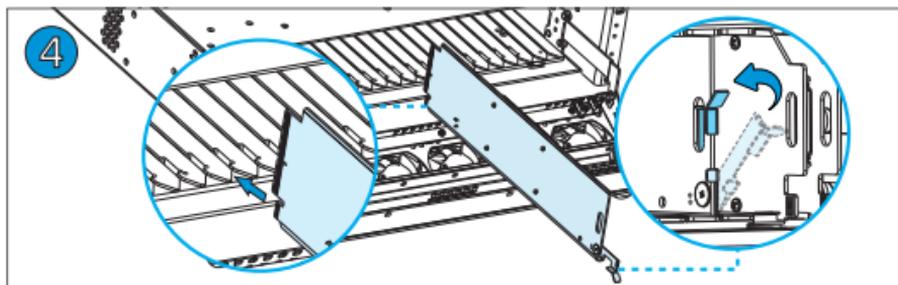
Step 2: Unscrew the two hand-tightening screws (a & b) on the front panel of RF02, and open the frame.



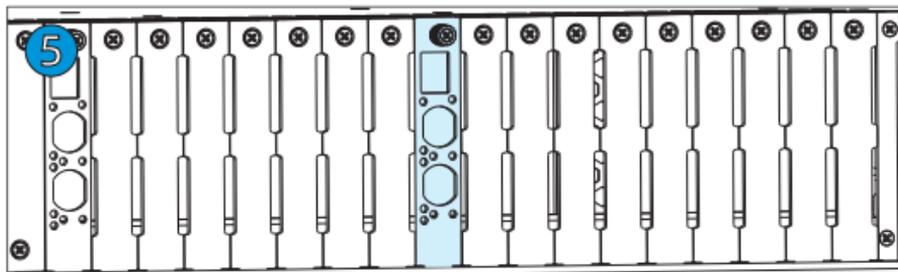
Step 3: Slide the metal latch (d) of the FN - 50/FN - 60 card board (c) to the right, then slide it downward to release.



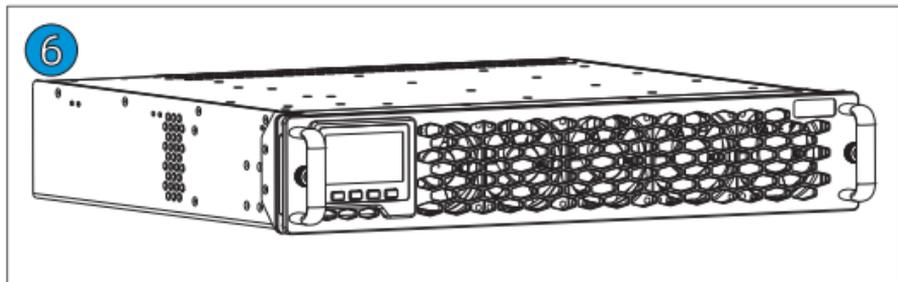
Step 4: Align the card (c) component with the card slot (with the short-pin gold fingers facing down), slide it in horizontally to the end. Then, flick the metal card latch upward, and move it leftward to complete the locking. Close the front panel.



Step 5: Install the matching FN-50/FN-60 baffle on the rear cover of RF02 and tighten the screws.



Step 6: Tighten the two hand-tightened screws a and b to complete the assembly installation.



When dismantling, loosen the two hand-tightened screws on the front panel of RF02, loosen the metal latch (d), and pull out the card component (c) in parallel.



For more help on installing and using the FN50/60 card, please visit the Kiloview official website:

<https://www.kiloview.com/en/fn50-fn60-cards/>

4 Device Discovery

The RF02 chassis comes with a device discovery function; after the device is inserted into the RF02 chassis, it will automatically obtain an IP address through DHCP. You can use the RF02 front panel's "◀", "▶" keys to switch to the device list information interface, and view the IP addresses and other information of all the board devices connected to RF02.

Kiloview® RF02		● ○ ○		2024-09-04 10:44:00		
#01	✓ FMG-400	192.168.35.1	8.2 ↑ Mbps	6.6 ↓ Mbps	31.°C 88°F	
#02	⚠ FMG-400	192.168.35.143	6.2 ↑ Mbps	4.2 ↓ Mbps	33°C 91°F	
#03	✓ FN-50	192.168.35.189	4.2 ↑ Mbps	2.8 ↓ Mbps	36°C 91°F	
#04	✓ FN-60	192.168.35.201	9.0 ↑ Mbps	3.6 ↓ Mbps	31.°C 88°F	
#05	No card					
#06	✓ FN-60	192.168.35.202	7.8 ↑ Mbps	1.2 ↓ Mbps	31.°C 88°F	

5 Device Management

After RF02 starts up normally, it supports separate operation and management of the board card through the WEB management system.

Method 1: After normal startup, enter `https:// RF02 IP address /` in the WEB browser address bar; and log in to the RF02 device management platform, in the RF02 device management column, you can directly click the FN-50/FN-60 service card board to be managed.

	Serial Number	Firmware Version	Operation
6.00 MbPS	0000 1234 2345 3456	0.01.0099	 
276.85 KbPS	0000 1234 2345 3456	0.00.0038	

Method 2: After the device starts up normally, enter `https://FN-50 or FN-60 IP address /` in the browser address bar, and enter the account and password in the login interface to log in independently to the device management backend of the corresponding card.

 Username
 password 
Login 



Note

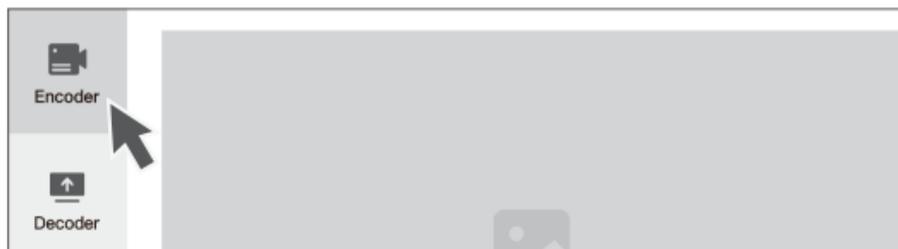
- The default login username is admin, and the default password is admin.
 - To ensure information security, you must change your password immediately after your first login!
-

6 Using the Device

FN-50/FN-60 supports two modes: encoding and decoding. In encoding mode, FN-50/FN-60 acts as a streaming media encoding device, which can encode SDI/HDMI signals into streaming media format; while in decoding mode, FN-50/FN-60 acts as a decoding device, decoding streaming media protocols and converting them to HDMI/SDI output.

6.1 Encoding Mode

FN-50/FN-60 works in "**encoding mode**" by default. You can view the device encoding information in the encoding column of the device management interface in the RF02 Web management interface. And in the RF02 Web management interface, FN-50/FN-60 can preview video in real time through the browser.



6.2 Decoding Mode

If you need to use the decoding function of the device, simply switch the encoding mode to decoding mode in the WEB management interface.



Note

● The encoding mode and decoding mode of FN-50/FN-60 cannot be in working state at the same time, and switching mode requires 10+ seconds to complete. Please wait patiently. If the WEB interface does not respond after 30 seconds, please try refreshing the page.

7 Firmware Upgrade

7.1 Downloading Firmware Upgrades

When FN-50/FN-60 has new function improvements, performance optimizations, and bug fixes, new firmware will be released to provide updates; please log in to the company's official website material download page to obtain the upgrade package before upgrading.



Kiloview will continue to provide FN-50/FN-60 devices with firmware that fixes bugs and updates features. Visit: <https://www.kiloview.com/en/support/download/> In the filter list, select "Rackmount Codec " > "FN-50/FN-60", and find the latest firmware download in the firmware tab.

7.2 Upgrading Device Firmware

Enter the FN-50/FN-60 device management background, click 'Settings' > 'System Settings' > 'Firmware Update', enter the firmware upgrade page, then click "Firmware Update".

After the firmware is uploaded successfully, the system will prompt you to restart. Please wait patiently during the restart process; after the device restarts, the upgrade is successful.

Firmware update

Current firmware version: 1.01.0016
Current software version: 1.80.r4c7c2e5
Note: After a firmware update, the system will automatically restart to complete the update process!

You can only upload bin files

If you need to upgrade in batches, you can upgrade in batches through the upgrade function of the RF02 management background. For detailed instructions, please refer to the RF02 Quick Start Manual / User Manual.

8 Factory Reset

On the "Settings" > "System Settings" > "Restore" page of the FN-50/FN-60 device details, click the "Restore" button and confirm, the device will be reset to its initial state settings.

9 Others

If the device is not used for a long time, to extend the service life of the device, please unplug the device from the RF02 chassis and store the device properly.