AV over IP筑路人

快速入门手册

FN-7/FN-8 全能编解码板卡

高清SDI/高清HDMI IP全能编解码板卡

（2026-06版）

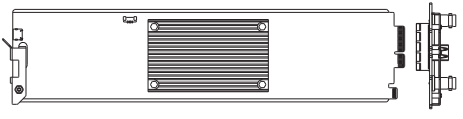


本手册将帮助您快速了解以下内容

- 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， 建议您仔细阅读本手册。 为确保您的人身安全及避免设备受到物理或电气损伤， 请严格遵照本手册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可能导致设备的永久损伤， 严重时甚至可能危及人身安全。

1 装箱清单



(1) 板卡 ×1



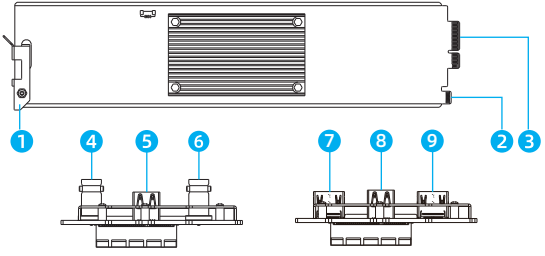
(2) 合格证/保修卡 ×1



(3)《快速入门手册》×1

2 设备接口

本板卡采用两段式结构，由核心板（前插卡）与尾板（后置模块）组成。出厂时已完成装配，用户收到设备后，请按照本手册“板卡安装”章节完成安装与使用。



FN-7设备接口图　　FN-8设备接口图

（1）核心板卡扣

（2）连接尾板接口（64-pin金手指）

（3） RF02接口（10-pin金手指，用于供电及网络通信）

（4）3G-SDI 输入

（5）USB Type-A 扩展接口

（6）3G-SDI 输出

（7）HDMI 输入

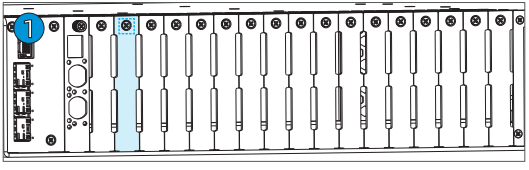
（8）USB Type-A 扩展接口

（9）HDMI 输出

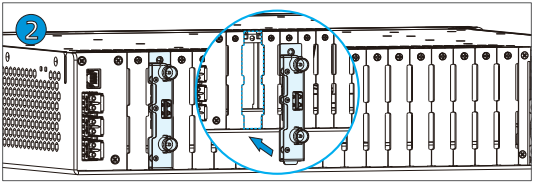
3 板卡安装

说明：以下图示以 FN-7 为例，FN-8 的安装方法相同。

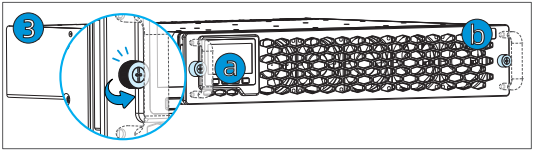
步骤1：在RF02后部选择目标板卡槽位，并记录槽位编号(1-18)，逆时针拧松对应位置的固定螺丝，拆下该槽位的后挡板。



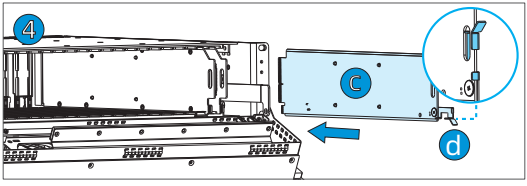
步骤2：插入FN-7/FN-8尾板并拧紧配套的螺丝，完成尾板安装。



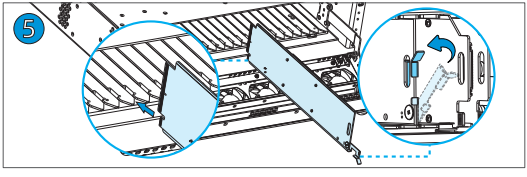
步骤3：将RF02前面板上的两个手拧螺丝（a、b）逆时针拧松，然后双手握住机框左右把手，向外拉出前面板，完全拉出后轻轻下放，使前面板自然垂落。



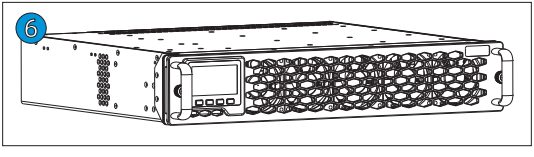
步骤4：将FN-7/FN-8核心卡板(c)的金属卡扣(d)先向右拨动，再往下拨动，以解除锁定。



步骤5：将FN-7/FN-8的核心卡板(c)对准卡槽（10-pin金手指朝下），平行推入到底，直至感受到明显阻尼，即完成核心卡板与尾板的对接。随后将金属卡扣向上扶起，轻拨至锁定位置并复位，完成卡板锁紧。



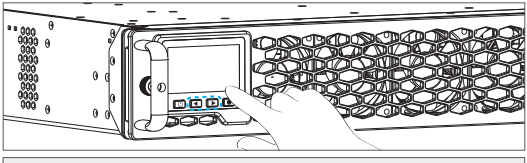
步骤6：将RF02前面板抬起并推回机框内，按住前面板的同时顺时针拧紧两个手拧螺丝（a和b），完成安装。

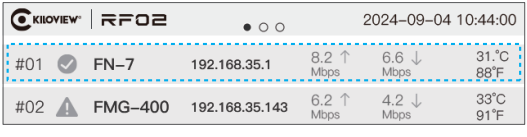


拆卸时，请先松开RF02前面板上的两颗手拧螺丝，打开前面板；再松开金属卡扣(d)，平行抽出核心板卡组件(c)；最后拧开尾板固定螺丝并抽出尾板。

4 发现设备

首次使用 FN-7/FN-8 时，将卡板插入 RF02 机框并完成启动后，FN-7/FN-8 会通过 DHCP 自动获取 IP 地址。 IP 地址可在 RF02 前面板的液晶屏上查看。通过 RF02 的前面板液晶屏下面的 “ ◀ ” “ ▶ ” 按键切换到设备列表界面，可查看 RF02 中接入的所有卡板信息。

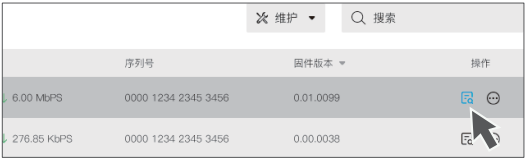




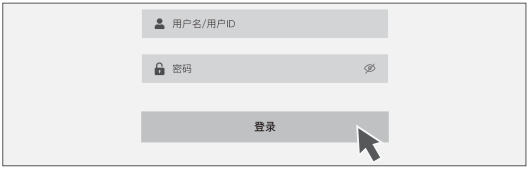
5 设备管理

FN-7/FN-8 支持两种设备管理方式： 一是通过 RF02 进行集中管理； 二是通过 FN-7 /FN-8 Web 管理界面对单块板卡进行独立管理。

方法 1、FN-7/FN-8 正常开机后，在浏览器地址栏输入 RF02 机框管理 IP 地址，登录 RF02 管理平台。在首页 “管理” 页面，可免密进入目标卡板的管理页面。



方法 2、待设备正常启动后，将电脑 IP 设置为与 FN-7/FN-8 处于同一网段；在浏览器中输入 FN-7/FN-8 的 IP 地址，进入 Web 管理登录界面； 输入默认用户名 admin 和默认密码 admin，即可登录后台。



登录提示

- 设备默认登录用户名为 admin， 默认密码为 admin。
- 为保障信息安全， 首次登录后请立即修改默认密码。

6 工作模式说明

FN-7/FN-8支持编码模式和解码模式。 在编码模式下，FN-7/FN-8作为一款流媒体编码设备，可将SDI信号/HDMI信号编码为IP流；而在解码模式下，FN-7/FN-8则作为解码设备，将IP流解码并输出为SDI信号/HDMI信号。

6.1 编码模式

FN-7/FN-8 默认工作在编码模式。在 RF02 的 Web 管理界面中，可在“编码”页面查看设备编码状态，并支持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，可在Web管理界面中将设备工作模式切换为解码模式。

7 固件升级

7.1 下载升级固件

我司官网会定期发布最新固件，用户可根据需要下载并进行升级，也可以联系技术支持团队来获取最新版本。

注意

●FN-7/FN-8 的编码模式与解码模式不能同时工作。 模式切换通常需要 10 秒以上，请耐心等待； 若超过 30 秒 Web 界面仍无响应，请尝试刷新页面。

7.2 升级设备固件

方法 1：

- 进入 RF02 管理后台，点击【固件】→ 选择左侧菜单栏的型号【FN7_FN8】→ 【设备固件上传】进行上传固件；
- 进入【管理】-【设备】页面→ 勾选需要升级的 FN-7/FN-8 卡板；
- 点击【固件升级】→ 选择需要升级的固件版本→ 点击【开始派发】；
- 派发成功后，点击【维护】→ 【重启】即可完成升级操作。





方法 2：

• 进入 FN-7/FN-8 设备管理后台，依次点击**【设置】**→**【系统设置】**→**【固件升级】**进入固件升级页面；

• 在固件升级页面，点击**【选择文件】**上传从官网下载的固件文件，然后点击**【固件升级】**；

• 上传固件成功后，系统将提示重启，点击确认后设备将重新启动，请耐心等待；

• 设备重启后，刷新 Web 管理界面，可重新进入后台。



注意

● 升级过程注意事项： 升级期间严禁断开设备电源，否则可能导致设备无法正常启动。

● 升级时长与异常处理： 升级过程约需 3–5 分钟。若超时未完成，请尝试刷新页面； 若仍无法访问，请联系技术支持。

8 恢复出厂设置

当设备因参数配置不当而无法正常工作时，或者忘记网络 IP 且无法搜索到设备时，可执行恢复出厂设置。

若设备仍可正常登录 Web 管理界面，可按以下路径恢复出厂设置： Web 管理界面 → 设置 → 系统设置→ 恢复出厂设置。

注意：恢复出厂设置后，以下参数将恢复为默认值

- 登录用户 admin 的密码将恢复为 admin。
- 所有编码配置、解码配置及其他系统参数将恢复为出厂默认值。

9 其他

若 FN-7/FN-8 卡板长期不使用，建议在断电并确认安全后，将卡板从 RF02 机框中拆卸下来，妥善保管，以延长设备使用寿命。

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KILOVIEW®

AV over IP Trailblazer

Quick Start Guide

FN-7/FN-8 Universal Encoder/Decoder Card

HD SDI Universal IP Encoder/Decoder Card

(June 2026 Edition)

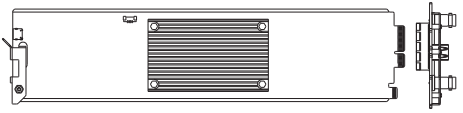


This manual will help you quickly learn the following:

- Packing list
- Device interfaces and functions
- Device Installation, Login, and Basic Operation
- Firmware Upgrade and Factory Reset

Before using this product, it is recommended that you read this manual carefully. To ensure your personal safety and prevent physical or electrical damage to the device, please strictly follow the instructions in this manual or install and use this product under the guidance of qualified personnel. Incorrect electrical connections or improper physical installation may cause permanent damage to the device, and in serious cases may even endanger personal safety.

1 Packing List



(1) Card × 1



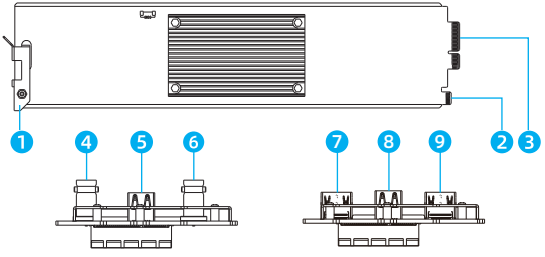
(2) Certificate / Warranty Card × 1



(3) Quick Start Guide × 1

2 Device Interfaces

This card adopts a two-part structure, consisting of a core board (front card) and a rear module (rear board). It is fully assembled before shipment. After receiving the device, please complete installation and use according to the Card Installation section of this manual.



FN-7 Device Interfaces

FN-8 Device Interfaces

（1）Core Board Latch

（2）Rear Module Connector (64-pin edge connector)

（3）RF02 Connector (10-pin edge connector, used for power supply and network communication)

（4）3G-SDI Input

（5）USB Type-A Expansion Port

（6）3G-SDI Output

（7）HDMI Input

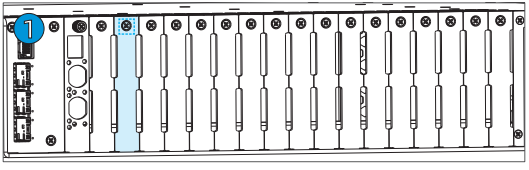
（8）USB Type-A Expansion Port

（9）HDMI Output

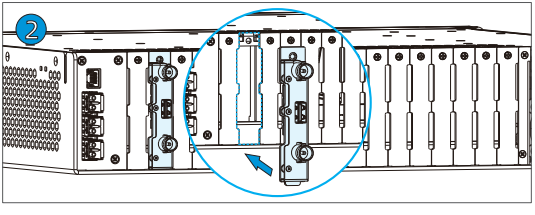
3 Card Installation

Note: The illustrations below use FN-7 as an example. The FN-8 is installed in the same way.

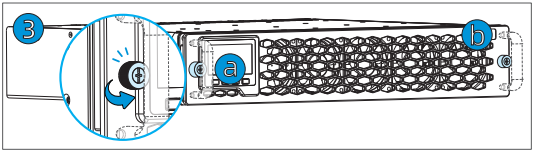
Step 1: Select the target card slot on the rear side of the RF02 chassis, record the slot number (1-18), loosen the fixing screw for that slot counterclockwise, and remove the rear blank panel of the slot.



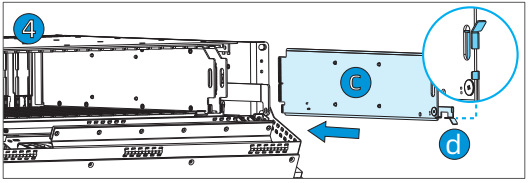
Step 2: Insert the FN-7/FN-8 rear module and tighten the matching screws to complete the rear module installation.



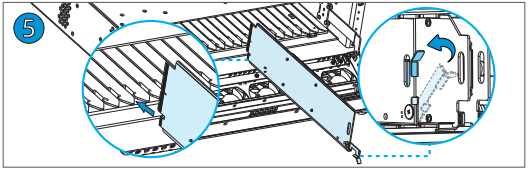
Step 3: Loosen the two thumbscrews (a, b) on the RF02 front panel counterclockwise. Then hold the left and right handles of the chassis with both hands, pull the front panel outward, and after it is fully pulled out, gently lower it so that the front panel hangs naturally.



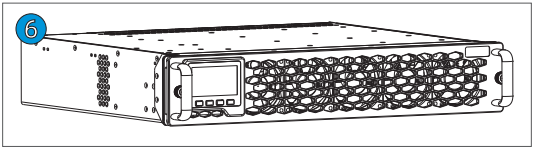
Step 4: Move the metal latch (d) of the FN-7/FN-8 core card (c) to the right first, then downward to release the lock.



Step 5: Align the FN-7/FN-8 core card (c) with the slot (with the 10-pin gold finger facing downward), and push it in horizontally until it reaches the end and a clear resistance is felt, completing the connection between the core card and the rear module. Then lift the metal latch upward, move it gently into the locked position, and reset it to secure the card.



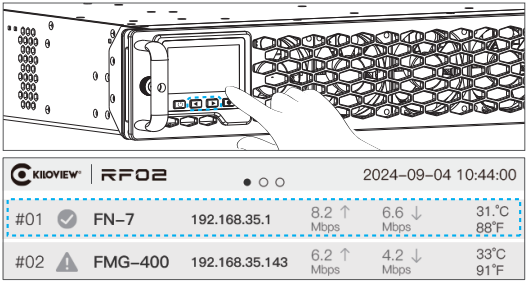
Step 6: Lift the RF02 front panel and push it back into the chassis. While holding the front panel, tighten the two thumbscrews (a and b) clockwise to complete the installation.



To remove the card: First loosen the two thumbscrews on the RF02 front panel and open the front panel. Then release the metal latch (d) and pull out the core card assembly (c) horizontally. Finally, loosen the rear module fixing screws and remove the rear module.

4 Discovering the Device

When using the FN-7/FN-8 for the first time, after inserting the card into the RF02 chassis and completing startup, the FN-7/FN-8 will automatically obtain an IP address through DHCP. The IP address can be viewed on the LCD screen of the RF02 front panel. Use the buttons below the LCD screen on the RF02 front panel to switch to the device list screen, where you can view information on all cards installed in the RF02.



5 Device Management

The FN-7/FN-8 supports two device management methods:

1.Centralized management through the RF02

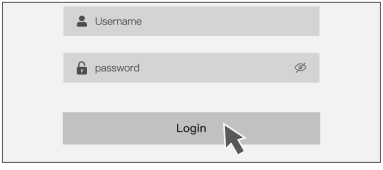
2.Independent management of a single card through the FN-7/FN-8 Web management interface

Method 1: After the FN-7/FN-8 powers on normally, enter the RF02 chassis management IP address in the browser address bar to log in to the RF02 management platform. On the "Management" page of the homepage, you can access the management page of the target card without re-entering login credentials.



Method 2: After the device starts normally, set your computer to the same subnet as the device.

Enter the FN-7/FN-8 IP address in the browser to access the Web login page. Enter the default username admin and default password admin to log in to the management backend.



Login Reminder

- The default login username is admin, and the default password is admin.
- For security reasons, please change the default password immediately after the first login.

6 Working Mode Description

The FN-7/FN-8 supports both encoding mode and decoding mode. In encoding mode, the FN-7/FN-8 works as a streaming encoder and can encode SDI signals into IP streams. In decoding mode, the FN-7/FN-8 works as a decoder and decodes IP streams into SDI output.

6.1 Encoding Mode

The FN-7/FN-8 works in encoding mode by default. In the RF02 Web management interface, you can view the encoding status of the device on the Encoding page, and it also supports real-time video preview through a browser.



6.2 Decoding Mode

If you need to use the decoding function of the device, you can switch the device working mode to decoding mode in the Web management interface.

7 Firmware Upgrade

7.1 Downloading Firmware

Note

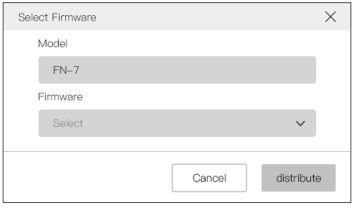
The FN-7/FN-8 cannot operate in encoding mode and decoding mode at the same time. Mode switching usually takes more than 10 seconds. Please wait patiently. If the Web page still does not respond after 30 seconds, please try refreshing the page.

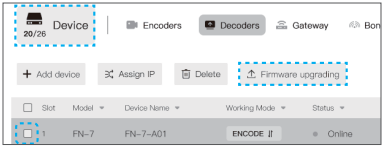
The latest firmware is periodically released on our official website. Users may download it as needed for upgrade, or contact the technical support team to obtain the latest version.

7.2 Upgrading Device Firmware

Method 1:

- Enter the RF02 management backend, click **[Firmware]** → select **[FN7_FN8]** from the model list in the left menu → upload the firmware through **[Upload Device Firmware]**.
- Enter **[Manage]** - **[Device]** and select the FN-7/FN-8 card(s) to be upgraded.
- Click **[Firmware upgrading]** → select the firmware version to be upgraded → click **[Distribute]**.
- After the distribution is successful, click **[Maintain]** → **[Restart]** to complete the upgrade.





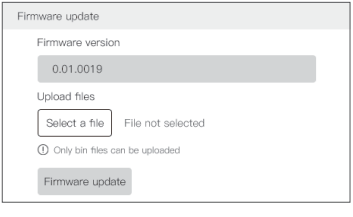
Method 2:

• Enter the FN-7/FN-8 device management backend, then click **[Settings]** → **[System Settings]** → **[Firmware update]** to enter the firmware upgrade page.

• On the firmware upgrade page, click **[Select a file]** to upload the firmware file downloaded from the official website, then click **[Firmware update]**.

• After the firmware is uploaded successfully, the system will prompt for a reboot. Click confirm, and the device will restart. Please wait patiently.

• After the device restarts, refresh the Web management interface to re-enter the backend.



Note

● **Upgrade precautions:** Do not disconnect the device power during the upgrade process; otherwise, the device may fail to start properly.

● **Upgrade duration and exception handling:** The upgrade process usually takes about 3–5 minutes. If it is not completed after a timeout, try refreshing the page. If the device is still inaccessible, please contact technical support.

8 Restore Factory Settings

If the device cannot work properly due to incorrect parameter configuration, or if the network IP has been forgotten and the device cannot be found, you can perform a factory reset.

If the device can still log in to the Web management interface normally, you can restore factory settings through the following path:

Web Management Interface → Settings → System Settings → Restore

Note: After restoring factory settings, the following parameters will return to their default values:

● The password for the **admin** user will be reset to **admin**.

● All encoding settings, decoding settings, and other system parameters will be restored to factory defaults.

9 Others

If the FN-7/FN-8 card will not be used for an extended period, power off the device first. After ensuring it is safe to handle, remove the card from the RF02 chassis and store it properly to help extend its service life.

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