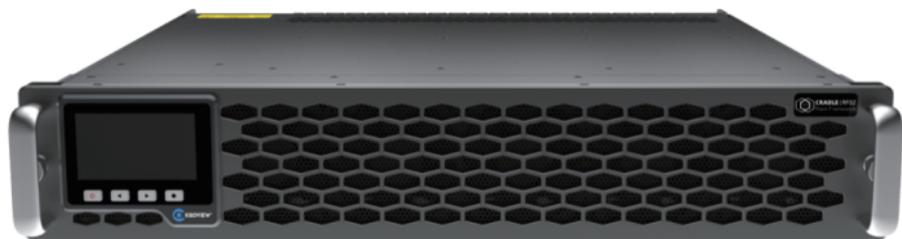


# RF02机架式媒体平台

极致媒体业务 workflow，丰富多样业务组合

(V1.0)



通过本手册，您可以了解到

- 设备清单
- 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。

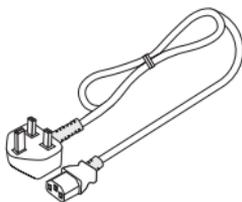
## 1 设备清单



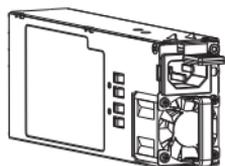
(1) 主机箱 × 1



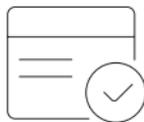
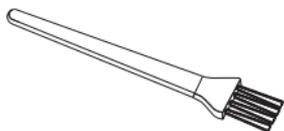
(2) 主控板&交换板 × 1



(3) 电源线 × 2



(4) 可热插拔电源 × 2



(5) 除尘刷 × 1

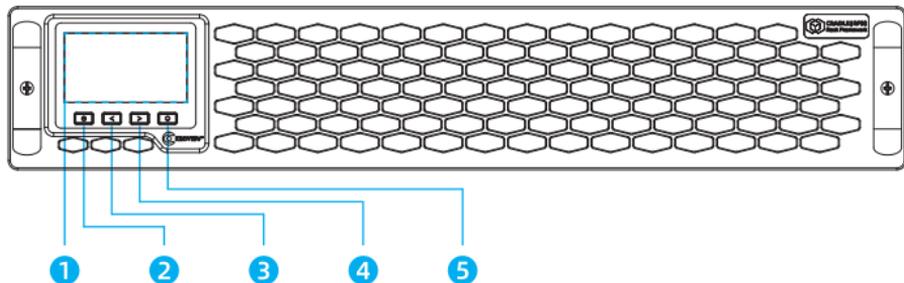
(6) 合格证/保修卡 × 1



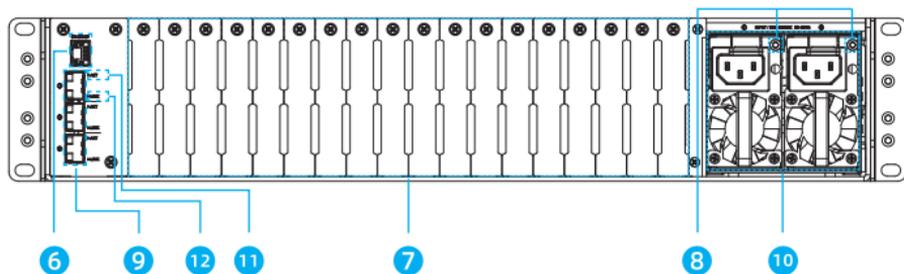
(7) 《快速入门》手册 × 1

## 2 设备接口

前面板



## 后面板



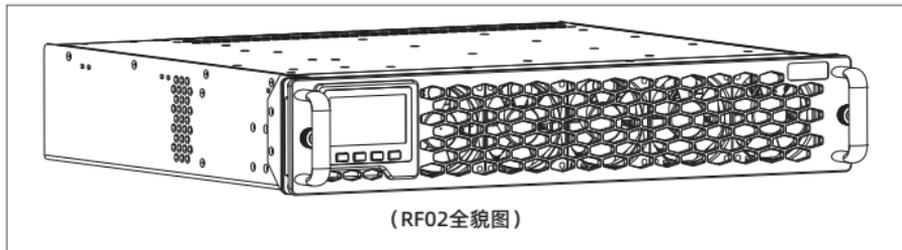
- (1) LCD屏
- (2) 开机/关机按键
- (3) 上一步按键
- (4) 下一步按键
- (5) 确认按键
- (6) RJ45以太网接口
- (7) 插槽位
- (8) 电源指示灯
- (9) 10Gbps SFP+ 光纤以太网接口
- (10) 电源
- (11) ACT指示灯
- (12) LINK指示灯

## 3 按键说明

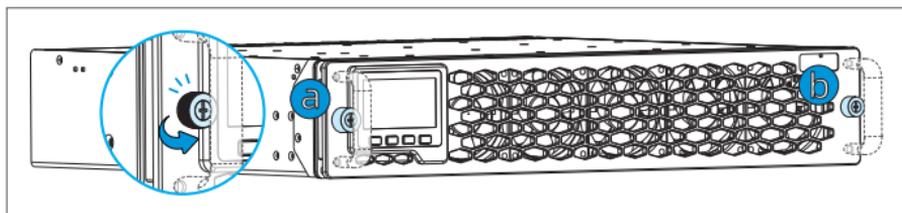
按键	按键功能
开关机	设备开机启动以及设备关闭
上一步	设备页面以及设备功能设置切换向上切换
下一步	设备页面以及设备功能设置切换向下切换
确认	设备功能设置确认

## 4 设备安装

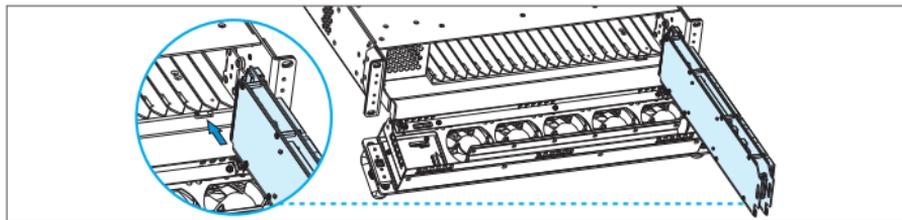
### 4.1 安装主控板卡



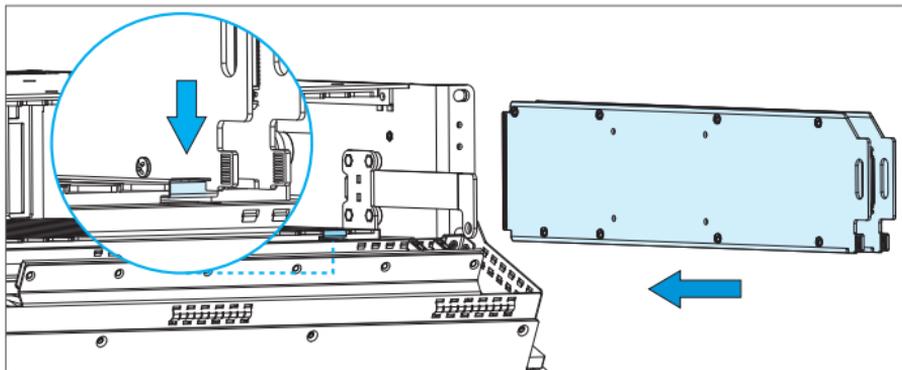
首先需要拧开两个松不脱螺丝，将设备放于一个桌面的边缘处，方便抽出前盖板。



将机箱前面板抽出放下，插入主控板卡。



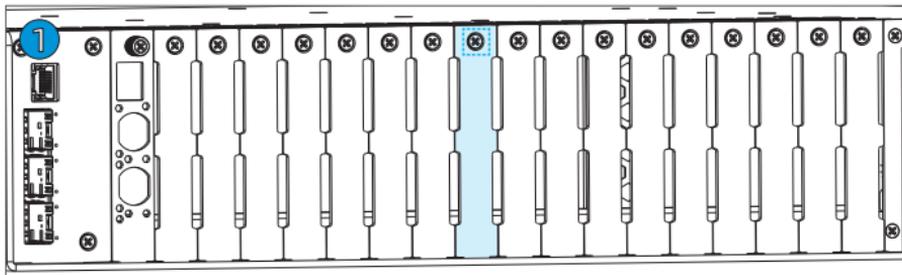
主控板需要注意从机箱**最右侧**插入，不要插入到带有编号的业务板卡卡槽上，将主控板卡插入后主控锁止弹片，会卡住主控板，表示此时主控板卡已经成功固定住，若需要拆卸主控板卡，则往下按住锁止弹片，将主控板卡向外拔出即可取出。



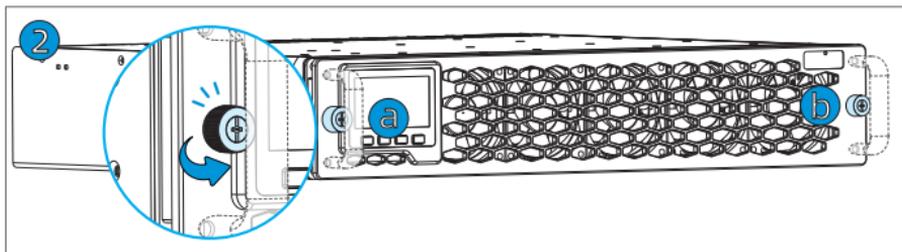
## 4.2 安装业务板卡

### 4.2.1 FN50/60安装流程

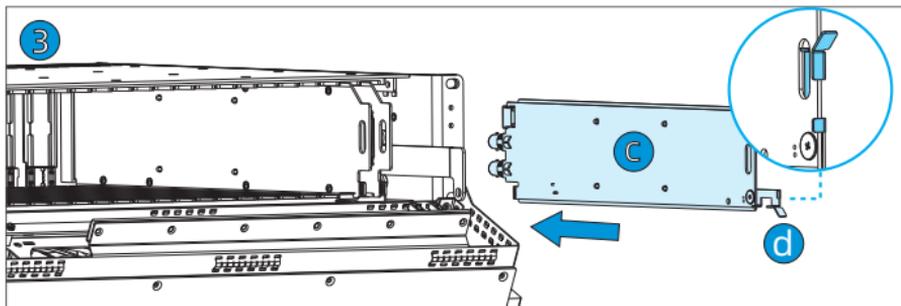
步骤1：拆除RF02上对应安装位置的后挡板。并安装与FN-50/FN-60对应的挡板。（此处以FN50/60板卡安装作为示例）



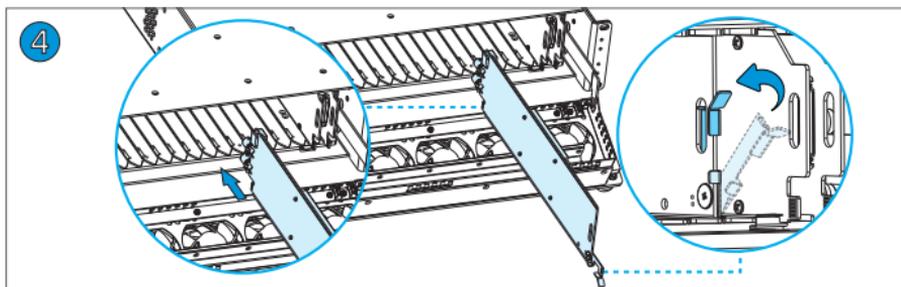
步骤2：将RF02前面板两个手拧螺丝（a和b）拧开，打开机框。



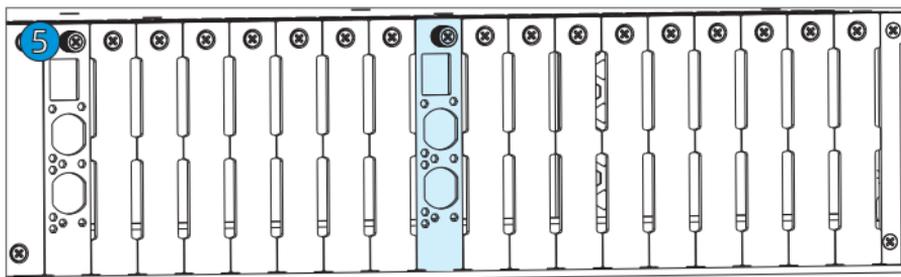
步骤3: 将FN-50/FN-60卡板(c)金属卡扣(d)向右拨动, 再往下拨动即可松开。



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。

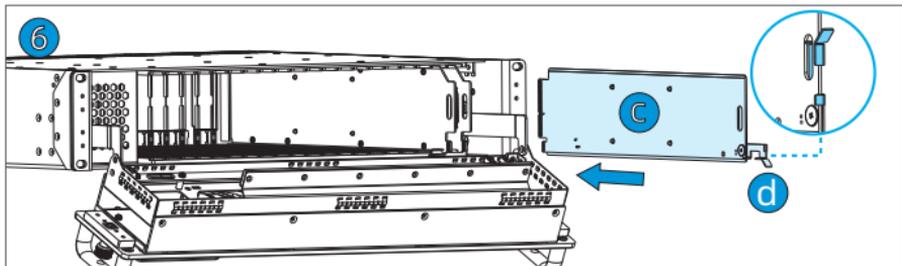


步骤5: 在RF02后盖安装配套的FN-50/FN-60档板并拧紧螺丝。

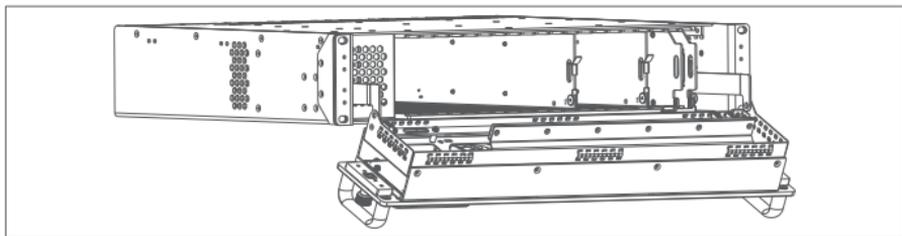
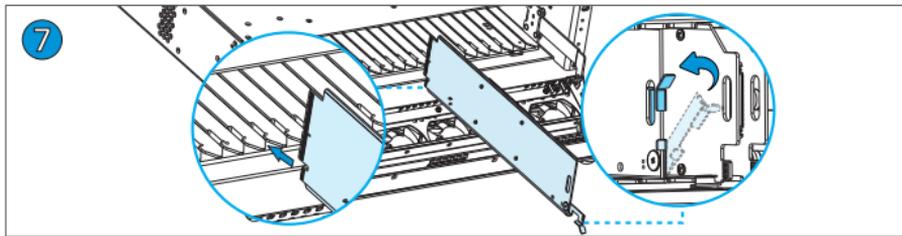


## 4.2.2 FMG400安装流程

步骤6：将FMG-400卡板(c)金属卡扣(d)向右拨动，再往下拨动即可松开。



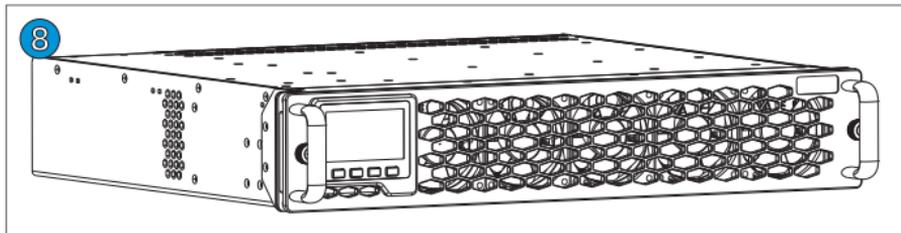
步骤7：将卡板(c)组件对齐卡槽（短pin金手指朝下），平行推入到底，金属卡扣向上拨动，再往左拨动即完成锁紧，关闭前面板。



步骤8：主控板和业务板都插入RF02机箱后，将机箱前面板重新盖上（前面板打开完成卡板安装后，请尽快盖上，并拧紧松不脱螺丝，防止异物进入机箱内）

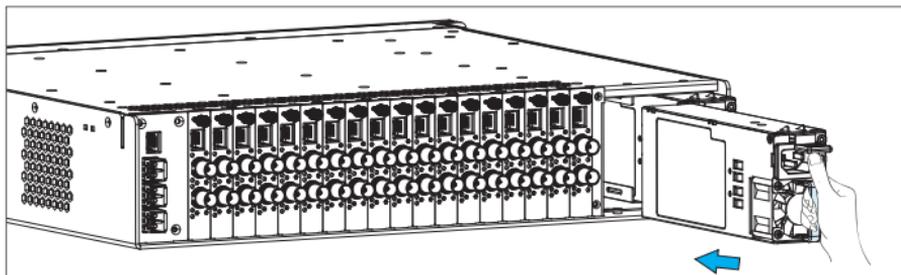
将两个松不脱螺丝拧紧，完成安装流程。

（RF02支持多种功能卡扩展，不同板卡的安装方式有略微差别，具体操作请以每张功能卡的《快速入门》指南为准）



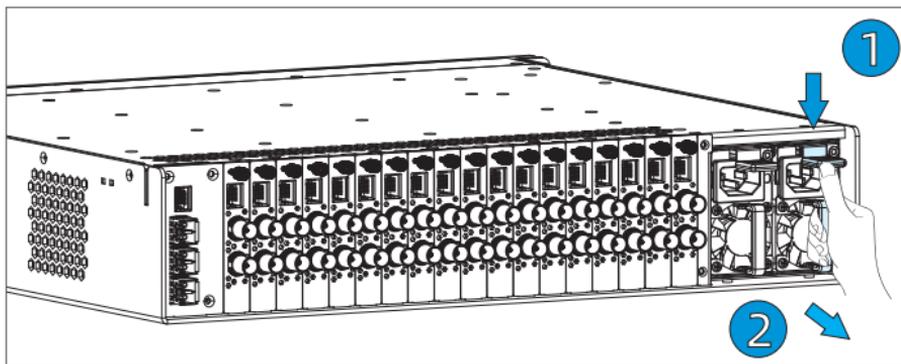
### 4.3 电源安装

将电源从设备机箱后盖插入，听到咔嚓一声响后，表示电源已经插入安装成功，插入电源线通电即可，RF02搭载双冗余热插拔500W电源供应，支持热插拔，建议两个电源来自不同电源供应系统。



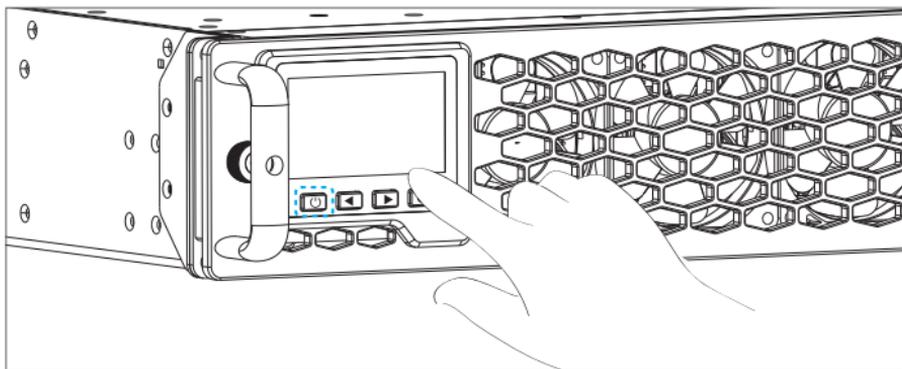
### 4.4 电源拆卸

拔出电源线，按住电源口上方卡扣，用手拉住电源风口外部的拉手，向外抽出电源。



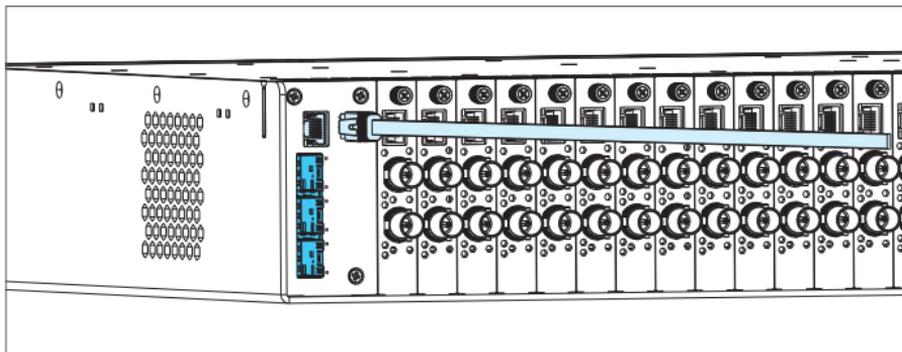
## 4.5 设备开机和关机

当 RF02 完成安装接入电源后，按住卡关机键 2 秒钟，屏幕被点亮，表示 RF02 正在启动中，等待启动完成进入主页。RF02 关机则是按住开关机键 2 秒钟，屏幕会黑屏，等待 RF02 停止工作状态，说明关机完成。



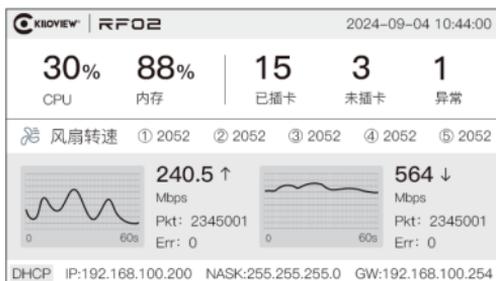
## 5 网络接入说明

RF02 配备 3 个 10Gbps SFP+ 光纤以太网接口，兼容 10G/1G 速率，配备了 1 个 10Gbps RJ45 以太网接口兼容速率 10G/5G/2.5G/1G/100M(非认证光模块可靠性无法保证，可能导致业务不稳定)。



## 6 查看设备当前状态

在机箱LCD显示屏上，可以便捷地查看设备RF02当前的状态和业务板卡的基本状态信息：



可以在设备的LCD屏幕上切换屏幕，点击切换页面查看业务卡板状态信息，卡板的默认IP地址是通过DHCP服务分配。

Card ID	Status	Model	IP Address	Speed 1	Speed 2	Temp
#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

切换到功能设置页面，可以对RF02进行重置IP、设置语言、屏幕保护时间、恢复出厂等功能操作。

Setting	Value
重置IP	192.168.1.14
语言	中文
屏幕保护	15分钟
恢复	恢复出厂设置

↶ 返回

## 7 恢复出厂设置

如因设备参数配置不当导致设备不能正常工作，或者当忘记网络IP配置并且无法搜索找到设备时，可以尝试恢复设备的出厂设置。恢复出厂设置方法：通过机箱显示屏按钮下一页切换到系统设置页面选择“恢复”>“恢复出厂设置”。



## 8 登录设备管理页面

本设备除了可以利用LCD显示屏对设备进行快捷的设置和操作外，还支持通过WEB管理系统来操作和管理设备。如需登录设备管理页面，只需打开web浏览器，在地址栏输入：<http://设备IP地址/>访问设备管理系统，打开设备的Web管理界面后，缺省登录设备的用户名是：**admin**，密码是：**admin**。成功登录RF02管理平台后，可以实时监控设备运行状态、统计设备数量和业务数据，接收并处理告警信息，**手动分配RF02和业务卡板IP地址**，进入业务板卡的功能操作界面操作，管理用户分组权限，以及进行固件升级，全面掌握平台运行情况，确保设备高效稳定运行，关于平台的具体操作详情，请查看用户操作手册。

## 9 固件升级

### 9.1 下载固件升级



Kiloview 将持续为 RF02 设备提供更新功能、修复 Bug 的固件。访问：

<https://www.kiloview.com/cn/support/download/> 在筛选列表中，选择“机架式编解码器”>“RF02”，并在“程序”标签中找到最新的固件下载。

## 9.2 升级设备固件

进入 RF02 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。检查下载的最新软件版本是否高于当前软件版本，如果版本一致或更低，则无需升级。若要升级，“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。

## 10 注意事项



### 清洁

- 鉴于风扇防尘网会堆积灰尘，建议每月用毛刷清理灰尘一次。
- 



### 机箱摆放

- 机箱的散热结构由前面板往后通风，设备安装使用中请勿遮挡通风口。
  - 不可重物积压机箱上面，以免机箱形变导致卡板插拔不顺。
- 



### Web安全

- 打开设备的 Web 管理界面后，缺省登录设备的用户名是：admin，密码是：admin。
  - 为保证信息安全，建议您初次登录后，立即修改密码。
  - 考虑浏览器的兼容性问题，建议使用 Google Chrome 或 Edge 登录。
- 



### 固件升级

- 请检查下载的最新软件版本是否高于当前版本，如果版本相同或更低，则无需升级。如需升级，请从官网下载固件文件并上传，然后点击“固件升级”即可。
  - 上传固件成功后，系统将自动重启回到主页，请耐心等待升级过程完成。
  - 升级过程中，请勿断电，否则可能导致设备无法启动。
  - 一般来说，升级的过程大约需要 3-5 分钟。如果超过 5 分钟升级仍未提示完成，请尝试刷新网页；如果仍然无法正常访问，请尝试联系技术支持。
- 



### 恢复出厂

- 登录用户 admin 的密码将恢复为 admin；
  - 所有跟管理卡设置相关的配置如：定制重启、交换机、网络设置、通用设置部分的配置参数将恢复到出厂的默认值。
-

## 屏幕保护

- 定期清洁屏幕，防止强光直射和物理损伤，以延长 LCD 屏幕寿命。
  - 避免屏幕长时间显示同一画面，以防烧屏或像素老化。
- 

## 防静电提示

- 机房铺设防静电地板或地垫，减少静电积累。
  - 保持机房湿度 40%-60% 之间，减少静电产生。
  - 运输存储时使用防静电袋或泡沫垫，避免直接触碰。
- 

## 网络

- 此版本暂不支持链路聚合。
  - 插入光纤时，请确保交换机两端使用相同类型的光口和光模块。
  - 在插入光纤时小心操作，避免划伤手指。
- 

## 注意

- 机箱前面板打开后，机箱 LCD 会黑屏，此现象为正常现象，继续进行操作即可。
  - 如设备长期不使用，为延长设备使用寿命，请拔掉电源，妥善保管设备。
- 

# 11 免责声明

本《RF02 机架式媒体平台快速入门手册》由本公司提供，适用于 RF02 机架式媒体平台的安装、操作及维护指导。用户在阅读及使用本手册前，请务必仔细阅读并充分理解以下免责条款：

## 1. 正确使用与安全责任

用户须严格按照本手册的指导进行设备的安装、操作及维护。任何因未遵循操作指南、不当使用、擅自改装、超负荷运行或未授权维修导致的设备损坏、数据丢失、人身伤害或财产损失，我方概不承担责任。

## 2. 电气与环境安全

本产品涉及电气连接与硬件操作，用户需确保操作环境符合安全规范（如通风、防尘、防潮等）。若因未遵循安全警示（如遮挡通风口、未定期清理灰尘等）导致的设备故障或安全隐患，我方不承担相关责任。

### 3. 固件与软件风险

固件升级需从官方渠道获取文件，并严格按流程操作。若因使用非官方固件、升级过程中断电或操作失误导致的系统崩溃、数据丢失等问题，用户需自行承担风险。

### 4. 知识产权保护

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### 5. 免责范围

我方对以下情况不承担任何责任：

不可抗力（如自然灾害、战争等）导致的设备损坏或数据丢失；

用户未按手册要求操作或超出产品设计范围使用；

第三方软硬件兼容性问题或网络攻击引发的故障。

### 6. 维护与技术支持

建议用户定期维护设备并联系官方技术支持解决疑难问题。若因未及时维护或使用非专业服务导致的设备问题，我方保留免责权利。

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<https://www.kiloview.com>

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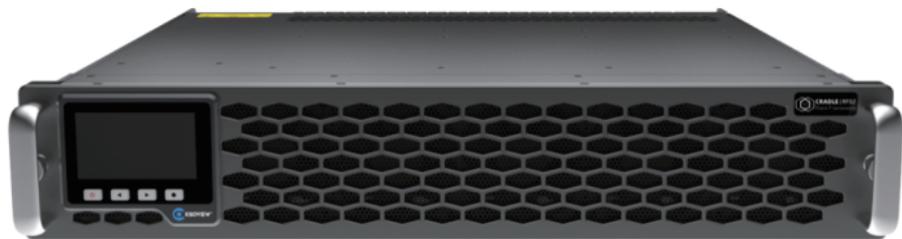
## Quick Start Guide

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# RF02 Rack-Mounted Media Platform

Ultimate Media Business Workflow, Rich and Diverse Business Combinations

(V1.0)



With this manual, you will know:

- Packing List
- Device interfaces and functions
- Device connection, login and basic applications
- Device upgrades, and restoring factory settings



Before using this product, please read this manual carefully. To ensure your safety and avoid physical or electrical damages 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 damages 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.

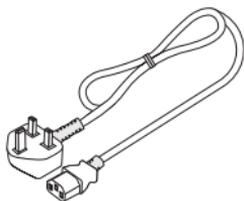
## 1 Packing List



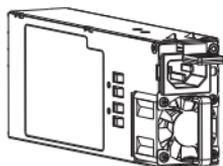
(1) Main Chassis × 1



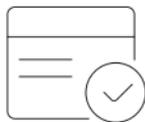
(2) Main Control Board & Switch Board×1



(3) Power Cord × 2

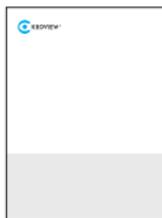


(4) Hot-Swappable Power Supply × 2



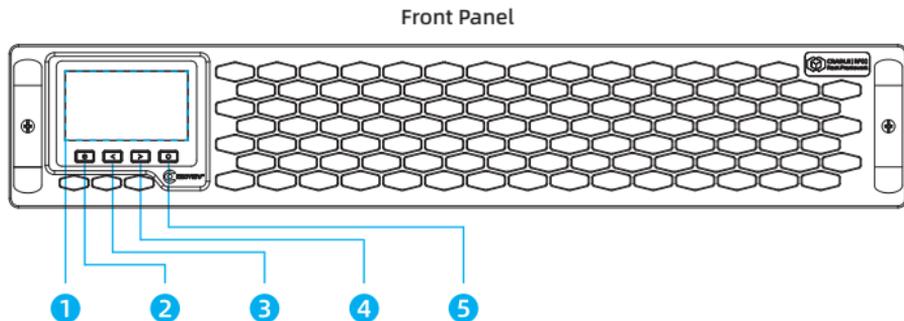
(5) Dust Brush x 1

(6) Quality Certificate / Warranty Card x 1

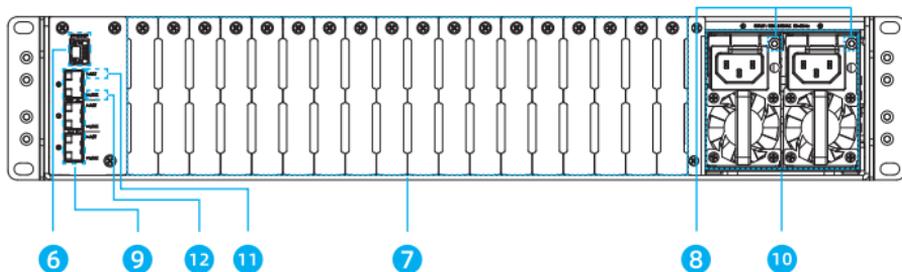


(7) Quick Start Guide x 1

## 2 Device Interfaces



## Rear Panel



(1) LCD Screen

(2) Power Switch

(3) Previous Button

(4) Next Button

(5) Confirm Button

(6) RJ45 Ethernet Interface

(7) Slot Position

(8) Power Indicator Light

(9) 10G Optical Ethernet Interface

(10) Power

(11) ACT Indicator Light

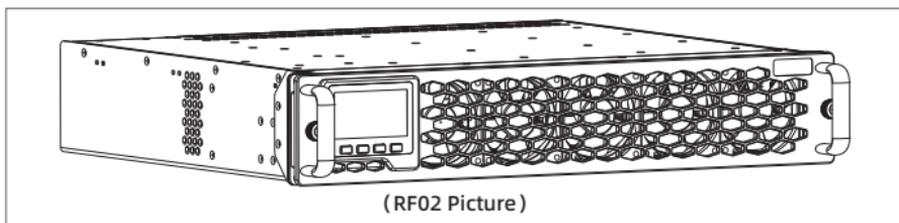
(12) LINK Indicator Light

## 3 Button Functions

Button	Function
Power	Turns the device on/off
Previous Button	Navigates upwards in device pages and settings
Next Button	Navigates downwards in device pages and settings
Confirm Button	Confirms device settings

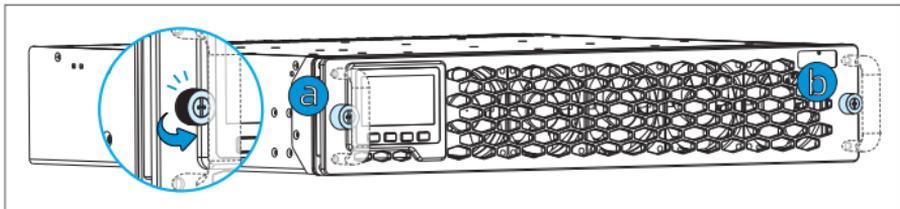
## 4 Device Installation

### 4.1 Main Control Board Installation

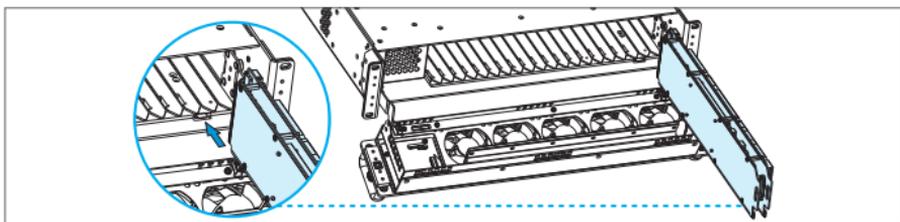


(RF02 Picture)

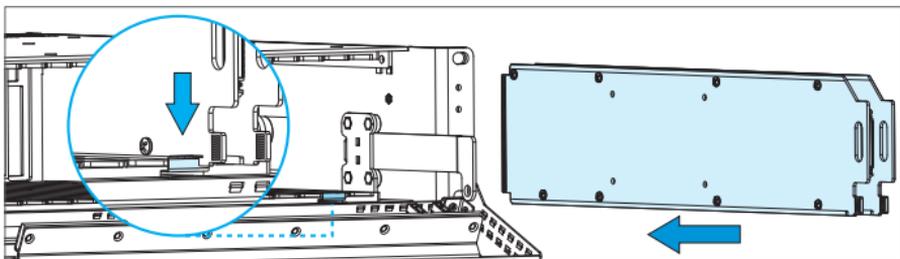
Unscrew the two thumbscrews and place the chassis on the edge of a desk for easy access to the front cover.



Slide out the front panel of the chassis and set it aside, then insert the main control board.



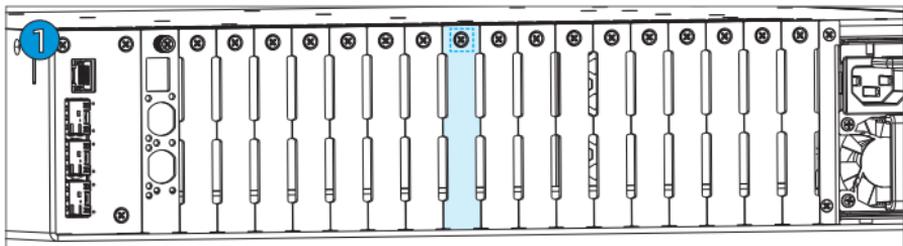
The main control board needs to be inserted from the rightmost side of the chassis. Do not insert it into the slots of the numbered service board slot. After inserting the main control board, the locking elastic piece of the main control board will lock onto the main control board, indicating that the main control board has been successfully fixed at this time. If you need to remove the main control board, press the locking elastic piece downward and pull the main control board outward to take it out.



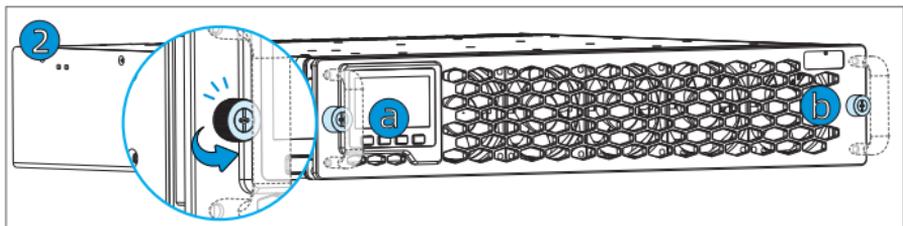
## 4.2 Service Board Card Installation

#### 4.2.1 FN50/60 Installation Processes

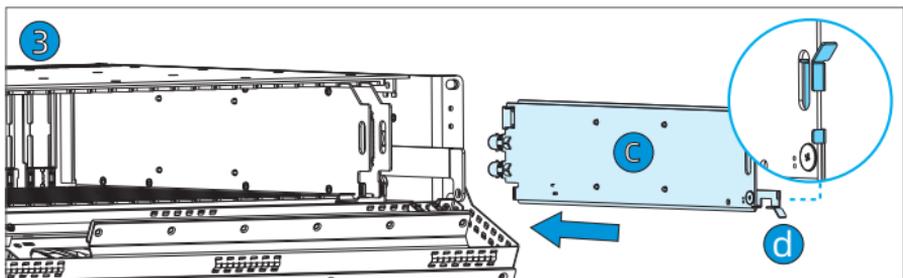
Step 1: Remove the rear panel at the corresponding installation position of RF02, and install the baffle corresponding to FN - 50/FN - 60.



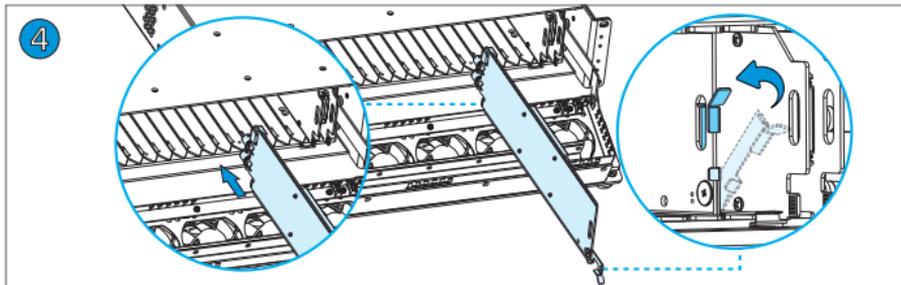
Step 2: Unscrew the two hand-tightening screws (a & b) on the front panel of RF02, and open the frame.



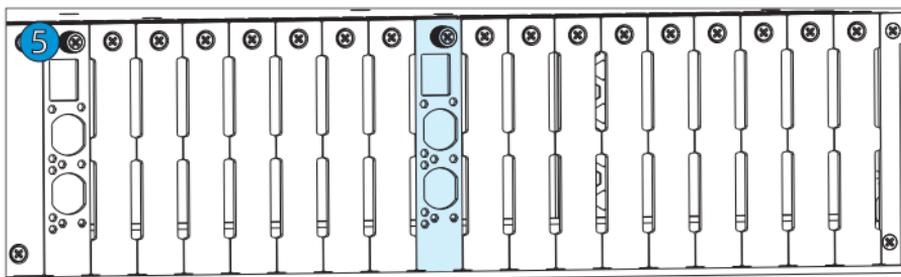
Step 3: Slide the metal latch (d) of the FN - 50/FN - 60 card board (c) to the right, then slide it downward to release.



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

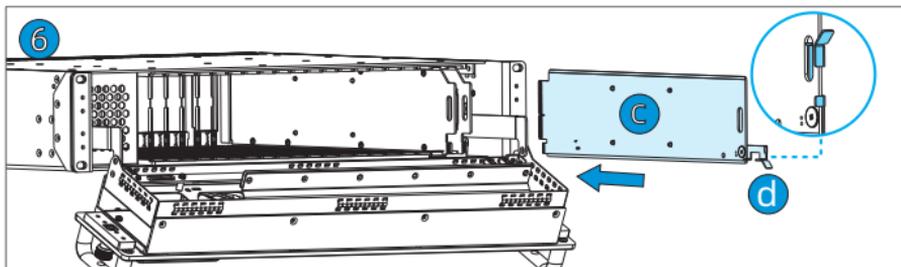


Step 5: Install the FN - 50/FN - 60 baffle at the rear of the device.

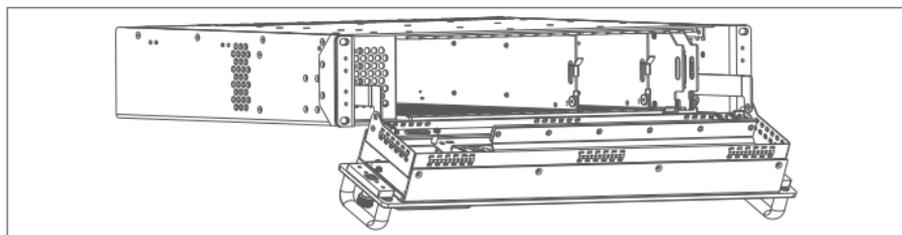
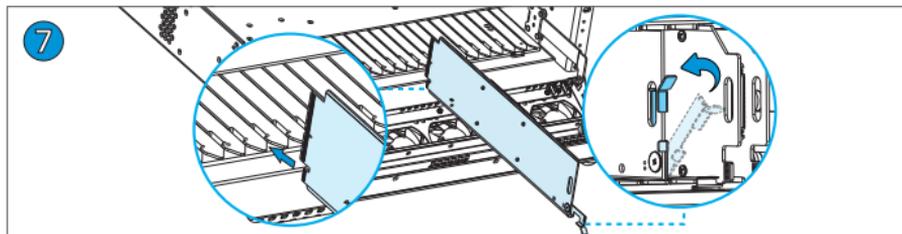


#### 4.2.2 FMG400 Installation Processes

Step 6: Slide the FMG - 400 card (c) (metal card catch (d)) to the right, then press it down to unlock.



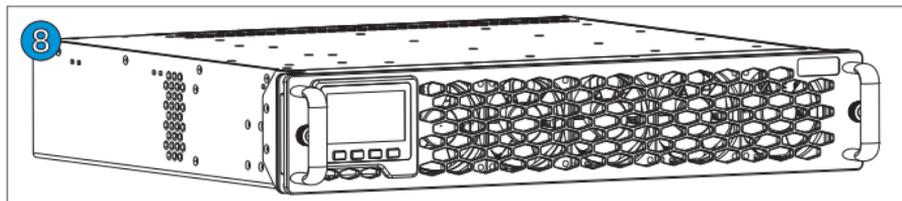
Step 7: Align the card (c) component with the card slot (with the short pin facing down), slide it in horizontally to the end. Then, flick the metal card catch upward, and move it leftward to complete the locking. Close the front panel.



Step 8 : After both the main control board and the service board card are inserted into the RF02 chassis, cover the front panel of the chassis again (after the card installation is completed with the front panel open, please cover it as soon as possible and tighten the screws to prevent foreign objects from entering the chassis).

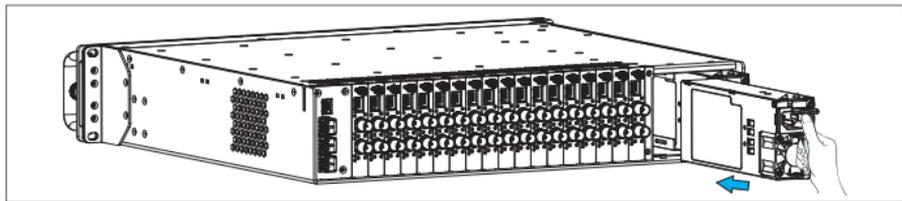
Tighten the two screws to complete the installation process.

(RF02 will support expansion with multiple functional cards, which share similar installation methods. For specific operations, please refer to each functional card's Quick Start Guide.)



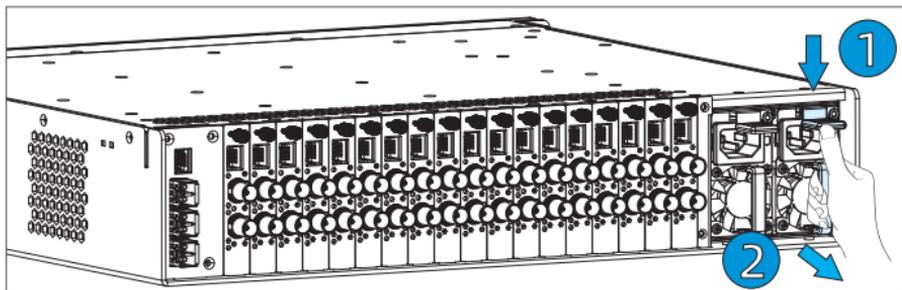
## 4.3 Power Supply Installation

Insert the power supply from the back cover of the device chassis. When you hear a "click" sound, it means that the power supply has been successfully installed. Insert the power cord and turn on the power. RF02 is equipped with a 500W dual redundant hot-swappable power supply, which can be hot-swapped. It is recommended that the two power supplies come from different power supply systems.



## 4.4 Power Supply Removal

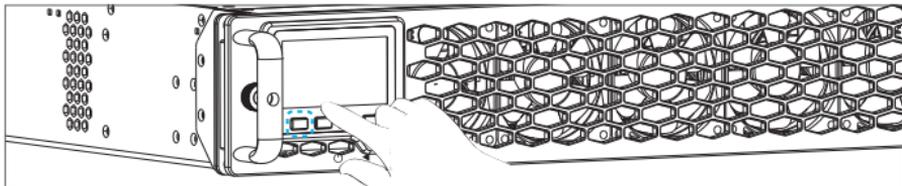
Unplug the power cord, press the latch above the power supply port, pull the handle on the outside of the power supply vent, and pull out the power supply.



## 4.5 Device Power On / Off

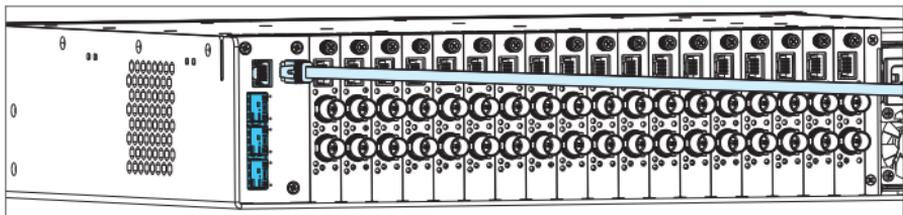
When RF02 is installed and connected to the power supply, press and hold the power off button for 2 seconds, the screen will light up, indicating that RF02 is starting up. Wait for the startup to complete and enter the home page.

To turn off RF02, press and hold the power on/off button for 2 seconds. The screen will black out. Wait for RF02 to stop working. This indicates that the shutdown is complete.



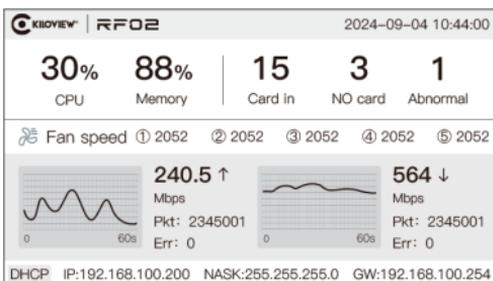
## 5 Network Access Description

RF02 is equipped with three 10Gbps SFP+ fiber optic Ethernet interfaces, compatible with 10G/1G speeds and one 10Gbps RJ45 Ethernet interface, compatible with 10G/5G/2.5G/1G/100M speeds (non-certified optical modules cannot guarantee reliability and may lead to unstable services).



## 6 Viewing the Current Device Status

On the chassis LCD display, you can conveniently view the current status information of RF02:



You can switch screens on the device's LCD screen, click to switch pages to view the service board card status information. The default IP address of the board card is allocated through DHCP service.

KIOVIEW   RFO2		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

Switch to the function setting page to perform operations such as resetting the IP, setting the language, screen saver time, and restoring factory settings of RFO2.

KIOVIEW   RFO2		2024-09-04 10:44:00	
📍	Reset Ip	192.168.1.14	
🌐	Language	English	
✓	Screen save	15s	
🔄	Recover	Factory reset	
↩ Quit			

## 7 Restoring Factory Settings

If the device cannot work properly due to improper parameter configuration, or if you forget the network IP configuration and cannot search for the device, you can try restoring the factory settings of the device. There are two ways to restore factory settings:

1. You can use the chassis display screen button to switch to the system settings page, select "Restore" > "Restore Factory Settings".

KIOVIEW   RFO2		2024-09-04 10:44:00	
📍	Reset Ip	192.168.1.14	
🌐	Language	English	
✓	Screen save	15s	
🔄	Recover	Factory reset	
↩ Quit			

## 8 Logging into the Device Management Page

In addition to using the LCD display to quickly set up and operate the device, this device also supports operation and management through the WEB management system. To log in to the device management page, simply open a web browser, enter the following in the address bar: `http://device IP address/` to access the device management system. After opening the device's Web management interface, the default login username is: admin, and the password is: admin. After successfully logging into the RF02 management platform, you can monitor the device operating status in real time, count the number of devices and service data, receive and process alarm information, manually allocate RF02 and service board card IP addresses, enter the service board card function operation interface to operate, manage user group permissions, and perform firmware upgrades, comprehensively grasp the platform operation status, ensure the efficient and stable operation of the device. For specific details on platform operation, please refer to the user manual.

## 9 Firmware Upgrade

### 9.1 Downloading Firmware Upgrades



Kiloview will continue to provide firmware updates and bug fixes for the RF02 device. Visit:

<https://www.kiloview.com/en/support/download/> In the filter list, select Rackmount Codec > RF02, and under the firmware tab, find the latest firmware to download.

### 9.2 Upgrading Firmware

Enter the RF02 device management background, click "Settings" > "System Settings" > "Firmware Upgrade" to enter the firmware upgrade page. Check if the downloaded latest software version is higher than the current software version. If the versions are the same or lower, no upgrade is required. If you want to upgrade, "Select File" to upload the firmware file downloaded from the official website, then click "Firmware Upgrade". After the firmware is successfully uploaded, the system will prompt you to restart. Click "Confirm" and the device will restart. Please wait patiently. After the device restarts, refresh the WEB management interface and you can re-enter the background.

# 10 Precautions

## Cleaning

- Due to dust accumulation on the fan dust screen, it is recommended to clean the dust with a brush once a month.
- 

## Chassis Placement

- The chassis cooling structure is ventilated from the front panel to the back. Please do not block the ventilation ports during installation and use of the device.
  - Do not place heavy objects on top of the chassis to prevent chassis deformation and make it difficult to insert and remove the card.
- 

## Web Security

- After opening the device's Web management interface, the default login username is: admin, and the password is: admin
  - To ensure information security, it is recommended that you change the password immediately after your first login!
  - Considering browser compatibility issues, it is recommended to use Google Chrome or Edge to log in!
- 

## Firmware Upgrade

- Please check if the latest downloaded software version is higher than the current version. If the versions are the same or lower, no upgrade is required. If you want to upgrade, please download the firmware file from the official website and upload it, then click "Firmware Upgrade".
  - After the firmware is successfully uploaded, the system will automatically restart back to the home page. Please wait patiently for the upgrade process to complete.
  - Do not power off during the upgrade process, otherwise the device may not be able to boot.
  - Generally, the upgrade process takes about 3-5 minutes. If the upgrade does not prompt completion after 5 minutes, try refreshing the web page; if you still cannot access it normally, try contacting technical support.
- 

## Restoring Factory Settings

- The login password for admin user will be restored to admin;
  - All configuration settings related to the management card, such as customized restart, switch, network settings, and configuration parameters in the general settings section, will be restored to the default factory values.
- 

## Screen Protection

- Clean the screen regularly to prevent direct sunlight and physical damage to extend the LCD screen life.
  - Avoid displaying the same image on the screen for a long time to prevent screen burn-in or pixel aging.
-



### Anti-static Tips

- Lay anti-static floor tiles or mats in the machine room to reduce static electricity accumulation.
  - Keep the machine room humidity between 40%-60% to reduce static electricity generation.
  - Use anti-static bags or foam pads during transportation and storage to avoid direct contact.
- 



### Network

- This version does not support link aggregation.
  - When inserting fiber optic cables, please ensure that the same type of optical ports and optical modules are used on both ends of the switch.
  - Be careful when inserting fiber optic cables to avoid scratching your fingers.
- 



### Note

- After the front panel of the chassis is opened, the chassis LCD will go black. This is normal. Continue to operate.
  - If the device is not used for a long time, please unplug the power supply and store the device properly to extend the service life of the device.
- 

## 11 Disclaimer

This "RF02 Rack-Mount Media Platform Quick Start Guide" is provided by the company for the installation, operation, and maintenance guidance of the RF02 Rack-Mount Media Platform. Before reading and using this manual, users must carefully read and fully understand the following disclaimer:

### 1. Correct Use and Safety Responsibility

Users must strictly follow the instructions in this manual for the installation, operation, and maintenance of the device. We are not responsible for any device damage, data loss, personal injury, or property damage caused by failure to follow operating instructions, improper use, unauthorized modification, overload operation, or unauthorized repair.

### 2. Electrical and Environmental Safety

This product involves electrical connections and hardware operations. Users must ensure that the operating environment meets safety standards (such as ventilation, dust

prevention, and moisture prevention). We are not responsible for device malfunctions or safety hazards caused by failure to follow safety warnings (such as covering ventilation ports, failing to clean dust regularly, etc.).

### **3. Firmware and Software Risk**

Firmware upgrades must be obtained from official channels and operated strictly according to procedures. Users are solely responsible for any system crashes, data loss, or other problems caused by using non-official firmware, power outages during upgrades, or operational errors.

### **4. Intellectual Property Protection**

Intellectual property rights related to this manual and product, including technical documents, software, trademarks, etc., are owned by our company. No unit or individual may copy, modify, disseminate, or use it for commercial purposes without written authorization.

### **5. Disclaimer Scope**

We are not responsible for the following situations:

Device damage or data loss caused by force majeure (such as natural disasters, wars, etc.);

User failure to operate in accordance with the manual or use beyond the product's design scope;

Malfunctions caused by third-party software and hardware compatibility issues or network attacks.

### **6. Maintenance and Technical Support**

We recommend that users regularly maintain the equipment and contact official technical support to resolve any problems. We reserve the right to disclaim responsibility for any device problems caused by failure to maintain the device in a timely manner or by using non-professional services.

We reserve the right to the final interpretation and modification of this manual and disclaimer. Once users use this product, it is deemed that they have fully read, understood, and agreed to all the contents of this statement.



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