

# RXV81 USB Peripheral

## Version 2.4.55





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## Abbreviations and Conventions

Each abbreviation, unless widely used, is spelled out in full when first used.

## Related Documentation

Document Name
RXV81 USB Peripheral User's & Administrator's Manual
RXV81 USB Peripheral Quick Guide
One Voice Operation Center (OVOC) User's Manual
Device Manager Administrator's Guide

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# 1 Introduction

AudioCodes' RXV81 USB Peripheral is a cost-effective, UC-agnostic collaboration bar designed for small and medium rooms, huddle rooms, focus rooms and executive rooms.

As a peripheral device, the RXV81 with its integrated camera, microphones and speaker is connected in the room via USB to a PC or laptop running the UC application – Teams, Zoom, etc.

As a pure peripheral, RXV81 does not require any UC license to be installed on it.



**Important:** As a pure peripheral, RXV81 can be upgraded via software license (purchased separately) to a full Android MTR.

RXV81 is fully managed by the AudioCodes One Voice Operations Center (OVOC) | Device Manager (a plugin of OVOC), allowing admins to remotely oversee and easily upgrade all deployed devices from anywhere.

Note that RXV81 USB Peripheral can be operated with a Remote Control Unit (RCU) or RX-PAD Meeting Room Controller.



**Note:**

- The RCU is bundled in the **RXV81P** bundle to control meetings (see also [here](#)).
- RX PAD is bundled in the **RXV81P-B10** bundle to control meetings (see also [here](#)).

A/V control functionalities include camera on / off, camera settings, mute / unmute and volume up / down. Deployment is straightforward with its robust mounting element and minimal cable connections.

## 1.1 Highlights

RXV81 feature highlights:

- **Upgradable to a full Android MTR.** As a pure peripheral, RXV81 can be upgraded via software license (purchased separately) to a full Android MTR.
- **Plug-and-Play Simplicity for Fast Setup.**  
An easy-to-use mounting element and minimal cable connections enable quick and simple deployment.
- **Control:**
  - **RX-PAD Meeting Room Controller** (see also [here](#)) -OR-
  - **Bluetooth Remote Control Unit (RCU)** (see also [here](#))  
Leverages Bluetooth for full control and bi-directional communication. Intuitive. Illuminated 'Mute' button.
- **High Quality Video and Audio.**  
Outstanding image clarity and superb surround sound ensures that everyone in the meeting room is seen and heard.
- **Wide-angle 4K Camera**  
Covers a 110° viewing angle capturing every seat in the room even in tight spaces with challenging lighting conditions. D: 120°/ H: 110°/ V: 75°
- **Easy to Manage from Anywhere.**  
Enhance the meeting experience with centralized device management and monitoring from any location.

## 1.2 Benefits

- UC-agnostic: No additional UC licenses are required. The PC/ laptop connected via USB to RXV81 is the compute unit responsible for running UC software.
- Upgradable via license to full MTR without requiring any hardware changes.
- An easy-to-use mounting element and minimal cable connections enable quick and simple deployment.
- Superior audio via a full-room pickup with no need for an additional external USB microphone or speaker.
- Effortlessly manage meetings using the dedicated Bluetooth RCU or RX-PAD Meeting Room Controller.
- Managed using AudioCodes' One Voice Operations Center (OVOC) Device Manager.

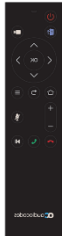

## 1.3 Hardware Features

- Wide-angle lens with 110° field of view (FoV) covers every seat in the meeting room. D: 120° / H: 110° / V: 75°
- Adjustable camera position with ePTZ support - 5x zoom - digital 5x zoom in. Manually vertically (up/down) adjustable ±15°.
- 6-element microphone array with 4.5 m pickup range for mid-size rooms and a 10W speaker for superb sound
- Stylish design and finish.
- Built-in dual band Wi-Fi and Bluetooth.
- High Dynamic Range (HDR) automatically ON - Wide Dynamic Range (WDR).

## 1.4 Bundles

The RXV81 is available in two bundles.

**Table 1-1: RXV81 Bundles**

Name of Bundle	Details
<b>RXV81P</b>	<ul style="list-style-type: none"> <li>■ Managers offices</li> <li>■ RXV81 main unit</li> <li>■ Smart BT Remote Controller Unit (RCU)</li> </ul> 
<b>RXV81P-B10</b>	<ul style="list-style-type: none"> <li>■ Shared rooms</li> <li>■ 5-6 participants</li> <li>■ RXV81 main unit</li> <li>■ RX-PAD Meeting Room Controller</li> </ul> 



## 1.5 Specifications

The following table shows the RXV81 specifications.

**Table 1-2: Specifications**

Feature	Details
<b>Video capabilities</b>	<ul style="list-style-type: none"> <li>▪ 4k image sensor</li> <li>▪ Super-wide angle horizontal field of view: 110°</li> <li>▪ Lens: Fixed focus</li> <li>▪ ePTZ capable, digital 5x zoom in</li> <li>▪ Output resolution: 1080p</li> <li>▪ Frame rate: 30 fps</li> <li>▪ Manually adjustable, vertically (up/down) <math>\pm 15^\circ</math></li> <li>▪ High Dynamic Range (HDR) automatically ON - Wide Dynamic Range (WDR).</li> </ul>
<b>Audio</b>	<ul style="list-style-type: none"> <li>▪ Full duplex, noise suppression, acoustic Echo Cancellation, voice separation</li> <li>▪ 6x beamforming microphone array</li> <li>▪ Voice pickup range: 4.5m (15ft)</li> <li>▪ 10W speaker</li> </ul>
<b>Device Interfaces</b>	<ul style="list-style-type: none"> <li>▪ HDMI output to TV</li> <li>▪ Power/reset button</li> <li>▪ USB 3.0 Type A (host) marked 1 to allow touch LCD or connectivity to wireless KB via BT USB dongle</li> <li>▪ Ethernet: 10/100 Mbps (RJ-45) network interface</li> <li>▪ USB2.0 Type-C (device) marked 2 to connect to PC/MAC BYOD device (peripheral mode)</li> <li>▪ 3 status LEDs indicating camera on/off, mute on, call state, device health</li> <li>▪ Wi-Fi (dual band support)</li> <li>▪ Bluetooth 5.0</li> <li>▪ 12V/3A DC power input</li> <li>▪ RCU or RX-PAD</li> </ul>
<b>OS</b>	<ul style="list-style-type: none"> <li>▪ Android 12</li> </ul>
<b>Security</b>	<ul style="list-style-type: none"> <li>▪ Encryption: TLS (Transport Layer Security), SRTP encryption for media, AES256</li> <li>▪ Network Access Control: IEEE 802.1x</li> <li>▪ Built-in certificate</li> </ul>
<b>Management</b>	<ul style="list-style-type: none"> <li>▪ AudioCodes Device Manager, a plugin of AudioCodes One Voice Operations Center (OVOC)</li> </ul>
<b>Feature Set</b>	<ul style="list-style-type: none"> <li>▪ Camera settings with different privileges for user and Admin</li> <li>▪ In idle (Admin) and during a call/meeting (all users), long-pressing the camera button on the RC allows: <ul style="list-style-type: none"> <li>✓ Defining/editing a new preset</li> <li>✓ Moving to different presets</li> <li>✓ Changing all settings options</li> </ul> </li> <li>▪ Video quality: Resolution of 1080p on the decoder side and 720p on the encoding side</li> <li>▪ RXV81 integration with AudioCodes OVOC-Device Manager</li> <li>▪ RXV81 Alerts to AudioCodes OVOC-Device Manager:</li> </ul>

Feature	Details
	<ul style="list-style-type: none"> <li>✓ Notification sent to screen/TV and to Device Manager if RCU is disconnected or if it's malfunctioning</li> <li>✓ Notification sent to screen/TV and to Device Manager if RCU battery voltage level falls low, indicating what percentage level remains unused</li> <li>✓ RCU flashes if the connection to the RXV81 fails.</li> <li>▪ Camera frequency set per power supply:                             <ul style="list-style-type: none"> <li>✓ 110V – 60Hz</li> <li>✓ 220V – 50Hz</li> </ul> </li> <li>▪ Shortcut keys for administrators to manually perform recovery operations</li> </ul>

## 2 Version 2.4.55

### 2.1 What's New

- **RXV81 USB Peripheral introduce a new capability allowing users to share their PC screen via the RX-PAD HDMI In port.**

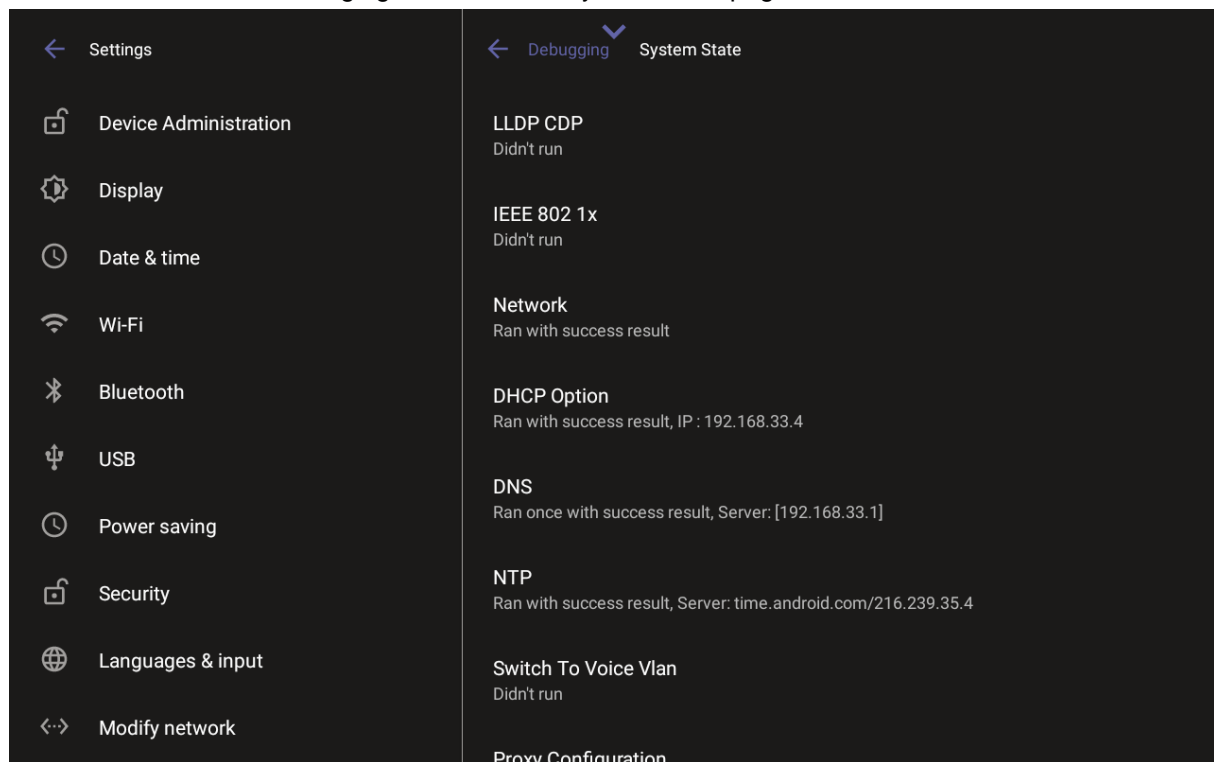
Cableless approach between RX-PAD Room Controller and RXV81 USB Peripheral; instead, a short HDMI cable connects the PC/laptop to the RX-PAD HDMI port. For the RXV81 USB Peripheral, this feature extends HDMI In functionality.

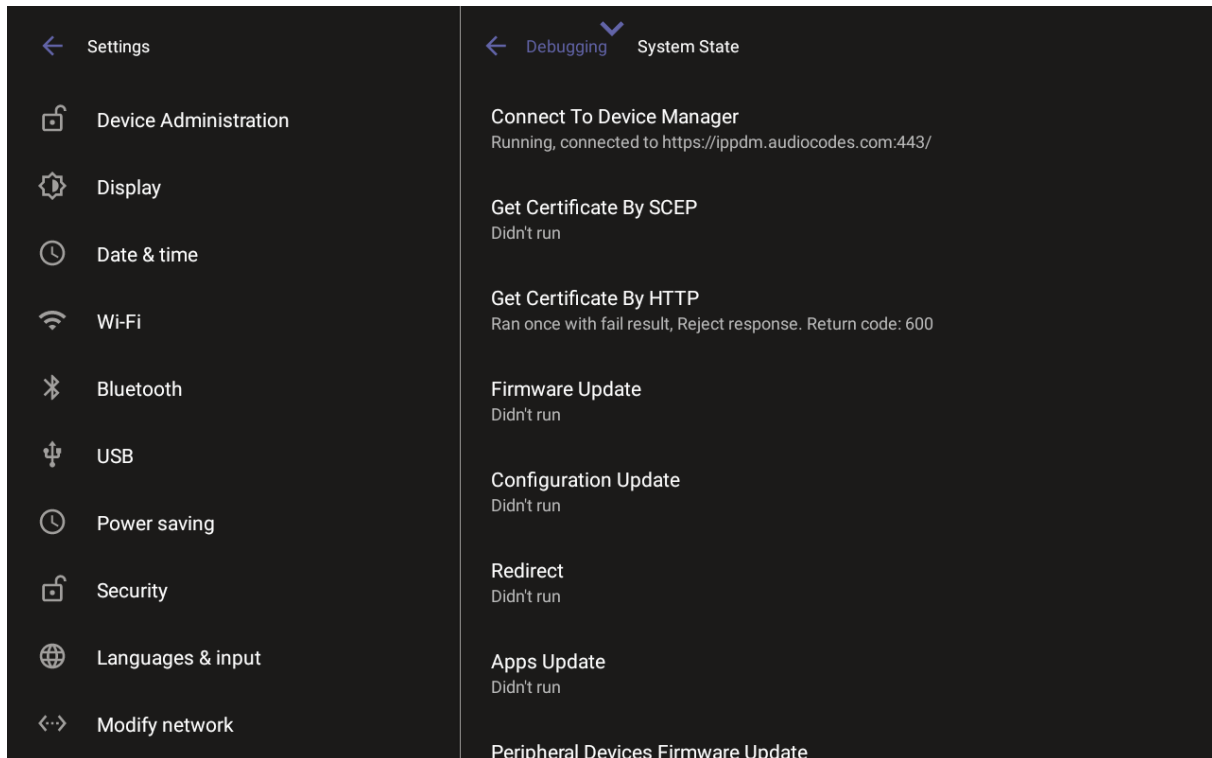


- **Improved out-of-the-box troubleshooting. Admins can now monitor the status of the various software modules of the device.** If initial provisioning is unsuccessful or if admin encounters an issue related to the network / connection to Device Manager, the feature gives admin an indication as to why.

The feature enables debugging via the device's screen without requiring external systems. Admin can check connectivity independently of external apps. The figure below shows the new System State screen that has been added (**Settings > Debugging > System State**).

The following figures show the System State pages.





- **USB Log Export in Recovery Mode.** This version introduces a new feature that empowers users to seamlessly save logs while their device is in recovery mode. In Android recovery mode, the system automatically mounts a partition, enabling users to connect a USB stick. By simply clicking the 'Export logs to USB disk' option, all logs are efficiently copied to the USB stick, providing a convenient and reliable method for log management during recovery procedures.
- **A timeout has been added to the Admin login.** The timeout's value can be configured using a newly added cfg configuration file parameter:  
`settings/admin_logout_timeout,values=3`  
 Default value: 3 (minutes)  
 Valid values: 1-10 (minutes)  
 Timing begins when exiting the 'Device Settings' menu. When the timeout expires, the device logs out automatically.  
 The functionality works for both registered and unregistered devices.

## 2.1.1 Resolved Limitations in Version 2.4.55

**Table 2-1: Resolved Limitations**

Incident	Description
IPPAN-11896	On some occasions, after ending a meeting on the MTR, the MTR might still present its status in the ongoing meeting and crash the unit. Rebooting the MTR fixes the issue.
IPPAN-11593	[RXV81+RX-PAD] Under certain circumstances, the device stops sending keep-alive messages to Device Manager if Device Manager does not reply.
IPPAN-11976	[RXV81] After upgrading to new firmware, the device cannot reconnect to the same 802.1x network as before.
IPPAN-11672	[RXV81] [Ad hoc / Full Peripheral mode] When long-pressing the volume button, the volume responds slowly.
IPPAN-11997	On rare occasions, a notification 'RX-PAD Room Controller is not connected' is displayed even though RX-PAD is paired with RXV8.
IPPAN-11242	[RXV81] The Wi-Fi strength icon is not clear against the dark background.
IPPAN-11773	[Wi-Fi with 802.1x] 802.1x cannot be used when using the device's Wi-Fi.
IPPAN-12745	A USB device with a friendly name that includes special characters (/) might not be recognized.

## 2.1.2 Known Limitations in Version 2.4.55

**Table 2-2: Known Limitations**

Incident	Description
-	The following feature is currently not supported: RXV81 MTRA features audio (media and notifications) triggered by RX-PAD.
IPPAN-11743	Before updating the firmware, it's highly recommended to remove the USB port.
IPPAN-12786	[RXV81 as Ad Hoc Peripheral / Full Peripheral] The Settings icon of RX-PAD is displayed incompletely but can be used.

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## 3 Previous Releases

### 3.1 Version 2.2.808

#### 3.1.1 What's New



**Note:** This is the initial release of RXV81 USB Peripheral.

#### 3.1.1.1 Resolved Limitations in Version 2.2.808

**Table 3-1: Resolved Limitations**

Incident	Description
N/A	This is the initial release of RXV81 USB Peripheral.

#### 3.1.1.2 Known Limitations in Version 2.2.808

**Table 3-2: Known Limitations**

Incident	Description
-	The following feature is currently not supported: RXV81 MTRA feature audio (media & notifications) triggered by RX-PAD
IPPAN-11743	Before updating the firmware, it's highly recommended to remove the USB port.

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