



***RVM Manager
Operation Guide***



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Preface

This chapter introduces the conventions and revision history of this document

Documentation Conventions

Icon Conventions

Icon	Description
 Tip	Information that helps you make better use of your product.
 Note	References that further describes the related topics.
 Caution	Situations that could cause data loss or equipment damage.

Notation Conventions

Notation	Description
“ ”	The quotation marks enclose the name of a software interface element. For example, click “OK”.
Bold	The text in boldface denotes the name of a hardware button. For example, press the PTT key.
->	The symbol directs you to access a multi-level menu. For example, to select “New” from the “File” menu, we will describe it as follows: “File -> New”.

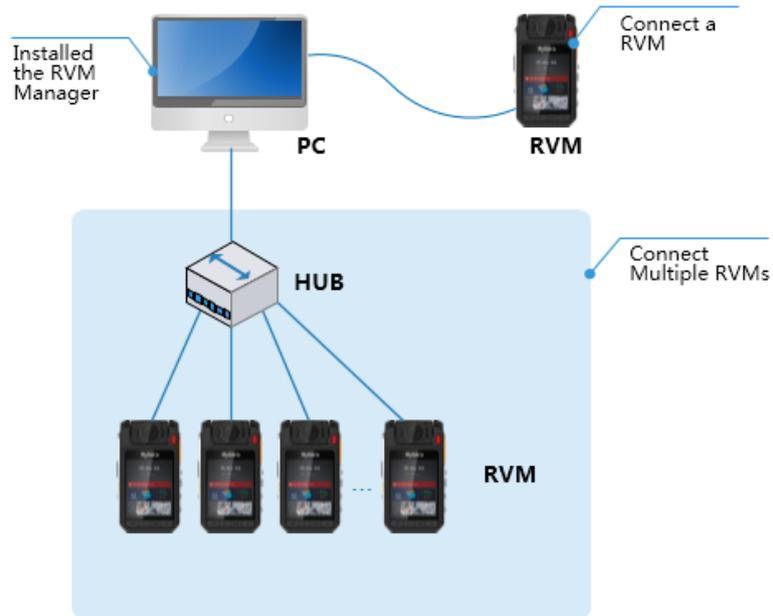
Revision History

Version	Release Date	Description
R1.0	Aug, 2017	Initial release

1. Overview

1.1 Introduction

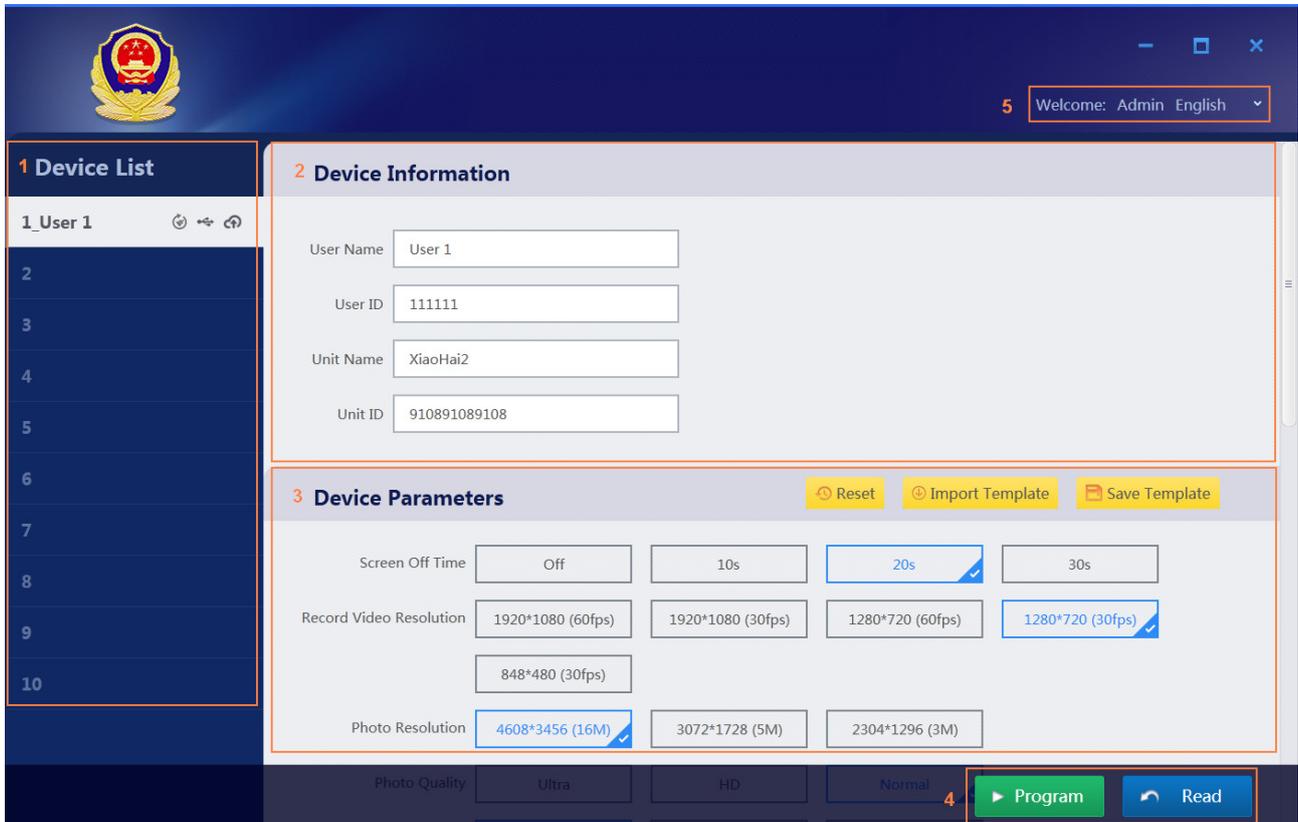
The RVM (Remote Video Speaker Microphone) Manager is the PC software designed to manage RVMs. It enables users to read, edit and program the device configurations and upgrade firmware. Besides, it can configure RVMs by batch and supports template management to improve work efficiency.



Users only need to install the tool on the PC, and connect RVMs via data cable or hub, then use it to manage RVMs.

1.2 Homepage

The figure below is the tool homepage.



Area	Description
1. Device List	<ul style="list-style-type: none"> ● Display the device number and user name; click the user name to view configurations. ● Format disk, switch disk mode and upgrade firmware ● Display the menu Batch Setting while connecting multiple RVMs to realize unified management.
2. Device Information	View and edit user name and ID, unit name and ID.
3. Device Parameters	<ul style="list-style-type: none"> ● View and edit device parameters, such as Screen Off Time, Pre-record Time, Post-record Time, resolution. ● Import and save template, reset to factory defaults.
4. Read/Program	<ul style="list-style-type: none"> ● Read: read configurations from RVM. ● Program: program configurations to RVM.
5. Menu Bar	View software version, set interface language and change password.

1.3 Preparations

1.3.1 Install the Tool

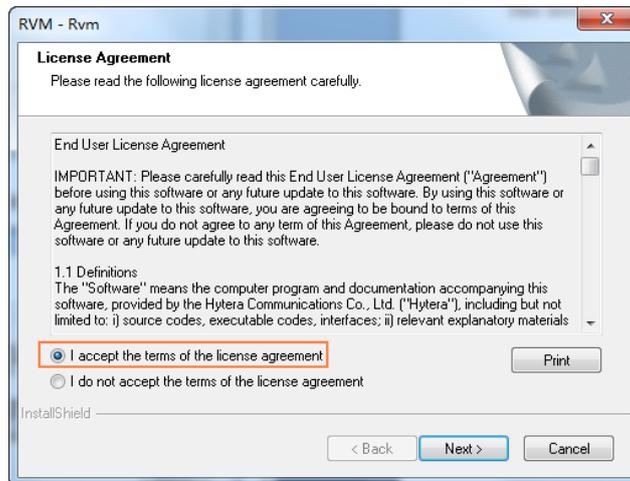
Currently the tool supports the following operating systems including Windows 7, Windows 8 and Windows 10.

This part takes the Windows 7 operating system as an example to simply introduce the installation steps.

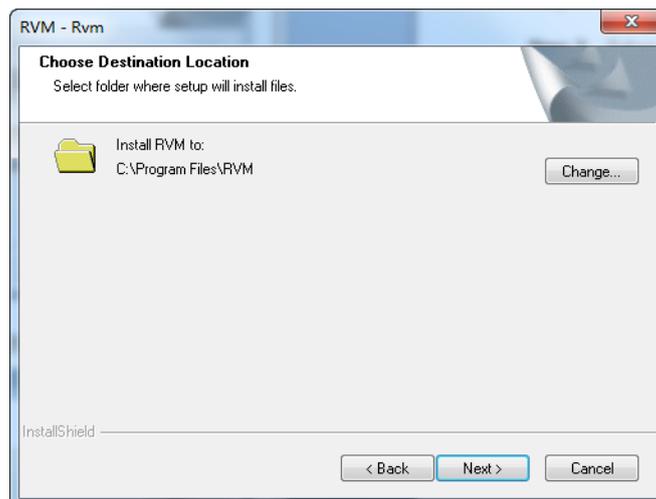
After obtaining the installation package, please install the driver and software according to the installation wizard.

Step 1 Choose the language and continue.

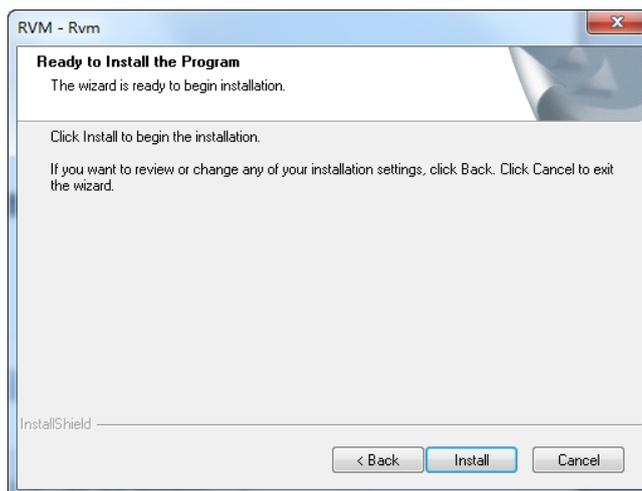
Step 2 Select “I accept the terms of the license agreement” and click **Next**.



Step 3 The tool is installed in the C disk by default, click **Change** to change the installation path if necessary, and then click **Next**.



Step 4 Click **Install**, and the tool automatically starts installation.



Caution

During installing, if the tip dialogue box of driver installation pops up, please choose to install the driver, otherwise the tool cannot be used.

1.3.2 Connect RVM

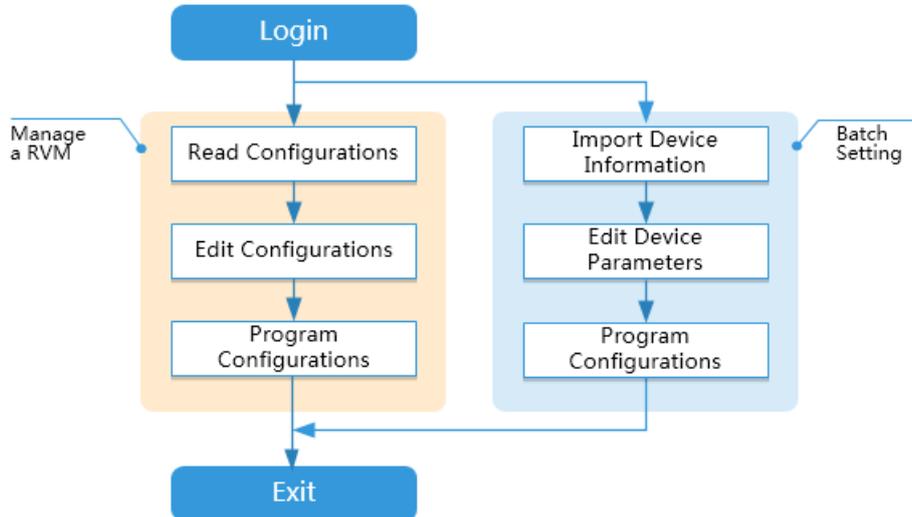
Power on the RVM and connect it to the PC via data cable. You can use hub to connect multiple RVMs if necessary. When the RVM successfully connects to the PC, its screen shows “programming mode”.

Note

You can also purchase the multi-unit charger to connect multiple RVMs.

2. Main Operations

2.1 Operation Flow



Note

- Each RVM has two default user accounts: Admin and User. This chapter takes the Admin as an example to introduce the main operations of the tool.
- Both the Admin and User can manage single RVM. Only the Admin can manage multiple RVMs by **Batch Setting**.
- The configurations include device information and device parameters.

2.2 Login

Step 1 Before login, please confirm that RVM has successfully connected to the PC, see [1.3.2 Connect RVM](#).

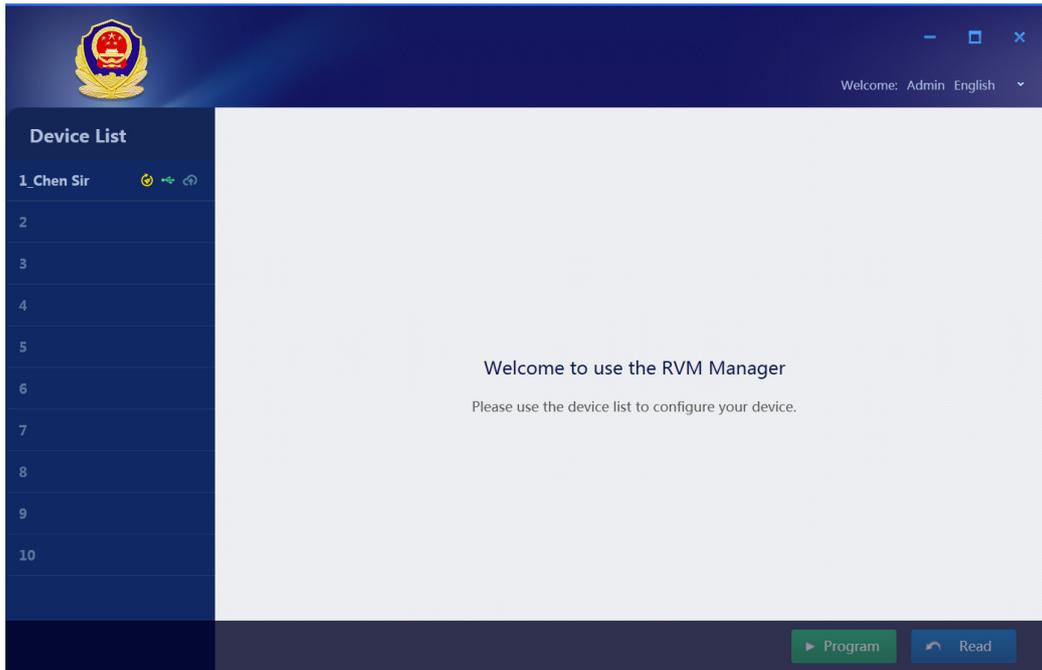
Step 2 Run the RVM Manager.

Step 3 Choose the Admin account and enter password.

Note

The default passwords of both the Admin and User are 99999999. See [3.2.2 Change Password](#) to modify if necessary.

After you successfully log in, the tool automatically enters the homepage as below.



2.3 Manage a RVM

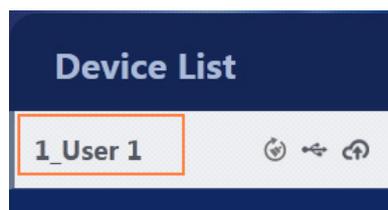
This feature enables users to manage a RVM, including reading, edit and programming of device configurations.

2.3.1 Read Device Configurations

You can read the device configurations with any one of the following methods.

Method 1

Click the user name in the device list. The tool automatically reads and displays device information and parameters of the connected RVM



Note

The tool only reads once from RVM when you click the user name. After that, if you stay in the current edit page, this method is invalid.

Method 2

Step 1 Click **Read** on the bottom right of the edit page.

Step 2 Click **OK** in the popped dialogue box.

The edit page displays the device information and parameters read from the RVM.

2.3.2 Edit Device Configurations

Edit Device Information

Step 1 Click the user name in the device list to access the edit page.

Step 2 Edit user name, user ID, unit name and unit ID.

Device Information

User Name	Chen Sir
User ID	168888
Unit Name	XiaoHai
Unit ID	910891089108



Note
Only Admin can edit device information. See [4.1 Device Information Description](#) for details,

Edit Device Parameters

Step 1 Click the user name in the device list to open the edit page.

Step 2 Edit device parameters.

Device Parameters

Reset
 Import Template
 Save Template

Screen Off Time	Off	10s	20s	30s
Record Video Resolution	1920*1080 (60fps)	1920*1080 (30fps)	1280*720 (60fps)	1280*720 (30fps)
	848*480 (30fps)			
Photo Resolution	4608*3456 (16M)	3072*1728 (5M)	2304*1296 (3M)	
Photo Quality	Ultra	HD	Normal	
Pre-record Time	Off			
	10s			
	20s			
Post-record Time	Off			
	10s			
	20s			
	30s			
Realtime Video Resolution	1280*720 (30fps)	1280*720 (15fps)	848*480 (30fps)	848*480 (15fps)
Watermark	Off	DateTime		
		Date Time+Device ID		
		Date Time+User ID		
Date/Time	2017/08/10 10:26:04			
	<input type="radio"/> Auto <input checked="" type="radio"/> Manual			



- See [4.2 Device Parameters Description](#) for details.
- For the edit permissions of Admin and User, see [4.3 Edit Permission of Device Parameters](#).

2.3.3 Program Device Configurations

After setting device information and parameters, you can program the configurations to the RVM.

Step 1 Click the user name in device list to open the edit page.

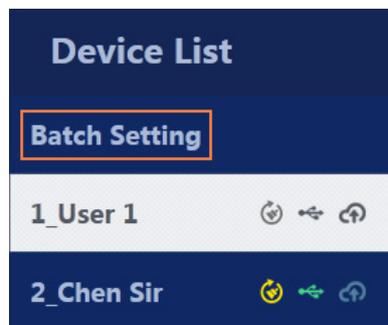
Step 2 Click **Program** on the bottom right of the edit page.

When the page shows “Programming succeeded”, the configurations are successfully programmed to the RVM.

2.4 Batch Setting

This feature enables users to manage multiple RVMs at the same time, such as the unified setting of device information and parameters.

When multiple RVMs are connected, the device list shows **Batch Setting**.



Note

- Only the Admin can conduct batch setting, and can manage 10 RVMs at most.
- The Admin password of all connected RVMs must be the same; otherwise the RVM verification will fail.
- Configurations cannot be read from RVM when batch setting is performed.

2.4.1 Edit Device Information

For batch setting, all device information is set in Excel file. Please edit device information as below before importing the Excel file.

Step 1 Open the file “RVM Device Info.xlsx” in the installation package.

Step 2 Edit device information, such as user name and user ID.

Note

The WLAN and BT information are edited in the Excel file as well.

Step 3 Save and close the file.

2.4.2 Import Device Information

Step 1 Click **Batch Setting** in the device list to open the edit page.

Step 2 Click **Import Device Information**, and the window **Select File** pops up.

Step 3 Select the Excel file of device information and click **Open**.

After the file is imported to the tool, you can view the imported device information in the **Pending** column.

Device Information						
Pending (2)		Done (2)			Import Device Information	
User Name	User ID	Unit Name	Unit ID	WLAN Name	BT Name	Status
Chen Sir	168888	XiaoHai	910891089108	VM680	VM680	Successful
User	111111	XiaoHai2	910891089108	VM681	VM681	Successful

2.4.3 Edit Device Parameters

Step 1 Click **Batch Setting** in the device list to open the edit page.

Step 2 Edit device parameters.

Device Parameters		Reset	Import Template	Save Template
Screen Off Time	Off	10s	20s	30s
Record Video Resolution	1920*1080 (60fps)	1920*1080 (30fps)	1280*720 (60fps)	1280*720 (30fps)
	848*480 (30fps)			
Photo Resolution	4608*3456 (16M)	3072*1728 (5M)	2304*1296 (3M)	
Photo Quality	Ultra	HD	Normal	
Pre-record Time	Off	10s	20s	
Post-record Time	Off	10s	20s	30s
Realtime Video Resolution	1280*720 (30fps)	1280*720 (15fps)	848*480 (30fps)	848*480 (15fps)
Watermark	Off	DateTime	Date Time+Device ID	Date Time+User ID
Date/Time	2017/08/10 10:27:46	Auto	Manual	

Note

See [4.2 Device Parameters Description](#) for details.

2.4.4 Program Device Configurations

You can program the configurations to the RVM.

Step 1 Click **Batch Setting** in the device list to enter edit page.

Step 2 Click **Program** on the bottom right of the edit page.

The tool programs the configurations to all connected RVMs in the order of the device number 1~10.

After programming finishes, you can view the device information in **Done** column.

Device Information						
Pending (2)		Done (2)		⊕ Import Device Information		
User Name	User ID	Unit Name	Unit ID	WLAN Name	BT Name	Status
Chen Sir	168888	XiaoHai	910891089108	VM680	VM680	Successful
User	111111	XiaoHai2	910891089108	VM681	VM681	Successful

2.5 Exit

Step 1 Click  in top right corner of the home page.

Step 2 Click **Exit** from the drop-down list.

3. Other Operations

3.1 Manage Template

You can save device parameters of a RVM as template, and then import the template to configure other RVM.

This feature can be applied to manage a RVM or multiple RVMs.

3.1.1 Save Template

Step 1 Click the user name in the device list to open the edit page.

**Note**

To use the template for multiple RVMs, click **Batch Setting** to open the edit page.

Step 2 Click **Save Template** in the edit page, the window **Save Template** prompts.

Step 3 Enter the template name and click **Browse** to select the file save path.

Step 4 Click **OK** to save template as xml file.

3.1.2 Import Template

Step 1 Click the user name in the device list to open the edit page.

**Note**

To use the template for multiple RVMs, click **Batch Setting** to open the edit page.

Step 2 Click **Import Template** in the edit page, the window **Choose File** prompts.

Step 3 Choose the template file to be imported and click **Open**.

You can view the imported device parameters after importing finishes.

3.2 Password Management

3.2.1 Retrieve Password

**Note**

Only the Admin can retrieve password. Please choose the **Admin** account in the login page.

Step 1 Click **Forget Password** in the Admin login page to enter **Retrieve Password** page.

Step 2 Obtain the verification code according to the instructions in the page.

Step 3 Enter the correct verification code, and click **OK** to view the retrieved Admin password.

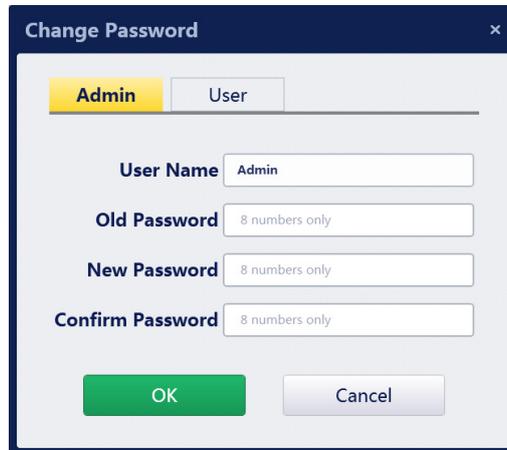
3.2.2 Change Password

Change Admin Password

Step 1 Use the Admin account and password to log in and enter the homepage.

Step 2 Click  in the top right corner and choose **Change Password**.

Step 3 Enter the Old Password, New Password and Confirm Password in the **Admin** tab page.



The image shows a 'Change Password' dialog box with a dark blue header and a close button (X) in the top right. Below the header are two tabs: 'Admin' (highlighted in yellow) and 'User'. The dialog contains four input fields: 'User Name' with the value 'Admin', 'Old Password' with the placeholder '8 numbers only', 'New Password' with the placeholder '8 numbers only', and 'Confirm Password' with the placeholder '8 numbers only'. At the bottom, there are two buttons: a green 'OK' button and a grey 'Cancel' button.

Step 4 Click **OK** to save new password.



Note

You can set the Admin password of all connected devices to the same one. Please make sure all devices are successfully connected to the PC and the old password verification succeeded.

Change User Password

Change password by Admin

Step 1 Use the Admin account and password to log in and enter the homepage.

Step 2 Click the user name in the device list to choose a device.

Step 3 Click  in the top right corner and choose **Change Password**.

Step 4 Enter new password and confirm password in the **User** tab page.

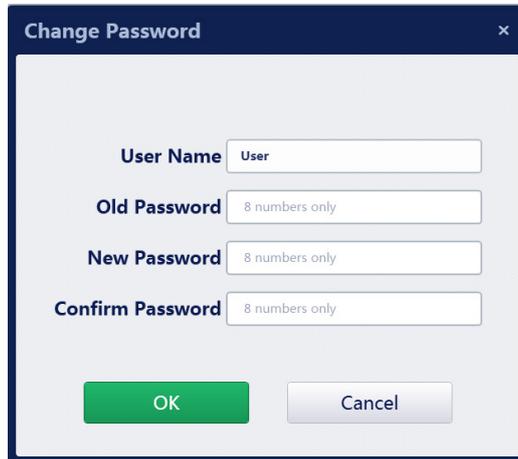


The image shows a 'Change Password' dialog box with a dark blue header and a close button (X) in the top right. Below the header are two tabs: 'Admin' and 'User' (highlighted in yellow). The dialog contains four input fields: 'User Name' with the value 'User', 'Old Password' with the placeholder '*****', 'New Password' with the placeholder '8 numbers only', and 'Confirm Password' with the placeholder '8 numbers only'. At the bottom, there are two buttons: a green 'OK' button and a grey 'Cancel' button.

Step 5 Click **OK** to save new password.

Change Password by User

- Step 1** Use the User account and password to log in and enter the homepage.
- Step 2** Click  in the top right corner, and choose **Change Password**.
- Step 3** Enter the Old Password, New Password and Confirm Password.



The image shows a 'Change Password' dialog box with a dark blue title bar and a close button (X) in the top right corner. The dialog contains four input fields: 'User Name' with the text 'User', 'Old Password' with the placeholder '8 numbers only', 'New Password' with the placeholder '8 numbers only', and 'Confirm Password' with the placeholder '8 numbers only'. At the bottom, there are two buttons: a green 'OK' button and a grey 'Cancel' button.

- Step 4** Click **OK** to save new password.

3.3 Manage RVM Disk



Note

Only the Admin can manage disk.

3.3.1 Format Disk



Note

After disk formatting, all media files in the RVM will be cleared, including videos, photos and audios. Please be careful to format the disk.

- Step 1** Click the user name in the device list.
- Step 2** Click .
- Step 3** Click **OK** in the popped dialogue box.

The page prompts “Formatting succeeded”.

3.3.2 Switch to Disk Mode

- Step 1** Click the user name in the device list.
- Step 2** Click  to switch to the disk mode.

The disk directory window automatically pops up. You can view and manage the RVM files, such as photos, videos.

3.4 Upgrade Firmware

Before upgrade, please contact the Hytera customer service to obtain the upgrade file.



Note

Only the Admin can upgrade the RVM.

Step 1 Click the user name in the device list.

Step 2 Click  and choose the upgrade file in the popped up window.

The upgrade file is automatically copied to the RVM, and the tool interface prompts “File copied to the device, disconnect the device to upgrade”.

Step 3 Disconnect the RVM.

The RVM detects the upgrade file and automatically execute upgrade task.

3.5 Factory Reset

This feature is for the Admin to reset the device parameters to default settings.

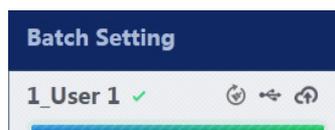
3.5.1 Reset a Device

Step 1 Click the user name in the device list to open the edit page.

Step 2 Click **Reset**.

Step 3 Click **OK** in the popped dialogue box.

A progress bar displays below the user name. After resetting is done, the  will display beside the user name.



3.5.2 Reset Multiple Devices

Step 1 Click **Batch Setting** in the device list to enter the edit page.

Step 2 Click **Reset**.

Step 3 Click **OK** in the popped dialogue box.

The tool executes resetting for all connected devices in the order of device number 1~10.

A progress bar displays below the user name. After resetting is done, the  will display beside the user name.

3.6 View Version

Click  in top right of the homepage, and choose **Version**.

3.7 Set Language

Click  in the top right corner of the homepage, choose **Language Setting**, and then choose the language type.

3.8 View Help

Click  in the top right corner of the homepage, and choose **Help**.

4. Appendix

4.1 Device Information Description

Name	Description
User Name	The user name of RVM, displaying the device list as well, such as police name.
User ID	The User ID of RVM, such as police ID.
Unit Name	The unit name of the user, such as the name of the police station.
Unit ID	The unit ID of the user, such as police station number.

4.2 Device Parameters Description

Name	Description
Screen Off Time	The screen auto-off time of the RVM
Record Video Resolution	The resolution and transmission frame rate of local recording and stored video
Photo Definition	The resolution of photos
Photo Quality	The quality level of photos
Pre-record Time	The pre-record feature can help to capture the moments of critical incidents. When enabled, long press the video button for 3 seconds to enter pre-record mode.
Post-record Time	The post-record feature can prolong the recording time.
Realtime Video Resolution	The resolution and frame rate of remote transmitted video.
Watermark	The watermark content of photos and videos.
Date/Time	The date and time of the RVM. Auto: automatically synchronize time with PC. Manual: manually set the time.
Volume	The volume of the RVM, including button press tone, alert tone, video/audio file playing volume. The higher the level is, the greater the volume will be.
Video Storage Segment	The duration of video storage segment.

Name	Description
	During video recording, if the recording time exceeds the specified segment time, the video will be stored as multiple files. For example, the segment time is set as 5 minutes, the video recording time is 10 minutes, and then the video will be stored as two files.
Language	The display language of the RVM
WLAN Address	The WLAN address of the RVM, it is read-only.
WLAN Mode	The connection mode of the broadband wireless network AP: the RVM works in AP mode and can only be connected by other wireless devices. STA: the RVM works in Station mode and can connect at most 5 wireless devices.
WLAN Name and Password	When the WLAN Mode is set as AP, this parameter is used to set the WLAN name and password of current RVM. When the WLAN Mode is set as STA, this parameter is used to set the WLAN name and password of at most 5 connected RVMs..
BT	The BT switch of the RVM.
BT Name and MAC Address	The BT name and MAC address of the RVM.
Snapshot Resolution	The resolution of snapshot photos.

4.3 Edit Permission of Device Parameters

Name	Admin	User
Screen Off Time	√	√
Record Video Resolution	√	√
Photo Definition	√	√
Photo Quality	√	√
Pre-record Time	√	×
Post-record Time	√	×
Realtime Video Resolution	√	√

Name		Admin	User
Watermark		√	×
Date/Time		√	√
Volume		√	√
Video Storage Segment		√	√
Language		√	√
WLAN Address		×	×
WLAN Mode		√	×
WLAN Name and Password		√	×
BT		√	×
BT Name and MAC Address	BT Name	√ (manage single RVM)	×
	MAC Address	×	×
Snapshot Resolution		×	×



Note

- The symbol “√” indicates the parameter is editable.
- The symbol “×” indicates the parameter cannot be edited.
- For batch setting, the BT information can only be configured in the device information file. When **WLAN Mode** is set to **AP**, the **WLAN Name and Password** cannot be edited.

Abbreviation

Abbreviation	Full Name
RVM	Remote Video Speaker Microphone



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