

AVer PTZ Management

— User Manual —

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For FAQs, technical support, software and user manual download, please visit:

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Download Center: <https://www.aver.com/download-center>

Technical Support: <https://www.aver.com/technical-support>

USA

Download Center: <https://www.averusa.com/education/support>

Technical Support: <https://averusa.force.com/support/s/contactsupport>

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Overview

AVer PTZ Management is a software that allows you to manage and control multiple AVer devices through the network. You can update, setup or group the connected devices anywhere as long as the network is available.

System Requirements

- CPU: Intel® Core™ i5 CPU or greater
- RAM: 4 GB
- Free Storage Space: 10 GB
- Network Card: 100/100 Mbps
- OS: Windows® 10, 11 (64 bits)

Supported AVer Devices

Professional Tracking Cameras

- Single Lens

V3	V2		V1	
	USA	Outside USA	USA	Outside USA
TR211	TR311HWV2	PTC310HWV2	TR310	N/A
TR315	TR313V2	PTC310UV2	TR311	PTC310
TR315N	TR333V2	PTC330UV2	TR311HN	PTC310N
TR335	TR323V2	PTC320UV2	TR313	PTC310U
TR335N	TR323NV2	PTC320UNV2	TR331	PTC330
			TR333	PTC330U

- Dual Lenses

V2	V1	
	USA	Outside USA
TR535	TR530+	PTC500+
TR535N	TR320+	PTC115+
TR525		
TR525N		

Professional PTZ Cameras (Do not support human tracking.)

V2	V1
PTZ330UV2	PTZ330
PTZ330UNV2	PTZ330N
PTZ310UV2	PTZ330W
PTZ310UNV2	PTZ310
PTZ231	PTZ310N
PTZ211	PTZ310W

Medical PTZ Cameras

MD330U
MD330UI

Conferencing Cameras

CAM520 Pro3
CAM550
CAM570

Distance Learning Cameras

DL30

DL10

Matrix Tracking Boxes

MT300 (Firmware 0.0.0000.46 or later)

MT300N (Firmware 0.0.0000.46 or later)

Ceiling Speakerphone

FONE700 (Firmware 0.0.8300.38 or later)

Install AVer PTZ Management

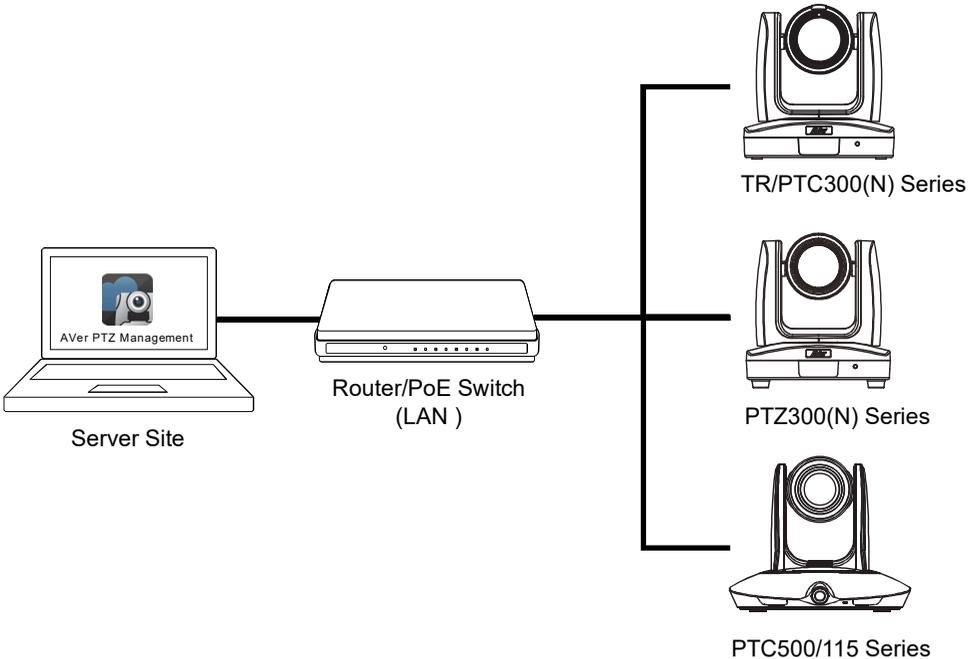
1. Download AVer PTZ Management to your computer from AVer Download Center.
(<https://www.aver.com/download-center>).

Note: The installer bundles AVer PTZ Management and DeviceUtility, a software that lets to search for devices on the same local area network (LAN), access device web interface, and configure device network settings.

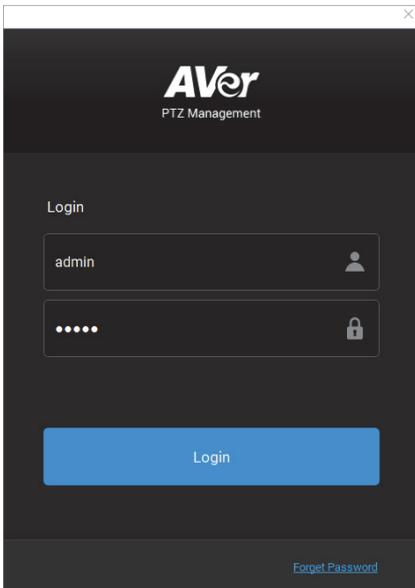
2. Double-click the downloaded .exe file.
3. Follow the instructions to install AVer PTZ Management.

Hardware Connection

If your device and the computer running AVer PTZ Management are not on the same LAN, set your server IP address to public.



Log In



1. Launch AVer PTZ Management .

Note: The recommended monitor resolution is 1920x1080. To adjust resolution, go to **Setup > System > Adjust Resolution**.

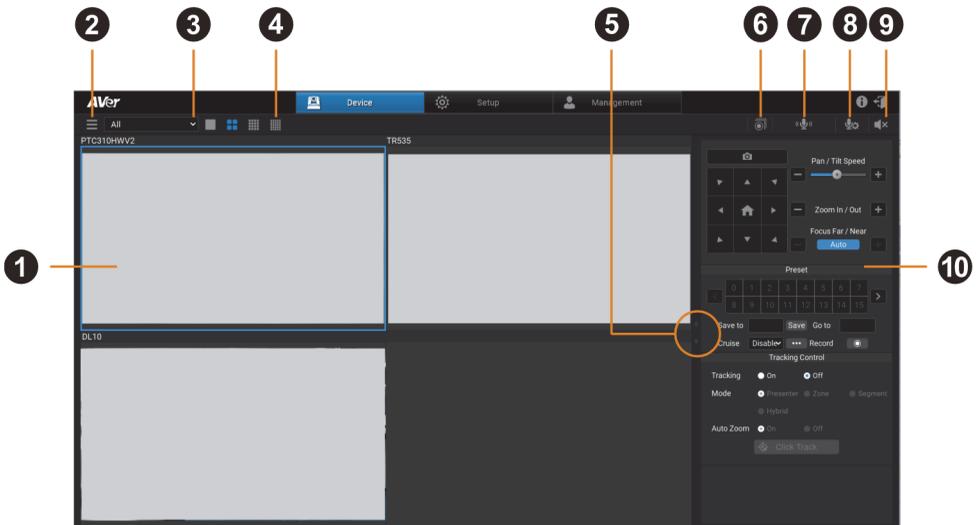
2. Enter the default username and password **admin/admin**.
3. For first-time login, enter your email address for system notifications.

Interface

AVer PTZ Management includes the following pages:

- **Device:** Control connected devices and display device live views.
- **Setup:** Add devices or group connected devices.
- **Management:** Create a cruise, configure recording settings, send system notifications, update firmware, factory reset, or schedule to power on, off, and reboot.

Device



1. Live View

- Click to select a device.
- Double-click on a 4-, 16-, or 25-grid to go full screen. Double-click again to return to grid.

2. Device List

Displays added devices.

3. Device Group

Select a group to display all device live views.

4. Layout Grid

Click to select a layout grid.

5. Page Turn Button

Turn the layout pages forward or backward.

6. Group Record

7. Two-Way Audio (supported models)

Click and hold to record and send audio messages.

8. Mic Setting

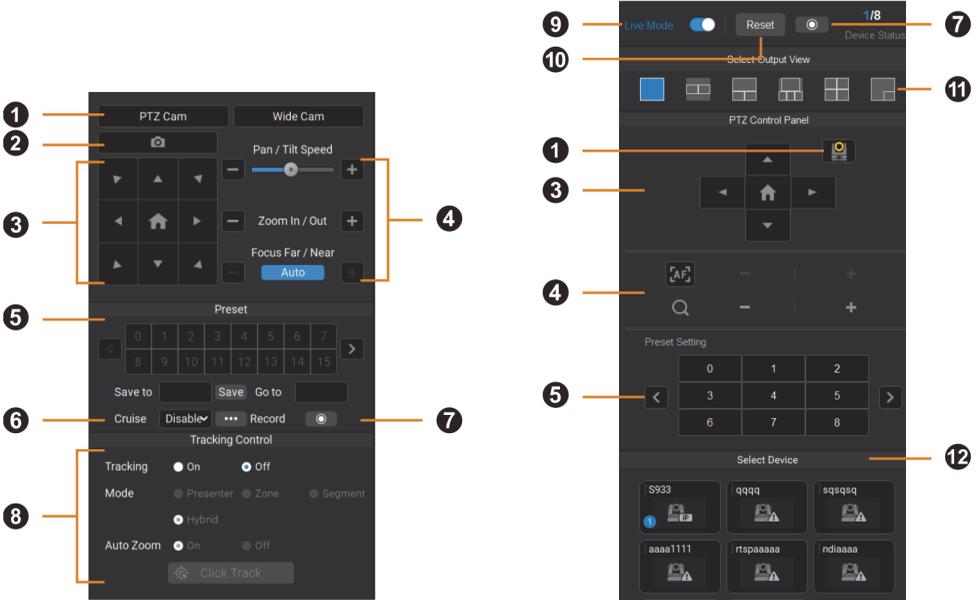
Select a microphone source.

9. Mute/Unmute

10. Control Panel

Control Panel

Click a device live view to select and use the control panel to control the selected device. The selected device will be highlighted with a blue frame.



The control panel interface may vary depending on your model.

1. PTZ Cam and Wide-Angle Cam

Select the live view from the PTZ lens or the wide-angle lens for a dual-lens device.

2. Snapshot

Take a snapshot of the selected device. Images are stored to your local drive. To change where images are stored, go to **Setup > System > Snapshot Folder**.

3. Navigation/Home Buttons

Click the **Home** button to reset the pan-tilt position to the center.

Note:

You can also use turn on **Click to Center** for supported devices:

1. On the device web interface, go to **Video & Audio > Video Mode**, then select **USB +Streaming** or **Stream**.

2. On PTZ Management, select the single-grid live view, then click anywhere on the live view to center the device to that point.

4. Pan-Tilt Speed, Zoom and Focus Controls

5. Preset

- To save a preset:
 1. Click a device live view to select.
 2. Position the device using pan, tilt and zoom controls.
 3. Enter a preset number (0–255) in the **Save to** field and click **Save**.
- To load a preset:

Enter a preset number (0–255) in the **Go to** field and press **Enter** on your keyboard. Or click a preset number.

6. Cruise

Cruise allows the device to automatically move between a series of presets and can be set to pause at each preset for a specific amount of time.

- To create a cruise:
 1. Make sure the required presets have been defined before a new cruise can be created.
 2. Click a device live view to select.
 3. Click the **More options** button **⋮** in the **Cruise** field.
 4. To add a preset, click **Add**. Enter the preset number in the **Go to** field and the amount of time you want the device to stay at this preset in the **Stay time (s)** field.

Note:

Stay time starts counting down when the device leaves the previous preset. You can add a few seconds to account for device travel.

5. To delete a preset, click **Remove**.
6. Click **Save** to save the cruise.
7. On the control panel, select **Enable** from the **Cruise** drop-down list to start cruising or **Disable** to stop cruising.

Note:

- A cruise pauses when the device is offline or stops when the device is deleted from the device list on AVer PTZ Management.
- You can create cruises for multiple devices to run cruises simultaneously.

7. Record

Click to start or stop recording.

Make sure you have selected where videos are stored and specify a storage size before you can record a video. To select where videos are stored and specify a storage size, go to **Management > Recording**.

8. Tracking Control

- **Tracking:** Turn tracking on or off.
- **Mode:** Select a tracking mode to follow the presenter in real time as they move. Make sure you have configured tracking modes on the device web interface.

Mode	TR535(N), TR525(N)	Other Tracking Cameras
Presenter	Frames and follows the presenter on screen.	
Zone	Frames and follows the presenter on screen using up to 4 presets. When the presenter exits the previous preset, the camera will follow and move to the next preset.	
Segment	Lets you define a detection area for each preset. When the presenter enters the detection area, the camera will move to the corresponding preset.	N/A
Hybrid	Combines Presenter Mode and Segment Mode, and lets you define a detection area for each preset. When the presenter enters the detection area, the camera will move to the corresponding preset. When the presenter leaves the detection area, the camera frames and follows the presenter.	Combines Presenter Mode and Zone Mode.

- **Auto Zoom:** Auto Zoom is only available in Presenter Mode and Hybrid Mode. When turned off, the zoom ratio will be based on your selected preset on the device web interface.

- **Click Track:** Switches the presenter you want to track. Click the **Click Track** button to frame everyone on screen in bounding boxes and click to select the presenter you want to track. Selected presenter will be in a red frame.



Note: Click Track is only available in the single-grid live view during Presenter Mode and Hybrid Mode.

9. Live Mode

Toggle on to see live views, change layouts and use pan, tilt, zoom controls. Changes are saved automatically. Toggle off to select defined profiles and turn voice tracking on or off.

10. Reset

Clear Live Mode settings.

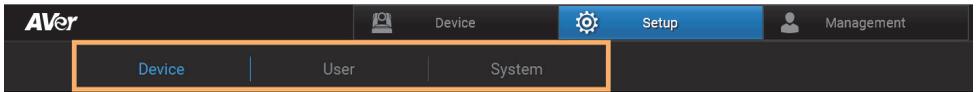
11. Layout

Select a layout.

12. Select Device

Drag and drop a camera icon to a grid.

Setup



The Setup page includes the following tabs:

- **Device:** Add, delete and group devices.
- **User:** Add, edit and delete user account.
- **System:** Configure AVer PTZ Management system settings.

Add a Device

Add devices manually, automatically, via NDI Manager or by importing device data.

Note: To add CAM Series devices, make sure you have enabled **VISCA** and **RTSP** on the device web interface.

- **Manually**

1. Go to **Setup > Device > Add**.
2. Enter device information.

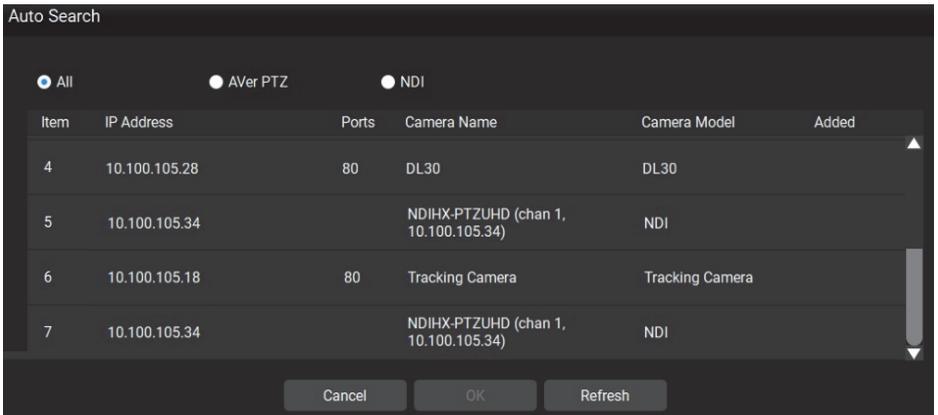
The screenshot shows a dark-themed 'Add Device' form. At the top, there are radio buttons for 'AVer PTZ' and 'NDI', with an 'Auto Search' button to the right. Below this is a text input for 'Device Name'. The 'Device Address' section has radio buttons for 'IP' and 'Hostname'. The form contains several text input fields for 'CGI Ports' (value: 80), 'RTSP Ports' (value: 554), 'RTSP Ports 2' (value: 8554), and 'VISCA Ports' (value: 52381). There are also fields for 'Device Account', 'Device Password', and 'Remarks'. A 'Group' dropdown menu is open, showing three options: 'Group', 'Auditorium', and 'Lecture hall'. At the bottom, there are 'Cancel' and 'Save' buttons.

Item	Description
PTZ Device	Select AVer PTZ or NDI .
Device Name	Enter device name.
Device Address	Select IP or Hostname .
CGI Port	The default port number is 80.
RTSP Port	The default port number is 554 for PTZ lens.
RTSP Port 2	The default port number is 8554 for wide-angle lens on a dual-lens device.
VISCA Port	The default port number is 52381.
Device Account	Enter device username.
Device Password	Enter device password.
Remarks	Enter remarks.
Group	Select a group you want to assign the device to.

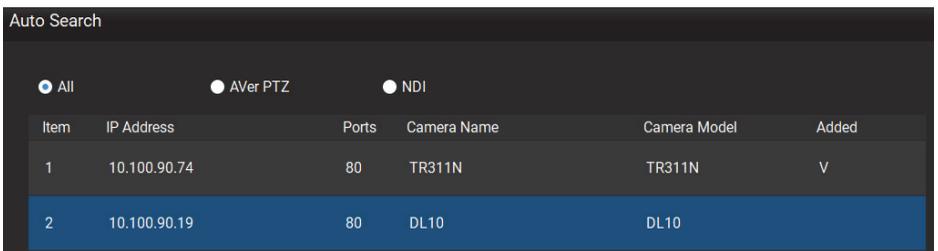
3. Click **Save**.

- **Automatically**

1. Go to **Setup > Device > Add**.
2. Click **Auto Search** to search for devices on the same LAN as the computer running AVer PTZ Management.
3. A list of available devices will appear.



4. Click to select a device. Then click **OK**.



5. Enter device information.

The screenshot shows a dark-themed 'Add Device' form. At the top, there are radio buttons for 'AVer PTZ' and 'NDI', and an 'Auto Search' button. Below are input fields for 'Device Name' and 'Device Address'. The 'Device Address' section has radio buttons for 'IP' and 'Hostname'. Further down are input fields for 'CGI Ports' (value: 80), 'RTSP Ports' (value: 554), 'RTSP Ports 2' (value: 8554), and 'VISCA Ports' (value: 52381). There are also fields for 'Device Account', 'Device Password', and 'Remarks'. A 'Group' dropdown menu is open, showing options: 'Group', 'Auditorium', and 'Lecture hall'. At the bottom are 'Cancel' and 'Save' buttons.

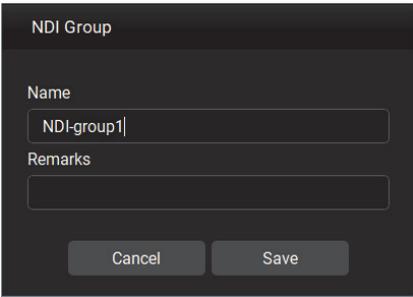
Item	Description
PTZ Device	Select AVer PTZ or NDI .
Device Name	Enter device name.
Device Address	Select IP or Hostname .
CGI Port	The default port number is 80.
RTSP Port	The default port number is 554 for PTZ lens.
RTSP Port 2	The default port number is 8554 for wide-angle lens on a dual-lens device.
VISCA Port	The default port number is 52381.
Device Account	Enter device username.
Device Password	Enter device password.
Remarks	Enter remarks.
Group	Select a group you want to assign the device to.

6. Click **Save**.

- **NDI Manager**

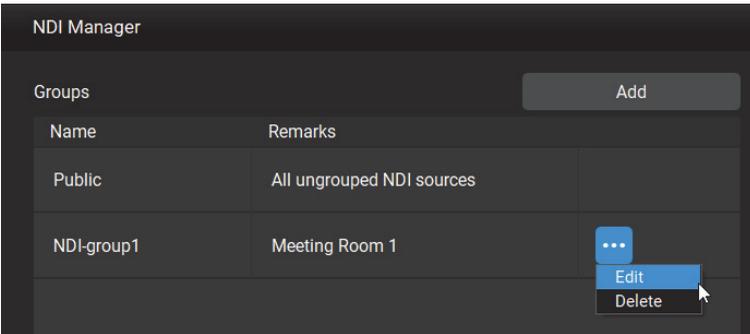
Add AVer and third-party NDI devices using an NDI device name.

1. Make sure you have named the required NDI devices.
2. Go to **Setup > Device > NDI Manager**.
3. Click **Add**, enter the NDI device name, then click **Save**.



The screenshot shows a dark-themed dialog box titled "NDI Group". It contains two input fields: "Name" with the text "NDI-group1" and "Remarks" which is empty. At the bottom, there are two buttons: "Cancel" and "Save".

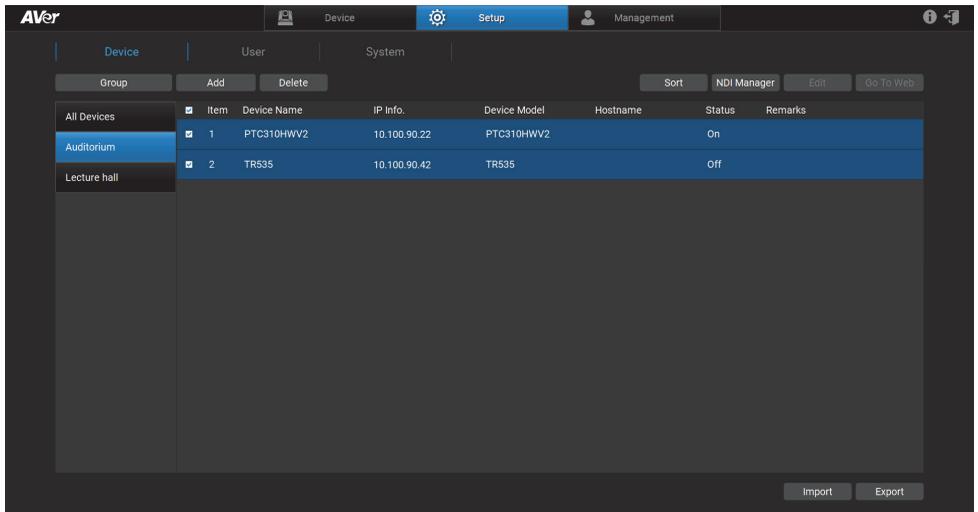
4. To edit or delete a group, click .



The screenshot shows the "NDI Manager" interface. At the top right is an "Add" button. Below it is a table with columns "Name" and "Remarks". The table contains two rows: "Public" with "All ungrouped NDI sources" and "NDI-group1" with "Meeting Room 1". A "More options" menu (three dots) is open for the "NDI-group1" row, showing "Edit" and "Delete" options.

Name	Remarks	
Public	All ungrouped NDI sources	
NDI-group1	Meeting Room 1	 Edit Delete

Export or Import Device Data



Item	Device Name	IP Info.	Device Model	Hostname	Status	Remarks
1	PTC310HWV2	10.100.90.22	PTC310HWV2		On	
2	TR535	10.100.90.42	TR535		Off	

Export and import your device data to exchange between computers or after a software reinstall.

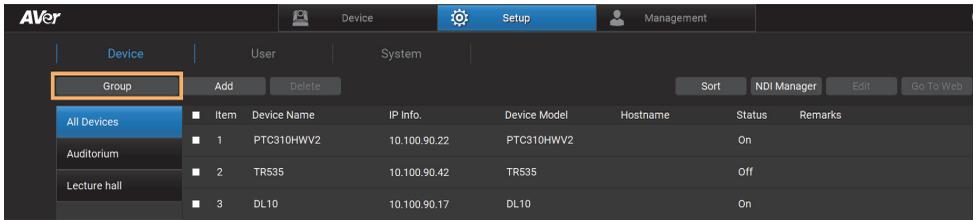
To export:

1. Go to **Setup > Device**.
2. Click **Export**.
3. Select a folder, then click **OK**.

To import:

1. Go to **Setup > Device**.
2. Click **Import**.
3. Select .csv file and click **OK**.

Group Devices



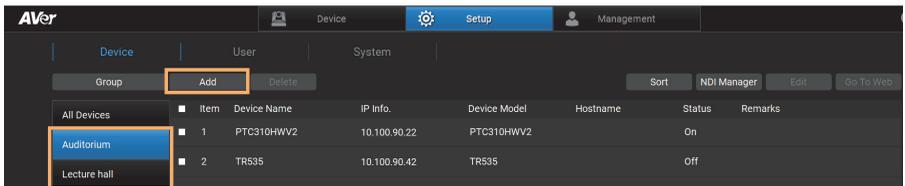
The screenshot shows the AVer software interface with the 'Setup' tab selected. The 'Device' section is active, and the 'Group' button is highlighted. Below it, a table lists device groups and their details.

Group	Add	Delete	Sort	NDI Manager	Edit	Go To Web		
All Devices	<input type="checkbox"/>	Item	Device Name	IP Info.	Device Model	Hostname	Status	Remarks
Auditorium	<input type="checkbox"/>	1	PTC310HWV2	10.100.90.22	PTC310HWV2		On	
Lecture hall	<input type="checkbox"/>	2	TR535	10.100.90.42	TR535		Off	
	<input type="checkbox"/>	3	DL10	10.100.90.17	DL10		On	

1. Go to **Setup > Device**. Make sure you have added devices.
2. To create a group, click **Group**, click **Add** on the pop-up window, enter a name, then click **OK**.

Note: You can create up to 64 groups.

3. To add devices to a group, select a group, then click **Add**.
 - **Add New:** Add a new device.
 - **From the List:** Add an existing device from the device list.



The screenshot shows the AVer software interface with the 'Setup' tab selected. The 'Device' section is active, and the 'Add' button is highlighted. Below it, a table lists device groups and their details.

Group	Add	Delete	Sort	NDI Manager	Edit	Go To Web		
All Devices	<input type="checkbox"/>	Item	Device Name	IP Info.	Device Model	Hostname	Status	Remarks
Auditorium	<input type="checkbox"/>	1	PTC310HWV2	10.100.90.22	PTC310HWV2		On	
Lecture hall	<input type="checkbox"/>	2	TR535	10.100.90.42	TR535		Off	

Sort Devices

Sort Device

Item	Device Name	IP Address	Moving To	Manual Input
1	PTC310HWV2	10.100.90.22	↑ ↓	<input type="text"/>
2	DL10	10.100.90.17	↑ ↓	<input type="text"/>
3	MT300N	10.100.105.56	↑ ↓	<input type="text"/>

Save

To sort devices, do any of the following:

- Click the **Device Name** or **IP Address** header, then click **Save**.
- Click the up or down arrows, then click **Save**.
- Enter sequential numbers starting from 0 or 1 in the **Manual Input** column, press **Enter** on the keyboard, then click **Save**.

Access Device Web Interface

1. Go to **Setup > Device**.
2. Select a device.
3. Click **Go to Web** to open the web interface in your browser.

Add a User

Add, edit or delete user accounts and assign account privileges.

To add users:

1. Go to **Setup > User**.
2. Click **Add**. Enter username, password, email for password recovery, and assign account privilege by selecting a group or a device to grant control.

Add User

User Name: User1

Password: •

Confirm Password: •

E-Mail: user@aver.com

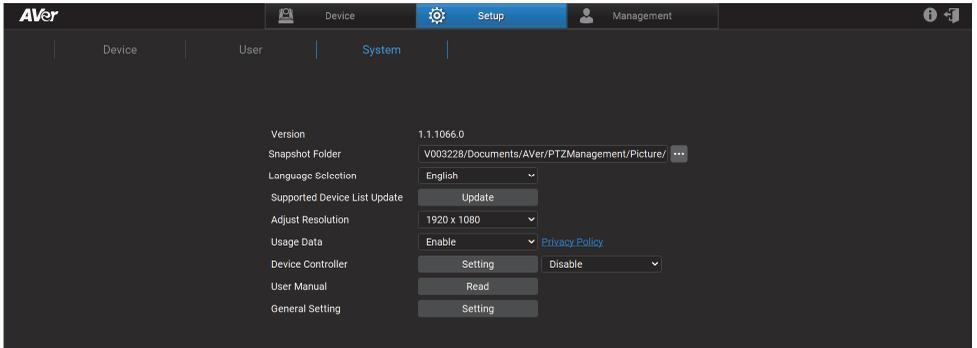
Type: User

<input checked="" type="checkbox"/> Group	<input checked="" type="checkbox"/> Device
<input checked="" type="checkbox"/> Building 9F	<input checked="" type="checkbox"/> TR311N
<input checked="" type="checkbox"/> Building 8F	<input checked="" type="checkbox"/> DL10

Cancel Save

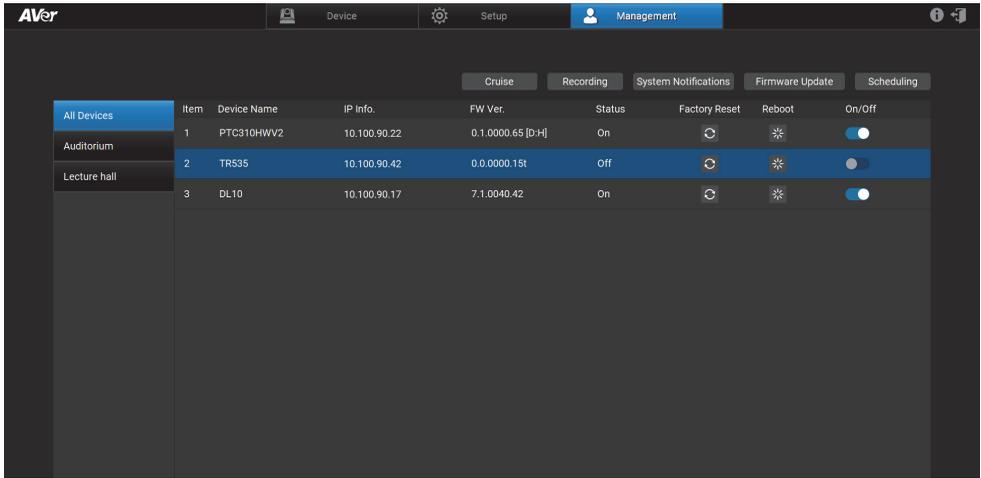
3. Click **Save**.

Configure System Settings



Item	Description
Version	Displays the software version.
Snapshot Folder	Select where images are stored.
Language Section	Select a system language.
Supported Device List Update	Update the list of supported AVer devices for AVer PTZ Management.
Adjust Resolution	Select a monitor resolution. The recommended monitor resolution is 1920x1080
Usage Data	Opt-in or opt-out of providing usage data.
Device Controller	Enable or disable device controller.
User Manual	Click Read to download the user manual.

Management



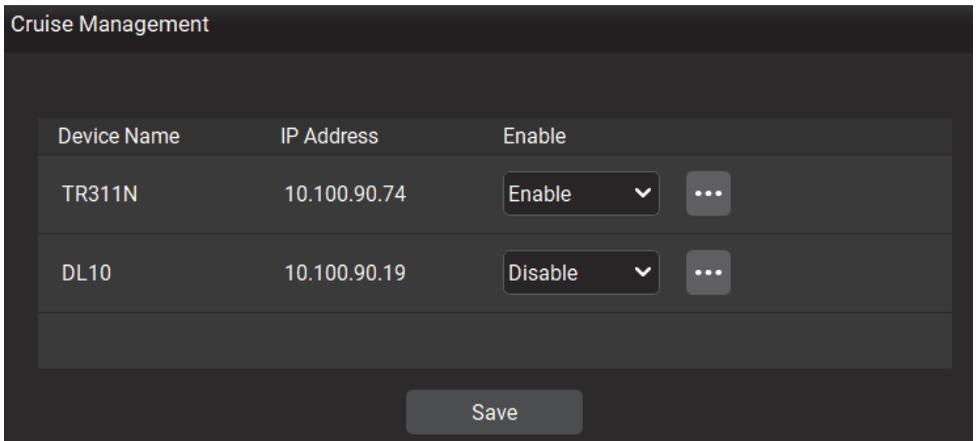
The screenshot shows the AVer PTZ Management web interface. At the top, there are navigation tabs for 'Device', 'Setup', and 'Management'. Below these are sub-tabs for 'Cruise', 'Recording', 'System Notifications', 'Firmware Update', and 'Scheduling'. On the left, there is a sidebar with 'All Devices' selected, and other options like 'Auditorium' and 'Lecture hall'. The main area displays a table with the following data:

Item	Device Name	IP Info.	FW Ver.	Status	Factory Reset	Reboot	On/Off
1	PTC310HWV2	10.100.90.22	0.1.0000.65 [D:H]	On			<input checked="" type="checkbox"/>
2	TR535	10.100.90.42	0.0.0000.15t	Off			<input type="checkbox"/>
3	DL10	10.100.90.17	7.1.0040.42	On			<input checked="" type="checkbox"/>

Note:

- Make sure scheduled devices are connected to a network using an Ethernet cable.
- AVer PTZ Management must be running.
- Turn on **Wake-on-LAN (WoL)** for PTC500+, PTC115, TR530 and TR320.
- To prevent CAM Series from going offline, turn off **Sleep Timer** or select to connect via RTSP on the device web interface.
- Recording, System Notifications, and Scheduling are unavailable for CAM series.

Cruise



Cruise allows the device to automatically move between a series of presets and can be set to pause at each preset for a specific amount of time.

Note:

- Make sure the required presets have been defined before a new cruise can be created.
- A cruise pauses when the device is offline or stops when the device is deleted from the device list on AVer PTZ Management.
- You can create cruises for multiple devices to run cruises simultaneously.

1. Go to **Management > Cruise**.
2. Click **Cruise** to see connected devices.
3. Click the  button for a device.
4. To add a preset, click **Add**. Enter the preset number in the **Go to** field and the amount of time you want the device to stay at this preset in the **Stay time (s)** field.

Note:

Stay time starts counting down when the device leaves the previous preset. You can add a few seconds to account for device travel.

5. To delete a preset, click **Remove**.
6. Click **Save** to save the cruise.

7. To start or stop cruising, do any of the following:

- On the **Cruise Management** window, select **Enable** to start cruising or **Disable** to stop cruising.
- On the control panel, select **Enable** from the **Cruise** drop-down list to start cruising or **Disable** to stop cruising.

Recording

Recording

C:/Users/V003228/Documents/AVer/PTZManagement/Picture ...

Hard Disk Info. (GB)

Capacity 446 Used Space : 250 Free Space : 196 Allocated Space: 1

Device Name	IP Address	Mac Address	Storage Size(GB)	Enable	Cyclical Recording Time
TR535	10.100.91.19	00:18:1A:10:49:0F	0	Disable	5 min
PTC310HWV2	10.100.90.53	00:18:1A:0C:A6:D1	1	Disable	5 min

Save

1. Go to **Management > Recording**.
2. Click the **...** button and select a directory to store videos.
3. Enter a **Storage Size (GB)** for the desired device. Recording will stop when the storage size is reached.
4. To start recording immediately, select **Enable** from the **Enable** drop-down list and click **Save**. Or select **Disable**, and start recording by clicking the **group record** button on the **Device** page or the **record** button the live view control panel.
5. Use **Cyclical Recording Time** to set your device to record a series of 1-, 3-, 5-, or 10-minute videos until the storage is full before deleting the oldest video. It can also be set to **No limit**, which will record until the storage is full before showing an alert.

System Notifications

Add Device to be Notified

Conditions New firmware available Camera lost connection

Send E-mail

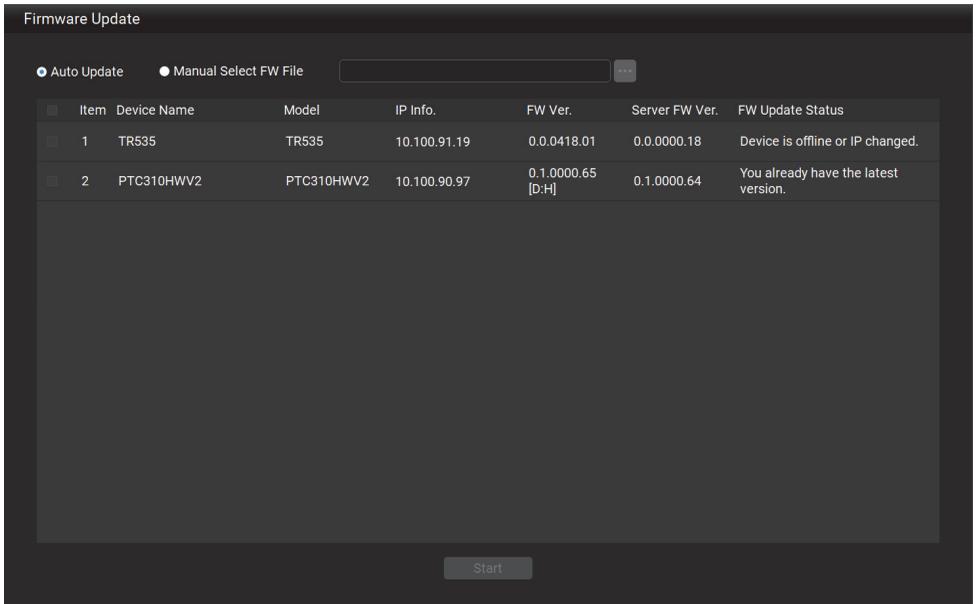
All Group Select Device

Filter Device Name

<input checked="" type="checkbox"/>	Device Name	IP Address	Mac Address
<input checked="" type="checkbox"/>	CAM550	10.100.90.15	00:55:7B:B5:7D:F7
<input checked="" type="checkbox"/>	TR311N	10.100.90.75	00:18:1A:0A:E1:3C

1. Go to **Management > System Notifications > Add**.
2. Select an event you want to be notified of, enter an email address, and select a device.
3. Click **Save** to add a notification:
4. Select from the **Enable** drop-down list to enable or disable notifications on the list.

Firmware Update



1. Go to **Management > Firmware Update**.
2. To update firmware, do any of the following:
 - **Automatically:** Select **Auto Update**, select a device, then click **Start**.
 - **Manually:** Select **Manual Select FW File**, click the **more options** button  to open the firmware folder, select device, then click **Start**.

Note: The device will disconnect and reboot after firmware update. Please wait for AVer PTZ Management to reconnect the device.

Scheduling

Device Control Schedule

Repeat: Every Day Mon. Tue. Wed. Thu. Fri. Sat. Sun.

On Time Reboot Time Off Time

HR MIN : HR MIN : HR MIN

00 00 : 13 00 : 00 00

All Group Select Device

Filter Device Name

<input type="checkbox"/>	Device Name	IP Address	Mac Address
<input type="checkbox"/>	CAM550	10.100.90.15	00:55:7B:B5:7D:F7
<input checked="" type="checkbox"/>	TR311N	10.100.90.75	00:18:1A:0A:E1:3C

Cancel Save

1. Go to **Management > Scheduling > Add Schedule**.
2. Configure the schedule settings and click **Save**.
3. Select from the **Enable** drop-down list to enable or disable your schedule on the list.

Troubleshoot

How many devices can I connect?

AVer PTZ Management can connect up to 256 devices.

No device after auto search.

Make sure your device and the computer running AVer PTZ Management are on the same LAN.

The device status is off.

- Make sure your device and the computer running AVer PTZ Management are on the same LAN. If they are not, make sure the UDP and TCP ports are not blocked by the firewall.

VISCA control port	52381
CGI port	80
RTSP port	554

- Make sure **VISCA over IP** is enabled on the device web interface.

Can't use Click Track.

Click Track is only available in the single-grid live view during Presenter Mode and Hybrid Mode.

I see an IP Conflict message.

An IP conflict suggests that two devices share the same IP address, which may be caused by an error of the DHCP server. Assign a new IP address to your device using DeviceUtility.

Appendix

DeviceUtility

DeviceUtility is installed with AVer PTZ Management and lets you search for devices on the same LAN, access device web interface, and configure device network settings.

The screenshot shows the DeviceUtility application window. At the top, there is a search section for a network device, with a dropdown menu set to 'Intel(R) Ethernet Connection (2) I219-' and a 'Search' button. Below this is a green bar. The main area contains a table with the following data:

No.	Status	Progress	Model Name	Device Name	FW version	IPv4 Address	MAC Address
1	Working		PTC310HWV2	AVer	0.1.0000.65 [D:H]	10.100.90.22	00:18:1a:0c:a6:d1
2	Working		DL10	DL10	7.1.0040.42	10.100.90.17	00:18:1a:0b:36:aa
3	Working		S935	AVer	00.00.00.00	10.100.90.68	00:00:00:00:00:00
4	Working		VB370A	VB370A	0.1.1002.99	10.100.90.23	00:18:1a:31:41:64

Below the table is a 'Setting' section with the following fields:

- Device Name: AVer
- IP Address: 10 . 100 . 90 . 22
- Mask: 255 . 255 . 255 . 0
- Gateway: 192 . 168 . 1 . 254
- Primary DNS: 168 . 95 . 1 . 1
- Secondary DNS: 0 . 0 . 0 . 0

There are radio buttons for 'DHCP' (selected) and 'Static IP'. A 'Login' section has fields for 'User ID' and 'Password'. An 'Apply' button is located at the bottom right of the settings area.

To access the web interface:

1. Launch DeviceUtility.
2. Click **Search** to see available devices on the same LAN.

Note: Your device and the computer running DeviceUtility must be on the same LAN.

3. Double-click on your device's IP address in the **IPv4 Address** column to open the web interface in your browser. For first-time login, you'll be prompted to change the username and password.

When you log in for the first time:

Change the username and password before logging in to the web interface.

- Username: Use 1-32 characters.
- Password: Use 8-32 characters and a combination of uppercase letters, lowercase letters, numbers, and symbols (%+=, -_ ^/ @. ~). The password cannot be the same as the username.

To change your network to DHCP or static IP:

1. Click to select your device.
2. Enter the changed username and password in the **Login** field.
3. Select **DHCP** or **Static IP**, then enter your network settings if applicable in the **Settings** section.
4. Click **Apply**.