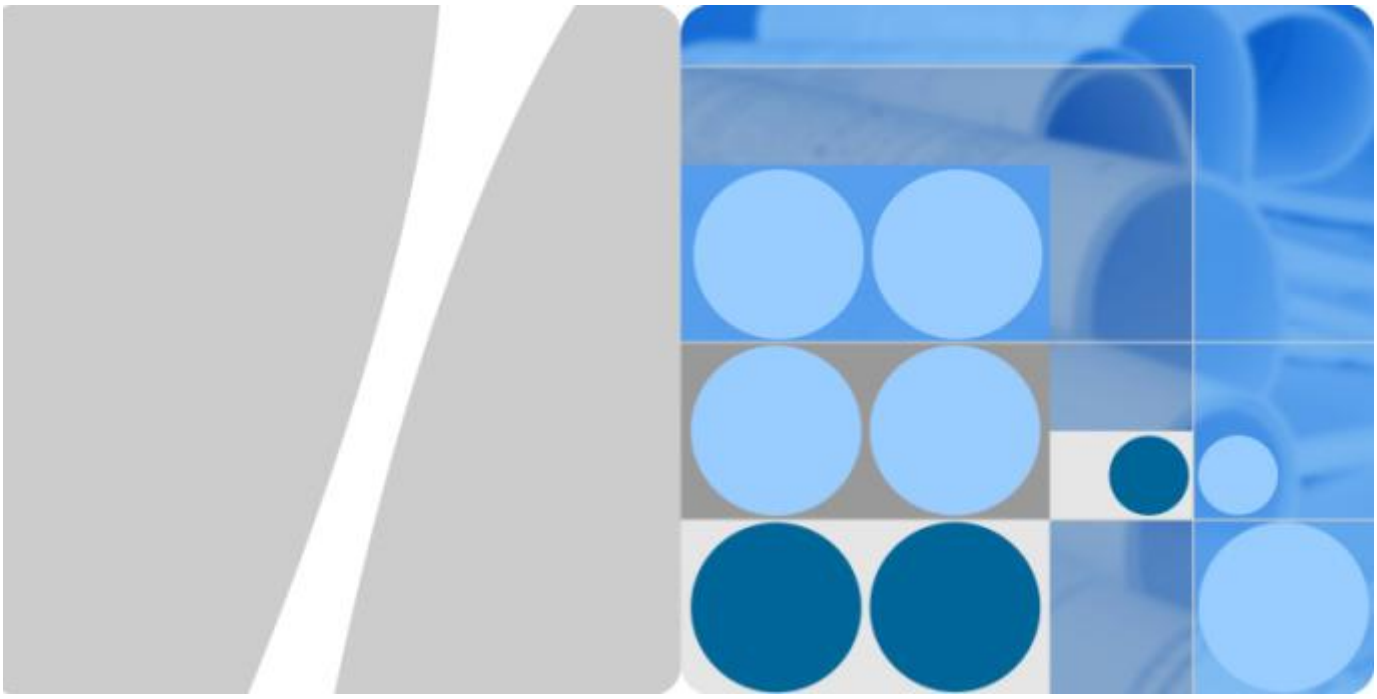

HUAWEI RP Series Telepresence Systems V100R001C04

Install Guide

Issue 01

Date 2013-10-18

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About This Document

Overview

This document mainly describes installation and configuration of the RP series telepresence systems and IMS networks. This document aims to provide guidance through the deployment of serialized RP systems, whether standard or customized.

Intended Audience

This document is strictly for the use of Huawei videoconferencing engineers. Anyone who sends this document to customers or competitors must bear full responsibility for all the consequences arising therefrom.

Symbol Conventions

The symbols that may be found in this document are defined as follows:

Symbol	Description
DANGER	Indicates a hazard with a high level or medium level of risk which, if not avoided, could result in death or serious injury.
WARNING	Indicates a hazard with a low level of risk which, if not avoided, could result in minor or moderate injury.
CAUTION	Indicates a potentially hazardous situation that, if not avoided, could result in equipment damage, data loss, performance deterioration, or unanticipated results.
TIP	Provides a tip that may help you solve a problem or save time.
NOTE	Provides additional information to emphasize or supplement important points in the main text.

Change History

Version	Date	Changed Section	Description	Author
V1.0	2013-06-18		Released the first version.	Liu Guangxing
			Add new TCL TV boot delay mode setting instructions.	Maweifen

Version Mapping Table

RP system version:		
Component	Version	-
TE30	TEX0 V100R001C01B013SP04	-

Distribution History

Copy No.	Owner and Role	Date
1	R&D Test SERVICE	2013-05-06

Contents

1 Product Overview

1.1 RP100-46S

1.1.1 Appearance

Figure 1-1 shows the RP100-46S.

Figure 1-1 RP100-46S

1.1.2 System Components

- TE30 HD videoconferencing endpoint
- 46-inch display (with speakers)
- Integrated support (TV rack and equipment cabinet)
- M220 microphone

- 5-socket PDU

1.1.3 Product Features

- Be highly integrated, neat, and movable.
- Support for round-table conferences with four to six participants.
- Provide a camera that supports PTZ.
- Support the SiteCall function (for conference initiation) and conference control using a remote control on the UI designed by Frog.
- Support one presentation input and display the presentation in Picture-in-Picture (PiP) mode or split-screen mode.
- Provide a physical button to mute the microphone.

1.2 RP200-46S

1.2.1 Appearance

Figure 1-2 shows the RP200-46S.

Figure 1-2 RP200-46S

1.2.2 System Components

- TE30 HD videoconferencing endpoint
- 46-inch display (with speakers)
- Integrated support (TV rack and equipment cabinet)

- M220 microphone
- 5-socket PDU

1.2.3 Product Features

- Be highly integrated, neat, and movable.
- Support for round-table conferences with four to six participants.
- Provide a camera that supports PTZ.
- Support the SiteCall function and conference control using a remote control on the UI designed by Frog.
- Support one presentation input and display the presentation in PiP mode or split-screen mode.
- Provide a physical button to mute the microphone.

1.3 RP100-55S

1.3.1 Appearance

Figure 1-3 shows the RP100-55S.

Figure 1-3 RP100-55S

1.3.2 System Components

- TE30 HD videoconferencing endpoint
- 55-inch display (with speakers)
- Integrated support (TV rack and equipment cabinet)
- M220 microphone
- 5-socket PDU

1.3.3 Product Features

- Be highly integrated, neat, and movable.
- Support for round-table conferences with four to six participants.
- Provide a camera that supports PTZ.
- Support the SiteCall function and conference control using a remote control on the UI designed by Frog.
- Support one presentation input and display the presentation in PiP mode or split-screen mode.
- Provide a physical button to mute the microphone.

1.4 RP200-55S

1.4.1 Appearance

Figure 1-4 shows the RP200-55S.

Figure 1-4 RP200-55S

1.4.2 System Components

- TE30 HD videoconferencing endpoint
- 55-inch display (with speakers)
- Integrated support (TV rack and equipment cabinet)
- M220 microphone
- 5-socket PDU

1.4.3 Product Features

- Be highly integrated, neat, and movable.
- Support for round-table conferences with four to six participants.
- Provide a camera that supports PTZ.
- Support the SiteCall function and conference control using a remote control on the UI designed by Frog.
- Support one presentation input and display the presentation in PiP mode or split-screen mode.
- Provide a physical button to mute the microphone.

2 Deployment Preparation

2.1 Planning

To deploy an RP system, complete the tasks listed in the flowchart shown in Figure 2-1 and ensure that all verification items are passed.

Figure 2-1 Deployment workflow

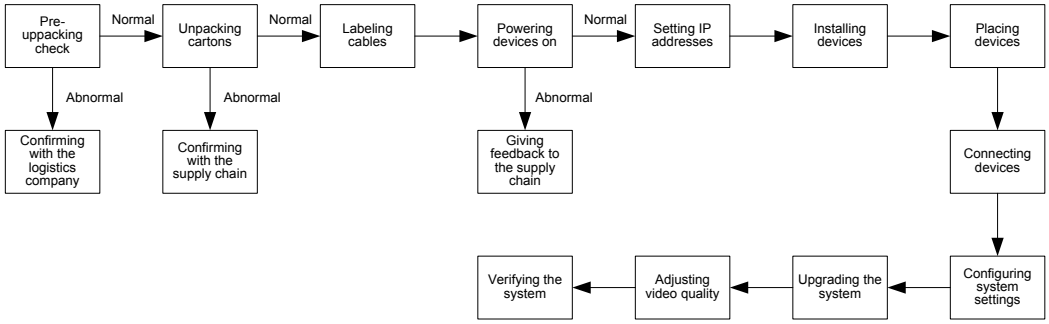


Table 2-1 Deployment steps

Task	Description	Remarks
Pre-unpacking check	Check the equipment cases.	If any exceptions exist, contact the logistics personnel.
Unpacking cartons	Unpack the cartons and check the goods inside.	If any exceptions exist, contact the supply chain personnel.
Labeling cables	Sort and label the cables.	Sort and label the cables according to the system connection diagrams.
Powering devices on	Power the devices on and check whether they operate properly.	-
Setting IP addresses	Set IP addresses for relevant devices.	-

Task	Description	Remarks
Installing devices	Install the devices in the RP system.	-
Placing devices	Place the devices according to the guide diagram.	-
Connecting devices	Connect the devices in the specified order using prepared cables.	-
System upgrade	Upgrade relevant devices.	-
Configuring system settings	Setting parameters according to relevant chapters.	-
Adjusting video quality	Configure video devices.	-

2.2 Tools

Table 2-2 Tools

Tool	Illustration	Model and Specifications	Function
Phillips screwdriver		PH2	Used to install mechanical parts.
Flat-head screwdriver			Used to secure cables connected to the videoconferencing endpoint.
Allen wrench		5 mm (1 pc) 6 mm (1 pc)	Used to adjust mechanical parts of the display.
Diagonal pliers			Used to cut cables and cable ties.
Measuring tape		Length: ≥ 7.5 m	

2.3 Checking Devices

2.3.1 RP100-46S Device List

Table 2-3 Devices of the RP100-46S

No.	Device	Model	Power Supply	Single Device Power Consumption	Quantity	Total Power Consumption	Remarks
1	HD videoconferencing endpoint	TE30	AC 100–240 V, 50/60 Hz	45 W	1	45 W	-
2	HD display	H46F3500G	AC 100–240 V, 50/60 Hz	100 W	1	100 W	-
3	Microphone	VPM220	-	2 W	1	2 W	-
4	Integrated support	-	-	-	-	-	The display rack and equipment cabinet are included.
Total power consumption of the RP100-46S under standard configuration				147 W			

2.3.2 RP200-46S Device List

Table 2-4 Devices of the RP200-46S

No.	Device	Model	Power Supply	Single Device Power Consumption	Quantity	Total Power Consumption	Remarks
1	HD videoconferencing endpoint	TE30	AC 100–240 V, 50/60 Hz	45 W	1	45 W	-
2	HD display	H46F3500G	AC 100–240 V, 50/60 Hz	100 W	2	200 W	-
3	Microphone	VPM 220	-	2 W	1	2 W	-

No.	Device	Model	Power Supply	Single Device Power Consumption	Quantity	Total Power Consumption	Remarks
4	Integrated support	-	-	-	-	-	The display rack and equipment cabinet are included.
Total power consumption of the RP200-46S under standard configuration				247 W			

2.3.3 RP100-55S Device List

Table 2-5 Devices of the RP100-55S

No.	Device	Model	Power Supply	Single Device Power Consumption	Quantity	Total Power Consumption	Remarks
1	HD videoconferencing endpoint	TE30	AC 100–240 V, 50/60 Hz	45 W	1	45 W	-
2	HD display	H55F3500G	AC 100–240 V, 50/60 Hz	130 W	1	130 W	-
3	Microphone	VPM 220	-	2 W	1	2 W	-
4	Integrated support	-	-	-	-	-	The display rack and equipment cabinet are included.
Total power consumption of the RP100-55S under standard configuration						177 W (standard components)	

2.3.4 RP200-55S Device List

Table 2-6 Devices of the RP200-55S

No.	Device	Model	Power Supply	Single Device Power Consumption	Quantity	Total Power Consumption	Remarks
1	HD videoconferencing endpoint	TE30	AC 100–240 V, 50/60 Hz	45 W	1	45 W	-
2	HD display	H55F3500G	AC 100–240 V, 50/60 Hz	130 W	2	260 W	-
3	Microphone	VPM 220	-	2 W	1	2 W	-
4	Integrated support	-	-	-	-	-	The display rack and equipment cabinet are included.
Total power consumption of the RP200-55S under standard configuration				307 W (standard components)			

2.4 Checking Cables

Table 2-7 Cables of an RP system

Type	Description	Part Number	Quantity	Remarks
Customized cable	TE30 composite cable	04050656	1	Standard cable provided with the TE30.
Video cable	VGA-VGA cable	04050165	2	One piece is provided with an RP200 system.
	VGA-VGA cable	04050242	1	Used for presentation input in an RP200 system.
	HDMI-HDMI cable	04050910	1	HDMI extension cable for an RP200 system
Audio cable	DIIVA-DIIVA cable	04050823	1	Provided with the M220.
	3.5 mm-3.5 mm cable	04050404	1	-

Type	Description	Part Number	Quantity	Remarks
Network cable	RJ45-RJ45 cable	04046011	1	-
Power cable	Chinese-standard power cable	04041104	1	-
	1 m power cable	04050206	2	-
	HD display power cable	04043491	2	One piece is provided with an RP100 system.
	5-socket PDU	14190404	1	-

2.5 Powering Devices On

After unpacking cartons, check whether any devices are dead on arrival (D.O.A). If any D.O.A device is found, protect the site and take a picture for the record and immediately contact the supply chain personnel. Table 2-8 describes the devices need to be powered on for inspection and their qualification criteria.

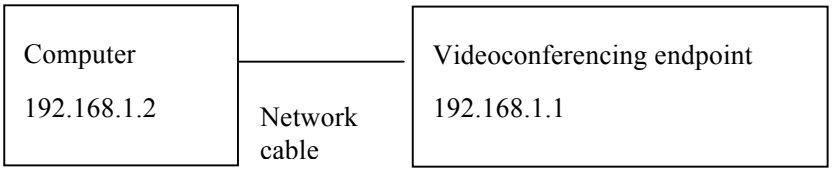
Table 2-8 Devices to be powered on

Device	Qualification Criteria
HD display	The HD displays are powered on properly, and HDMI and VGA video sources are displayed without artifacts.
HD videoconferencing endpoint	The remote control UI of the videoconferencing endpoint is displayed on the HD display.
HD camera	The images collected by the HD camera are displayed on the HD display.

2.6 Setting IP Addresses for the HD Videoconferencing Endpoints

Step 1 Connect a computer directly to the HD videoconferencing endpoint whose IP address needs to be modified. Change the computer's IP address to be in the same network segment as that of the videoconferencing endpoint's default IP address **192.168.1.1**.

Figure 2-2 Connecting the computer to the videoconferencing endpoint

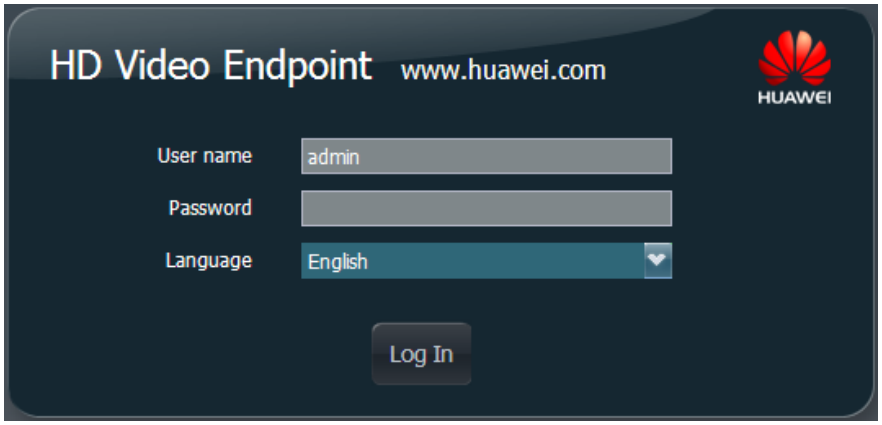


Step 2 Connect the videoconferencing endpoint's standard power adapter to a power supply. Set the power switch on the videoconference endpoint to ON so that the videoconferencing endpoint automatically starts after it is powered on.

Step 3 Log in to the videoconferencing endpoint's web interface.

By default, both the user name and password are **admin**.

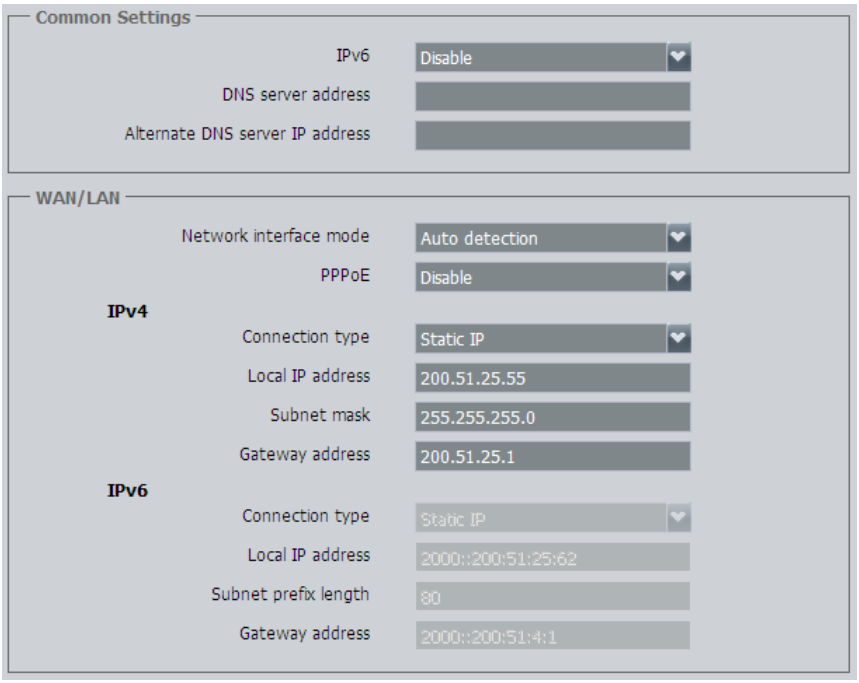
Figure 2-3 Login page



Step 4 Choose **System Settings** > **Network** > **IP** and set the parameters.

The TE30 supports IPv4 and IPv6. Choose one based on the actual network environment.

Figure 2-4 IP settings



----End

Table 2-9 IP settings

Parameter		Default Value	Remarks
Common Settings	IPv6	Disable	Recommended value.
	DNS server address	-	Set this parameter based on the actual network environment.
	Alternate DNS server IP address	-	Set this parameter based on the actual network environment.
WAN/LAN	Network interface mode	Auto detection	Recommended value.
	PPPoE	Disable	Recommended value.
	IPv4		
	Connection type	Static IP	Recommended value.
	Local IP address	200.51.25.55	Set this parameter based on the actual network environment.
	Subnet mask	255.255.255.0	Set this parameter based on the actual network environment.

	Gateway address	200.51.25.1	Set this parameter based on the actual network environment.
	IPv6		
	Connection type	Static IP	-
	Local IP address	-	-
	Subnet prefix length	-	-
	Gateway address	-	-

3 Installation

Table 3-1 lists HUAWEI RP C04 series telepresence systems.

This document uses the RP100-46S and RP200-46S as examples. The RP100-46S comes with one HD display as standard. The RP200-46S comes with two HD displays as standard. "46" indicates the size of an HD display in inches.

Table 3-1 HUAWEI RP C04 series telepresence systems

Telepresence System Model	Short Name	HD Display ID	Number of HD Displays
HUAWEI RP100-46S	RP100-46S or telepresence system	1	1
HUAWEI RP100-55S	RP100-55S or telepresence system	2	1
HUAWEI RP200-46S	RP200-46S or telepresence system	1	2
HUAWEI RP200-55S	RP200-55S or telepresence system	2	2

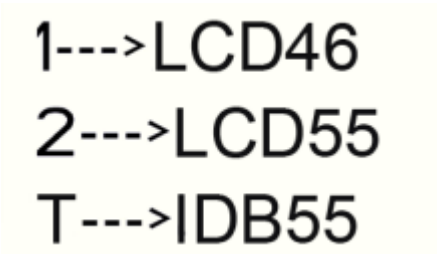
The RP C04 series telepresence systems provide HD displays in two sizes: 46 inches and 55 inches. Before installing a telepresence system, check which size of HD display you have.

Each size of HD displays has a different ID. For details, see Figure 3-2. The installation method for each HD display varies slightly depending on the model, while the installation methods for the other telepresence system components remain similar.

NOTE

You can find the mapping table for the HD display sizes and IDs on the horizontal bars of the mounting support.

Figure 3-2 Mapping table for HD display models and their IDs



Unless otherwise specified, the left and right sides mentioned in this document are the directions as you face the HD display. Figure 3-3 and Figure 3-4 show the device positioning for RP100 and RP200 series telepresence systems.

Figure 3-3 RP100 telepresence system

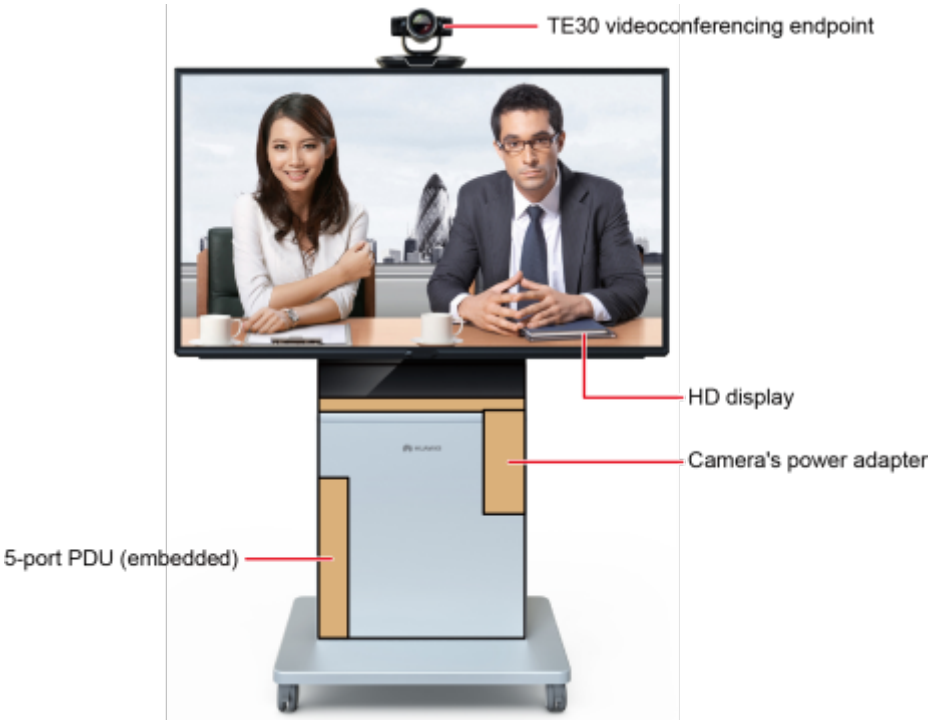
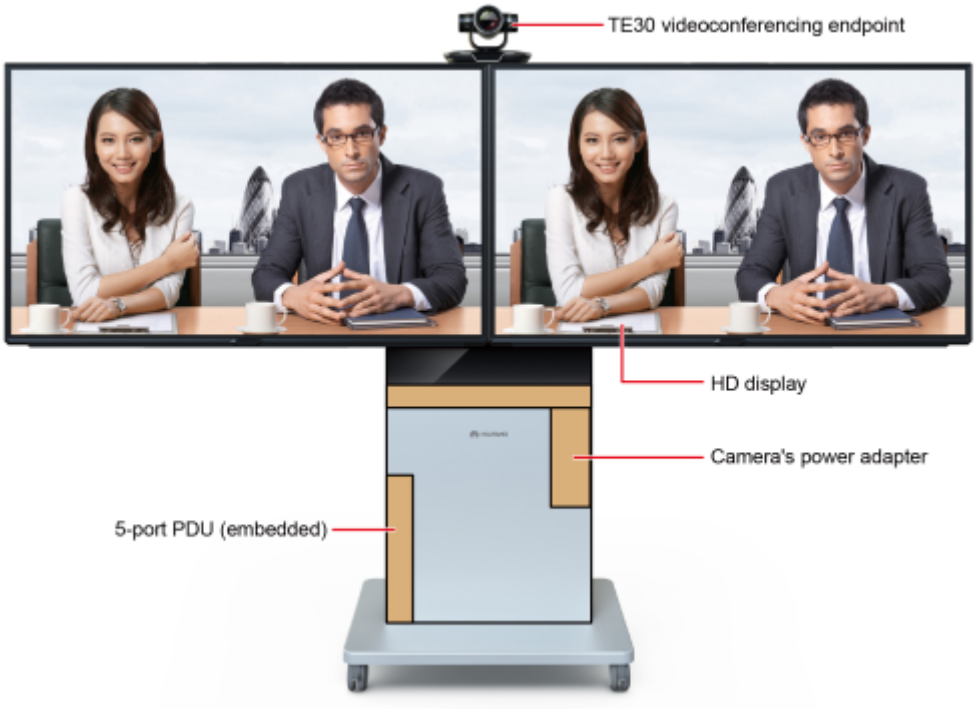


Figure 3-4 RP200 telepresence system



3.2 Installation Tools

Table 3-2 lists the tools required for installing the telepresence system.

NOTE

- Illustrations listed in Table 3-2 are for your reference only.
- The pre-packaged installation tools can be found in the support packing case.

Table 3-2 Installation tools

Name	Illustration	Quantity	Specifications and Functions
M10 open-end wrench		1	Pre-packaged with the telepresence system. This wrench is used to adjust the wheel height.
M6 Allen wrench		1	Pre-packaged with the telepresence system.
M8 Allen wrench		1	Pre-packaged with the telepresence system.
Phillips screwdriver		1	Not included with the telepresence system. Prepare it based on your needs.

Name	Illustration	Quantity	Specifications and Functions
Diagonal pliers		1	Not delivered with the telepresence system. Prepare it based on your needs. This tool is used to cut cables and straps.
ESD gloves		2	Not delivered with the telepresence system. You are advised to prepare it for safety purposes.

3.3 Installing the Rack

There are two types of racks: wheel and free standing. The wheel rack is delivered for all models. This document uses the wheel rack as an example.

3.3.1 Removing Fasteners from the Packing Case

CAUTION

Before unpacking the cartons, clean up the installation site to protect the devices from being scratched.

Step 1 Remove the packing straps using diagonal pliers or scissors.

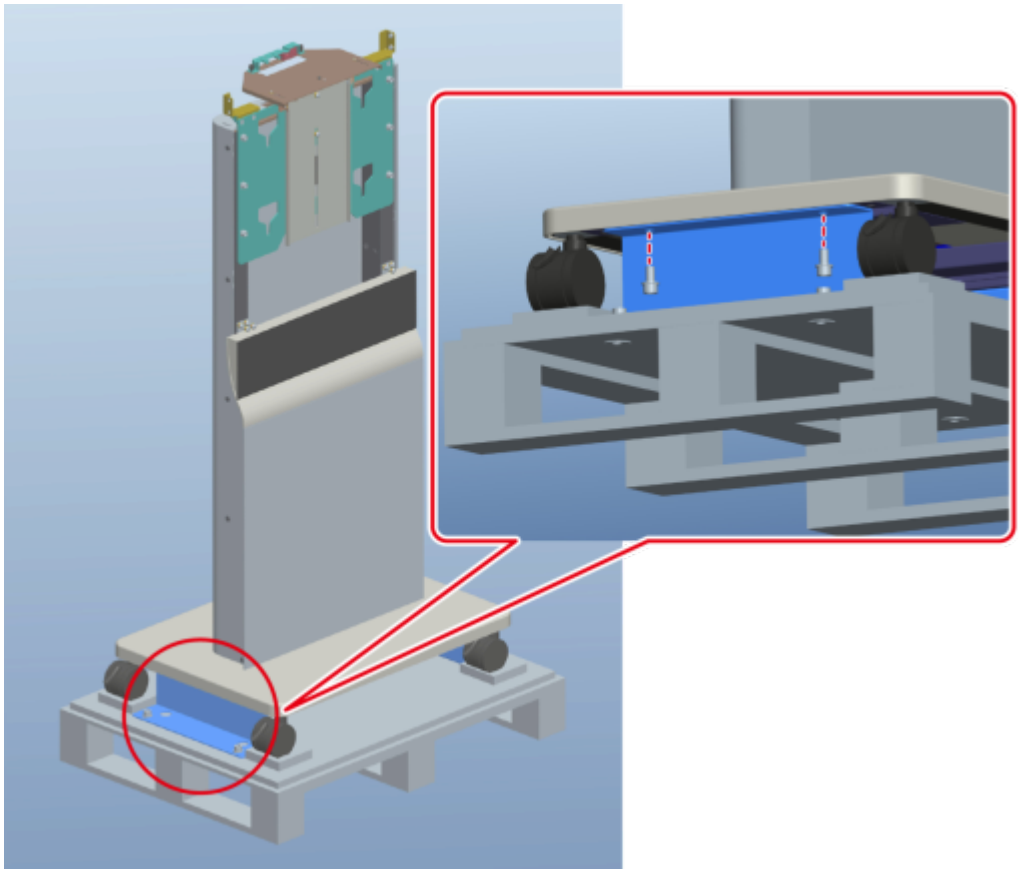
Step 2 Take off the carton cover.

Step 3 Remove the three screws from the carton using a Phillips screwdriver, as shown in Figure 3-5.

Figure 3-5 Carton

Step 4 Unpack the carton. Then, use an H6 Allen wrench to remove the four M8 hex socket screws from the top of the fasteners on the left and right of the packing case, as shown in Figure 3-6.

Figure 3-6 Removing fasteners from the packing case



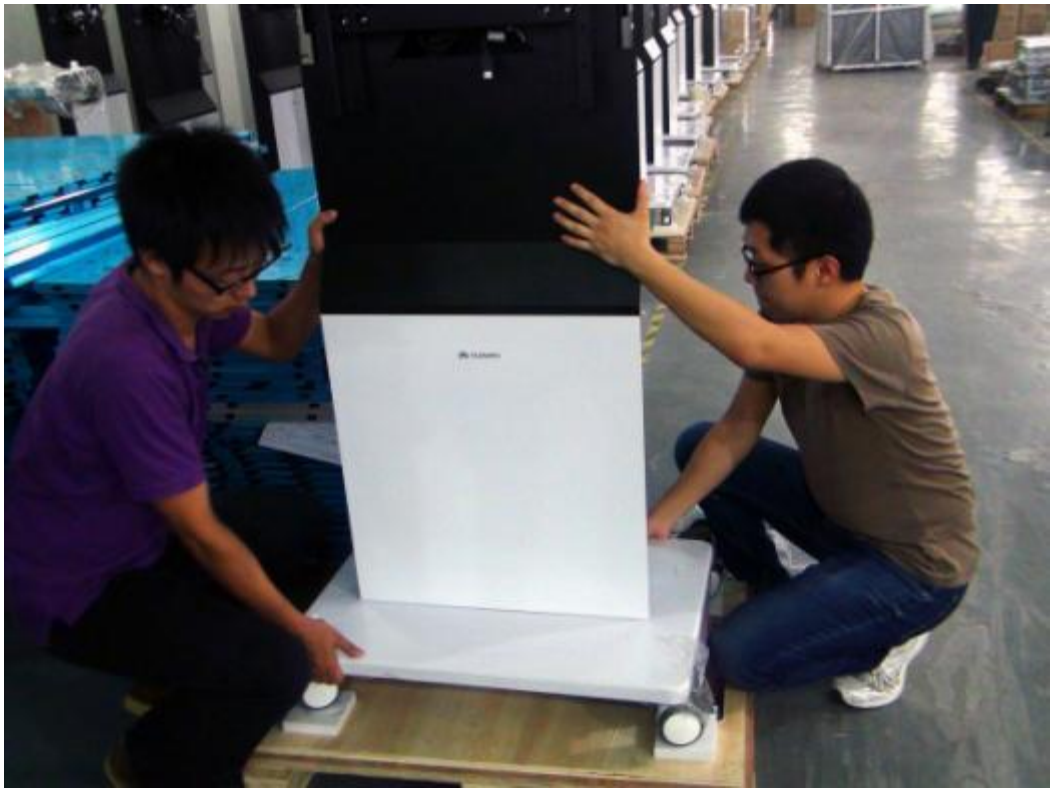
Step 5 Take out the rack and place it in an appropriate position in the conference room.

For details about where you can place the rack, see the *Standard Document to the Decoration of Huawei RP Series Telepresence Conference Room*.

DANGER

The rack is heavy. At least two persons are required to hold and move it. When lifting or moving the rack, pay special attention to your safety. Use one hand to hold the rack base and the other hand to hold one side of the rack, as shown in Figure 3-7. Ask your partner to hold the rack in the same way on the other side. Lift the rack and move it to the left or right to prevent it from being blocked by the fasteners.

Figure 3-7 Holding and moving the rack



----End

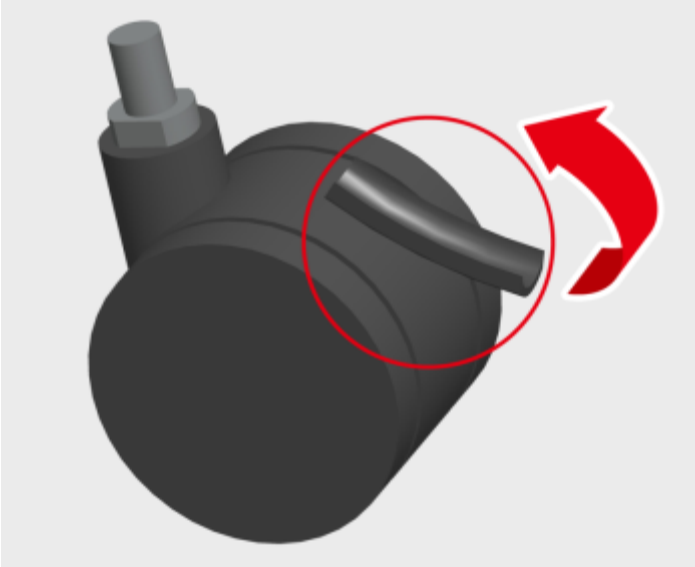
3.3.2 Wheel Rack

If the wheel rack is to be used, you do not need to make any preparation for the installation.

CAUTION

The wheels are locked before delivery. To move the rack, toggle the wheel lock upward, as shown in Figure 3-8.

Figure 3-8 Toggling the pulley lock



3.3.3 Free Standing Rack

Step 1 Loosen the four wheels from the rack.

Step 2 Remove the wheels using an open-end wrench.

Figure 3-9 Wheel

----End

3.4 Adjusting the Camera Mounting Bracket

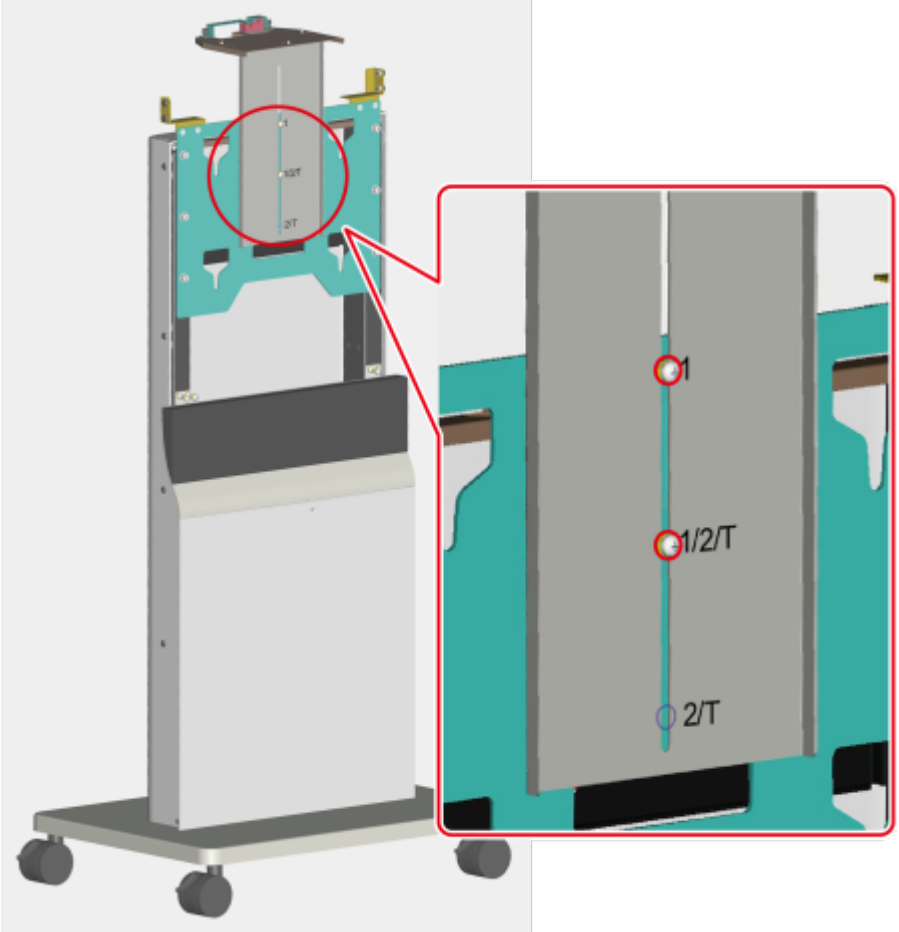
CAUTION

Before adjusting the camera mounting bracket, ensure that the wheel locks are toggled down if a wheel rack is used.

Step 1 Align the silkscreen holes corresponding to the HD display size with the rack fixing holes.

- If you are using a 46-inch HD display, align the holes silk-screened with 1 and 1/2/T with the rack fixing holes, as shown in Figure 3-10.
- If you are using a 55-inch HD display, align the holes silk-screened with 1/2/T and 2/T with the rack fixing holes.

Figure 3-10 Adjusting the rack



Step 2 Tighten the screws using a Phillips screwdriver to secure the camera mounting bracket.

----End

3.5 Installing the HD Display

Before installing the HD display, ensure that it can be powered on and that the video source can be switched without artifacts.

Pay attention to the following items when installing the HD display:

- The left and right sides of the HD display support are defined when you stand with your back towards the HD display.
- To prevent the screen from being scratched, clean up the installation site and ensure that there are no obstacles or sharp items around the HD display.
- Assemble the HD display support first. Then install the HD display on the support.

DANGER

The HD display is too large for one person to lift. When lifting the HD display, ensure that you are doing so safely and with a correct lifting technique.

3.5.1 Types of HD Display Supports

Table 3-3 lists two types of HD display supports, each supporting a specific HD display. The correct support is delivered with your HD display.

Table 3-3 Types of HD display supports

Type	Components
Single-screen HD display support (for the RP100)	Four frames, as shown in Figure 3-11.
Dual-screen HD display support (for the RP200)	Left and right HD display supports and bridging pieces, as shown in Figure 3-12.

Figure 3-11 Single-screen HD display support

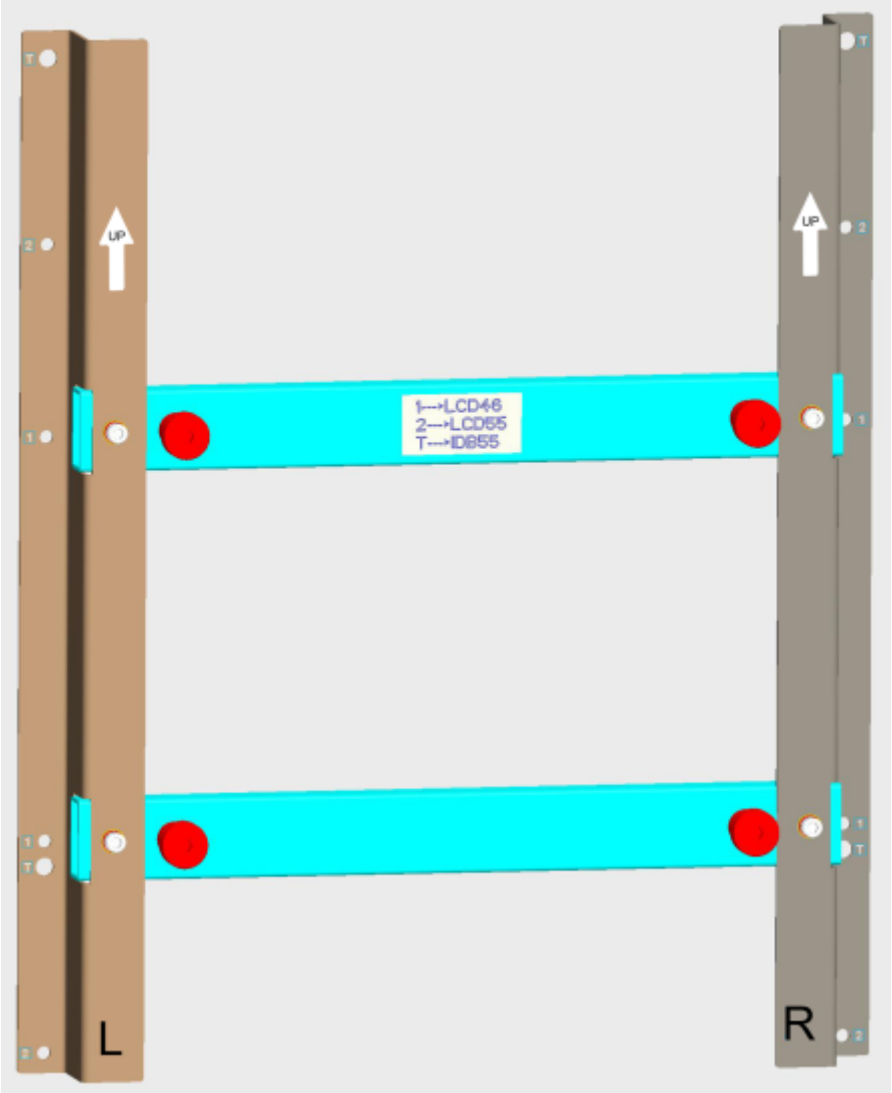
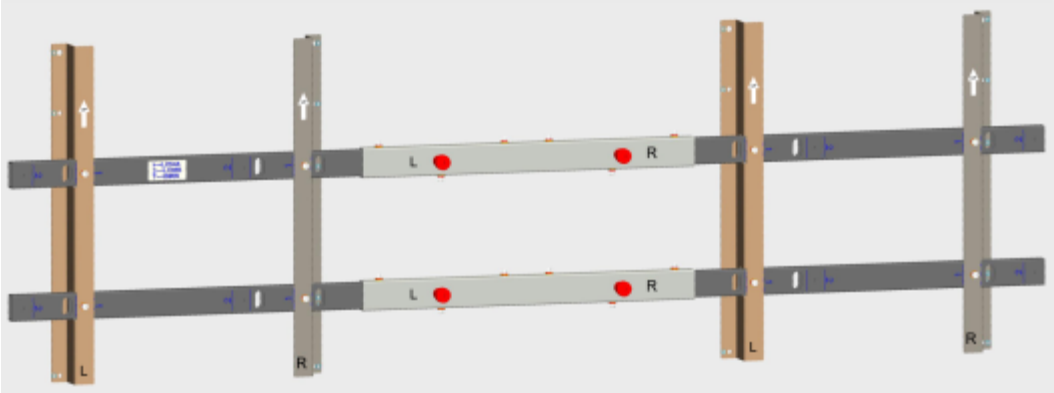


Figure 3-12 Dual-screen HD display support



3.5.2 Adjusting the HD Display Support

CAUTION

- If you are using an RP100-46S or RP100-55S, you do not need to adjust its support.
- When adjusting the support, only partially tighten the screws. Tighten the screws after the HD display is fully installed.

To adjust the HD display support for the RP200-46S and RP200-55S, perform the following steps:

NOTE

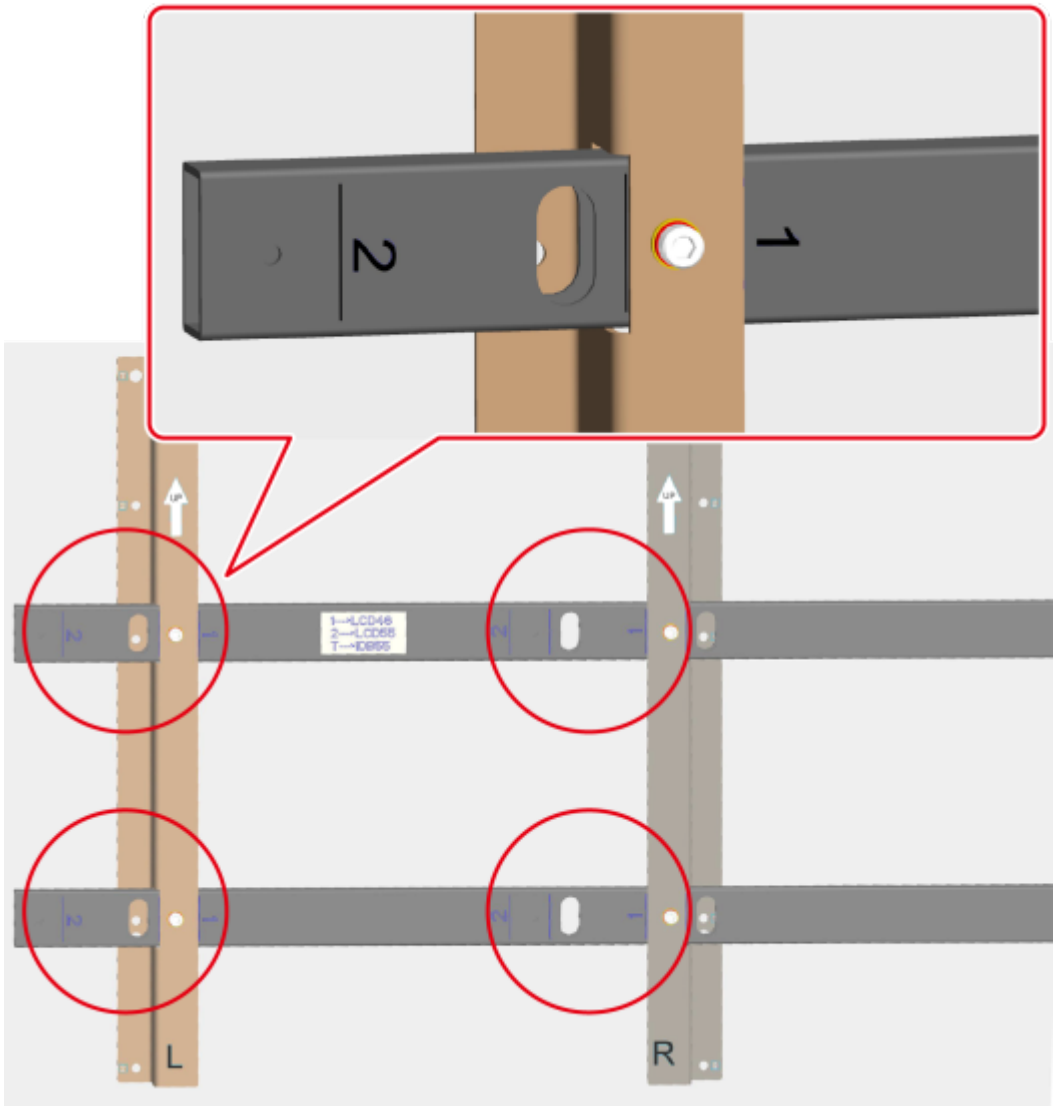
- Before the support is delivered, screws are fastened in the holes silk-screened with 3. When using HD display 3, you do not need to adjust the support.
- The left and right sides of the dual-screen HD display support are symmetrical. Therefore, the methods for adjusting the two sides are the same. The following section uses the left side of the support as an example.

Step 1 Remove the screws and washers using an H5 Allen wrench.

Step 2 Partially tighten the screws at the HD display support joints in the holes silk-screened with the number that matches the HD display you are using.

- If you are using an RP200-46S, you do not need to adjust the support, as shown in Figure 3-13.
- If you are using an RP200-55S, align the holes on the horizontal bars with the holes silk-screened with 2 on the L and R bars.

Figure 3-13 Adjusting the HD display support



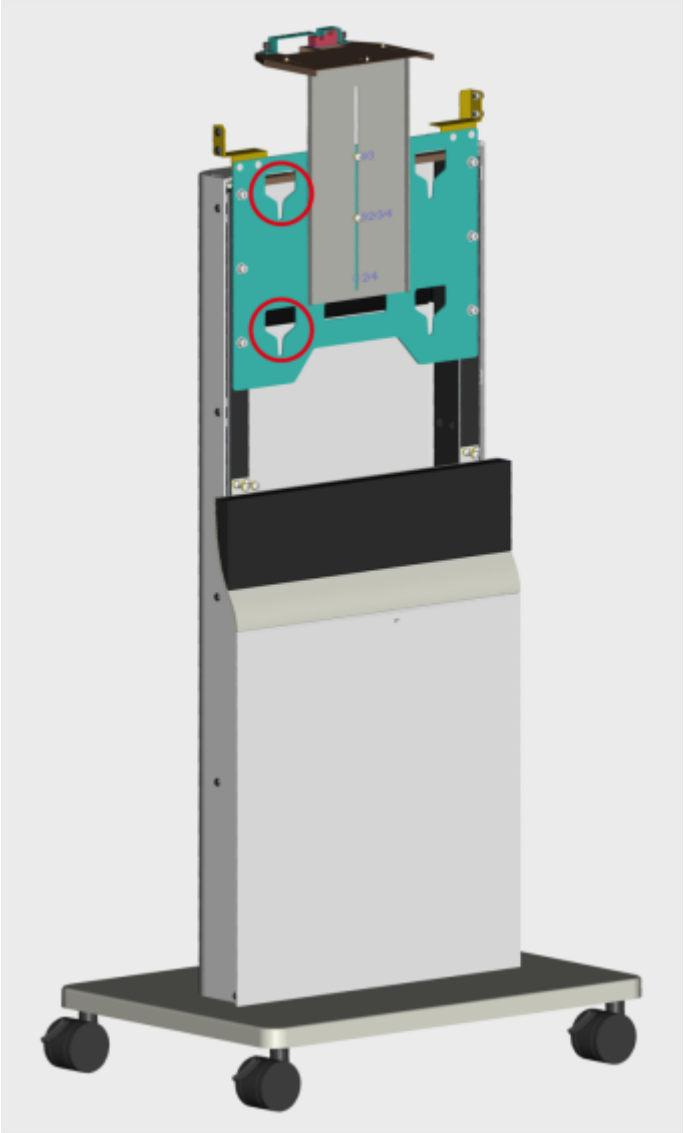
----End

3.5.3 Installing the RP100 HD Display

CAUTION

Before installing the RP100 HD display, remove the cables temporarily from the locations marked with a red circle shown in Figure 3-14. Keep the cables for later use.

Figure 3-14 Locations from which cables must be removed temporarily



Step 2 Lay a soft cushion on the ground. Place the HD display on the cushion with its screen facing down.

Step 3 Remove the four screws on the back of the HD display using a Phillips screwdriver.

Step 4 Keep the direction of the arrows on the support pointing towards the top of the HD display. Place the support on the rear of the HD display.

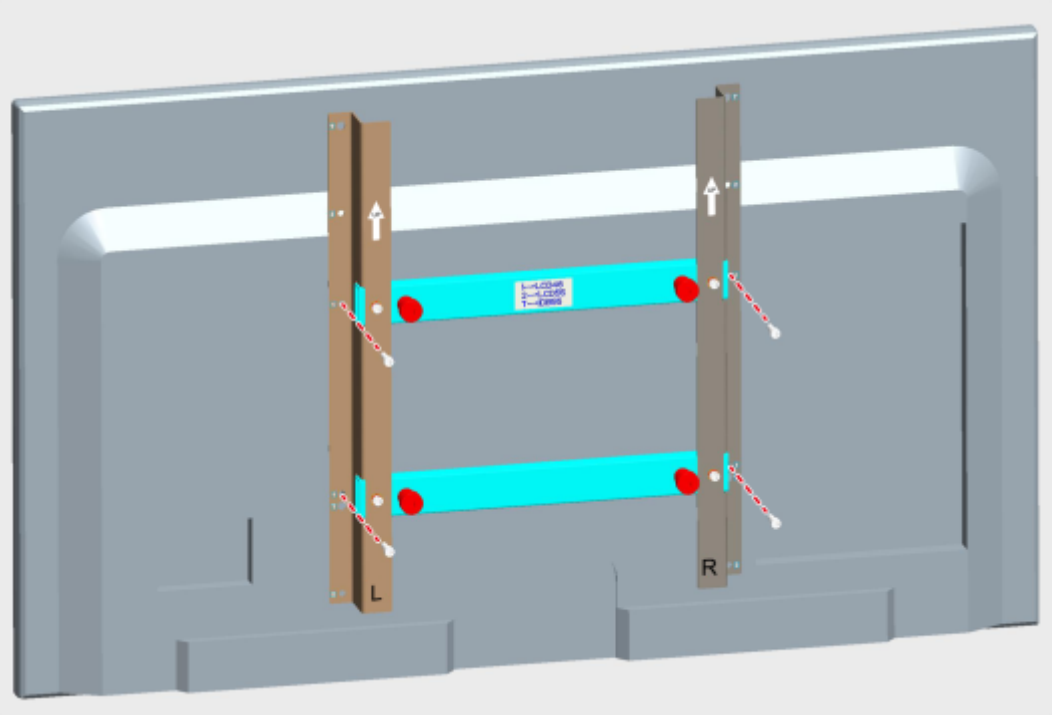
Step 5 Align the HD display holes with the holes silk-screened with the number that matches the HD display size on the L and R bars.

NOTE

- If you are using a 46-inch HD display, align the HD display holes with the holes silk-screened with 1 *on the L and R bars*.
- If you are using a 55-inch HD display, align the HD display holes with the holes silk-screened with 2 on the L and R bars.

Step 6 Fasten the four M6 x 20 socket-head cap screws using an H5 Allen wrench to securely attach the support to the rear of the HD display, as shown in Figure 3-15.

Figure 3-15 Installing the support

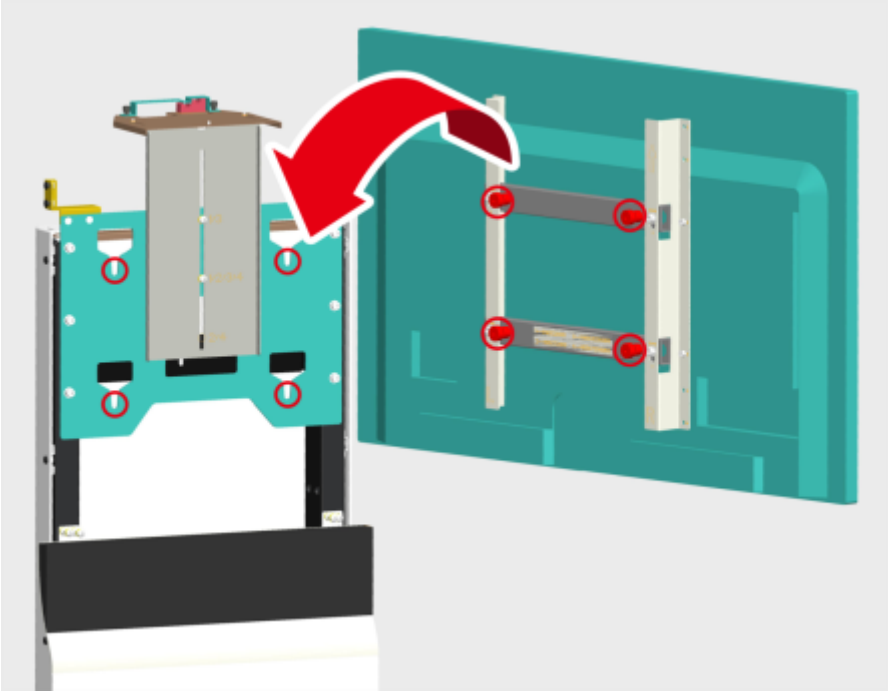


CAUTION

Before you move and lift an HD display, ensure that all the screws on its support are securely fastened.

Step 7 Attach the HD display to the rack by fastening the screws on the rear of the HD display into the corresponding holes on the rack, as shown in Figure 3-16.

Figure 3-16 Attaching the HD display to the rack



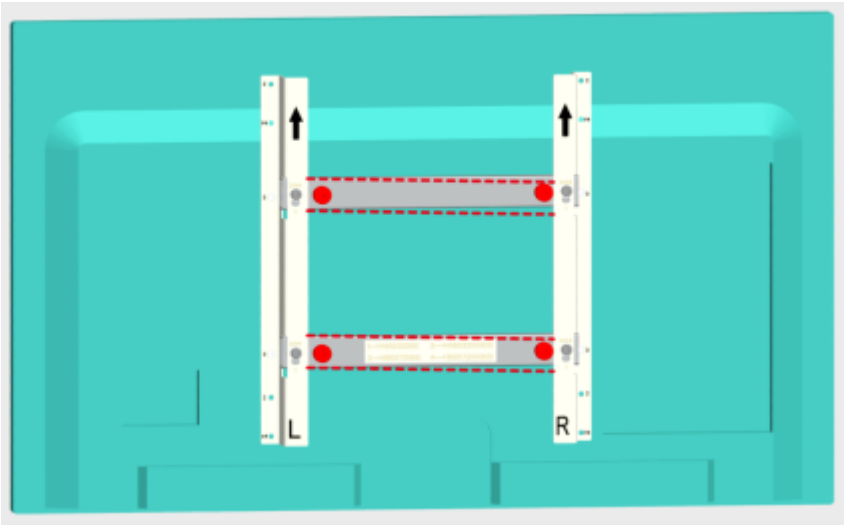
Step 8 Connect the power and other cables to the HD display.

For details about cable connections, see the *HUAWEI RP V100R001C04 Series Telepresence System Connection Diagrams*.

----End

If the HD display tilts, remove the HD display from the rack, and place it on the cushion with its screen facing down. Loosen the screws and adjust the horizontal bars. If the HD display tilts to the left when you are facing the screen, drag the right side of the horizontal bars downward, as shown in Figure 3-17.

Figure 3-17 Adjusting the horizontal bars

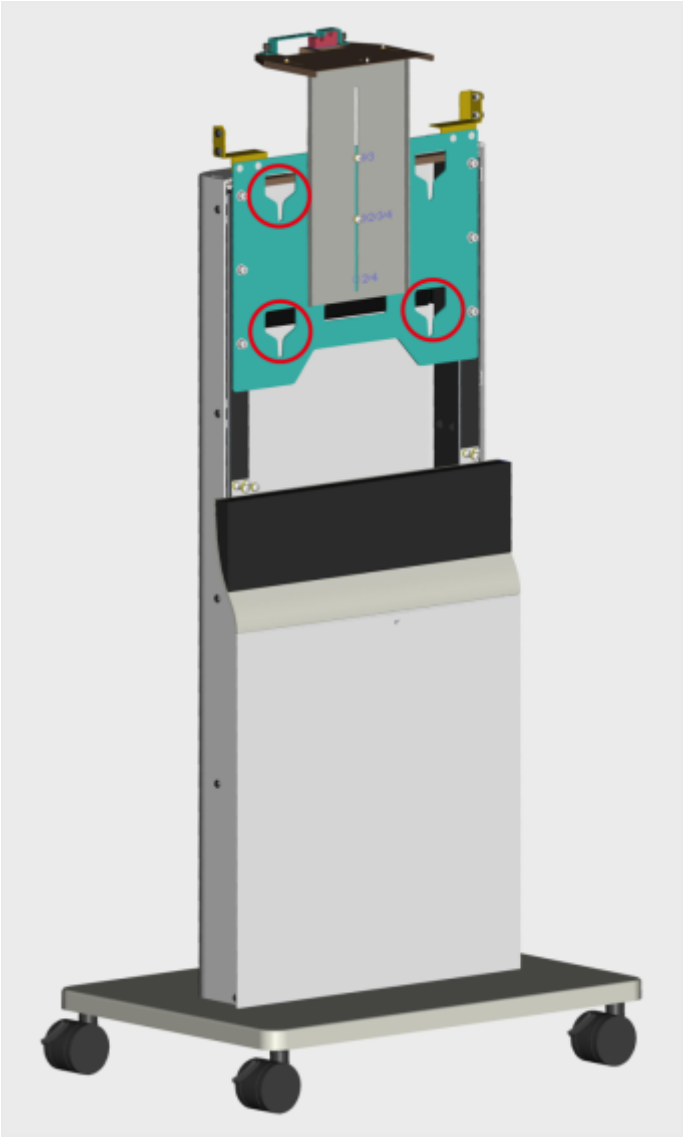


3.5.4 Installing the RP200 HD Displays

CAUTION

- Before you install the RP200 HD displays on a dual-screen HD display support, connect the cables of the HD displays and set the power switches on the HD displays to ON.
- Before installing the RP200 HD displays, temporarily remove the cables from the locations marked with a red circle shown in Figure 3-18. Keep the cables for later use.

Figure 3-18 Locations from which cables must be removed temporarily



Step 2 Lay a soft cushion on the ground. Place the two HD displays on the cushion in the same orientation, with their screens facing down.

Step 3 Remove the eight screws on the back of both HD displays using a Phillips screwdriver.

Step 4 Push the two HD displays toward the center until they are tightly placed side by side and horizontally aligned with each other.

Step 5 Attach connecting plates.

1. Select connecting plates based on the HD display size.
2. Remove the screws at the joints of the HD displays based on the following:
   - If you are using 46-inch HD displays, remove the six screws at the top joints of the HD displays, as shown in Figure 3-19.
   - If you are using 55-inch HD displays, remove the eight screws at the top joints of the HD displays, as shown in Figure 3-20.

Figure 3-19 Installation positions of the connecting plates for 46-inch HD displays

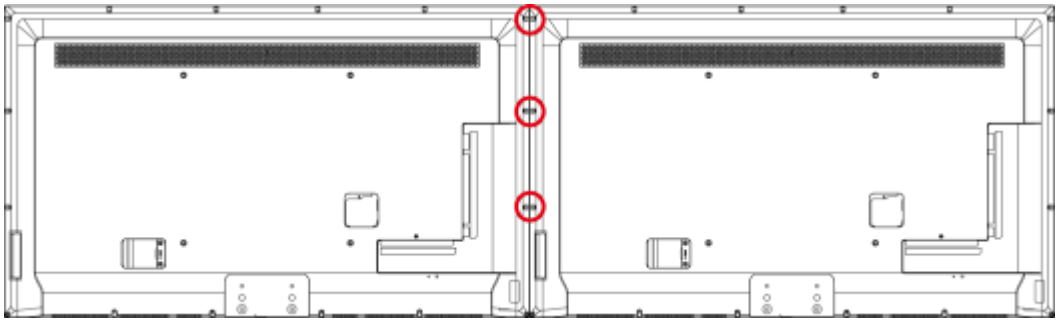
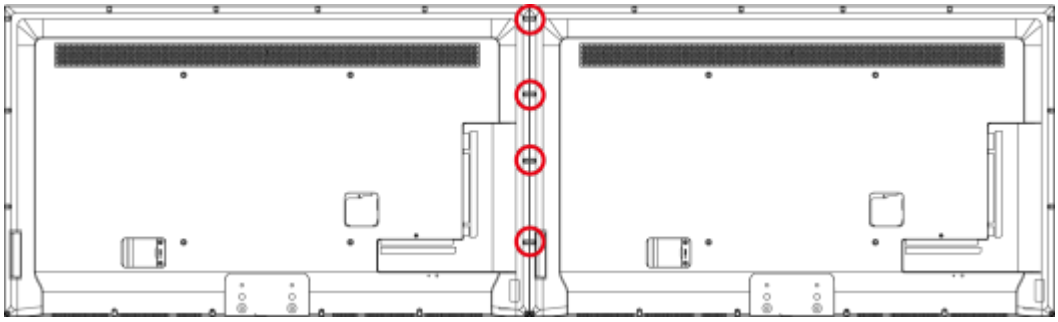


Figure 3-20 Installation positions of the connecting plates for 55-inch HD displays



3. Fasten M3 x 12 recessed pan head screws in the holes where the screws were removed to securely attach the connecting plates, as shown in Figure 3-21andFigure 3-22.

Figure 3-21 Installing the connecting plates for 46-inch HD displays

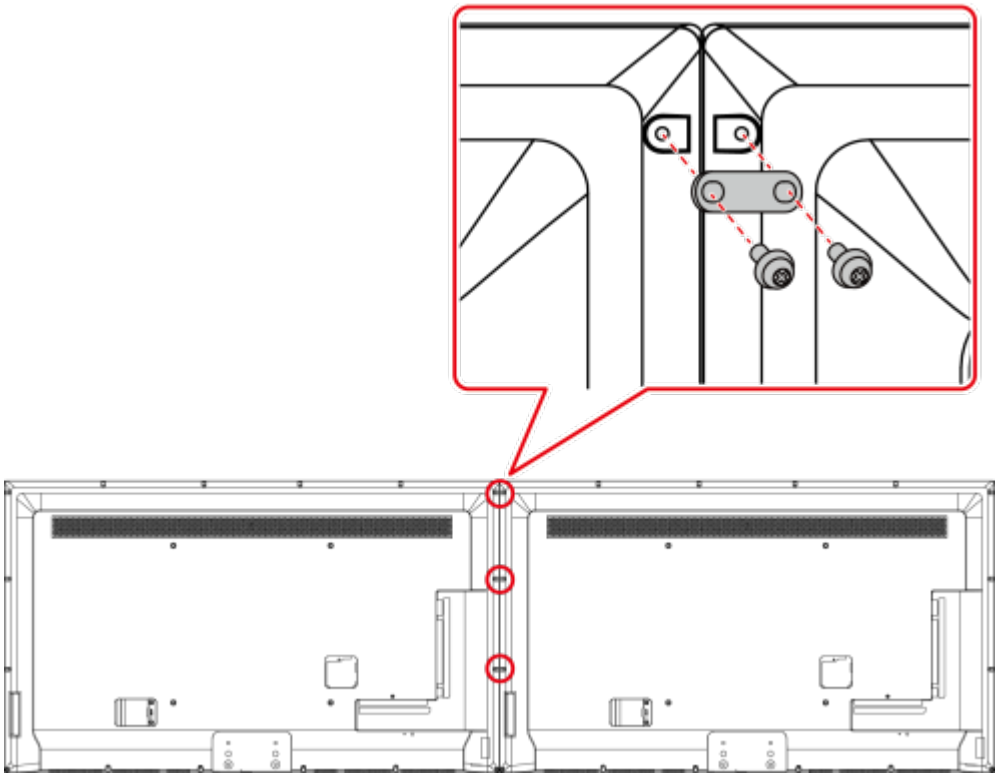
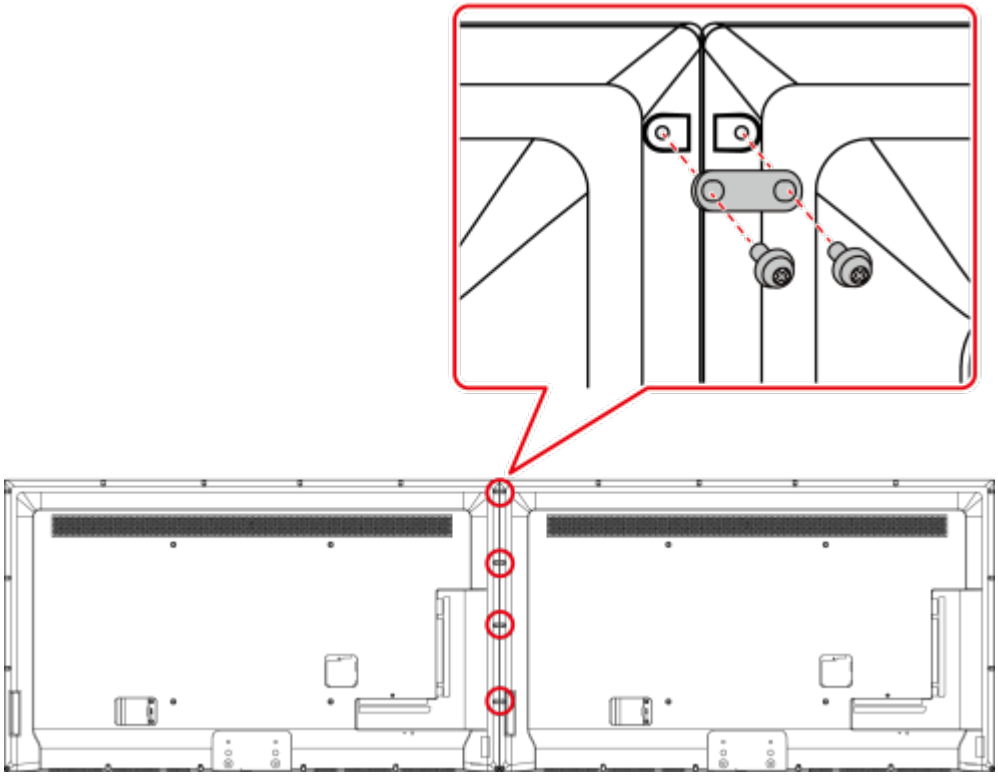
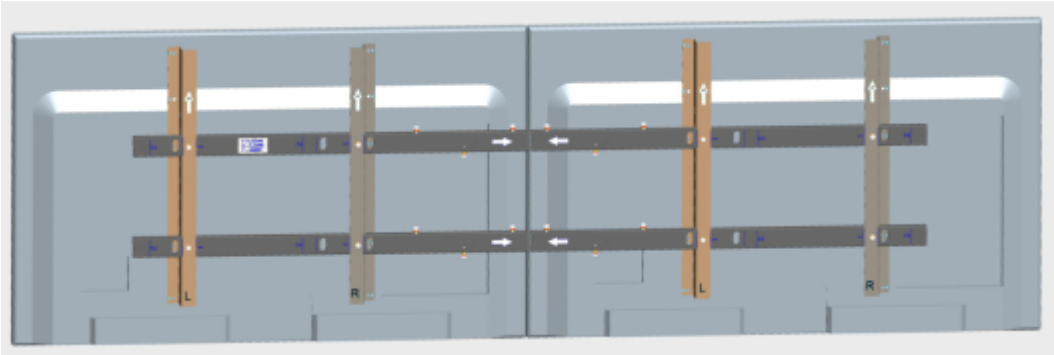


Figure 3-22 Installing the connecting plates for 55-inch HD displays



Step 6 Keep the arrows on the horizontal bars facing inward and arrows on the L and R bars pointing towards the top of the HD displays. Place the supports on the rear of the HD displays, as shown in Figure 3-23.

Figure 3-23 Placing the supports on the rear of the HD displays

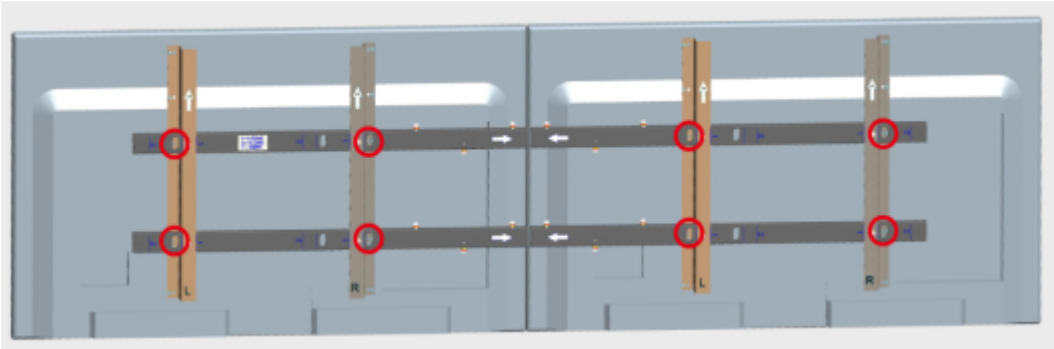


Step 7 Align the HD display holes with the holes silk-screened with the number that matches the HD display model on the L and R bars, as shown in Figure 3-24.

NOTE

- If you are using 46-inch HD displays, align the HD display holes with the holes silk-screened with 1 on the L and R bars.
- If you are using 55-inch HD displays, align the HD display holes with the holes silk-screened with 2 on the L and R bars.

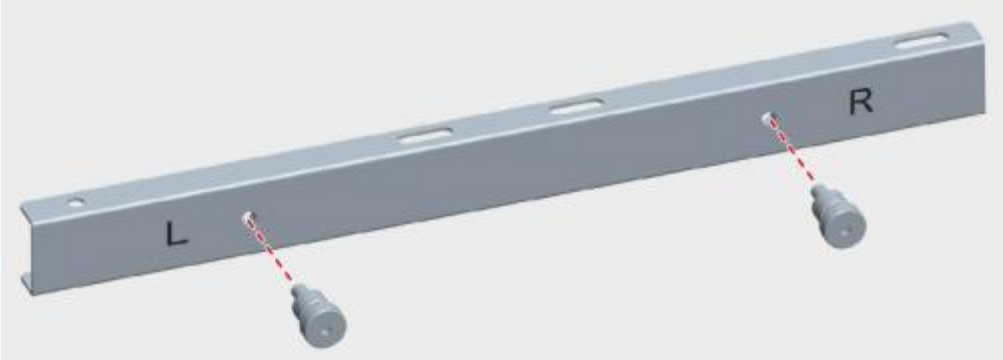
Figure 3-24 Aligning supports



Step 8 Fasten the eight M6 x 20 hex socket screws using an H5 Allen wrench to securely attach the supports to the rear of the HD displays.

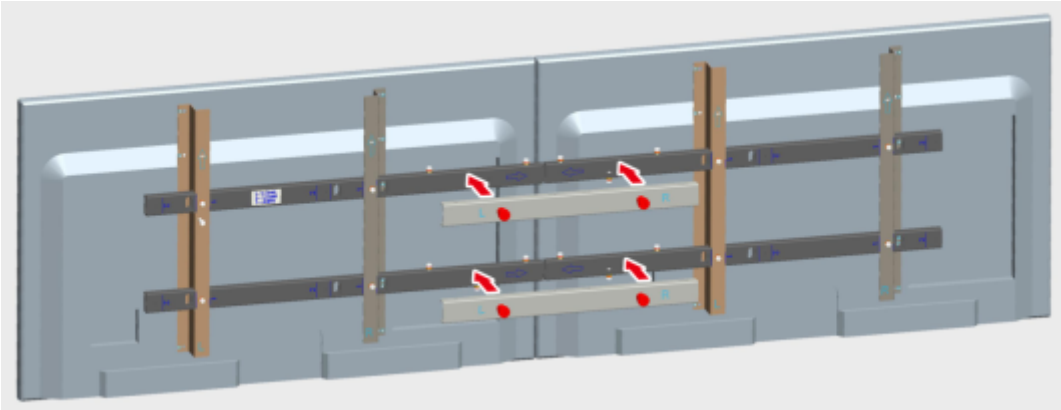
Step 9 Install the mounting components on the connecting bars, as shown in Figure 3-25.

Figure 3-25 Installing the mounting components



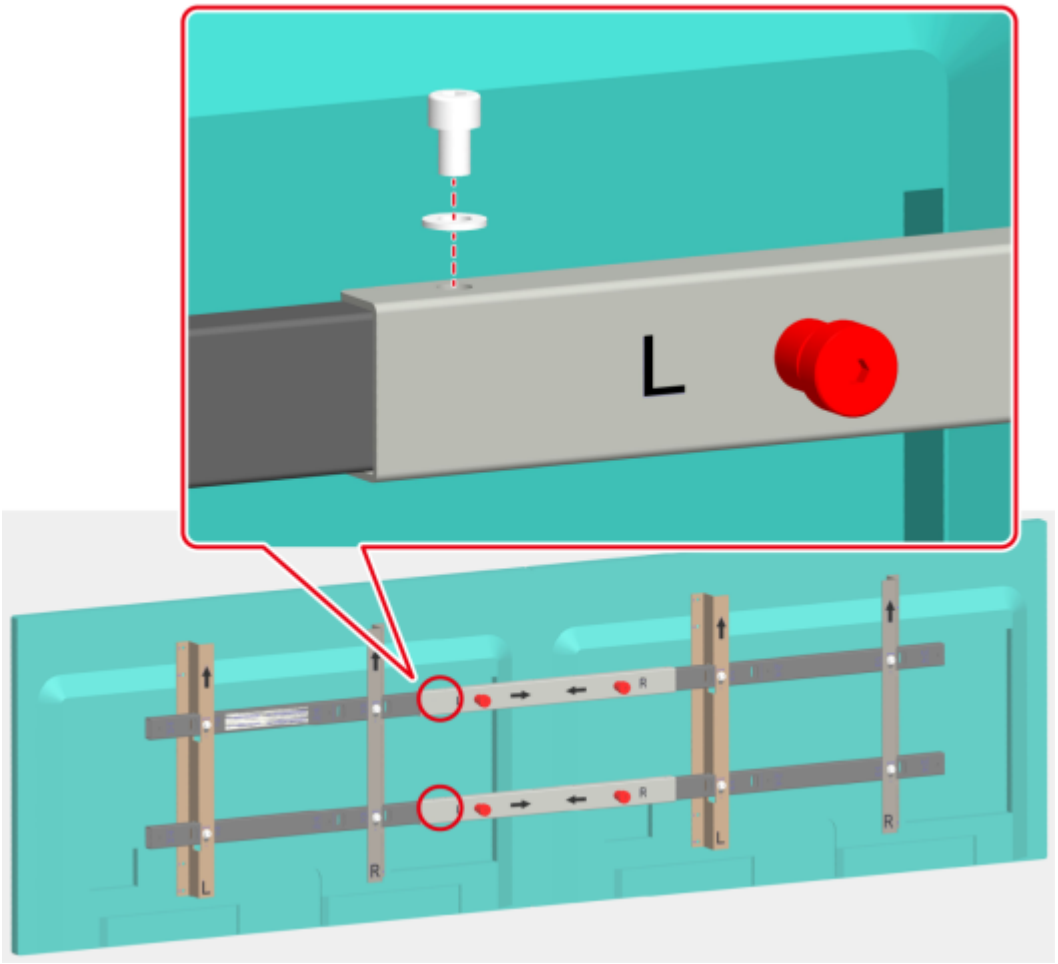
Step 10 Install the connecting bars on the left and right HD display supports, as shown in Figure 3-26.

Figure 3-26 Installing the connecting bars



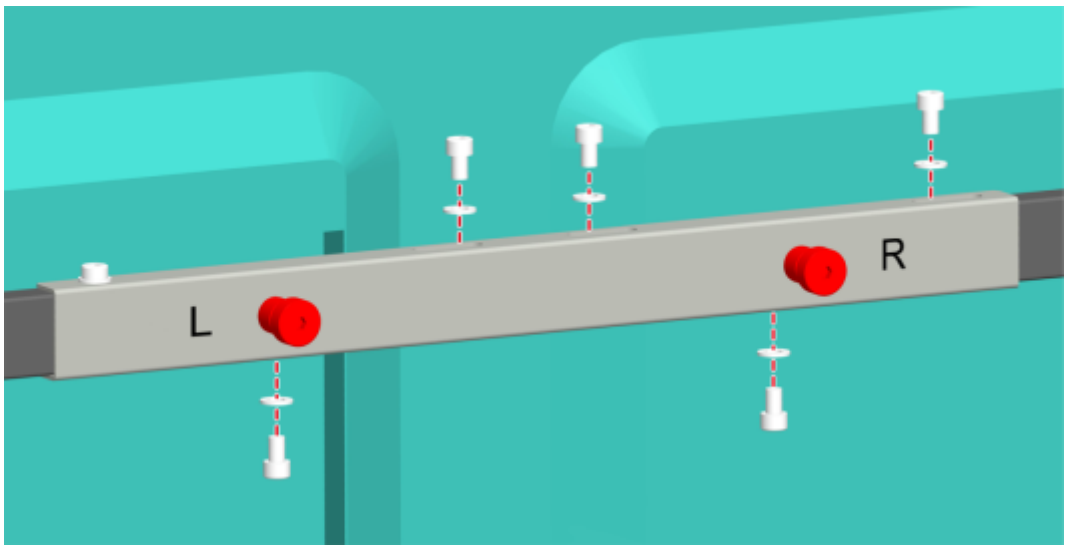
Step 11 Align the holes on the connecting bar with the holes on the horizontal bars of the supports. Fasten the screws and washers, as shown in Figure 3-27.

Figure 3-27 Adjusting the connecting bars



Step 12 Fasten the screws and washers to the connecting bars, as shown in Figure 3-28.

Figure 3-28 Fastening the connecting bars



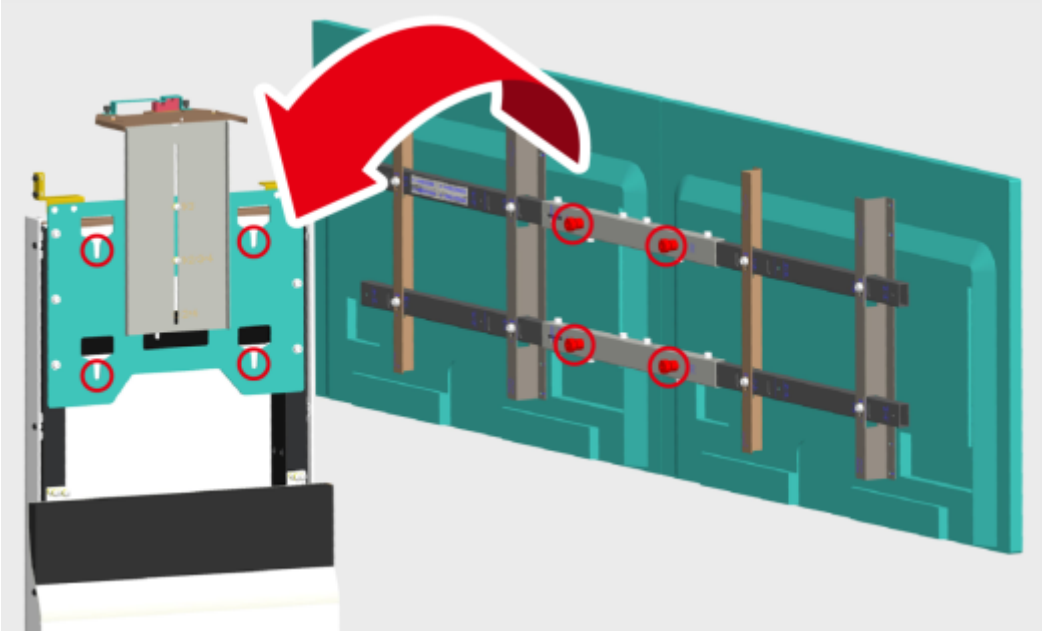
Step 13 Ensure that the L and R bars are vertical to the horizontal bars; otherwise, move the horizontal bars to adjust.

Step 14 Fasten the eight hex socket screws at the joints of supports using an H5 Allen wrench.

Step 15 Lift and move the HD displays to the front of the rack. Connect the HD display power cable to the right HD display shown in Figure 3-29. For details about cable connections, see the *HUAWEI RP V100R001C04 Series Telepresence System Connection Diagrams*.

Step 16 Mount the screws on the back of the HD displays into the corresponding holes on the rack, as shown in Figure 3-29.

Figure 3-29 Mounting the HD displays



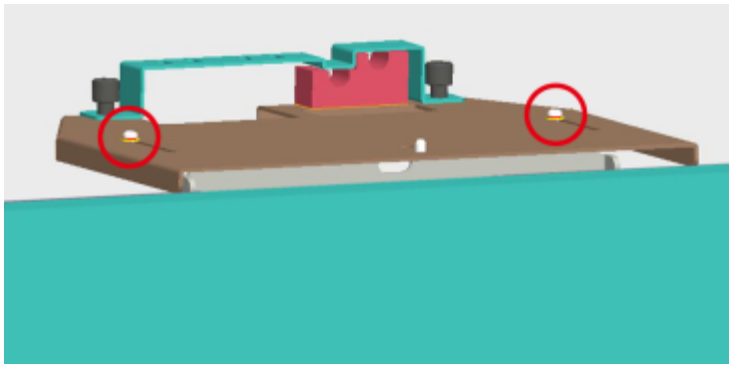
Step 17 Connect cables to the HD display. For details about cable connections, see the *HUAWEI RP V100R001C04 Series Telepresence System Connection Diagrams*.

----End

3.6 Installing the TE30 Videoconferencing Endpoint

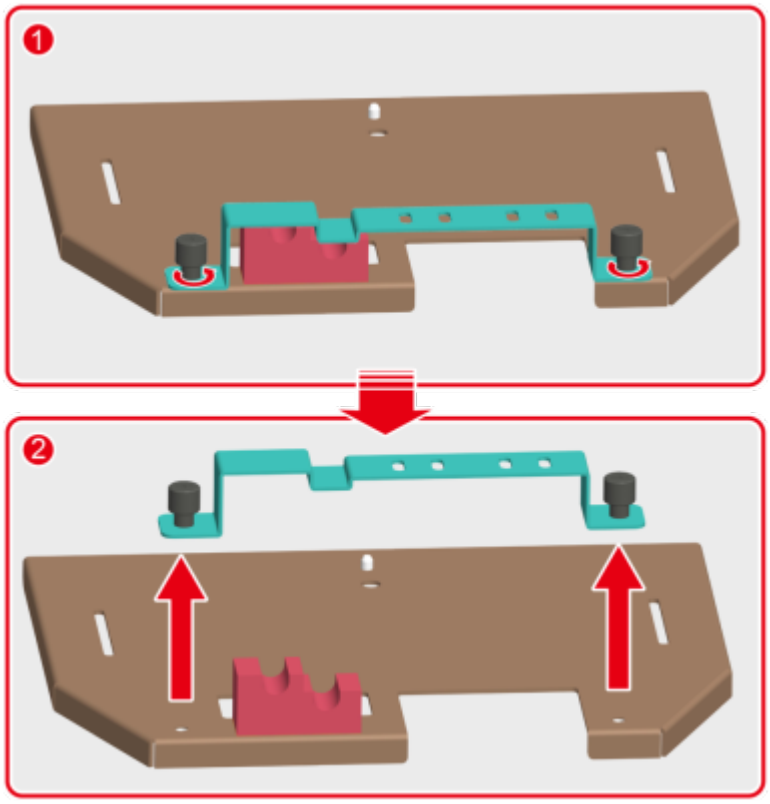
Step 1 Remove the pad from the rack top using a Phillips screwdriver, as shown in Figure 3-30.

Figure 3-30 Removing the pad



Step 2 Remove the cable clamp from the pad, as shown in Figure 3-31.

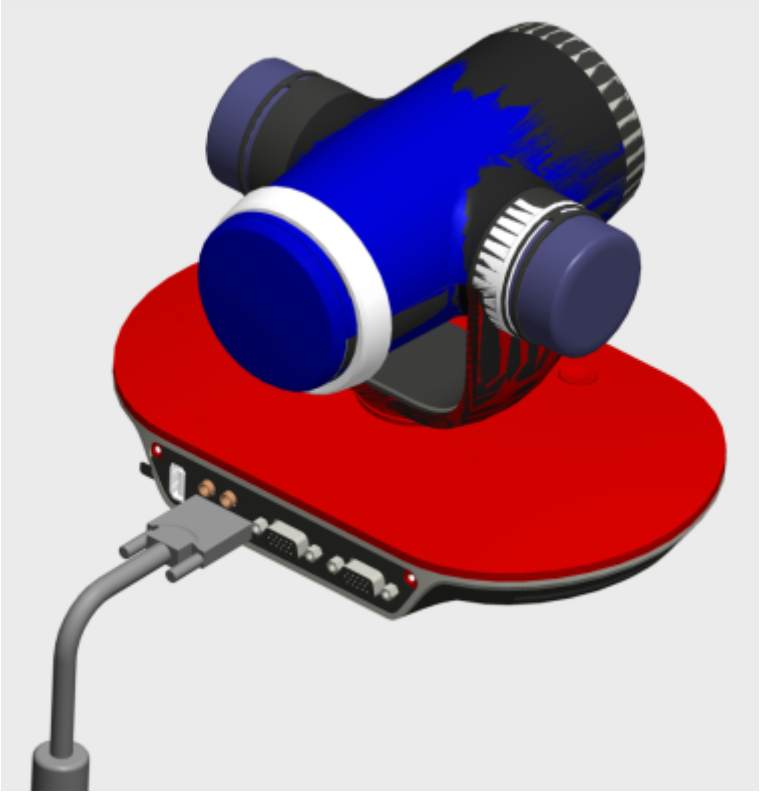
Figure 3-31 Removing the cable clamp



Step 3 Connect the composite cable to the TE30 and use a flat-head screwdriver to fasten the screws, as shown in Figure 3-32.

For details about cable connections, see the *HUAWEI RP V100R001C04 Series Telepresence System Connection Diagrams*.

Figure 3-32 Connecting the composite cable to the TE30



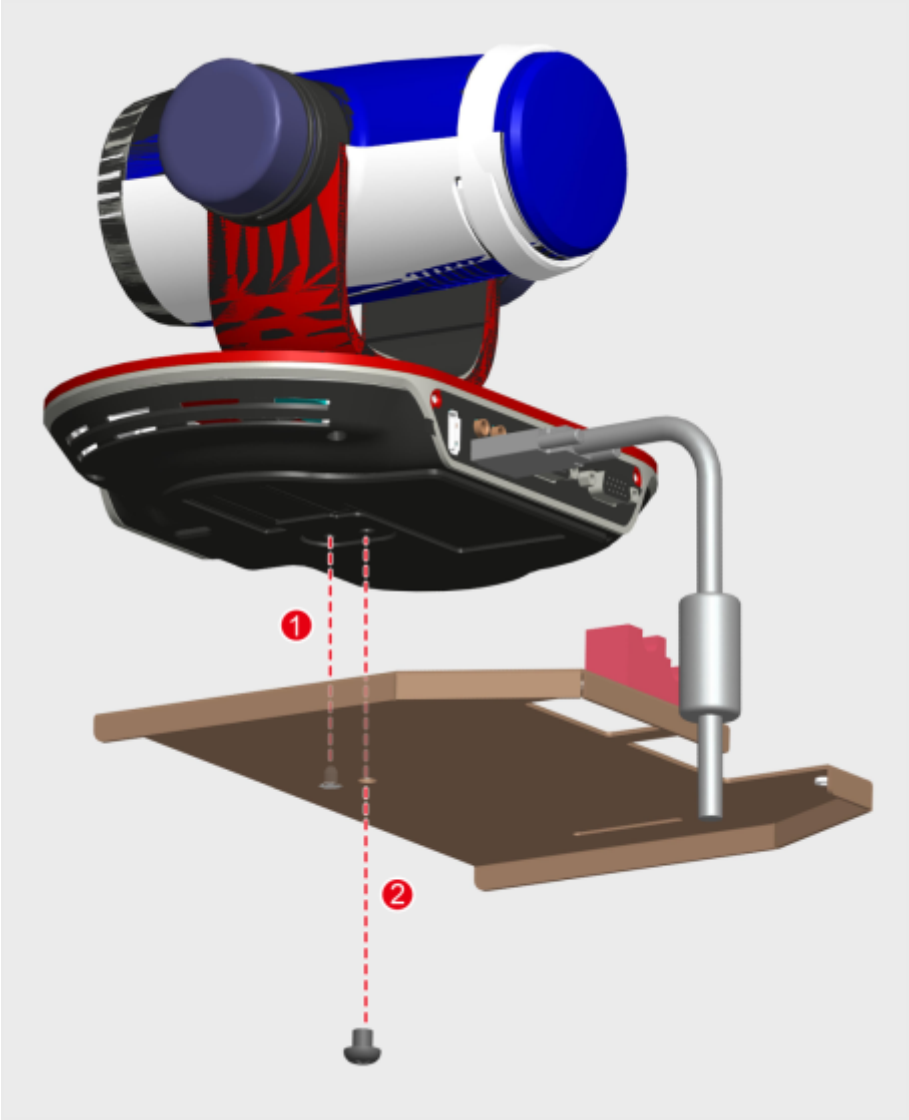
Step 4 Install the pad to the camera base, as shown in Figure 3-33.

CAUTION

The composite cable connected to the TE30 must be placed in the groove of the cable trough on the pad.

1. Align the screws protruding from the pad with the holes at the bottom of the TE30, as shown in step 1 in Figure 3-33.
2. Fasten the recessed pan head screws, as shown in step 2 in Figure 3-33.

Figure 3-33 Installing the pad

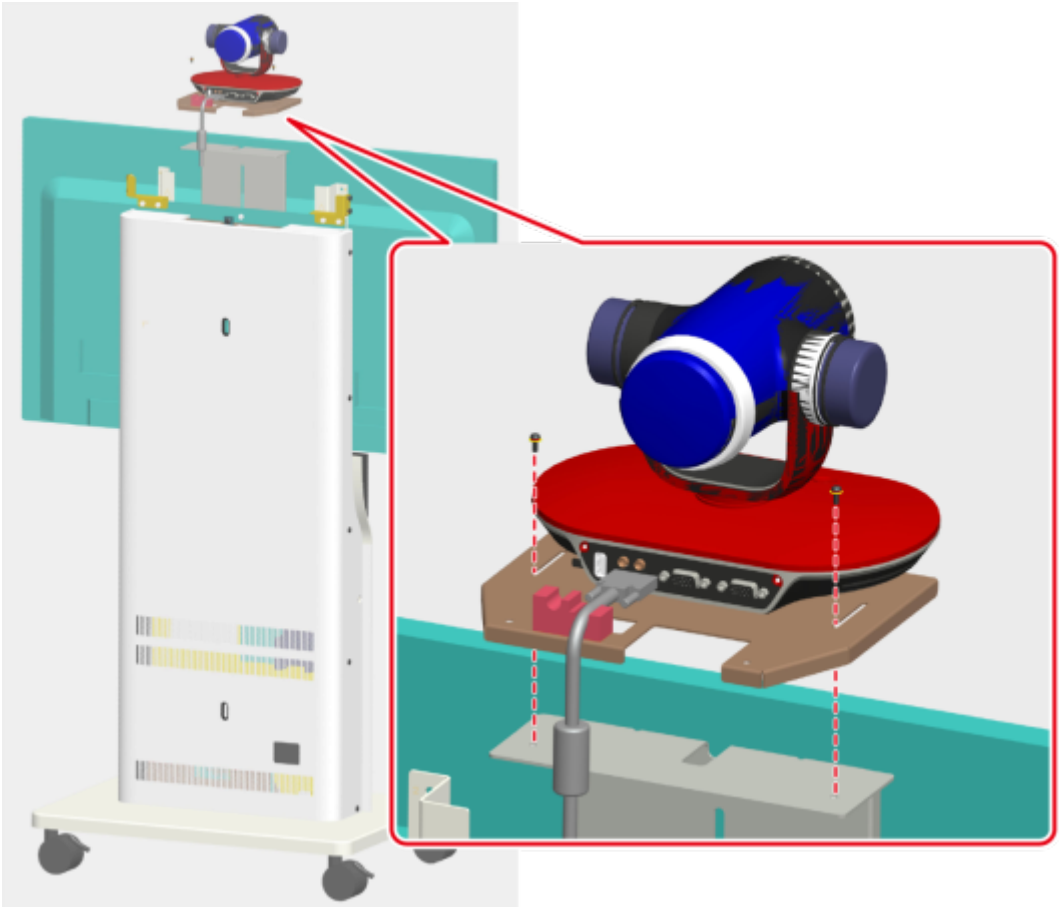


CAUTION

- When installing the TE30, push the pad to the front most and then fasten the screws.
- To remove the HD display, loosen the camera pad, push the TE30 to the back, and then take off the HD display.

Step 5 Keep the camera lens facing the front and install the TE30 on the rack top, as shown in Figure 3-34.

Figure 3-34 Installing the TE30 videoconferencing endpoint

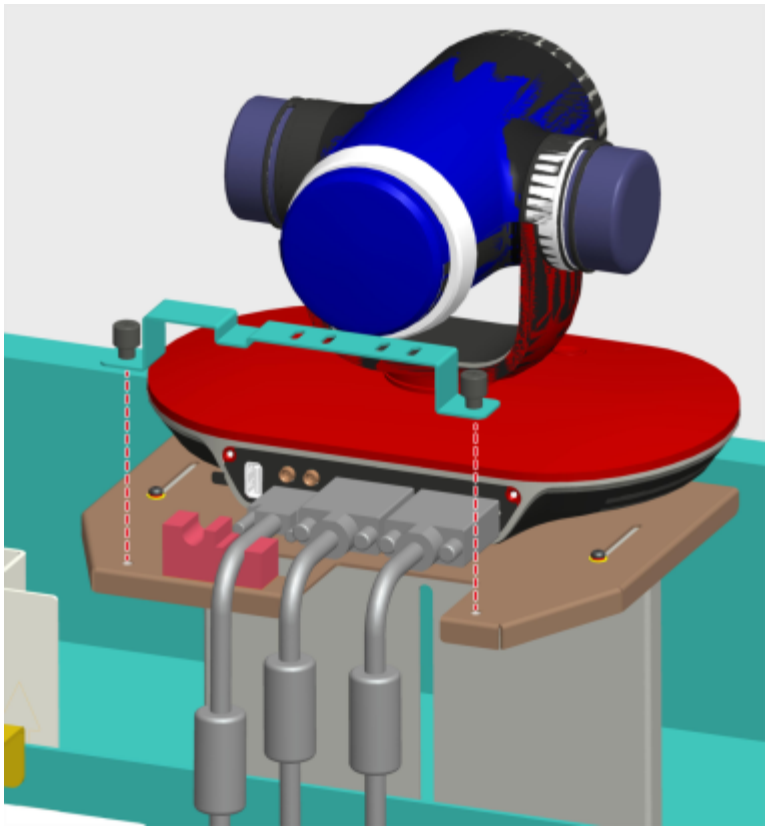


Step 6 Connect cables to the TE30.

For details about cable connections, see the *HUAWEI RP V100R001C04 Series Telepresence System Connection Diagrams*.

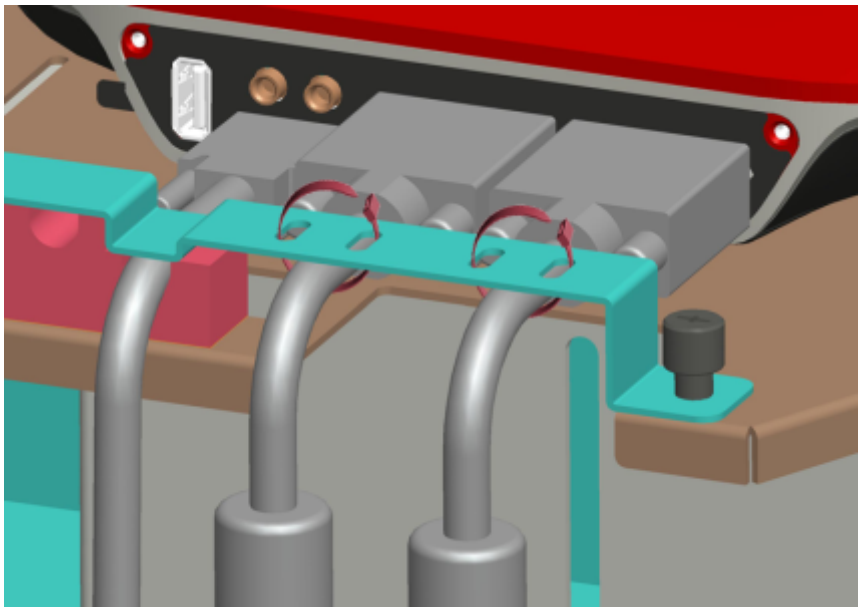
Step 7 Align the cable clamp with the holes on the pad and fasten the screws, as shown in Figure 3-35.

Figure 3-35 Installing the cable clamp



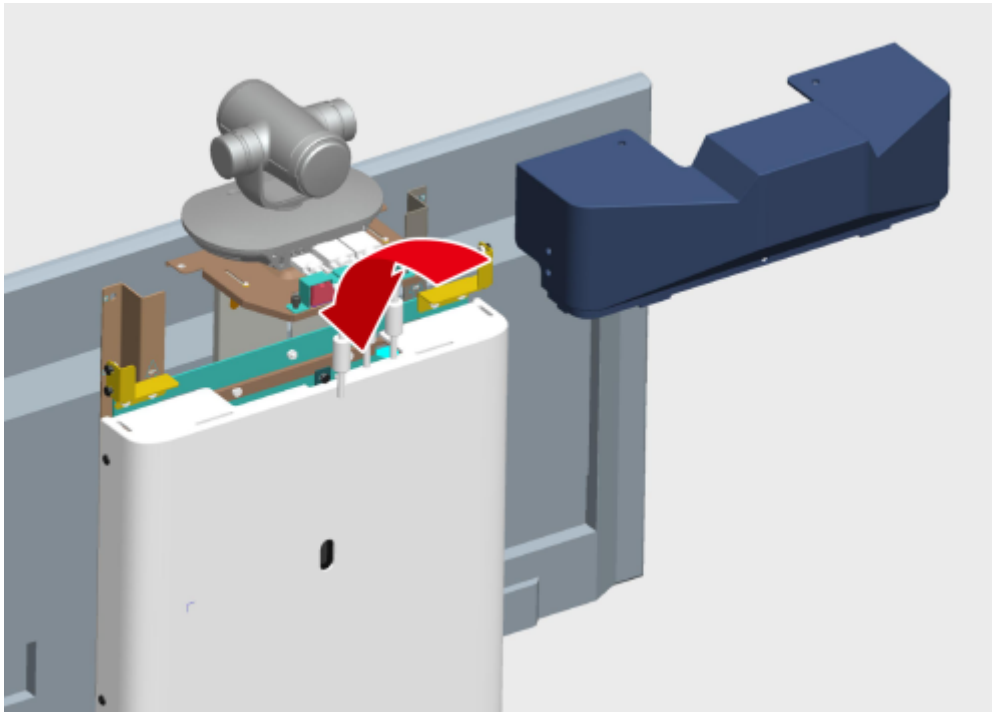
Step 8 Strap the two VGA cables connected to the TE30 using cable ties, as shown in Figure 3-36.

Figure 3-36 Strapping cables



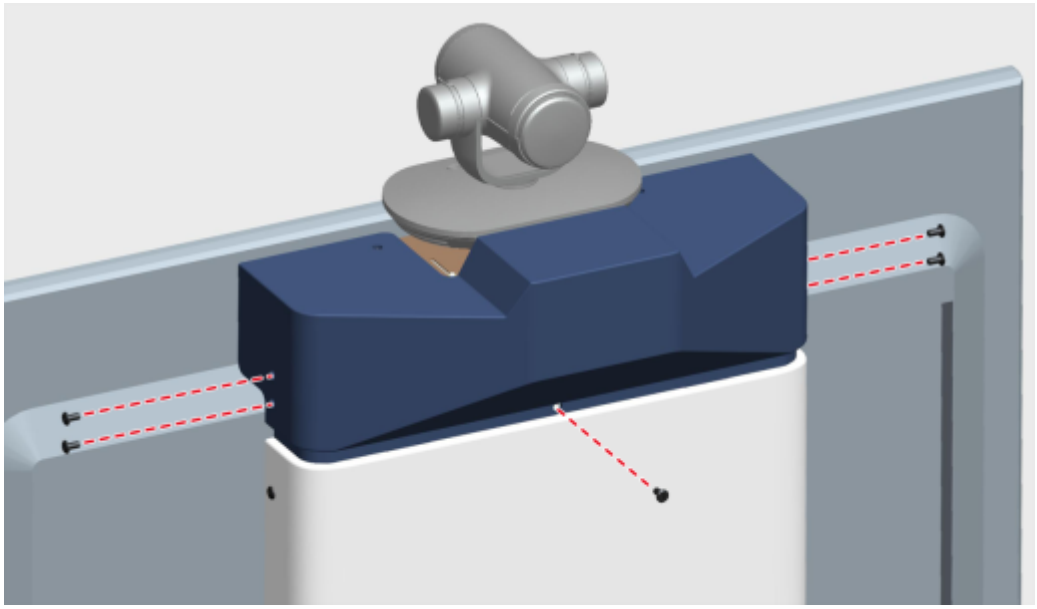
Step 9 Install the decorative component behind the camera on the rack and clip it in place, as shown in Figure 3-37.

Figure 3-37 Install the decorative component behind the camera



Step 10 Fasten five M6 x 12 flat head screws to securely install the decorative component, as shown in Figure 3-38.

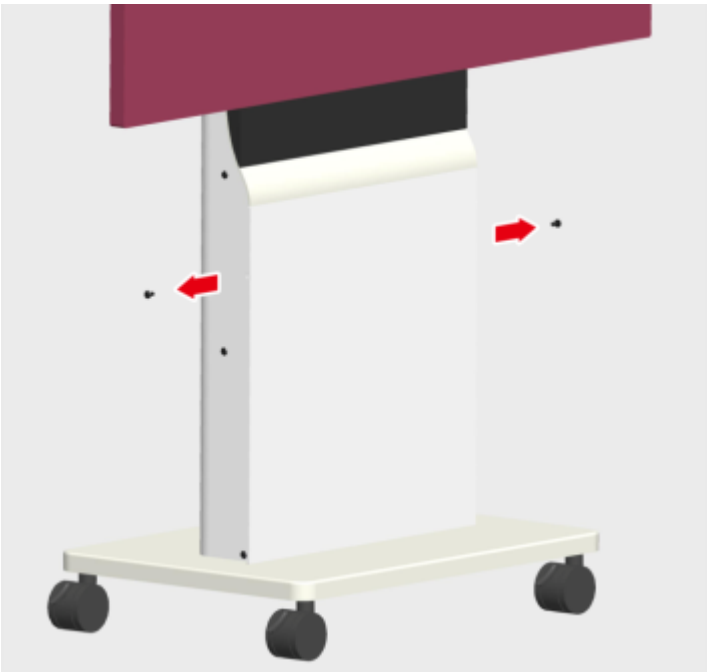
Figure 3-38 Tightening the decorative component behind the camera



Step 11 Fasten the TE30 composite cable.

1. Remove the screws on the two sides of the rack, as shown in Figure 3-39.

Figure 3-39 Removing rack screws



2. Remove the rack cover, as shown in Figure 3-40.

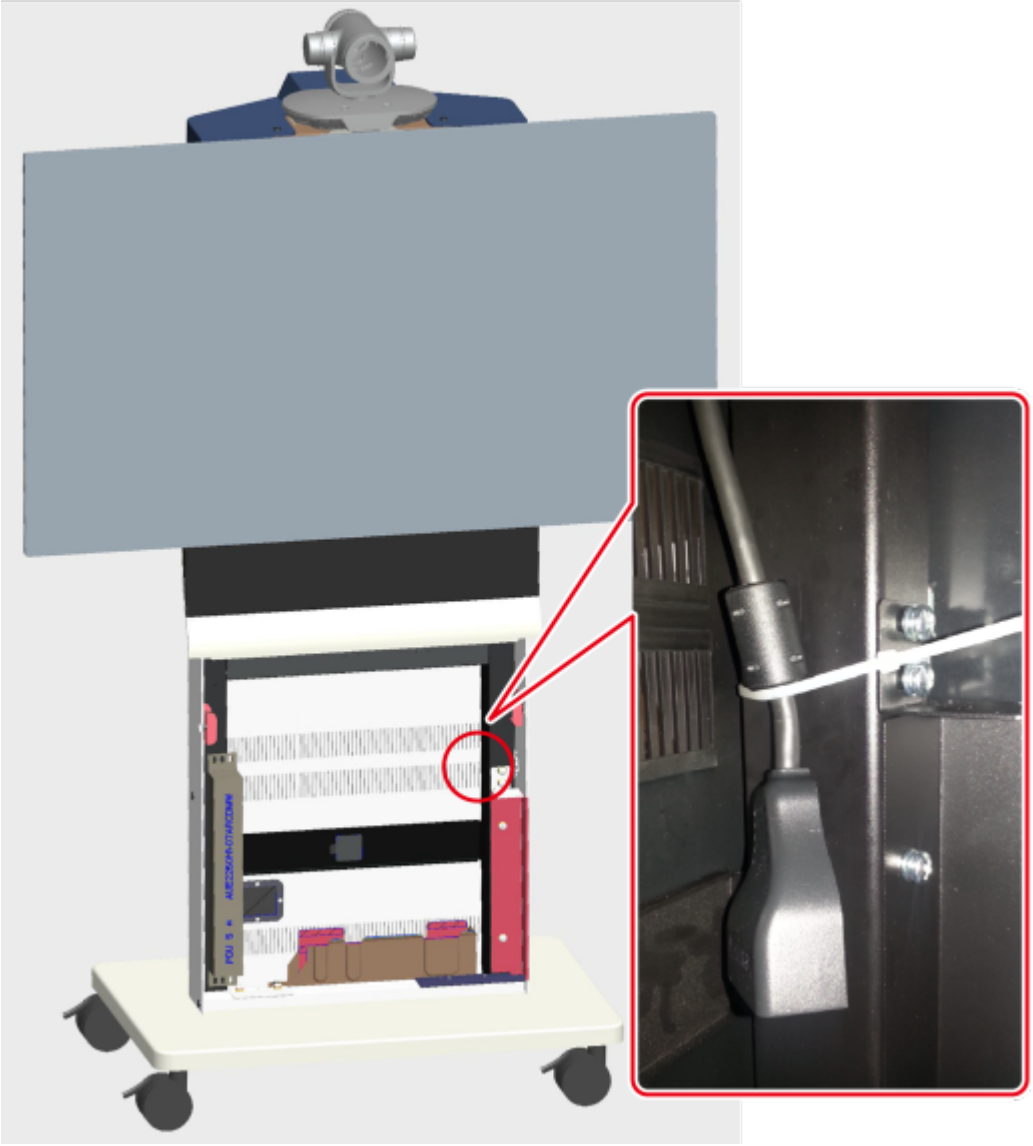
Figure 3-40 Removing the rack cover

CAUTION

- Use the cable tie to hold the ferrite bead to protect the cable from falling off.
- Do not tightly fasten the cable tie; otherwise, the cable core may be damaged.

3. Strap the TE30 composite cable to the rack using a cable tie, as shown in Figure 3-41.

Figure 3-41 Strapping the composite cable



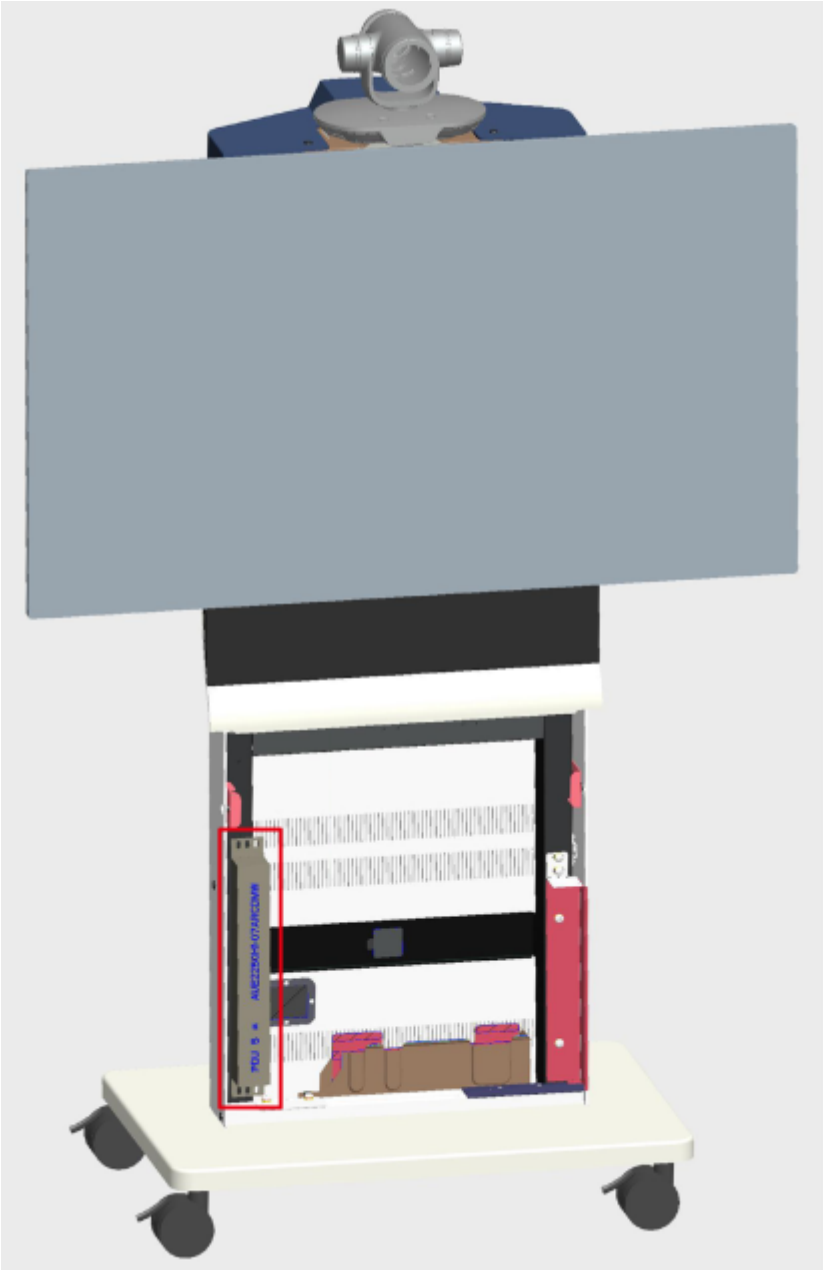
----End

3.7 Installing Equipment in the Rack

3.7.1 Location of the 5-Port PDU

The 5-port power distribution unit (PDU) is embedded in the rack, as shown in Figure 3-42. You do not need to install it.

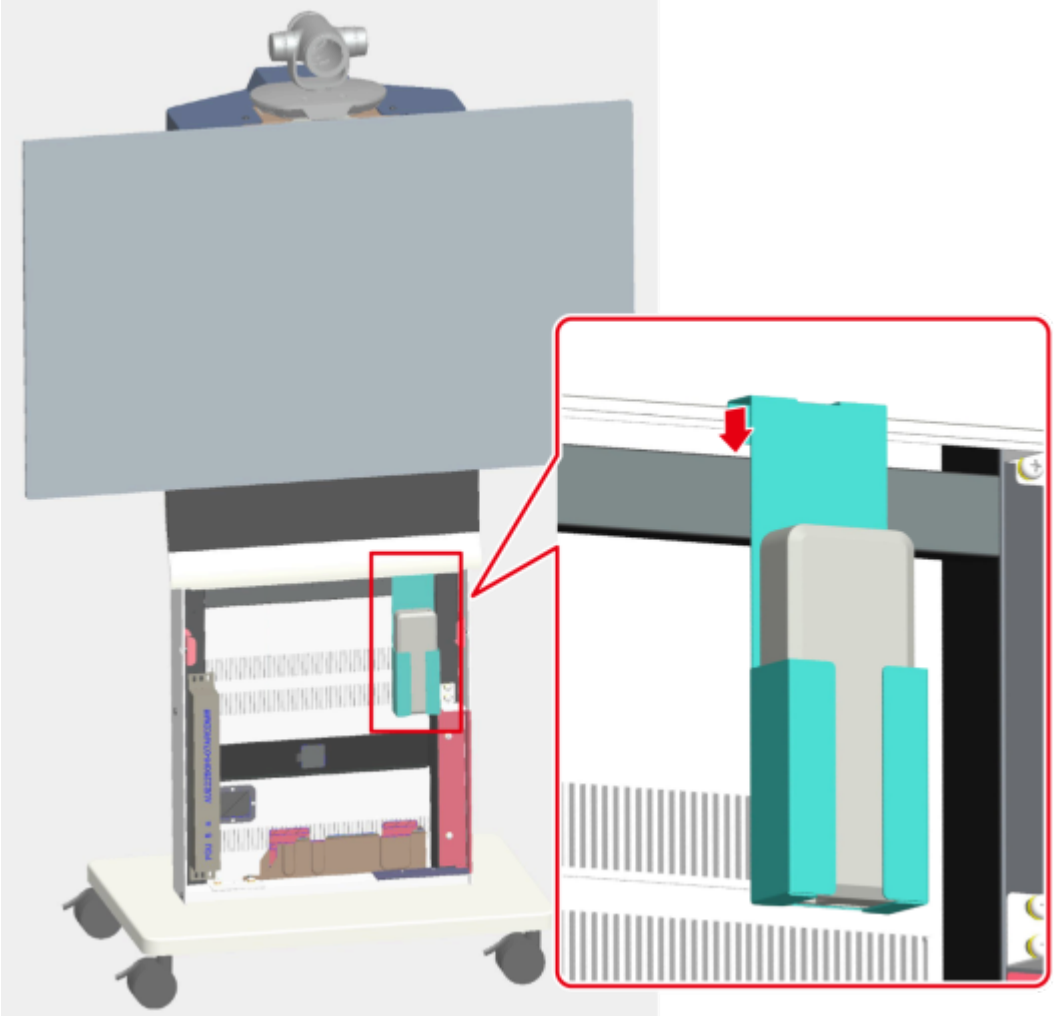
Figure 3-42 5-port PDU



3.7.2 Installing the Camera's Power Adapter

Insert the camera's power adapter into the bracket and mount the bracket onto the rack, as shown in Figure 3-43.

Figure 3-43 Installing the camera's power adapter



3.8 Troubleshooting

3.8.1 Unbalanced Rack

3.8.1.1 Symptom

The rack is unbalanced after being taken out of the packing case.

3.8.1.2 Cause

The wheels of the rack are not level.

3.8.1.3 Installation Techniques

Use the M10 open-ended wrench to adjust the wheels. The wheel height rises when you turn the wrench counterclockwise and lowers when you turn the wrench clockwise, as shown inFigure 3-44.

Figure 3-44 Adjusting the wheels

3.8.2 Tilted HD Display

3.8.2.4 Symptom

An HD display tilts after it is installed.

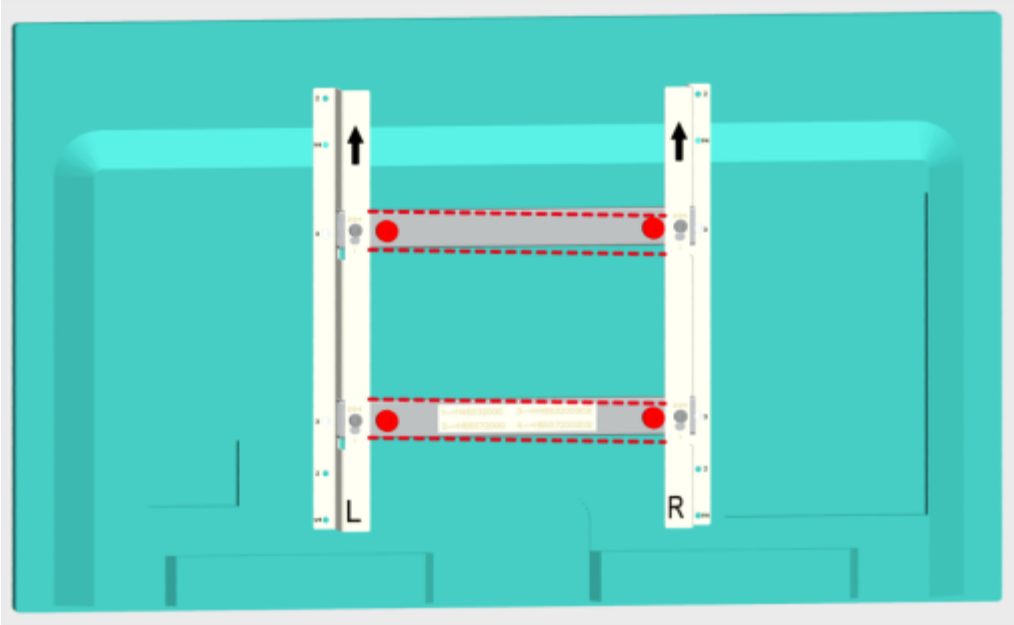
3.8.2.5 Cause

The screw holes on the HD display support may deviate from their specifications.

3.8.2.6 Installation Techniques

If the HD display tilts, remove the HD display from the rack, and place it on the cushion with its screen facing down. Loosen the screws and adjust the horizontal bars. For example, if the HD display tilts to the left when you are facing the screen, drag the right side of the horizontal bars downward, as shown in Figure 3-45.

Figure 3-45 Adjusting the horizontal bars



3.8.3 Noise From the Power Adapter Bracket

3.8.3.7 Symptom

Noise is generated by the swinging of the camera's power adapter bracket when you move the rack.

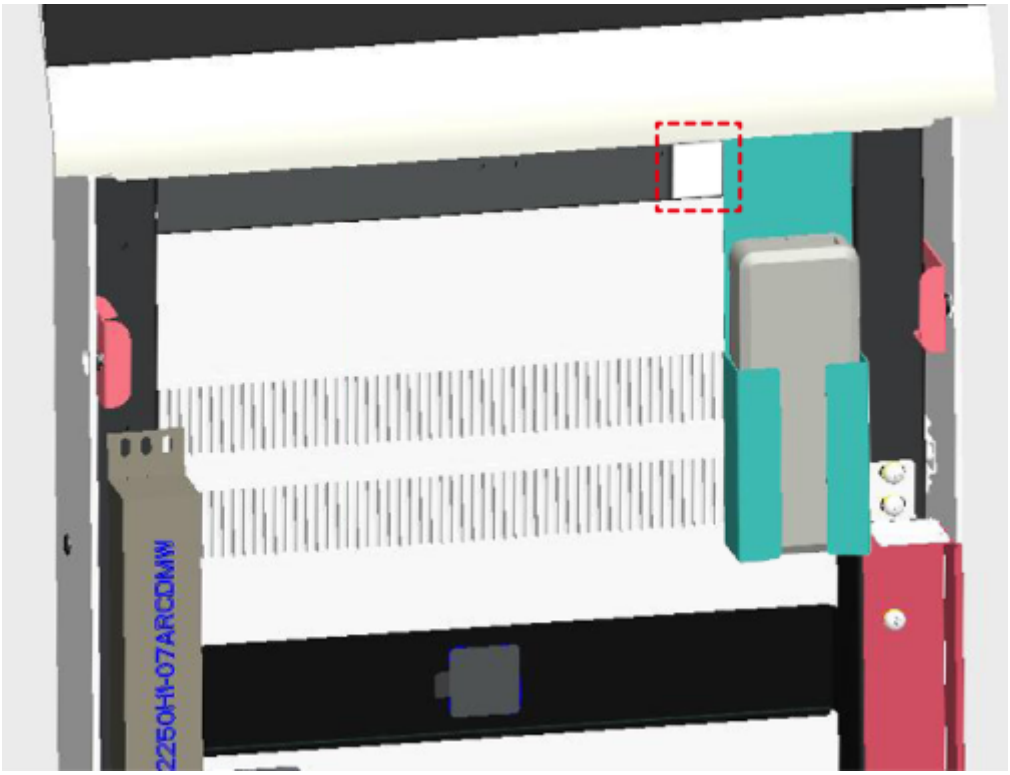
3.8.3.8 Cause

There is only one power adapter bracket mounted to the horizontal bar of the rack, leaving extra moving space.

3.8.3.9 Installation Techniques

Move the power adapter bracket to the rightmost corner of the rack and attach a viscose cable tie to the left side of the power adapter bracket, as shown in Figure 3-46.

Figure 3-46 Fastening the camera's power adapter bracket



4 Cable Connection

For how to connect devices in an RP system, see the *HUAWEI RP100 & RP200 Telepresence Systems V100R001C04 Installation Guide*.

4.1 Cables

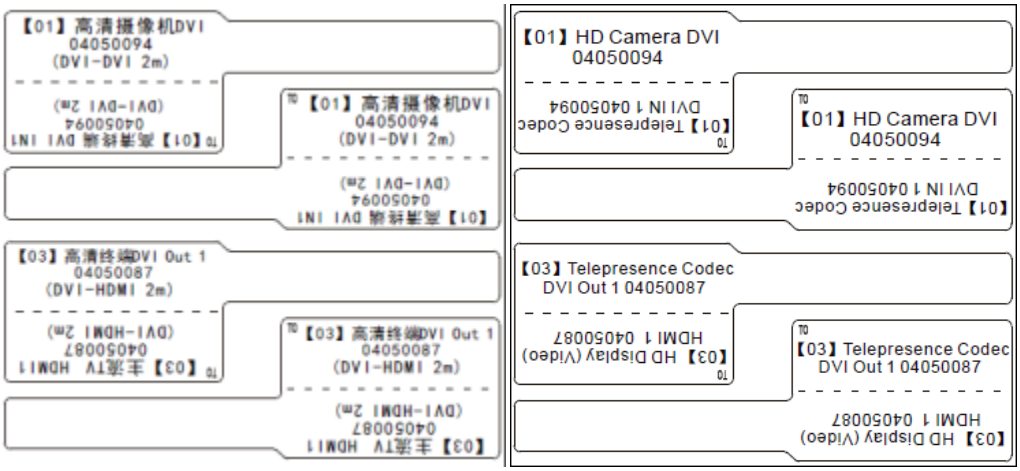
Before connecting the cables, label them according to section 3.2

4.1.1 Attaching Cable Labels

Step 1 Verify the cable labels based on the PNs on them.

Each cable label has a duplicate one and is available in English and Chinese. The content in both languages is consistent.

Figure 4-1 Cable labels



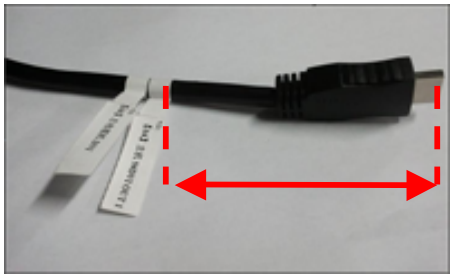
Step 2 Attach four labels (two English and two Chinese labels) to the correct cable.

Ensure that:

- One English label and one Chinese label are attached at one end of the cable.
- The two labels touch each other.

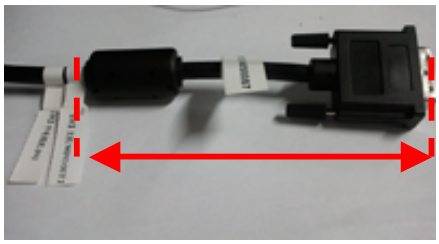
- The Chinese label is closer to the cable connector, about 10 cm away from the connector.

Figure 4-2 Positions of the labels



Some cables may have a ferrite bead close to the connector. In this case, the labels must not be attached between the connector and ferrite bead, as shown in Figure 4-3.

Figure 4-3 Cable with a ferrite bead



----End

4.1.2 Cable Connectors

Table 4-1 Cable connectors

Type	Connector	Remarks
10 m VGA-VGA cable	VGA connector 	[V01] [V02]
2 m VGA-VGA cable	VGA connector 	[V03] Dedicated for the RP200

Type	Connector	Remarks
TE30 composite cable	Proprietary connector  HDMI connector  Composite connector 	[V04] [V05]
0.5 m HDMI extension cable	HDMI male and female 	[V06] Dedicated for the RP200
Microphone audio cable	DIIVA connector 	[A01]

Type	Connector	Remarks
6 m audio cable with a 3.5 mm connector	3.5 mm connector 	[A02]
1 m Chinese-standard power cable	Plug  C13 connector 	[P01] [P05]
HD display power cable	PA male-C7 female 	[P03] [P04]

4.2 Cabling

In the diagrams, different cables are represented by different line colors and letters. Cables of the same type are numbered according to their installation sequence. For example, video cables are numbered V01, V02, V03, ..., and Vn.

Table 4-2 Cable colors and signs

Start Letter	Type	Sign	Scope
V	Video		DVI cable DVI-VGA cable VGA cable HDMI cable
A	Audio		XLR cable RCA cable 3.5 mm audio cable Microphone cable
N	Network		RJ45-RJ45 cable
P	Power supply		C13-C14 cable Chinese-standard power cable C14-C7 cable

4.2.1 Cabling Rules

Table 4-3 Cabling rules

No.	Type	Part Number	Length	Devices to Be Connected		Remarks	Pre-Installed or Not
[V01]	VGA-VGA cable	04050165	10 m	VGA port of the presentation source	TE30 VGA IN	-	√
[V02]	VGA-VGA cable	04050165	10 m	TE30 VGA OUT	Optional presentation display VGA IN	RP100 only	√
[V03]	VGA-VGA cable	04050242	2 m	TE30 VGA OUT	Presentation display VGA	RP200 only	√
[V04]	TE30 composite cable	04050656	2 m	TE30 MAII/TV/LAN/POWER	HD display HDMI 1	RP100 only	×
[V05]	TE30 composite cable	04050656	2 m	TE30 MAII/TV/LAN/POWER	HDMI extension cable	RP200 only	×

No.	Type	Part Number	Length	Devices to Be Connected		Remarks	Pre-Installed or Not
[V06]	HDMI extension cable	04050910	0.5 m	HDMI extension cable	HD display HDMI 1	RP200 only	×
[A01]	DIIVA-DI IVA	04050823	10 m	VPM220 IN	TE30 cable adapter MAII	-	×
[A02]	3.5 mm audio cable	04050404	6 m	Presentat ion audio source	TE30LINE IN	-	√
[N01]	3 m network cable	04046011	3 m	Wall-mo unted network port	T30 cable adapter LAN	-	×
[P01]	Chinese-st andard power cable	04041104	3 m	Wall-mo unted power outlet	PDU power cable	-	×
[P02]	PDU power cable	14190404	1.5 m	Chinese-standard power cable	PDU	-	√
[P03]	HD display power cable	04043491	2 m	PDU	Presentation display Power	RP200 only, two wire cores	√
[P04]	HD display power cable	04043491	2 m	PDU	HD display Power	Two wire cores	√
[P05]	1 m power cable	04050206	1 m	PDU	Videoconfer encing endpoint power adapter	Three wire cores	√
[P06]	Videoconf erencing endpoint power adapter	02220404	1.5 m	Videoco nferencin g endpoint power adapter	TE30 cable adapter power port	-	×

4.2.2 Cabling Connection Illustration

Figure 4-4 RP100-46S/55S cabling

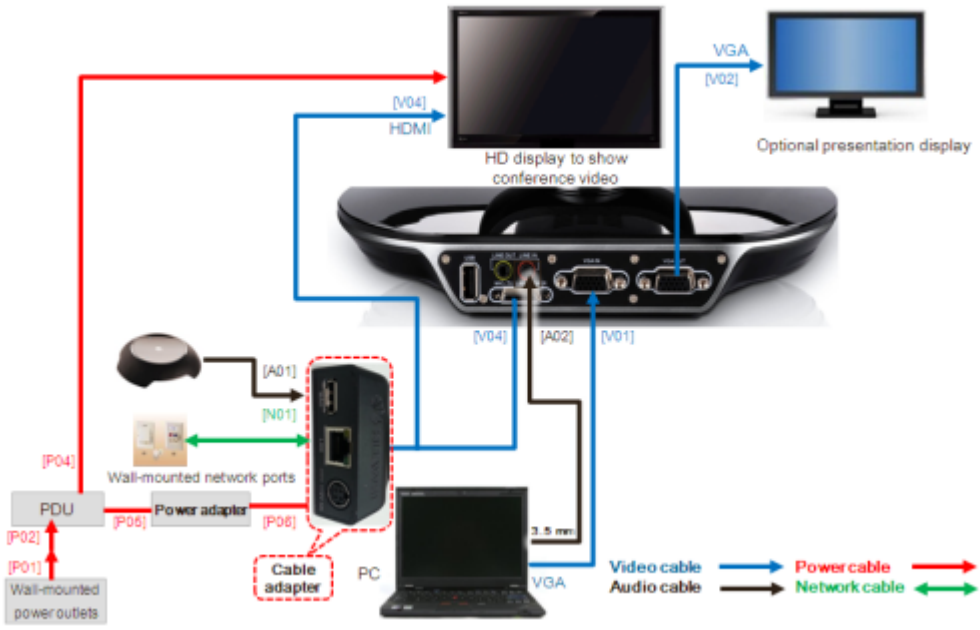
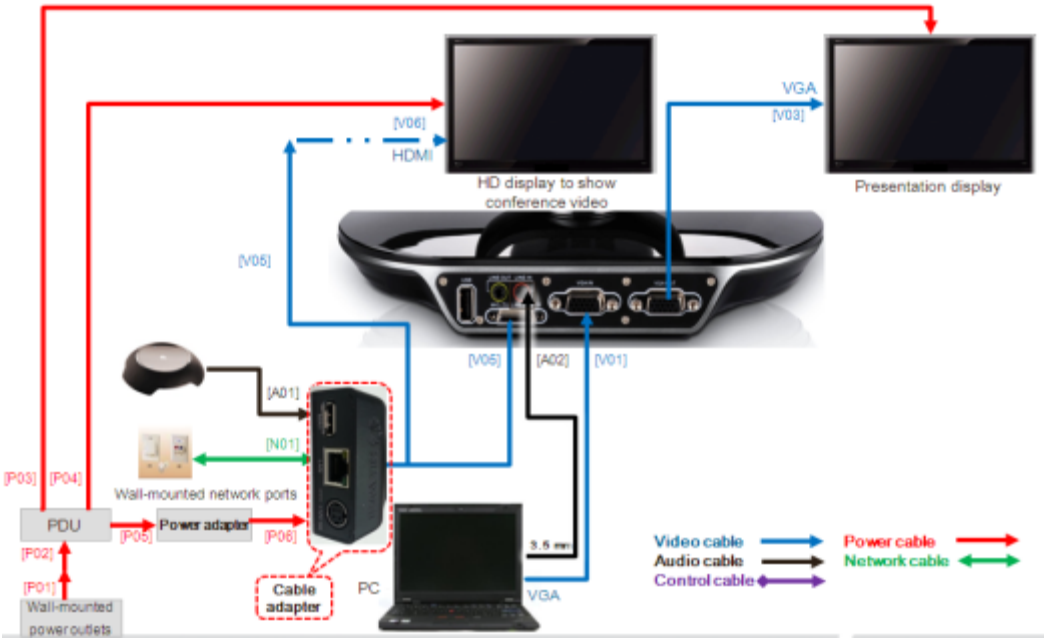


Figure 4-5 RP200-46S/55S cabling



5 Soft Upgrade

5.1 Preparing for the Upgrade

5.1.1 Obtaining and Checking the Upgrade Package

Download the upgrade package at http://support.huawei.com/ (for Huawei engineers) or http://www.huawei.com/cn/enterprise/ (for Huawei's agents). After downloading the software package, check it against the version description file to ensure that its version number, date modified, and size are correct. Check whether the upgrade package contains the files listed in Table 1-1.

Table 5-1 Upgrade files

File	Description
Telepresence.dat	Mirroring package containing the target program and resource files for the upgradeIt is the upgrade resource file and is used to replace the current upgrade resource file.
UpgMaster.exe	Upgrade programIt is the upgrade tool. You can double-click this file to set related upgrade parameters.
UpgConfigDll.dll	Dynamic link library used by UpgMaster.exe during upgrade
UPF-Telepresence.xml	Upgrade policy fileIt specifies upgrade rules.
upgmaster.ini	Upgrade configuration fileIt specifies the upgrade port and endpoint type as well as the user name and password for logging in to the upgrade tool.
version.ini	Upgrade version fileIt specifies the endpoint software version.

Place these files in the same directory before upgrade.

5.1.2 Setting the IP Address

Please refer to chapter 2.6 Setting IP Addresses for the HD Videoconferencing Endpoints

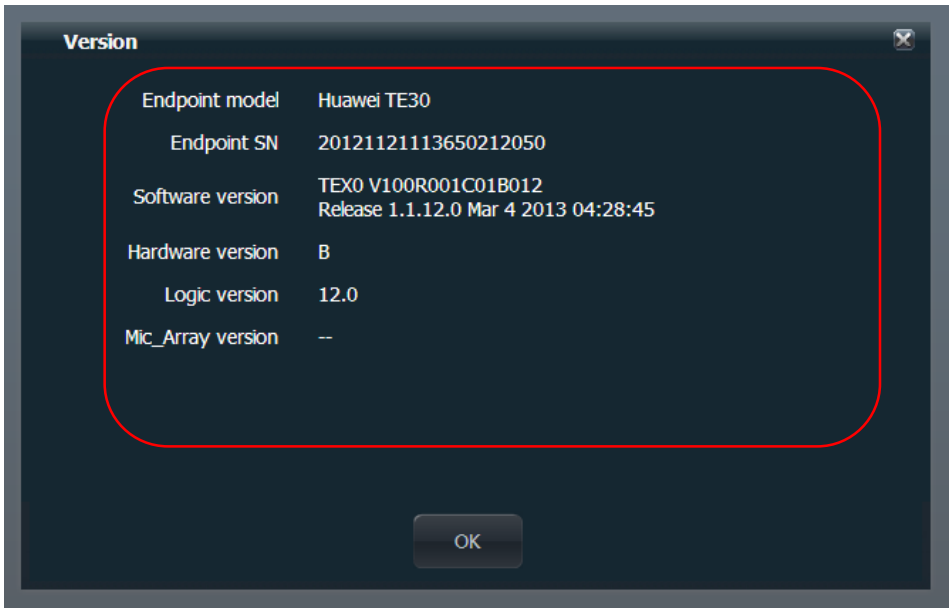
5.1.3 Checking the Current Version

Check and record the current version of the TE30.

To view version information, log in to the TE30 web interface, and choose **Help** > **Version**.

Figure 1-3 shows the **Version** dialog box that displays information, such as the endpoint model, serial number, and software version.

Figure 5-1 Version dialog box



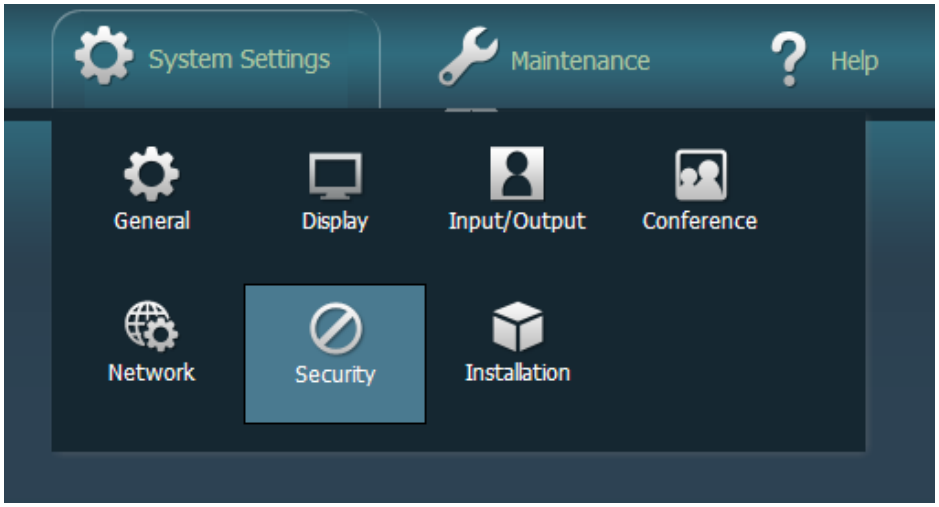
5.1.4 Setting the Upgrade Password

The default upgrade password is empty. You can change the password from either the web interface or remote controlled UI:

5.1.4.1 From the Web Interface

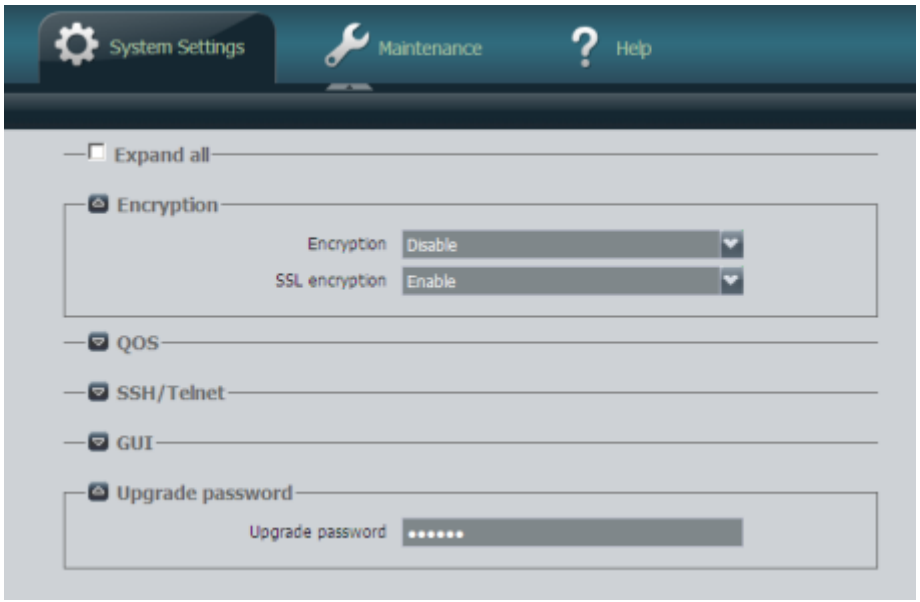
Step 1 Log in to the TE30 web interface, and choose **System Settings** > **Security**, as shown in Figure 1-4.

Figure 5-2 Security screen



Step 2 Under **Upgrade Password**, set an upgrade password, as shown in Figure 1-5.

Figure 5-3 Setting an upgrade password



Step 3 Click **Save**.

----End

5.1.4.2 From the Remote Controlled UI

Choose **Advanced** > **Settings** > **Security** > **Upgrade password**. Then set the upgrade password.

5.2 Upgrading the TE30

There are two upgrade methods: normal upgrade using the normal system and forcible upgrade using the bootrom system.

Use the bootrom system to upgrade the TE30 if the TE30 cannot be properly started due to upgrade failures caused by, for example, power failures.

If you use the default IP address of the TE30, connect the TE30 directly to a computer by referring to section 1.1.2. If you do not connect the TE30 to a computer directly, ensure that the IP addresses of the TE30 and computer are in the same network segment. For details about how to change the TE30 IP address, see section 1.1.3.

5.2.1 Normal Upgrade

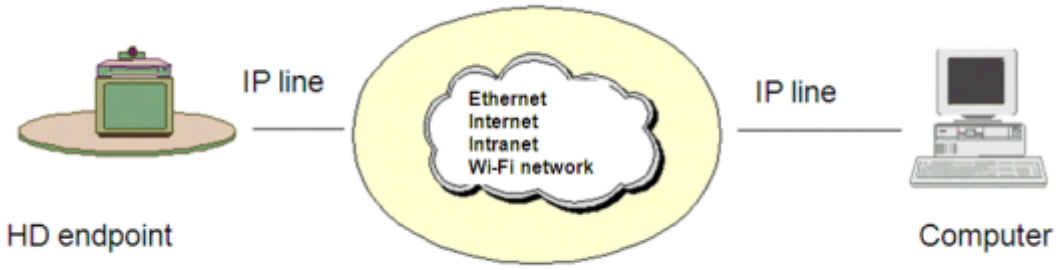
Perform a normal upgrade using the upgrade tool, the TE30 web interface, or the automatic upgrade function.

5.2.1.3 Upgrade Using the Upgrade Tool

The TE30 can be upgraded over an IP or Wi-Fi network. The upgrade file is **Telepresence.dat**, which is to replace the existing version file of the TE30 during the upgrade.

- On an IP network

  The TE30 can be connected to a computer directly or over an IP network, as shown in Figure 1-1. You can ping the IP address of the computer from the TE30 or vice versa to verify the network interconnectivity. Upgrading the TE30 on an IP network



- On a Wi-Fi network

  The TE30 can also be connected to a computer wirelessly. Over a Wi-Fi network, the computer transmits the upgrade file to the TE30.

  To set up a Wi-Fi network, use either of the following methods:

  - A Wi-Fi network card is inserted into the computer.
  - The TE30 has its Wi-Fi access function enabled and the computer is connected to the TE30's access point; or the TE30 has its client function enabled, and the computer and TE30 connect to the same wireless router to ensure that they can properly interoperate with each other.

Figure 5-57 shows the Wi-Fi network where the TE30 to be upgraded is placed.

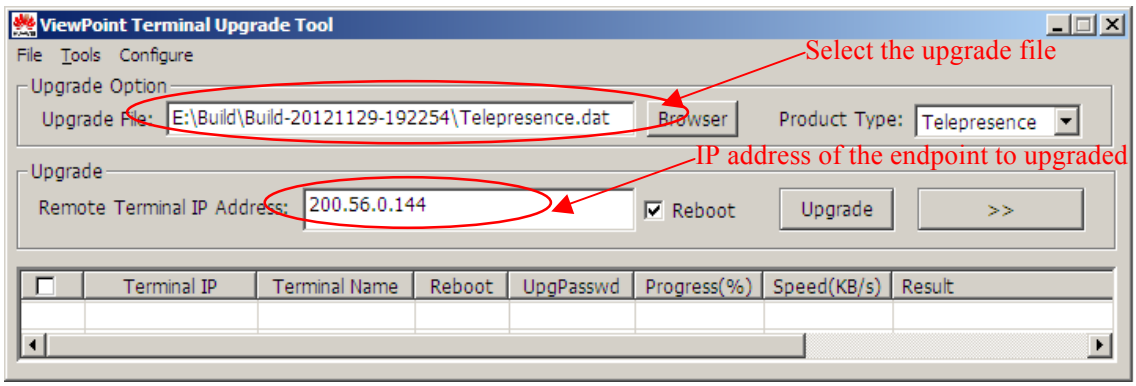
Figure 5-5 Upgrading the TE30 on a Wi-Fi network

- Upgrading a single TE30 endpoint

Step 2 Double-click **UpgMaster.exe** to start the upgrade tool.

Step 3 Enter the IP address of the TE30 to be upgraded, and click **Upgrade**, as shown in Figure 5-68.

Figure 5-6 Enter the IP address



Step 4 When prompted, enter the upgrade password.

----End

5.2.1.4 Upgrading the TE30 endpoints in batches

- Start the upgrade tool, and set the IP addresses of the TE30 endpoints to be upgraded.

To upgrade the TE30 endpoints by manually entering their IP addresses:

Step 1 Click 

and enter the number of the TE30 endpoints you want to upgrade.

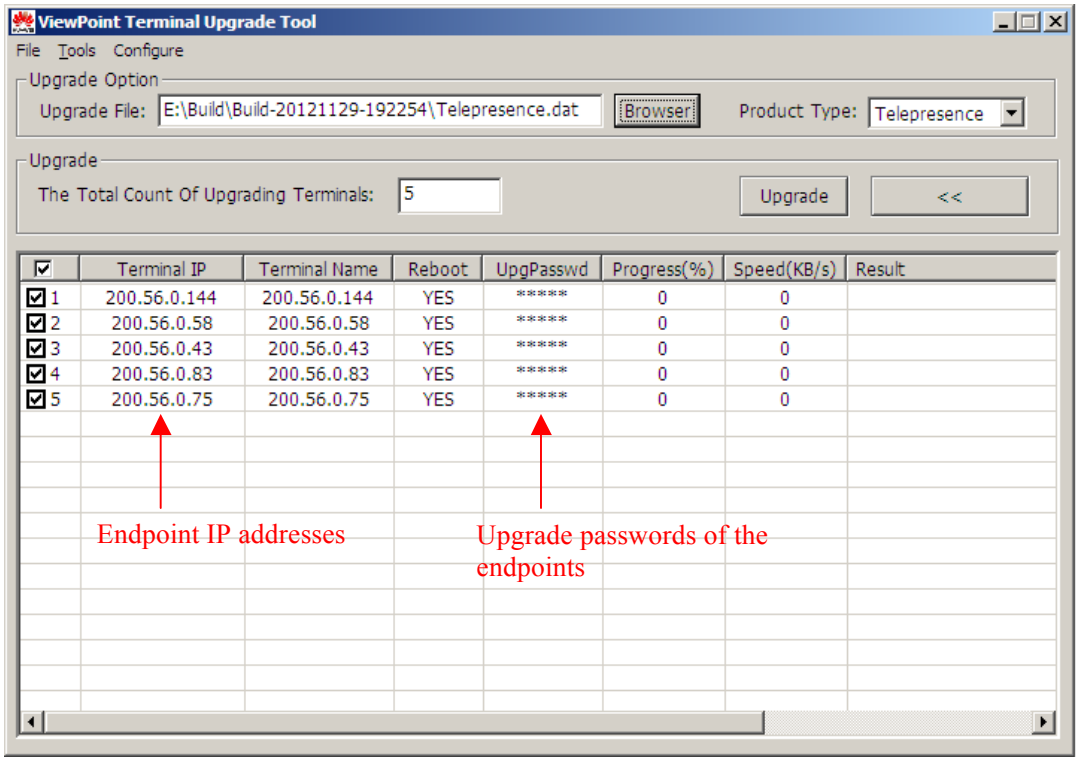
Step 2 Enter the IP addresses of the TE30 endpoints to be upgraded.

Step 3 Select all the IP addresses.

Step 4 Click **Upgrade**.

Figure 1-9 shows the batch upgrade by manually entering the TE30 IP addresses.

Figure 5-7 Batch upgrade by manually entering the TE30 IP addresses



NOTE

An upgrade password is required for each endpoint. If the upgrade password is incorrect, the upgrade will fail.

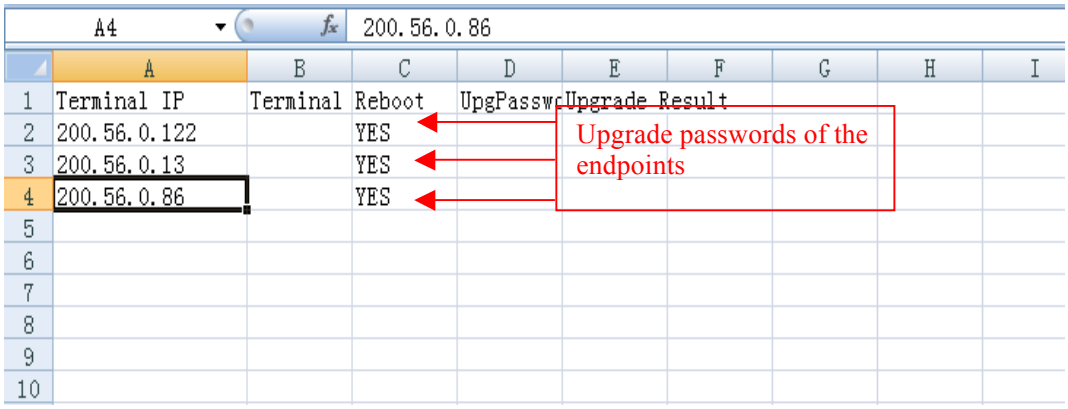
----End

- To upgrade the TE30 endpoints by importing their IP addresses from a file:

Step 5 Click >>, and choose **File** > **Export** to export the IP address file.

Step 6 Add the IP addresses of the TE30 endpoints to be upgraded to the exported IP address file, as shown in Figure 1-10.

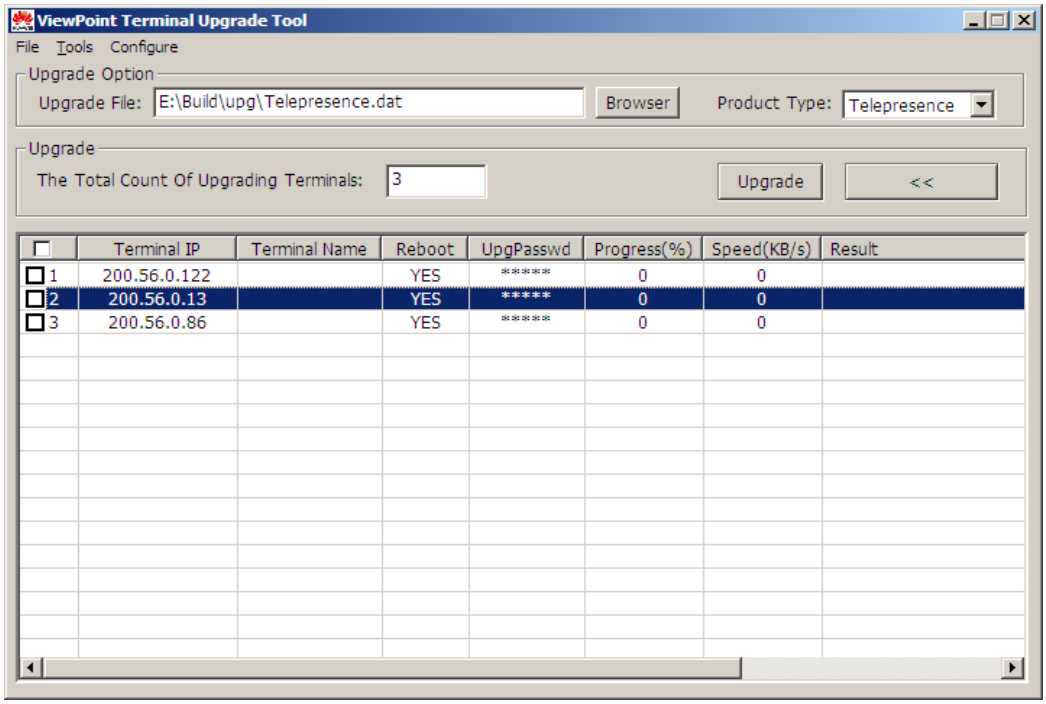
Figure 5-8 Adding IP addresses to the exported file



Step 7 Choose **File** > **Import** to import the IP address file.

The imported IP addresses are displayed in the upgrade tool window, as shown in Figure 1-11.

Figure 5-9 Imported IP addresses



Step 8 Select all the IP addresses.

Step 9 Click **Upgrade**.

----End

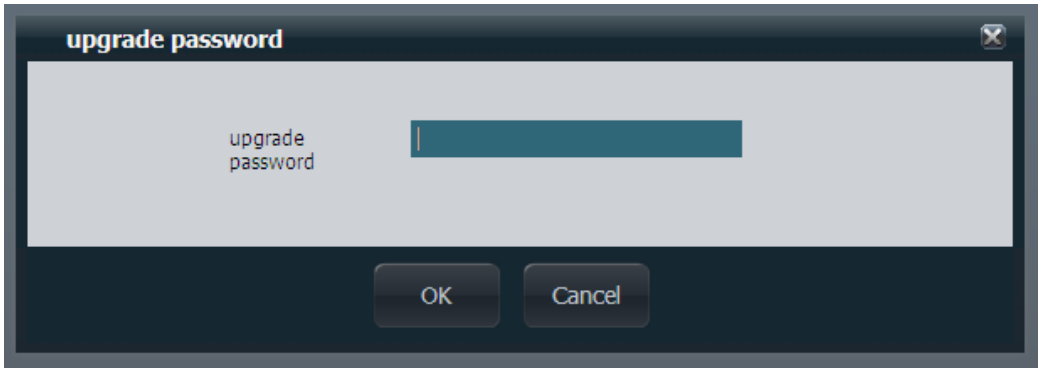
5.2.1.5 Upgrade Using the TE30 Web Interface

To perform a normal upgrade by importing the upgrade resource file from the TE30 web interface:

Step 1 Log in to the TE30 web interface, and choose **Maintenance** > **Upgrade**.

Step 2 In the displayed screen, enter the upgrade password set in section 1.1.5 "Setting the Upgrade Password", as shown in Figure 1-12.

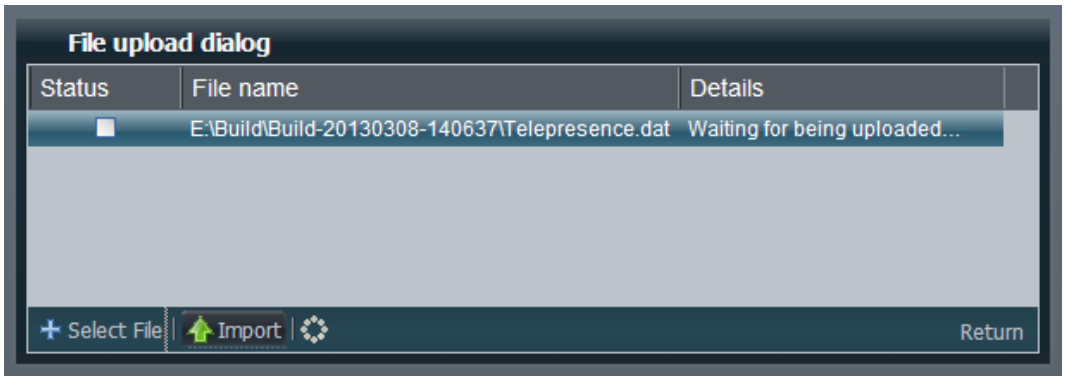
Figure 5-10 Entering the upgrade password



Step 3 In the displayed screen, click **Select File** to select the upgrade resource file, as shown in Figure 1-13.

The default upgrade resource file is **Telepresence.dat**.

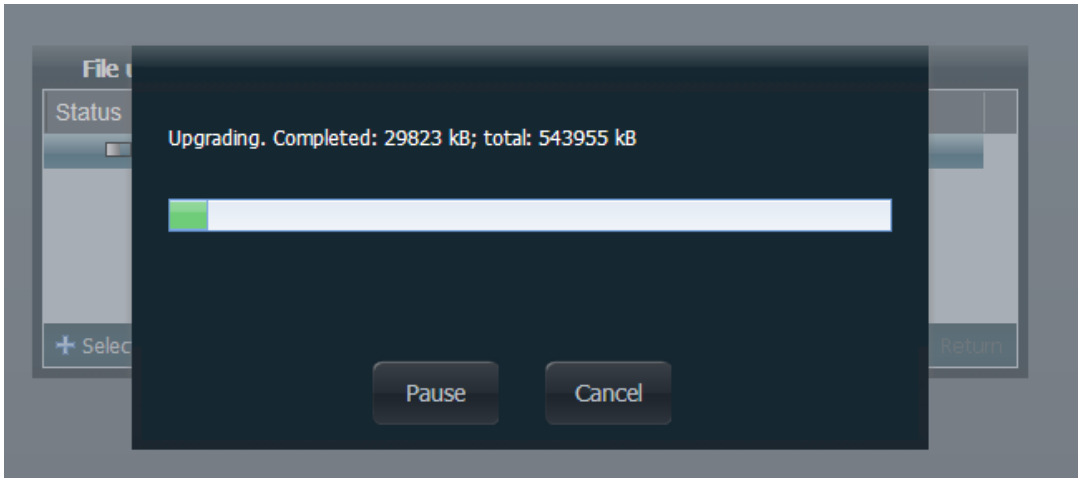
Figure 5-11 Selecting the upgrade resource file



Step 4 Click **Import**.

During the upgrade, a progress bar is displayed, as shown in Figure 1-14.

Figure 5-12 Upgrade progress bar



Step 5 Wait 5 minutes.

After the upgrade is complete, the TE30 automatically restarts.

----End

5.2.1.6 Upgrade Using the Automatic Upgrade Function

An automatic upgrade can be performed from the TE30 web interface or the remote control interface. You must configure an upgrade server and set related parameters before the upgrade.

5.2.1.7 Upgrade Server

How to build the upgrade the server, see Appendix: **Server structures introduced**.

5.2.1.8 Automatic Upgrade from the TE30 Web Interface

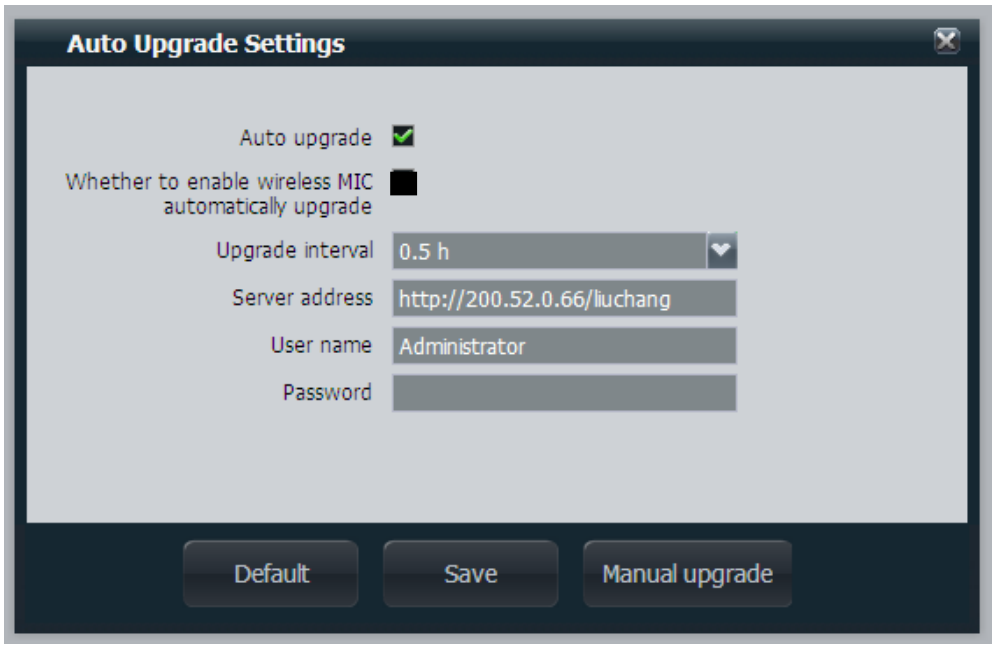
To perform automatic upgrade from the TE30 web interface:

Step 1 Log in to the TE30 web interface, and choose **System Settings** > **Installation**, as shown in Figure 1-15.

Figure 5-13 Performing an automatic upgrade

Step 2 Click **Auto Upgrade Settings** to display the **Auto Upgrade Settings** dialog box, as shown in Figure 1-16.

Figure 5-14 Auto Upgrade Settings dialog box



Note:

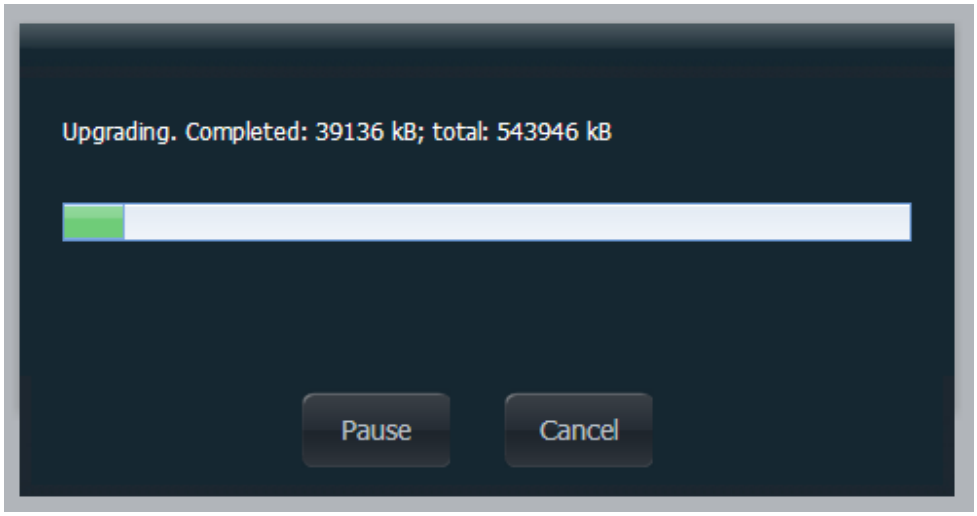
- **Auto upgrade**: specifies whether to enable automatic upgrade.

  - Selected: The TE30 checks the software version on the server at the specified upgrade interval and displays the upgrade prompt upon a new version. You can decide whether to perform the upgrade.
  - Deselected: The TE30 does not automatically upgrade.
- **Whether to enable wireless MIC automatically upgrade**: Do not select this item
- **Upgrade interval**: specifies the upgrade interval for automatic upgrade.
- **Server address**: specifies the upgrade server address.
- **User name**: specifies the user name.
- **Password**: specifies the password.

Step 3 Enter parameters correctly, and click **Manual upgrade**.

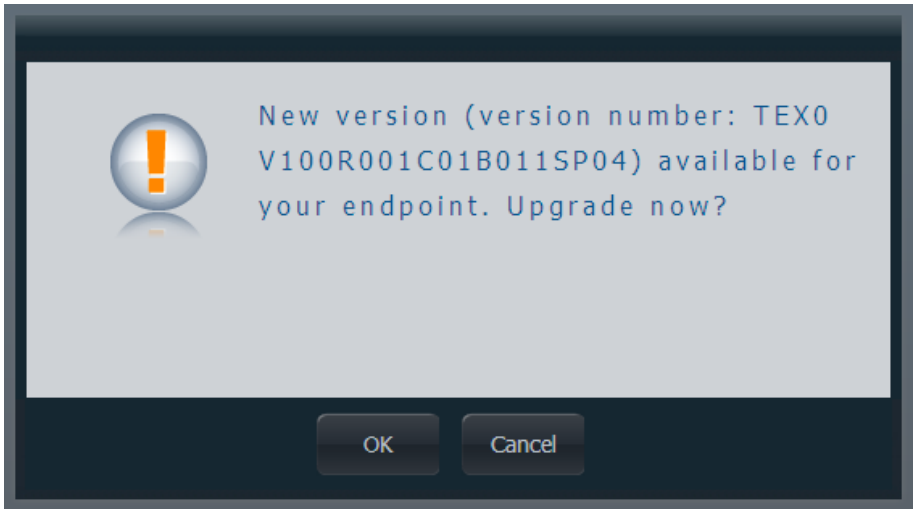
An upgrade progress bar is displayed, as shown in Figure 1-17.

Figure 5-15 Upgrade progress bar



If you click **Save** in Figure 1-16, the TE30 verifies whether the current software version is consistent with that on the upgrade server in every upgrade period. If the software versions are inconsistent, a message is displayed to indicate a new version and ask for confirmation, as shown in Figure 1-18.

Figure 5-16 Confirming the upgrade



Click **OK** to upgrade or **Cancel** to call off the upgrade. This message will be displayed when the next upgrade period arrives and a new software version has been detected on the upgrade server.

- **Automatic Upgrade from the remote control interface**

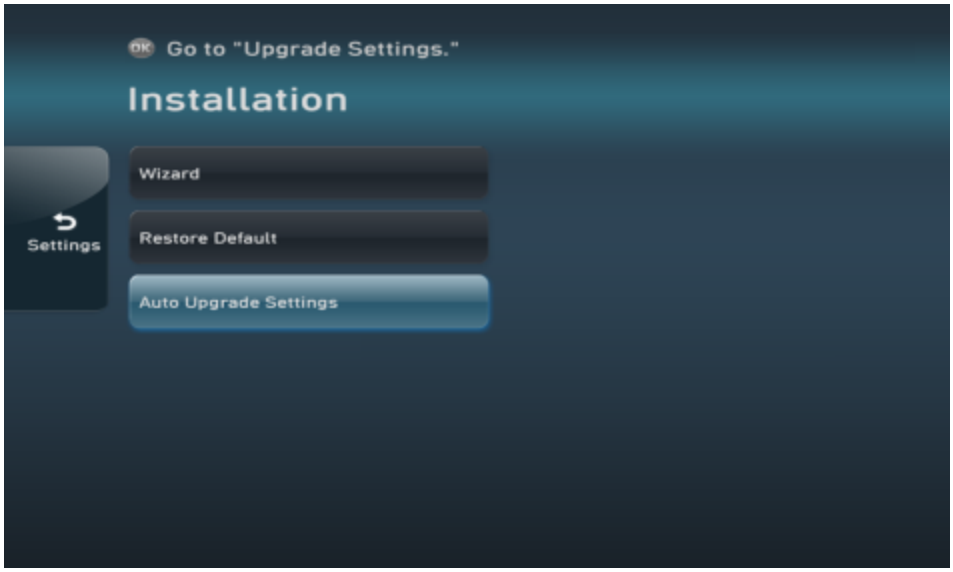
  To perform automatic upgrade from the remote control interface:

  Step 4 Log in to the remote control interface.

  Step 5 Click **Advanced** to display the **Settings** screen.

  Step 6 Click **Installation** to display the **Installation** screen, as shown in Figure 1-19.

Figure 5-17 Installation screen



Step 7 Click **Auto Upgrade Settings** to display the **Auto Upgrade Settings** screen, and set related parameters, as shown in Figure 1-20.

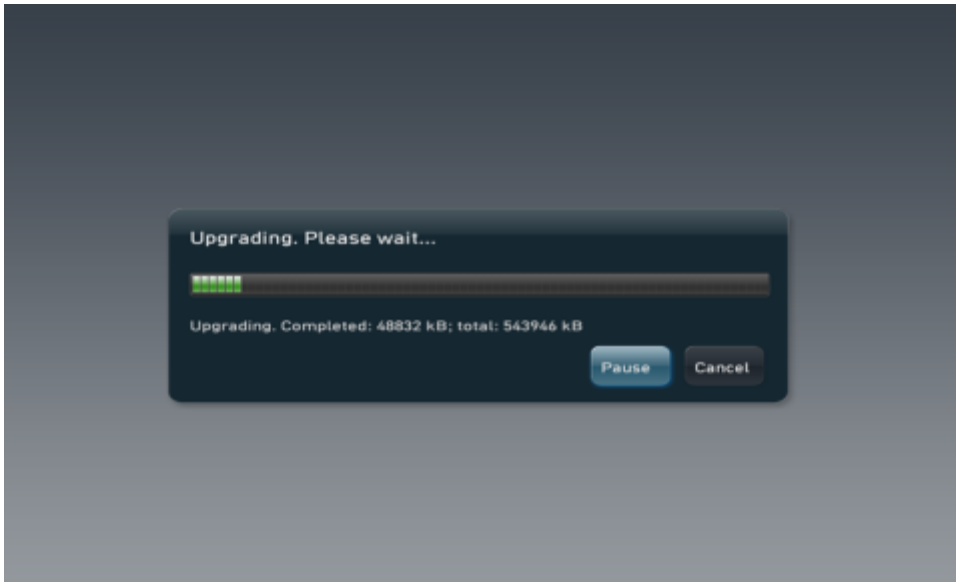
Figure 5-18 Setting parameters

Note: Parameters in Figure 3-18 are the same as those in Figure 1-16.

Step 8 Click **Manual upgrade**.

An upgrade progress bar is displayed, as shown in Figure 1-21.

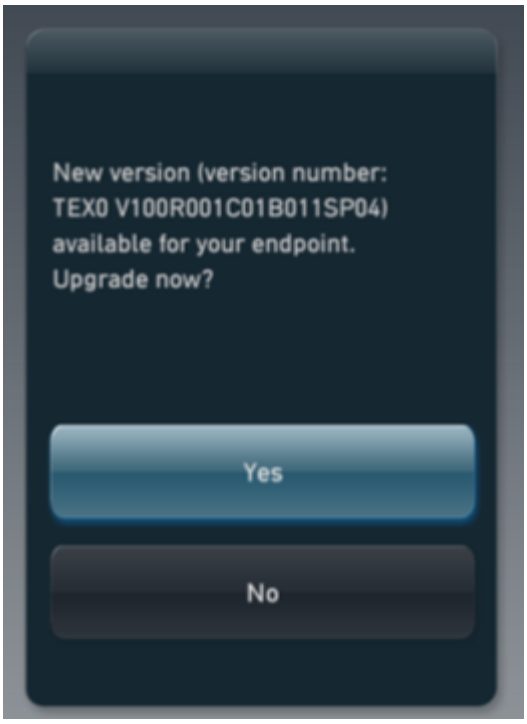
Figure 5-19 Upgrade progress bar



If you click **Save** in Figure 1-20, the TE30 verifies whether the current software version is consistent with that on the upgrade server in every upgrade period. If the software versions

are inconsistent, a message is displayed to indicate a new version and ask for confirmation, as shown in Figure 1-22.

Figure 5-20 Confirming the upgrade



Click **Yes** to upgrade or **No** to call off the upgrade. This message will be displayed when the next upgrade period arrives and a new software version has been detected on the upgrade server.

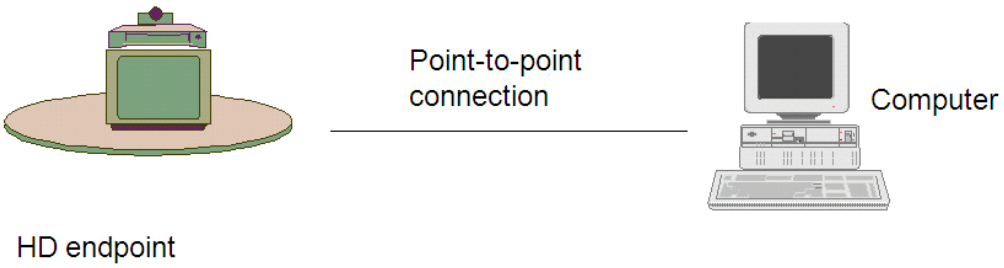
----End

5.2.2 Forcible Upgrade

If the TE30 cannot be upgraded using the normal system, use the bootrom system to perform a forcible upgrade.

Figure 5-213 shows the forcible upgrade diagram.

Figure 5-21 Forcible upgrade diagram



To perform a forcible upgrade:

Step 2 Restart the TE30. When the TE30 is starting, press and hold the MODE button for 3 seconds or more to enter the bootrom system.

Step 3 Wait about 1 minute.

Startup process, OLED screen displays Booting, After a successful start, displays the default IP address: 192.168.1.1.

Step 4 Turn on the switch of the bootrom system using Telnet or SSH command.

1. Log in to the TE30 using Telnet or SSH.

   The default user name and password for Telnet and SSH logins are both **debug**.

2. Run the following command:

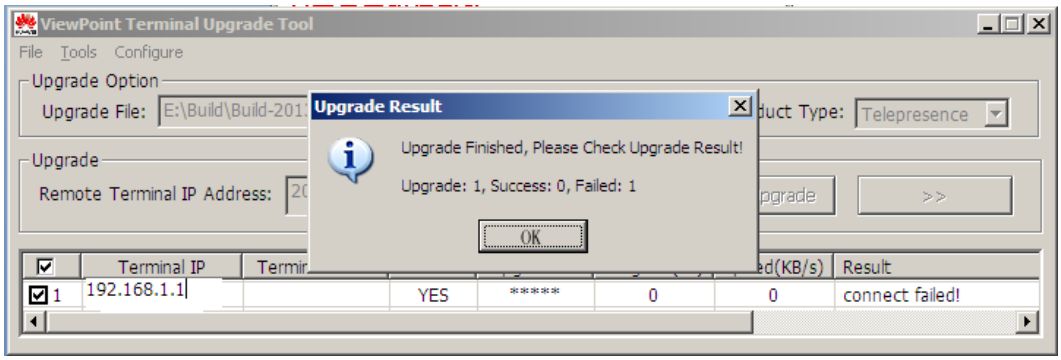
```
DM8148_A8-> mnt upgswitch on
```

The command output is as follows:

```
set upg switch success: ON.
```

If you skip this step, the error message shown in Figure 5-22 will be displayed when you perform 0.

Figure 5-22 Upgrade failure

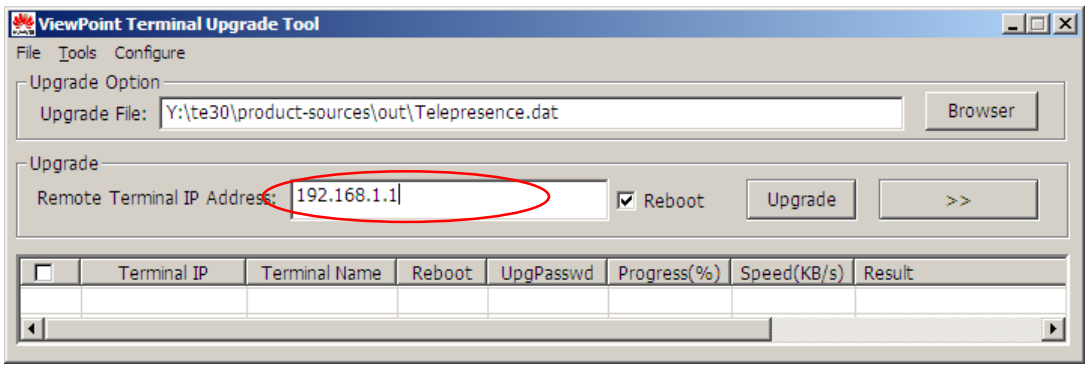


NOTE

According to the security policy, the bootrom system switch must be turned off. Therefore, the settings of bootrom system switch are not saved, and you must turn it on every time you perform the forcible upgrade.

Step 5 Upgrade the TE30 from a computer using UpgMaster.exe in the same way as the normal upgrade, as shown in Figure 5-235.

Figure 5-23 Upgrading the TE30



----End

NOTE

- The bootrom system has two IP addresses: the default IP address 192.168.1.1 and a static IP address the same as that of the normal system. If the normal system is unavailable, use the default IP address of the bootrom system for upgrade. In this case, connect the host and the TE30 directly, or set the host IP address to a value that is in the same network segment as that of the TE30 and ensure that the host and TE30 can communicate with each other. Then, upgrade the TE30 in a way the same as the normal upgrade.
- To enter the bootrom system, you must press the MODE button when the TE30 is starting.
- The switch of the bootrom system is mandatory to improve security. After logging in to the bootrom system using Telnet, you can run mc debug to change the password for debug users. The password will be saved after power-off, but the switch status will not.

6 Display Settings

6.1 Precautions

- Do not adjust the image parameters.
- Set the video input source to **HDMI 1** and presentation input source to **PC**.
- Disable **No signal stand by**. Otherwise, the RP performance may be affected.
- After the HD display is installed, set its power switch to ON.

NOTE

There are two ways to boot delay when the new TCL's TV on startup and the"**ON**"is corresponds to the 60s and the "**OFF**" is corresponds to 23s.when the TV supporting the TE30 terminal, you need to boot delay corresponding parameter is set to "**ON**" and the power-delay defaults to 60s.

6.2 Setting the System Language

Step 1 Press the menu key on the remote control of the HD display, scroll to **Settings**, and press **OK**.

Step 2 Scroll to **Picture** and press **OK**. Scroll to **Function** and press **OK**.

Step 3 Scroll to **Language** and press **OK**. Scroll to the desired language and press **OK**.

----End

6.3 Disabling No Signal Stand By

Step 1 Press the menu key on the remote control, scroll to **Settings**, and press **OK**.

Step 2 Scroll to **Picture** and press **OK**. Scroll to **Function** and press **OK**.

Step 3 Scroll to **No signal stand by** and press **OK**.

----End

6.4 Setting the Image Size

Step 1 Press the menu key on the remote control, scroll to **Settings**, and press **OK**.

Step 2 Scroll to **Picture** and press **OK**.

Step 3 Scroll to **Picture Size** and press **OK**. Scroll to **Native** and press **OK**.

----End

6.5 Troubleshooting

When the presentation display in an RP200 system is used to show 1080p or 1280 x 1024 pixels images, part of an image may be cut, or the image is not displayed in full screen. Perform the following steps to address this issue.

Step 1 Press the menu key on the remote control, scroll to **Settings**, and press **OK**.

Step 2 Scroll to **Geometry** and press **OK**.

Step 3 Scroll to **Auto Adjust** and press **OK**.

----End

Perform this procedure again if the issue persists.

7 System Settings

Configure the HD videoconferencing endpoint according to the following section to ensure that common videoconferencing requirements are met.

7.1 Logging In to the TE30 Web Interface

Log in to the videoconferencing endpoint's web interface.

By default, both the user name and password are **admin**.

Figure 7-1 Login page

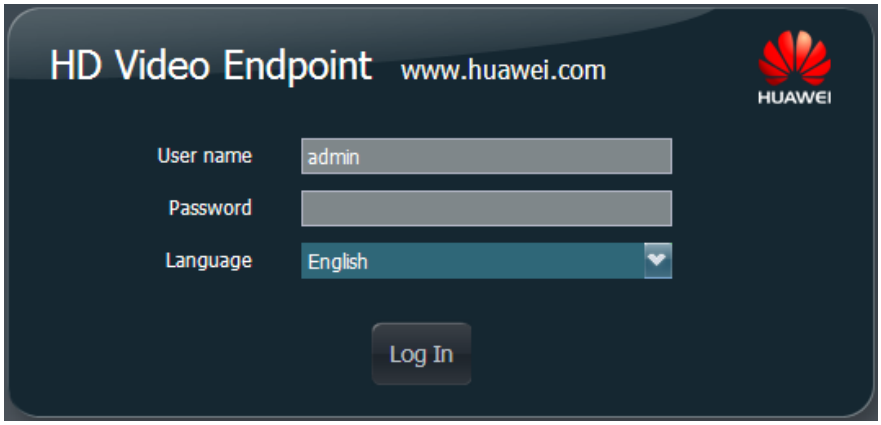


Figure 7-2 shows the TE30 settings interface.

Figure 7-2 TE30 settings interface.

7.2 Setting the General Parameters

Choose **System Settings** > **General** and set the parameters according to Table 7-1, Table 7-2, and Table 7-3.

Figure 7-3 Time and Time zone

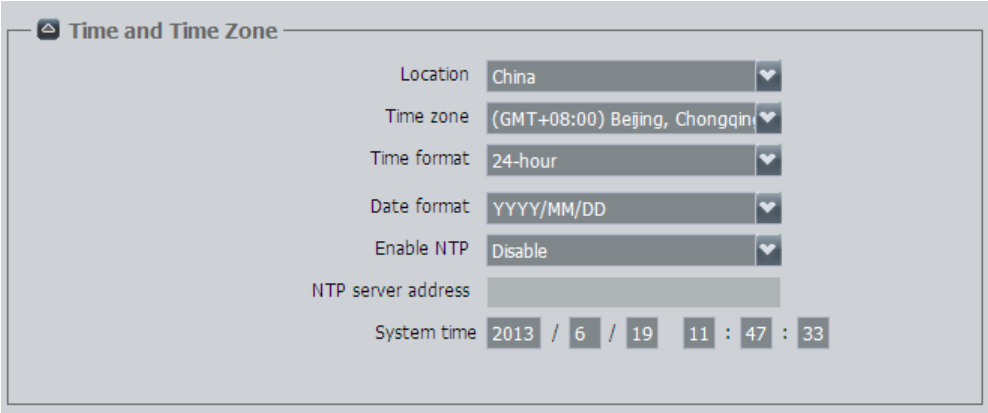


Table 7-1 Time and time zone settings

Parameter	Value	Remarks
Location	France	Set the value based on the actual condition.
Time zone	(GTM+08:00) Beijing, Chongqing	Set the value based on the actual condition.
Time format	24-hour	Set it based on the actual condition.
Date format	YYYY/MM/DD	Recommended value.
Enable NTP	Disable	Set it based on the actual condition.
FTP server address	172.19.1.63	This parameter is available when NTP is enabled. Set it based on the actual condition.
System time	2013/5/2 0:32:0	Set it based on the actual condition.

Figure 7-4 Power management

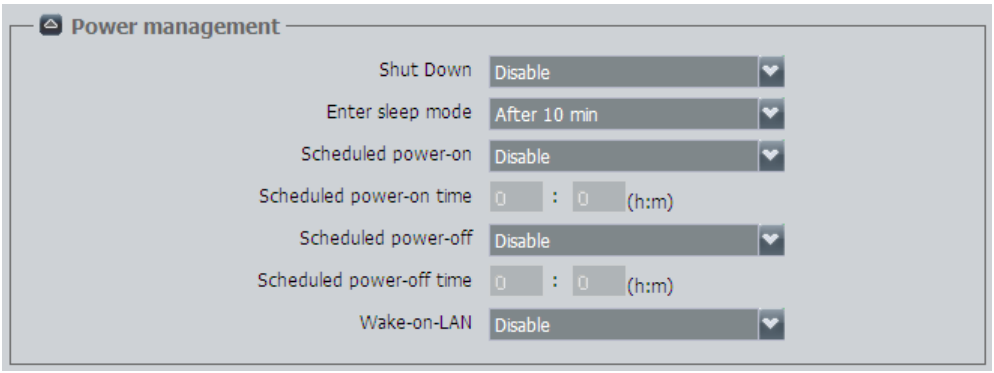


Table 7-2 Power management settings

Parameter	Value	Remarks
Shut Down	Disable	Recommended value.
Enter sleep mode	After 10 min	Recommended value.
Scheduled power-on	Disable	Default value.
Scheduled power-on time	0:0	Set it based on the actual condition.
Scheduled Power-off	Disable	Default value.
Scheduled power-off time	0:0	Set it based on the actual condition.
Wake-on-LAN	Disable	Default value.

Figure 7-5 Personal

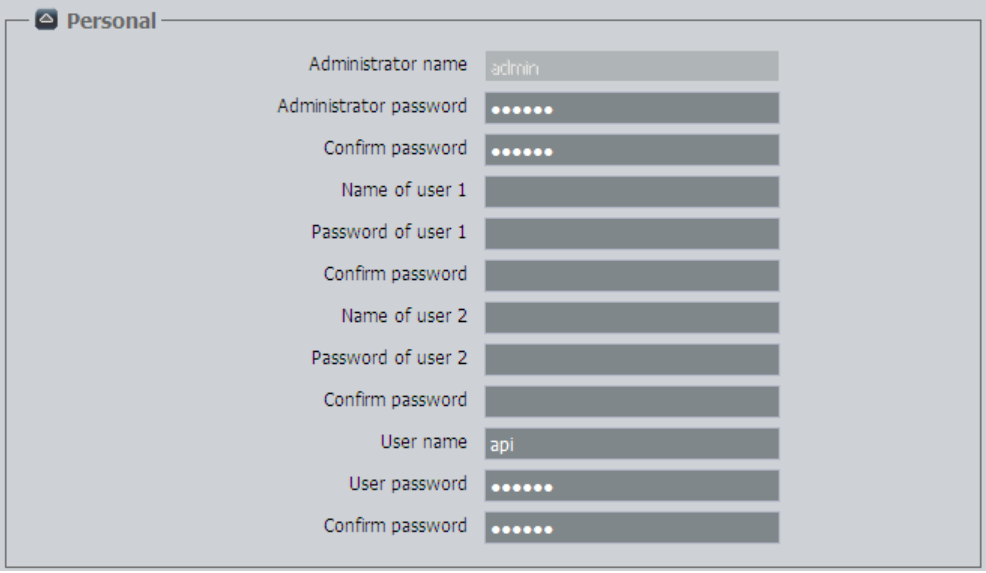


Table 7-3 User settings

Parameter	Value	Remarks
Administrator name	admin	Fixed value. This user can configure the system settings for the videoconferencing endpoint.
Administrator password	admin	Set it based on the actual condition.
Confirm password	admin	Set it based on the actual condition.
Name of user 1	-	Reserved user. This user cannot configure the system settings for the videoconferencing endpoint.
Password of user 1	-	-
Confirm password	-	-
Name of user 2	-	Reserved user. This user cannot configure the system settings for the videoconferencing endpoint.
Password of user 2	-	-
Confirm password	-	-

User name	api	Reserved user. This user cannot configure the system settings for the videoconferencing endpoint.
User password	api	Default value.
Confirm password	api	Default value.

7.3 Setting the Site Name

Choose **System Settings** > **Display** and set the parameters according to Table 7-4.

Figure 7-6 Setting Site Name

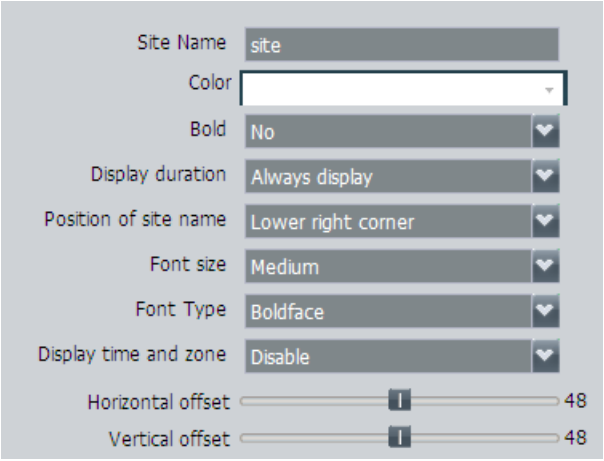


Table 7-4 Site name settings

Parameter	Value	Remarks
Site Name	site	Set this parameter based on the real word situation.
Color	White	Recommended value.
Bold	No	Recommended value.
Display duration	Always display	Default value.
Position of site name	Lower right corner	Default value.
Font size	Small	Recommended value.
Display time and zone	Disable	Default value.

Horizontal offset	48	Default value.
Vertical offset	48	Default value.

7.4 Configuring Input and Output

Choose **System Settings** > **Input/Output** and set the parameters according to Table 7-5 and Table 7-6.

7.4.1 Configuring Video Input

Click **Video Input** and set the parameters according to Table 7-5.

Figure 7-7 Video input settings

Table 7-5 Video input settings

Parameter	Value	Remarks
Common Camera Settings		
Remote control	Forbid	Recommended value.
Built-in camera		
Name	CAM IN	Default value.
Moving speed	Medium	Recommended value.
Initial position	Auto	Default value.
Stretch mode	Stretch	Recommended value.
VGA IN		
Name	VGA IN	Default value.
Stretch mode	Stretch	Recommended value.

7.4.2 Configuring Video Output

Click **Video Output** and set the parameters according to Table 7-6. Not the difference when configuring the RP100 or RP200.

Figure 7-8 Video output settings

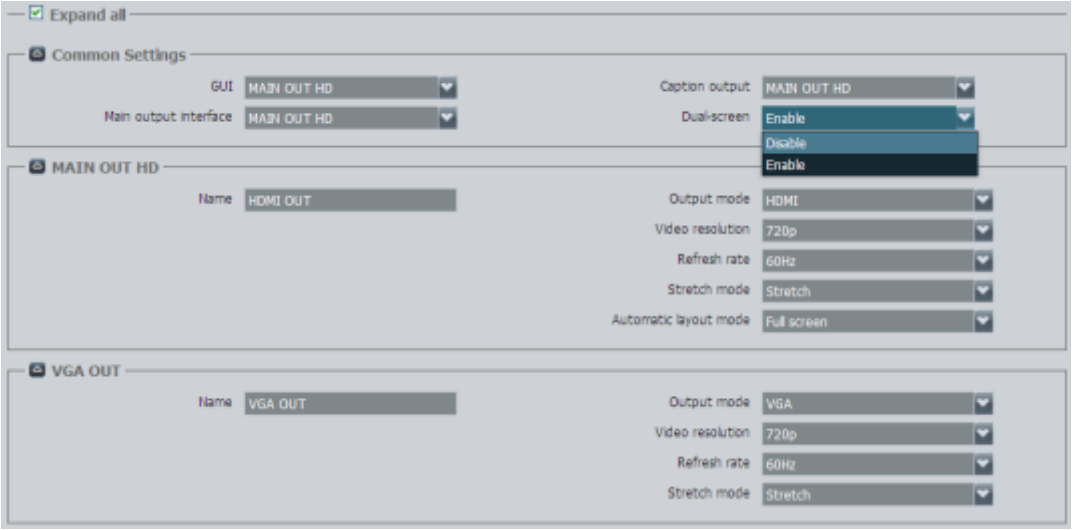


Table 7-6 Video output settings

Parameter	Value	Remarks
Common Settings		
GUI	MAIN OUT HD	Default value.
Caption output	MAIN OUT HD	Default value.
Main output interface	MAIN OUT HD	Default value.
Dual-screen	Disable/Enable	Set it to **Disable** for the RP100 with no presentation screen. Set it to **Enable** for the RP100 or RP200 with a presentation screen.
MAIN OUT HD		
Name	HDMI OUT	Default value.
Video resolution	720p	Recommended value.
Refresh rate	60Hz	Recommended value.
Stretch mode	Stretch	Recommended value.
Automatic layout mode	Full screen	Recommended value.

VGA OUT		
Name	VGA OUT	Default value.
Output Mode	VGA	Default value.
Video resolution	720p	Recommended value.
Refresh rate	60Hz	Recommended value.
Stretch mode	Stretch	Recommended value.

7.5 Setting Conference Parameters

Choose **System Settings** > **Conference** and set the parameters according Table 7-7 and Table 7-8.

7.5.1 Configuring Common Settings

Choose **System Settings** > **Conference** > **Common Settings** and set the parameters according to Table 7-7.

Figure 7-9 Common conference parameters

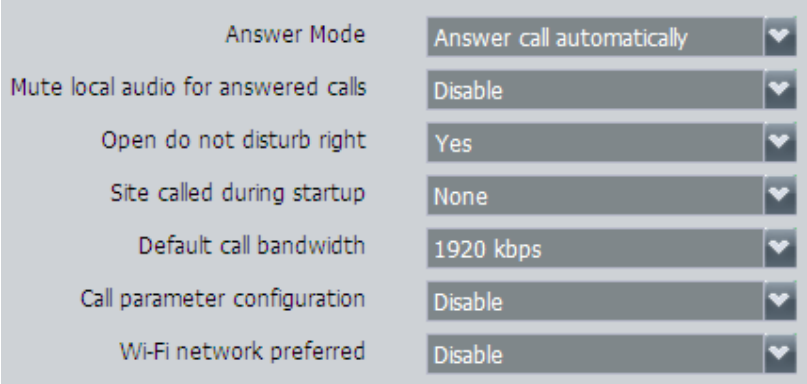


Table 7-7 Common conference parameter settings

Parameter	Value	Remarks
Answer mode	Answering call automatically	Recommended value.
Mute local audio for answered calls	Disable	Default value.
Open do not disturb right	Yes	Default value.

Site called during startup	None	Default call bandwidth
Default call bandwidth	1920 kbps	Recommended value.
Call parameter configuration	Disable	Default value.
Wi-Fi network preferred	Disable	Default value.

7.5.2 Configuring Advanced Settings

Choose **System Settings** > **Conference** > **Advanced Settings** and set the parameters according to Table 7-8.

Figure 7-10 Advanced conference parameters

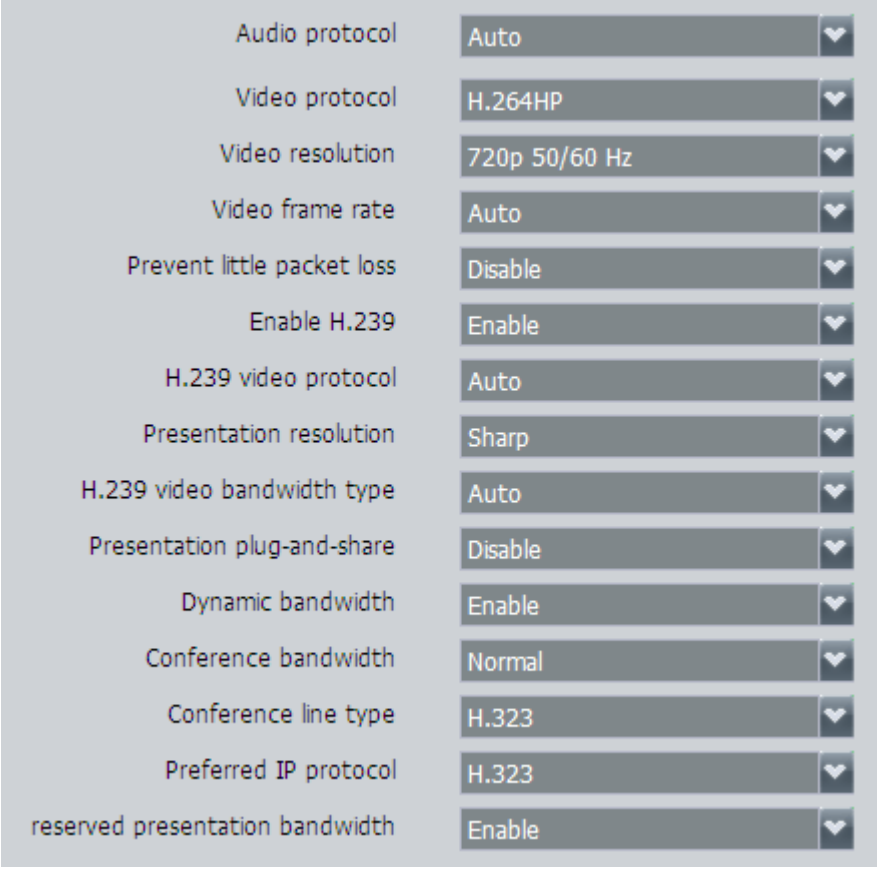


Table 7-8 Advance conference parameter settings

Parameter	Value	Remarks
Audio protocol	Auto	Default value.
Video protocol	H.264HP	Recommended value.
Video resolution	720p 50/60 Hz	Recommended value.
Video frame rate	Auto	Default value.
Prevent little packet loss	Disable	Default value.
Enable H.239	Enable	Default value.
H.239 video protocol	Auto	Default value.
Presentation resolution	Sharp	Default value.
H.239 video bandwidth type	Auto	Recommended value.
Presentation plug-and-share	Disable	Recommended value.
Dynamic bandwidth	Disable	Default value.
Conference bandwidth	Normal	Default value.
Conference line type	H.323	Recommended value.
Preferred IP protocol	H.323	Recommended value.
reserved presentation bandwidth	Disable	Recommended value.

7.6 Setting Network Parameters

Choose **System Settings** > **Network** and set the parameters according to Table 7-9 and Table 7-10.

7.6.1 Setting GK and SIP Parameters

Choose **System Settings** > **Network** > **H.323** and set the parameters.

Figure 7-11 H.323 parameters

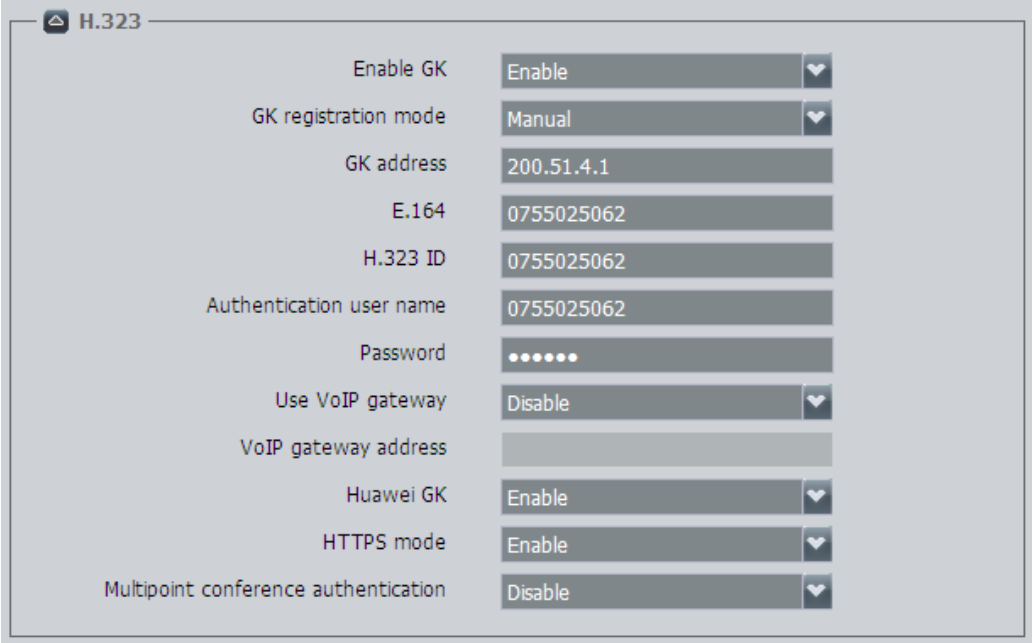


Table 7-9 H.323 settings

Parameter	Value	Remarks
Enable GK	Enable	Set it to **Enable** when a GK is used.
GK registration mode	Manual	Recommended value.
GK address	200.51.4.1	Set it based on the actual condition.
E.164	0755025062	Set it based on the actual condition.
H.323 ID	0755025062	Set it based on the actual condition.
Authentication user name	0755025062	Set it based on the actual condition.
Password	-	Set it based on the actual condition.
Use VoIP gateway	Disable	Recommended value.
VoIP gateway address	-	Default value.
Huawei GK	Enable	Set it to **Enable** when a Huawei GK is used.
HTTP mode	Enable	Recommended value. Set it to **Enable** if the service layer supports HTTPS calls.

Multipoint conference authentication	Disable	Default value.

Click **SIP** and set the parameters.

Figure 7-12 SIP parameters

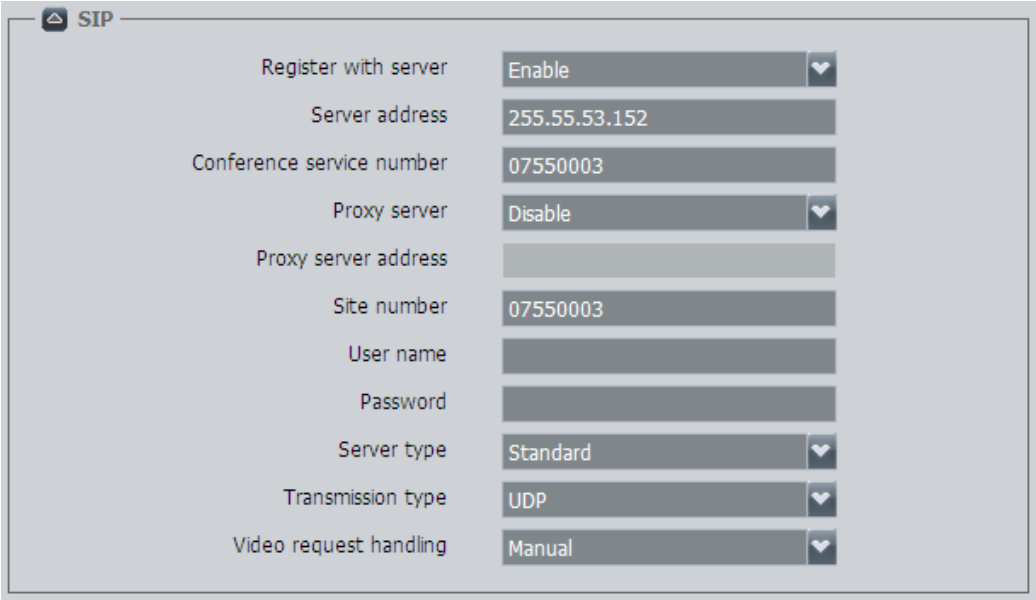


Table 7-10 SIP settings

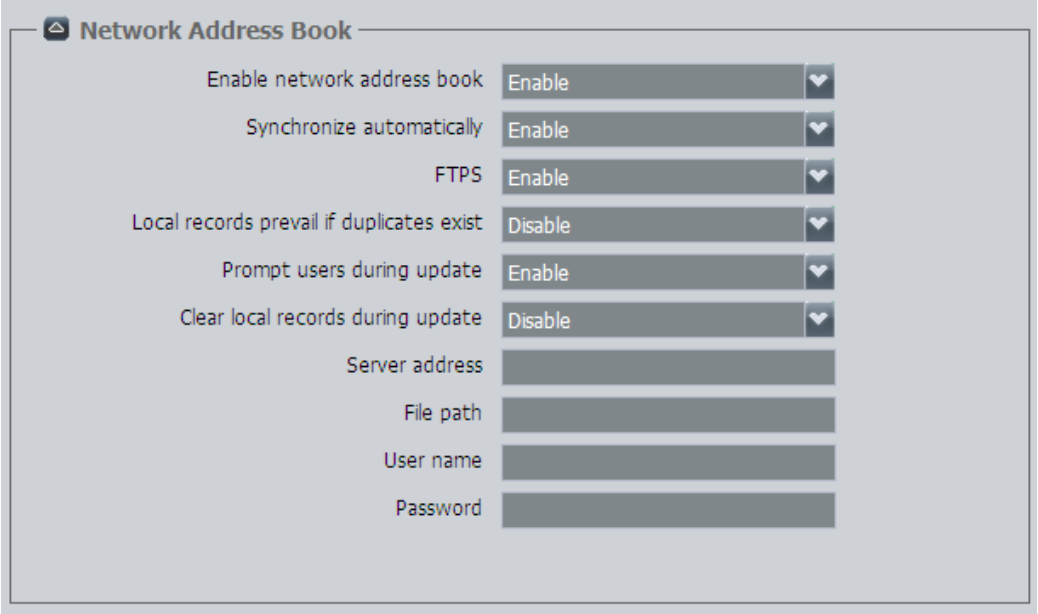
Parameter	Default Value	Remarks
Register with server	Enable	Set it to **Enable** when SIP is used.
Server address.	200.55.53.152	Set it based on the actual condition.
Conference service number	07550003	Set it based on the actual condition.
Proxy server	Disable	-
Proxy server address	-	Set it based on the actual condition.
Site number	07550003	Set it based on the actual condition.
User name	-	Set it based on the actual condition.
Password	-	Set it based on the actual condition.
Server type	Standard	Recommended value.
Transmission type	UDP	Set it based on the actual condition.

Video request handling	Manual	Set it based on the actual condition.

7.6.2 Setting Network Address Book Parameters

Choose **System Settings** > **Network** > **Network Address Book**, set **Enable network address book** to **Enable** and **Synchronize automatically** to **Enable**, and choose to enable or disable FTPS based on the status of the network address book on the service layer.

Figure 7-13 Network Address Book



If the current network support LADP address books, configure the LDAP server settings based on the actual condition.

Figure 7-14 LDAP Server

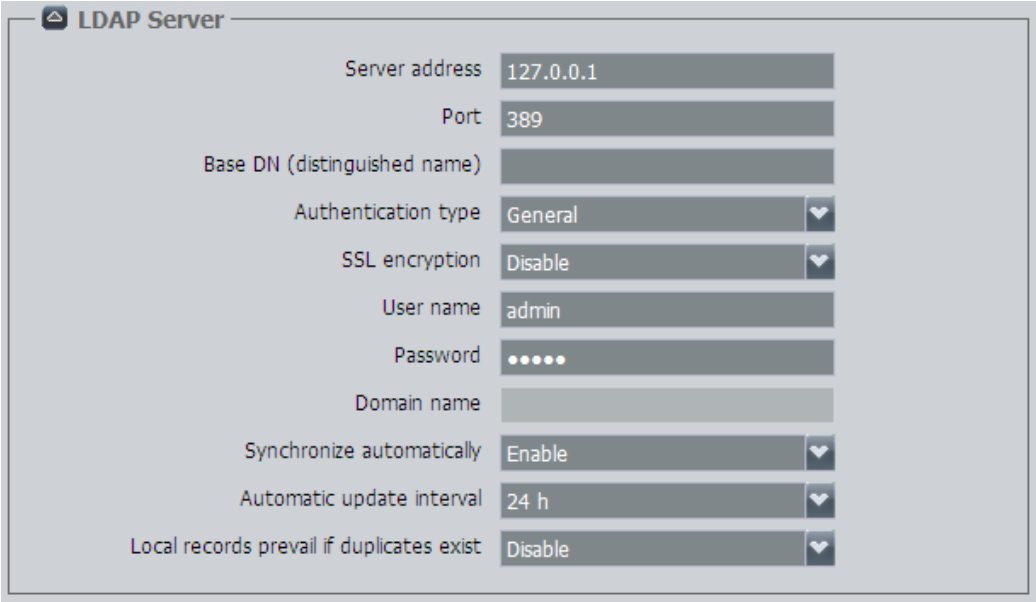


Table 7-11 LDAP server settings

Parameter	Default Value	Remarks
Server address.	127.0.0.1	Set it based on the actual condition.
Port	389	Set it based on the actual condition.
Base DN (distinguished name)	-	Set it based on the actual condition.
Authentication type	Basic	-
SSL encryption	Disable	-
User name	admin	Set it based on the actual condition.
Password	admin	Set it based on the actual condition.
Domain name	-	-
Synchronize automatically	Enable	-
Automatic update interval	24 h	-
Local records prevail if duplicates exist	Disable	-

7.7 Configuring Security Settings

Choose **System Settings** > **Security** and configure **SSH/Telnet**, **GUI**, and **Upgrade password** settings.

Figure 7-15 SSH/Telnet, GUI, and Upgrade password

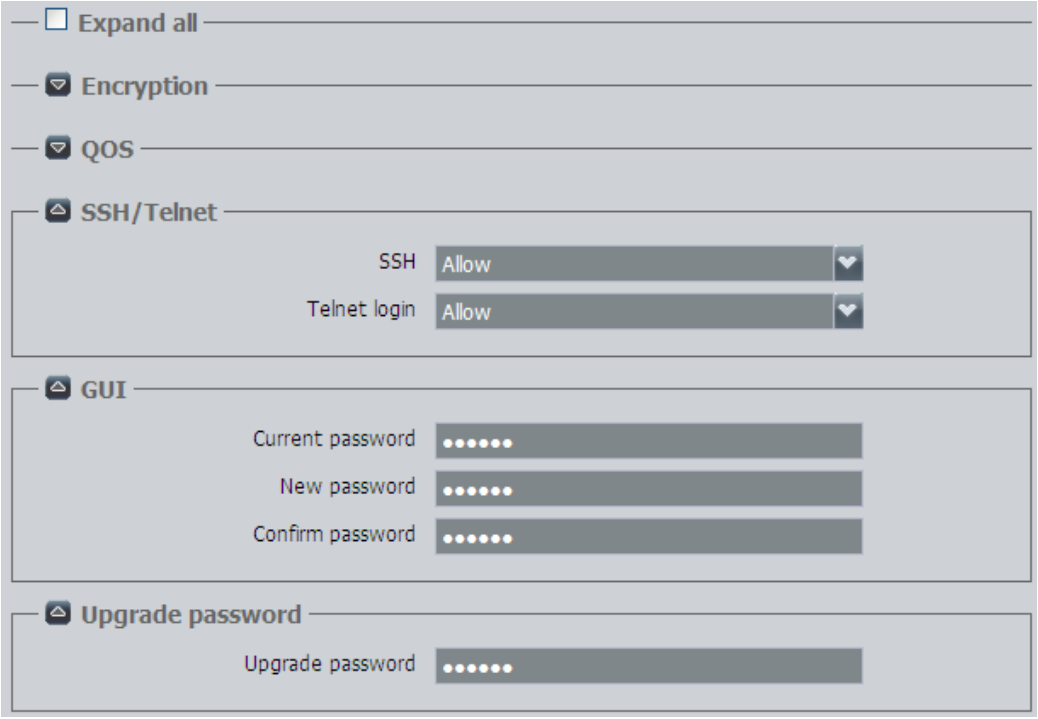


Table 7-12 Security settings

Parameter	Default Value	Remarks
SSH	Forbid	Recommended value. Set it to **Allow** when commissioning the system.
Telnet login	Forbid	Recommended value. Set it to **Allow** when commissioning the system.
GUI settings	-	The password is null by default. Set these parameters based on the actual condition.
Upgrade password	-	The upgrade password is null by default. Set it based on the actual condition.

7.8 Device Control

Device control settings include parameters for audio and video control.

7.8.1 Setting Video Control Parameters

Choose **Device Control** > **Video Control** and set the parameters according to Table 7-13.

Figure 7-16 Video input and output sources

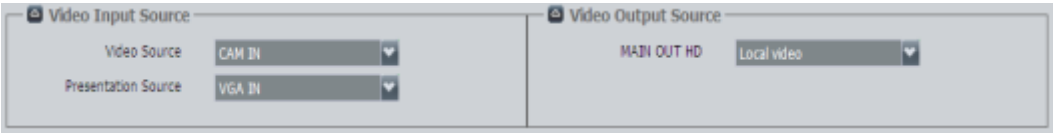


Table 7-13 Video control settings

Area	Parameter	Default Value	Remarks
Video Input Source	Video Source	CAM IN	Fixed value.
	Presentation Source	VGA IN	Fixed value.
Video Output Source	MAIN OUT HD	Local video	Fixed value.

7.8.2 Setting Audio Control Parameters

Choose **Device Control** > **Audio Control** and set the parameters according to Table 7-14.

Figure 7-17 Audio input and output and sound effect parameters

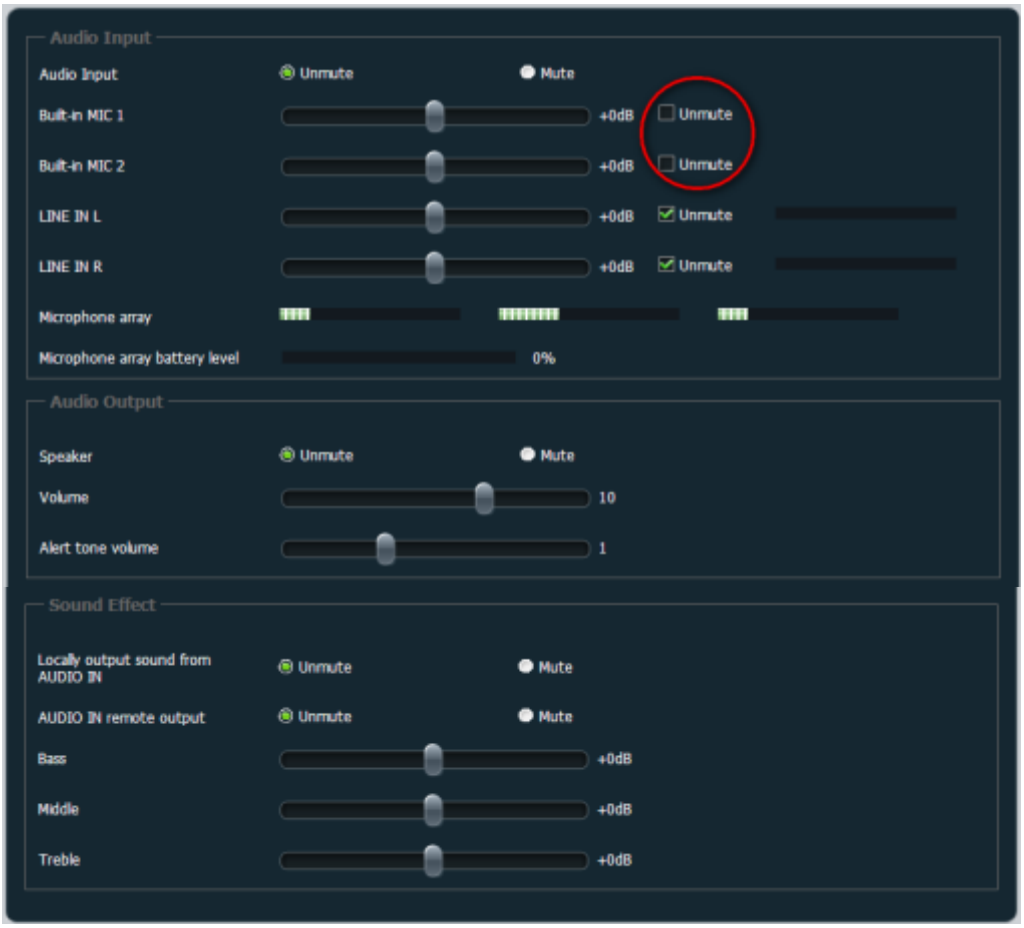


Table 7-14 Audio control settings

Parameter	Default Value	Remarks
Audio Input	Unmute	Recommended value.
Built-in MIC1	**0dB** **Unmute** cleared	Recommended values.
Built-in MIC2	**0dB** **Unmute** cleared	Recommended values.
AUDIO IN L	**0dB** **Unmute** selected	Recommended values.
AUDIO IN R	**0dB** **Unmute** selected	Recommended values.
Speaker	Unmute	Default value.
Volume	10	Recommended value.
Alert tone volume	1	Recommended value.

Locally output sound from AUDIO IN	Unmute	Default value.
AUDIO IN remote output	Unmute	Default value.
Bass	0dB	Default value.
Middle	0dB	Default value.
Treble	0dB	Default value.

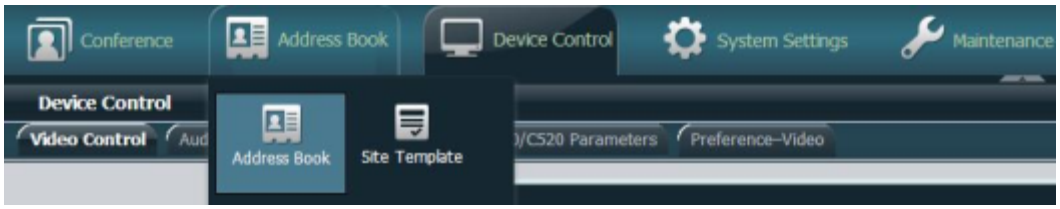
NOTE
Because the VPM220 is used, do not select **Unmute** for **Built-in MIC1** or **Built-in MIC2**.

7.9 Configuring the Address Book

7.9.1 Importing an Address Book

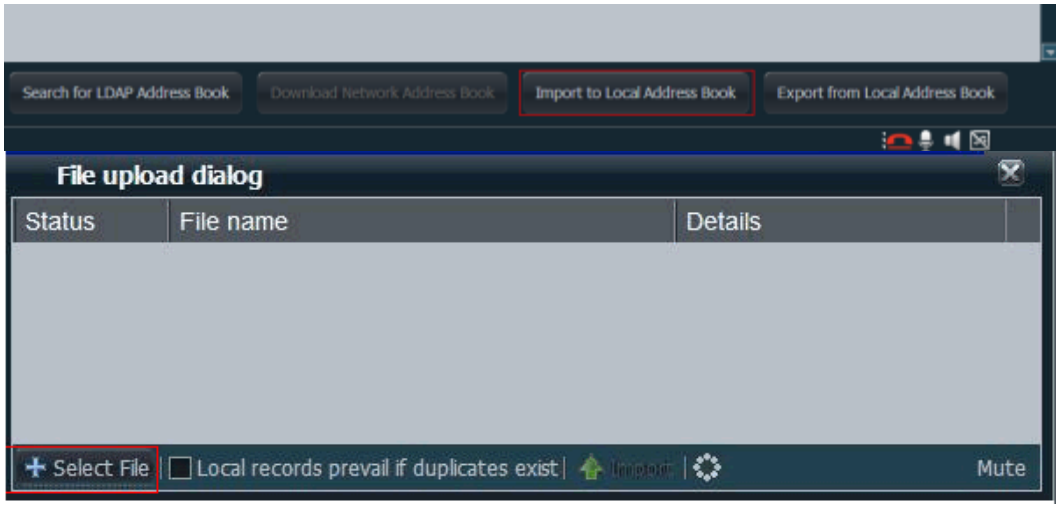
Step 1 Choose **Address Book** > **Address Book** to display the **Address Book** settings screen, as shown in Figure 7-18.

Figure 7-18 Address Book



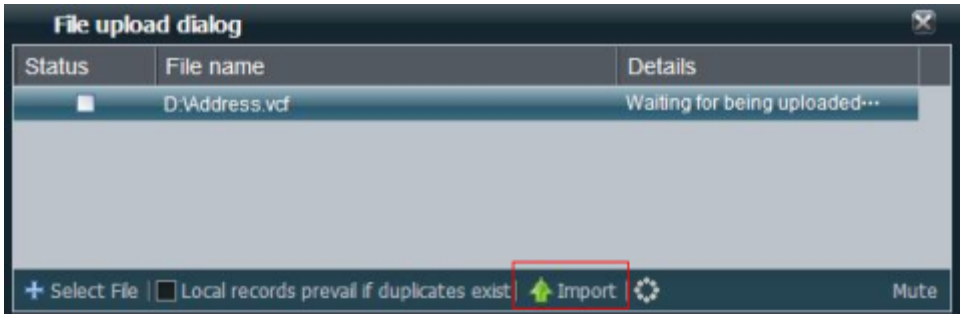
Step 2 Click **Import to Local Address Book** in the lower right corner. On the displayed dialog box, click **Select File** and select the **Address. vcf** file.

Figure 7-19 Importing contacts to the local address book



Step 3 Click **Import**.

Figure 7-20 Clicking Import



----End

7.9.2 Exporting an Address Book

Before exporting the local address book, configure the browser as follows. Otherwise, the operation may fail.

Step 1 Open the Internet Explorer.

Step 2 Choose **Tools** > **Internet Options**. In the displayed **Internet Options** dialog box, click the **Security** tab.

Step 3 Click **Custom Level**. In the displayed **Security Settings** dialog box, set **Active scripting** and all the items under **Downloads** to **Enable**.

Step 4 Click **OK**.

Step 5 Choose **Trusted sites** > **Sites** to display the **Trusted sites** dialog box. Enter the IP address of the videoconferencing endpoint and click **Add**.

Step 6 Click **OK**.

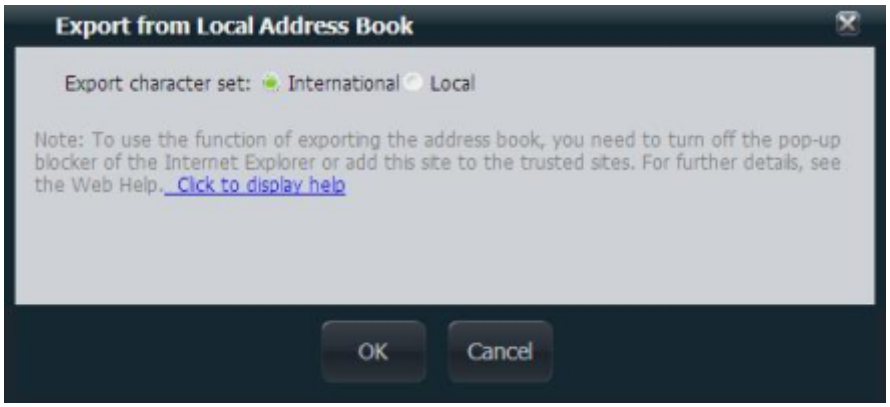
Step 7 Click the **Privacy** tab. Then set the slider label to **Medium**.

Step 8 Click **OK** to save the settings.

----End

To export the address book, click **Export from Local Address Book** on the **Address Book** screen and click **OK**. Select a save path for the address book. A .vcf file is then saved to the path.

Figure 7-21 Clicking OK



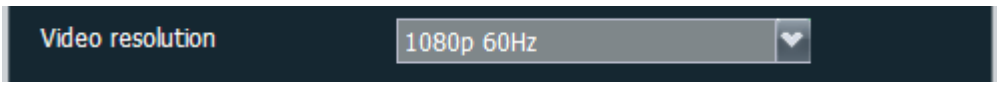
8 Camera Settings

To configure the camera:

Step 1 Open the Internet Explorer, enter the IP address of the videoconferencing endpoint in the address box, and log in to the web interface. Choose **Device Control** > **Built-in Camera Parameters.**

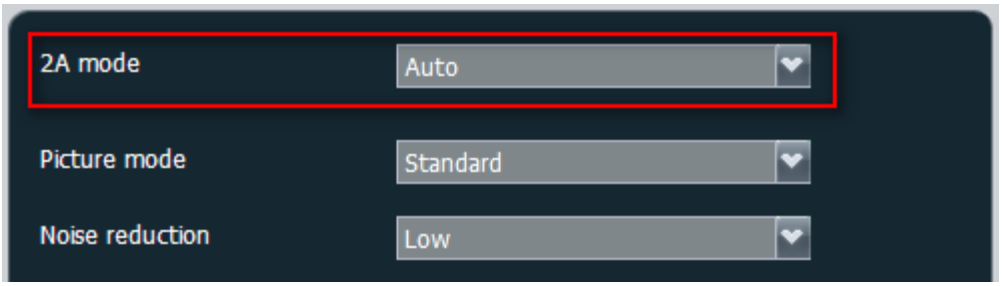
Step 2 Set **Video resolution** to **1080p 60Hz**, as shown in Figure 8-1.

Figure 8-1 Video resolution



Step 3 Set **2A mode** to **Auto**, as shown in Figure 8-2. The camera then calculates the best effects based on the actual environment.

Figure 8-2 2A mode



If the actual environment is tough and the camera brightness and color fail to meet requirements, set **2A mode** to **Manual** and adjust the other parameter settings for a satisfying effect.

Figure 8-3 Manual 2A mode settings

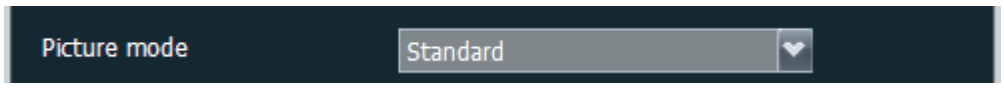
Table 8-1 2A mode settings

Parameter	Default Value
Brightness gain	Affects the image brightness. Minimizing the value reduces the image noise as well as darkens the image. Set it based on the actual condition.
Shutter speed	Recommended value: **1/60**
Iris	Determines the camera apertures and affects the image definition. When the Iris increases, the image brightness increases while the depth of the field decreases. Set it based on the actual condition.
Red gain	Set it based on the actual condition.
Blue gain	Set it based on the actual condition.

NOTE
Adjust the image brightness by setting **Brightness gain** and **Iris**. Adjust the image color by setting **Red gain** and **Blue gain**.

Step 4 Keep the default value **Standard** for **Picture mode**.

Figure 8-4 Picture mode



Step 5 Set **Noise reduction** to **Mute**.

If the image noise is high, set **Noise reduction** to **Low**. Do not set it to **High**; otherwise, ghost images may appear.

Figure 8-5 Noise reduction

----End

9 Appendix-Physical Buttons

The TE30 provides two physical buttons: MODE and SELECT.

9.1 MODE Button

The MODE button provides three functions, as listed in Table 9-1.

Table 9-1 Functions of the MODE button

No.	To...	You...
1	Restore the TE30 to its default settings	Press and hold the MODE button for 10s or more when the TE30 is operating properly.
2	Enter the bootrom system	Press and hold the MODE button for 3s or more when the TE starts powering on. You can then use the TE30's upgrade tool to upgrade the TE30 using the bootrom system.
3	Place the TE30 in sleep mode or wake it up	Press the MODE button when the TE30 is operating properly.

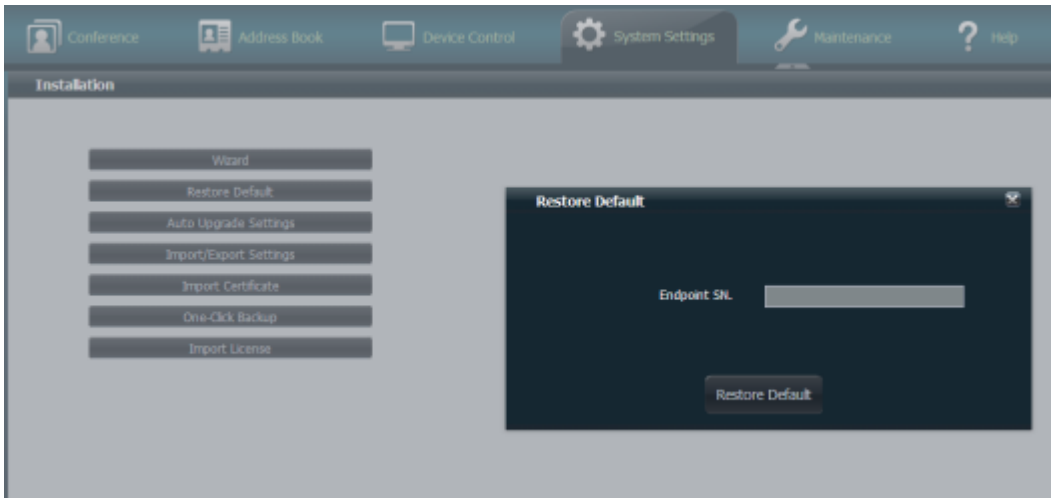
NOTE
If the TE30 is used in a conference or being upgraded, it will not go to sleep after you press the MODE button. Instead, an error message will be displayed on the remote controlled UI.

You can restore the TE30 to its default settings through the web interface.

When the TE30 is running, log in to its web interface, choose **System Settings** > **Installation** > **Restore Default**, and enter the TE30's SN in the displayed dialog box.

When the TE30 operates properly, press and holds the MODE button for about 10 seconds to restore the default settings and restarts the TE30. After the restoration, the default TE30 IP address is **192.168.1.1**.

Figure 9-1 Restore Default dialog box



Note

To obtain the SN of a videoconferencing endpoint, choose **Help** > **Version** on the web interface.

9.2 SELECT Button

Table 9-2 Functions of the SELECT button

No.	To...	You...
1	Restore the TE30 to the previous settings	Press and hold the SELECT button for 10s or more when the TE30 is operating properly.
2	Switch the VGA OUT port between VGA and YPrPb modes	Press the SELECT button when the TE30 is operating properly.

NOTE

Currently, only YprPb 720p60 and 1080p60 can be switched to VGA mode. If you attempt switch other modes to VGA mode, the follow information may be displayed on the remote control UI:

YPRPB 720P 50 ----------VGA Disable

YPRPB 1080P 24/25/30/50 ----------VGA Disable

VGA 800*600/1024*768/1280*1024 ----------YPRPB Disable