

**HUAWEI TE30 Videoconferencing Endpoint  
V100R001C02**

**Product Overview**

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# 1 Product Positioning and Features

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## 1.1 Product Positioning

The HUAWEI TE30 videoconferencing endpoint (TE30 for short) is a compact, portable, and easy-to-install device supporting 1080p video, IPv6, and Wi-Fi. The TE30 has the appearance of a portable camera and is an ideal choice for small- and medium-sized enterprises and high-end family users to participate in video conferences.

The TE30 incorporates a digital camera and stereo microphone and is ready for visual communication as soon as it is connected to a network. The TE30 is suitable for executive personnel who want to attend video conferences from their offices or small conference rooms.

[Figure 1-1](#) and [Figure 1-2](#) show the TE30.

**Figure 1-1** TE30 front view



The TE30's built-in camera supports 1080p60 video formats. The TE30 is black, with an elegant and modern design.

**Figure 1-2** TE30 rear view



The TE30 has the following ports: an MIC/TV/LAN/POWER port (this port can be connected to an HDMI port, a microphone array port, a network port, and a power port using an accessorial 4-in-1 cable), a VGA OUT port, a VGA IN port, a LINE OUT port, a LINE IN port, and a USB port.

## 1.2 Product Features

### 1.2.1 Compact Design, Easy to Install

The TE30 features a compact design with a built-in camera, omnidirectional microphone array, and Wi-Fi access. Installation and deployment can be wrapped up within 5 minutes, a short wait for a smooth 1080p HD videoconferencing experience.

The TE30 provides a mounting bracket to facilitate quick installation on a wall, above a TV set, or on a ceiling to meet different deployment requirements.

The TE30 can be connected to the HDMI port of a display device using an accessorial 4-in-1 cable. Through the HDMI port, the TE30 can output video and audio signals at the same time without an audio cable.

- HDMI port transited through the MIC/TV/LAN/POWER port  
This port is used for video and audio output. It can be used to connect the TE30 to a monitor.
- VGA OUT port

This port is used for video output. It can be used to connect the TE30 to a monitor, such as a TV or a projector.

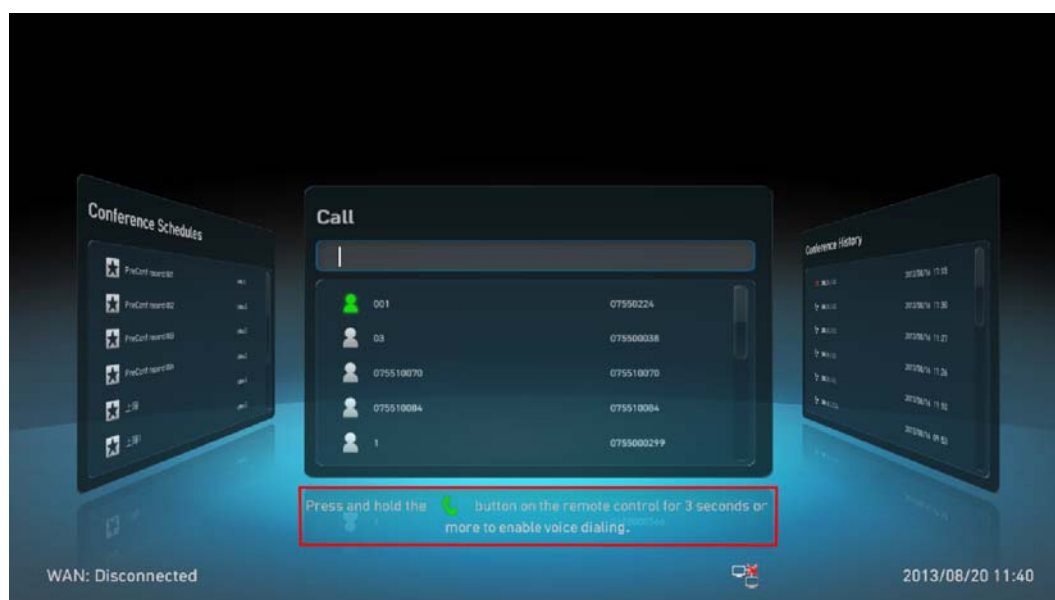
- VGA IN port

This port is used for video input at resolutions of up to 1920 x 1200 pixels. It can be used to connect to a computer host.

## 1.2.2 Voice Dialing

TE30 supports advanced speech recognition in Chinese and English. Users can place a point-to-point call, or initiate a multi-point conference through conference template. TE30 can recognize the site name, conference name or pre-defined conference name users said, and automatically call a site from the site list, join an ongoing conference or schedule a conference through SiteCall. Its easy-to-use functionalities improve the user experience.

**Figure 1-3** Voice Dialing



If there is only one site shown in the list after voice dialing is made, then a call is initiated automatically.

If there are two more sites displayed in the list, users can choose one to make a call as shown in [Figure 1-4](#).

**Figure 1-4** Voice Dialing List



### 1.2.3 Wireless Access

The TE30 has a built-in Wi-Fi module to support Wi-Fi communication. Users can control the TE30 by using an optional touch panel connected to the TE30 through Wi-Fi. The TE30 also supports visual communication on Wi-Fi networks.

If the TE30 has the Wi-Fi client function enabled, it supports automatic scanning for and wireless connection to access points and dynamic or static setting of the IP address. If the wired network deployment is not convenient, the TE30 can also be connected to Internet through a wireless router.

If the TE30 has the Wi-Fi server function enabled, it can connect to a VPM220W wireless microphone array through Wi-Fi, eliminating the need for physical connections.

[Figure 1-5](#) shows the Wi-Fi network for wireless access.



**Figure 1-5** Wi-Fi network



## 1.2.4 Air Content Sharing

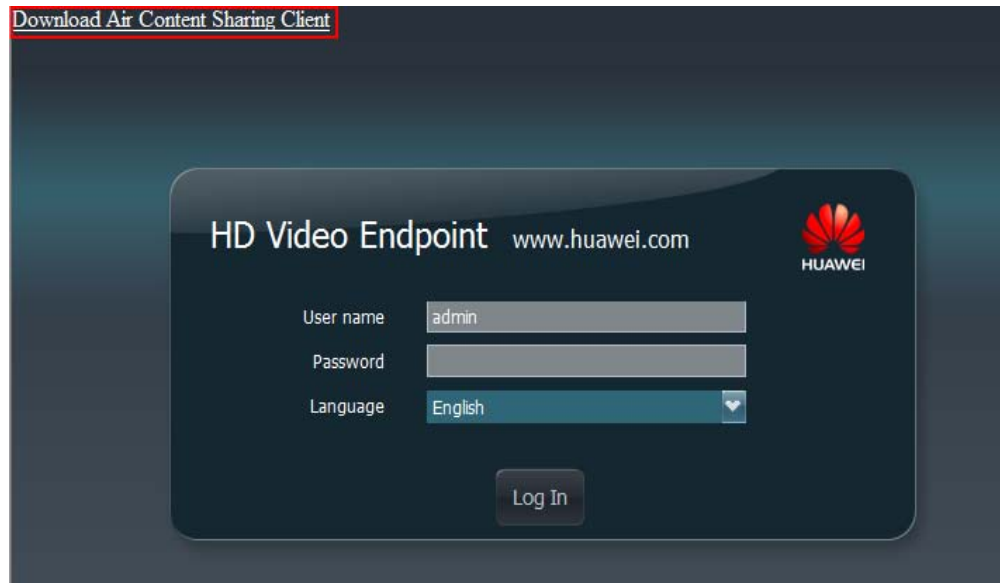
When users want to share PC desktop as presentation, they share data through air content sharing client without using VGA cable to connect PC and endpoint. This avoids using traditional video cables, facilitating deployment of conference room and enhancing user experience.

An air content sharing client can be used on a wired or Wi-Fi network.

An air content sharing client supports coded transmission resolutions of 720p and 1024 x 768 pixels and a maximum frame rate of 15 fps.

Log in to the built-in web interface from the PC, and download air content sharing client as shown in [Figure 1-6](#).

**Figure 1-6** Download air content sharing client



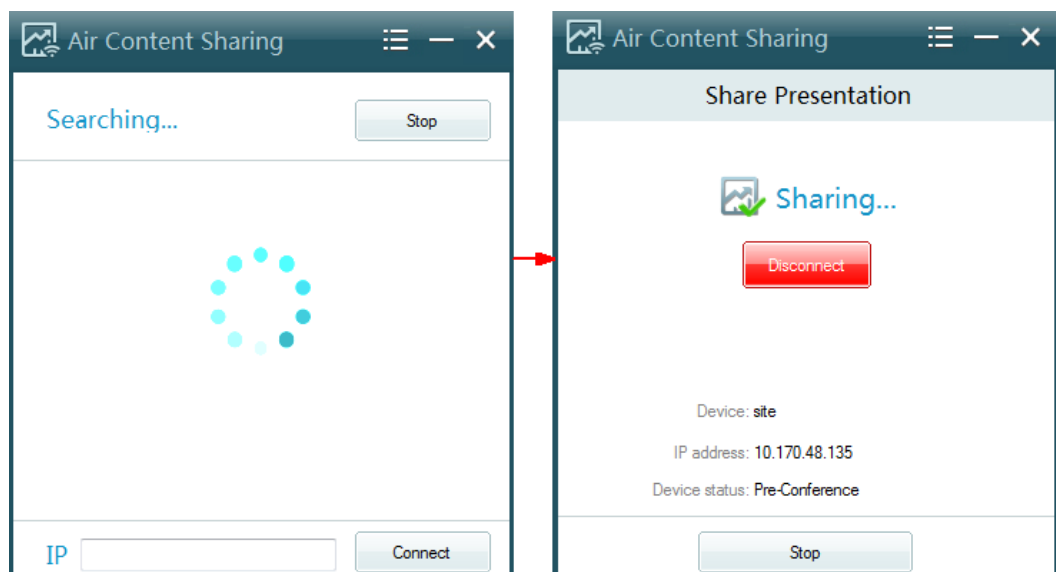
Air content sharing client is enabled to search the endpoints in the current network, as shown in [Figure 1-7](#).

Two authentication modes to connect to endpoints:

- Input authentication password which is configured on the endpoint side.
- When there is connection request, the remote control operation interface or web interface automatically pops up prompt box, and click **Yes**.

Run the air content sharing client software on PC desktop, and share the PC desktop as presentation to the endpoint over IP network. It can be used for presentation sharing and viewing, shown as [Figure 1-7](#).

**Figure 1-7** Auto search and connect endpoint



## 1.2.5 Initialization Configuration

USB flash drive with configuration files can be obtained from agents or operators for the first time. When the configuration file is imported to the endpoint from the USB flash drive, setup wizard configuration is completed automatically. Users can easily set the configurations without any professional knowledge, which greatly improves the configuration efficiency.

## 1.2.6 Built-in MCU and Two-Channel Calling

### Built-in MCU

The TE30 built-in MCU supports a total access bandwidth of up to 6 Mbit/s. The TE30 built-in MCU supports the access from four HD video sites and three audio-only sites simultaneously in a non-encrypted conference and the access from four HD video sites simultaneously in an encrypted conference. This makes the TE30 suitable for holding small conferences.

To hold conferences, users can call sites one at a time, or use a predefined conference template to call all sites simultaneously. After a conference starts, sites can dial the TE30's number or IP address to join in.

The TE30 built-in MCU has powerful universal transcoding, which enables the MCU to:

- Automatically negotiate the audiovisual capability with all participating sites so each site can join the conference with the best conference experience available.
- Allow HD, SD, H.323, and Session Initiation Protocol (SIP) sites to attend the same conference.
- Automatically adjust the continuous presence layout so the video of each site can be displayed in continuous presence (dependent upon the number of participating sites).
- Support continuous presence per port. This function means that each participant site can independently choose their continuous presence views (excluding the local site), improving the conference experience.

### Two-Channel Calling

The TE30 can simultaneously receive or place one video call and one audio call or two audio calls, as shown in [Figure 1-8](#).

**Figure 1-8** Two-channel calling



 **NOTE**

Before using two-channel dialing, a user needs to perform the following:

- If a built-in MCU license has not been obtained (which means the TE30 does not support the built-in MCU), enable the second voice dialing channel.
- If a built-in MCU license has been obtained (which means the TE30 supports the built-in MCU), disable the built-in MCU and enable the second voice dialing channel.

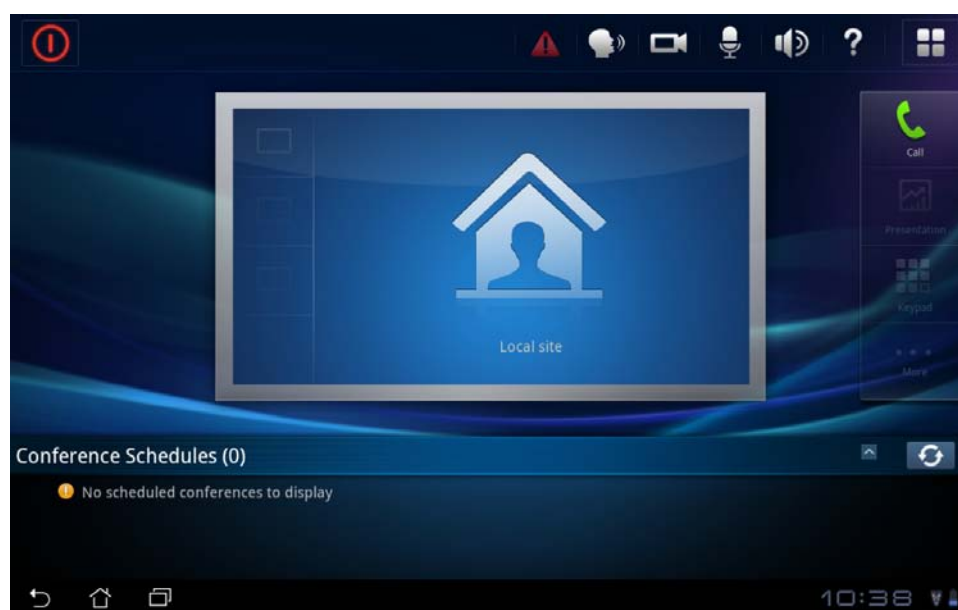
When on a video call, a user can place or receive one more audio call to hold a three-party conference. When on an audio call, a user can place or receive one more audio or video call.

## 1.2.7 User-Friendly User Interface and Remote Control

The user-friendly user interface (UI) was built around the results of a user-centered design (UCD) survey. With the addition of the remote control or optional touch panel, operations are made simple and easy.

- The remote control is smart and easy to use. The layout of function buttons is consistent with the style of the user interface. Users can control the TE30 easily with the remote control.
- The TE30 also provides an optional Android-based, 10-inch touch panel. With an intuitive UI, the touch panel provides quick access to conference functions.

**Figure 1-9** Touch panel UI



## 1.2.8 Superb HD Experience over Low Bandwidth

The TE30 supports a maximum conference rate of 4 Mbit/s and provides industry-leading video quality. The 720p30 video can be maintained even when the bandwidth available is only 384 kbit/s, and the 1080p30 video can be delivered when the bandwidth is 512 kbit/s.

The TE30 supports multiple video encoding and decoding protocols including H.264 SVC, H.264 HP, H.264 BP, H.263, H.263+ and H.261. The TE30 also supports multiple HD video formats including 720p30, 720p60, 1080i50/60, and 1080p30, and SD video formats such as

4CIF and CIF. Compared with 720p images, 1080p images have a more than twice the definition, sharper edges, and more delicate details.

The TE30 uses Huawei's new proprietary Video Motion Enhancement (VME) technology to enhance pre- and post-processing of video, noise reduction, contrast, edges, and illuminance. This enhancement enables the TE30 to provide sharper and clearer video when compared with similar systems in the same lighting and camera conditions. Using latest hardware processing chip, and enhanced H.264 encoding and decoding technology, the TE30's video compression ratio is increased, allowing crisper, smoother and more vivid video to be delivered using the same network bandwidth as competing systems.

## 1.2.9 Surround Sound Experience

The TE30's built-in microphone has a sound pickup distance of 6 meters. The TE30 uses AEC, AGC, and ANS technologies to provide users with clearer full-duplex digital audio, supports AAC-LD/HWA-LD, and is compatible with multiple narrow band audio encoding protocols, such as G.711, G.722, and G.728. Therefore, the TE30 is highly interoperable with existing devices. Using the dual-audio-channel technology and working in conjunction with the digital microphone array, the TE30 delivers a surround sound experience. In addition, the TE30 supports sound localization with hi-fi stereo audio, enhancing the in-person conference experience.

## 1.2.10 Secure and Stable Videoconferencing System

The TE30 uses multiple security encryption measurements, such as the media stream and signaling encryption using H.235, Security Real-time Transport Protocol (SRTP), transport layer security (TLS), and Hypertext Transfer Protocol Secure (HTTPS), adapts network resources to the maximum, and ensures that the conference system runs securely and stably.

## 1.2.11 High Network Adaptability

- SEC  
On an IP network, packet loss easily occurs during data transmission. This affects the conference quality. The TE30 uses the proprietary Super Error Concealment (SEC) technology, adjusting the quality of service (QoS) automatically and selecting a proper audio-visual processing policy based on the transmission performance of the bearer IP network. SEC technology improves the audio and video quality in a poor network environment, ensuring that a conference can be held smoothly even when the packet loss rate reaches 20%. In terms of network jitter, delay, and packet error, the TE30 performs better than relevant international standards and other videoconferencing products that do not use SEC technology.
- Auto reduction of transmission rate on IP network  
The TE30 provides the function to reduce the transmission rate on the bearer IP network. In other words, when the packet loss on the network reaches a critical level, the real-time transmission rate of data streams is reduced appropriately using certain technologies and policies, to adapt to actual network conditions. When network conditions improve, the transmission rate is increased automatically and the normal network bandwidth is recovered. Therefore, network resources are used to the maximum to achieve the best audio-visual quality.
- Firewall traversal  
The TE30 supports three modes of firewall traversal which users can choose based on actual situations.

Static NAT: For endpoints on private networks, static NAT, that is, one-to-one mappings between public and private IP addresses can be implemented for packet transmission between public and private networks.

Proprietary SNP: Huawei's proprietary Super Network Passport (SNP) technology allows endpoints on public and private networks to register with the GK on the public network. When GK receives a call request from a public endpoint, and determines whether the call request is sent to a private endpoint. If yes, the endpoint on the private network will call that on the public network based on the GK's request. This well solves the problem of placing a call from public network to private network.

H.460: **H.460** is the latest firewall traversal standard that accompanies the H.323 set of ITU standards for multimedia communication. Through traversal server (Huawei realizes H.460 firewall traversal using SMC on the management layer), calling, control signaling traversal, media stream traversal and multiplexing can be complemented on the proxy public network.

- 802.1x authentication

After passing 802.1x authentication, the TE30 is able to connect to 802.1x wired or wireless networks.

- VLAN technology

Created after a network is partitioned, a virtual local area network (VLAN) is a virtual group of devices on one or more LANs. The TE30 provides VLAN implementation, which allows the following:

- Restricted broadcast domain. A broadcast domain is confined in one VLAN, which saves bandwidth and improves network processing capabilities.
- Improved LAN security. Devices on VLANs are mutually isolated. This means devices on a VLAN can send packets to devices on another VLAN only with the help of network devices, such as routers or switches.
- Flexible construction of virtual work groups. With VLAN technology, users can be assigned to different work groups, and users in a work group are not confined to a fixed physical location. This makes network construction and maintenance easier.

## 1.2.12 Interoperability

- Interworking: The TE30 can interwork with Microsoft OCS/Lync systems and endpoints.
- Interworking: The TE30 can interwork with Cisco TelePresence systems.
- Seamless integration with the IP multimedia subsystem (IMS): The TE30 can access and register with an IMS network using SIP, and join or initiate an HD video conference on the IMS network.

## 1.2.13 Extensive Functions

The TE30 also supports the following services to enrich the videoconferencing experience:

- One-press conference control: Users can control conferences with the remote control as easily as controlling a TV.
- Ability to automatically obtain the GK server IP address.
- URI calling.
- Camera control: Users can control the local and remote HD cameras and camera presets. Users can also configure camera presets.

- **HD and SD:** The TE30 supports both 16:9 and 4:3 aspect ratios. It is compatible with, and can automatically adapt to, different display devices, facilitating its use in diverse real-world situations and maximizing return on investment.
- **Rich application programming interfaces (APIs):** The TE30 provides rich APIs for a third party to facilitate system integration and customization.
- **Text input:** Proprietary text input technology on the remote control enables users to define conferences.
- **Easy maintenance:** The TE30 displays its assigned IP address and number on the front panel, and can be maintained locally (using the network diagnostics function or system logs) or remotely (after being logged in to using Telnet, Secure Shell, or the web interface).

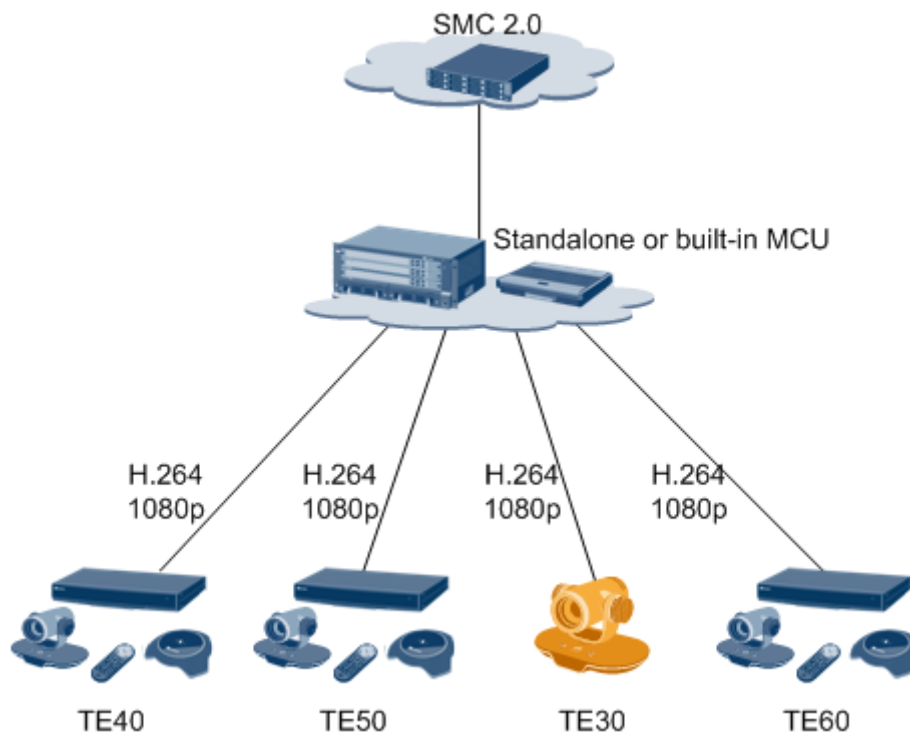
# 2 Network and Application

The TE30 supports IP network access and H.264 1080p video calls, and is compatible with various SD terminals video protocols.

The TE30 can work with the VP96x0 to provide HD solutions over the entire network. These solutions offer more powerful functions, more ports, and improved scalability. In addition, more protocols (AAC-LD, for example) are supported and higher reliability is provided by implementing media stream and signaling encryption using H.235.

## 2.1 IP Network

Figure 2-1 IP network



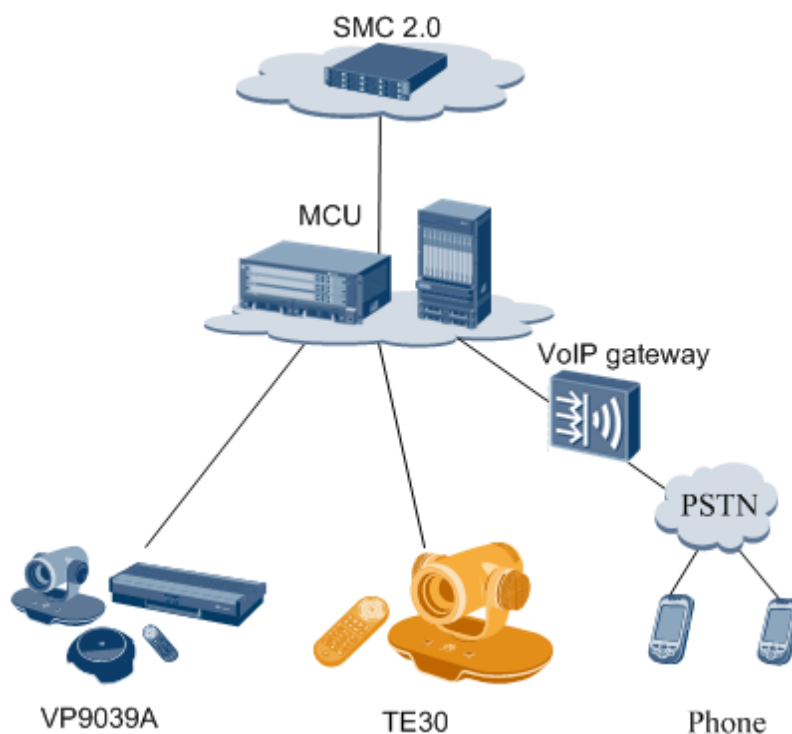
The network description is as follows:



- The TE30 can work with a stand-alone MCU or the built-in MCU of a terminal to establish an IP-only network and initiate multipoint HD conferences using the standard H.323 or SIP protocols.
- The TE30 can deliver 1080p30 video and AAC-LD high-fidelity stereo audio even when the available bandwidth is only 512 kbit/s, providing superb HD conference quality.
- The 720p full-frame video is provided with a transmission rate of 512 kbit/s. Even on a low-bandwidth network, the TE30 can provide high-quality video.
- SD and HD video terminals using different resolutions can join the same conference at different bandwidths. All sites can be displayed in continuous presence.
- The TE30 provides strong network adaptability, ensuring video quality across the network and providing an advanced and reliable network.

## 2.2 Hybrid Networking of HD and PSTN Endpoints

Figure 2-2 Hybrid networking of HD, SD and PSTN endpoints

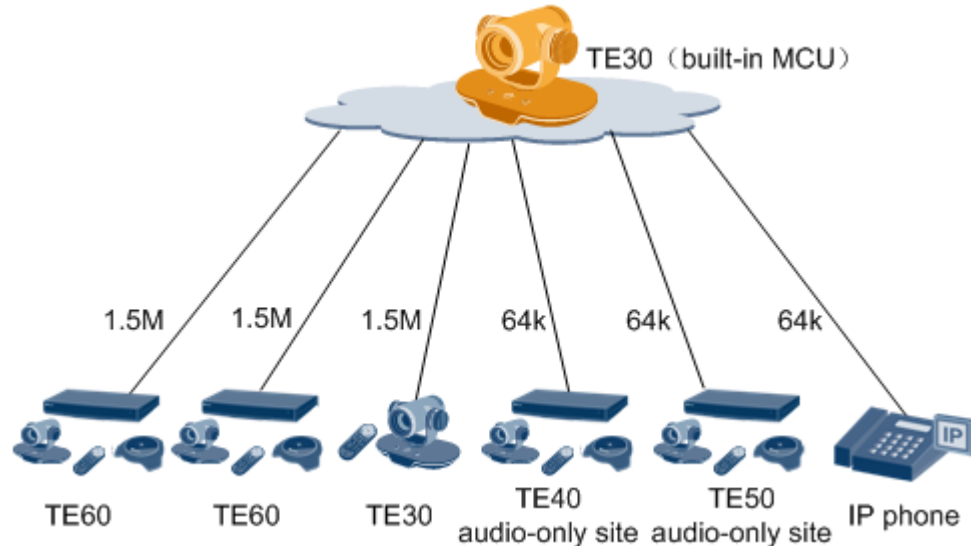


The network description is as follows:

- The TE30 can work with the public switched telephone network (PSTN) and HD endpoints to establish hybrid networks, enabling all the devices to interwork with each other.
- The TE30 provides AAC-LD high-fidelity stereo audio and super HD conference quality.
- In conjunction with the MCU, the TE30 can interconnect with PSTN phones. Users of normal PSTN phones can hear voice from the TE30 site.

## 2.3 Built-in MCU Based Network

Figure 2-3 Built-in MCU based network



The network description is as follows:

- The TE30 built-in MCU supports a total access bandwidth of up to 6 Mbit/s. A multipoint conference hosted by the built-in MCU can be simultaneously joined by up to four HD video sites (including the local site) and three audio-only sites, meeting the requirements for small video conferences. For the video sites, the maximum encoding capability is 720p while the maximum decoding capability is 1024 x 576 pixels.
- H.323, SIP, and audio-only sites can join the same conference and share presentations using H.239 or BFCP.
- HD and SD video sites can join the same conference at bandwidths of 1.5Mbit/s or lower and resolutions of 720p or lower.
- When a site joins a conference, the TE30 built-in MCU automatically adjusts the continuous presence layout to display the video of that site. For example, when there are only two video sites, the continuous presence layout is 2-pane 

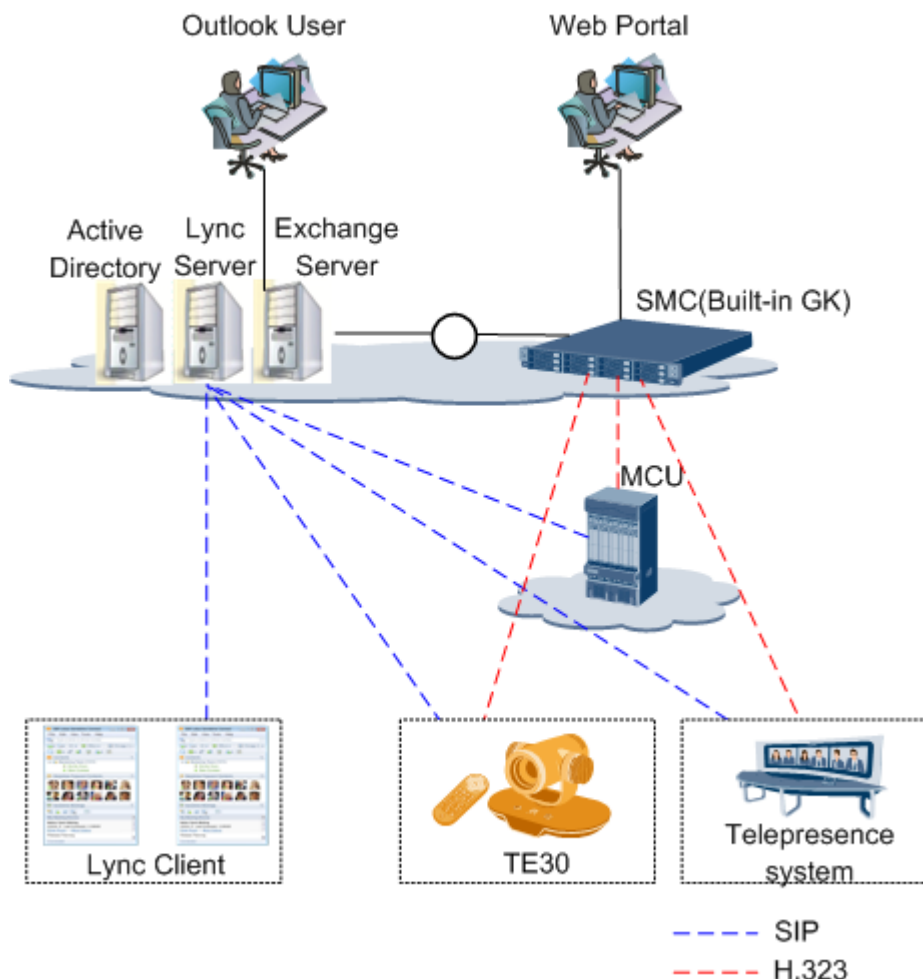
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. If a third video site joins in, the continuous presence layout is automatically adjusted to 3-pane 


. The site that generates the loudest volume is displayed in the largest pane.
- During conferences hosted by the TE30 built-in MCU, multiple conference controls are provided, including:
  - Conferring or revoking the hair control rights
  - Conference locking
  - Voice activation
  - Ending conferences

## 2.4 MSUC Convergence Network

Figure 2-4 MSUC convergence network



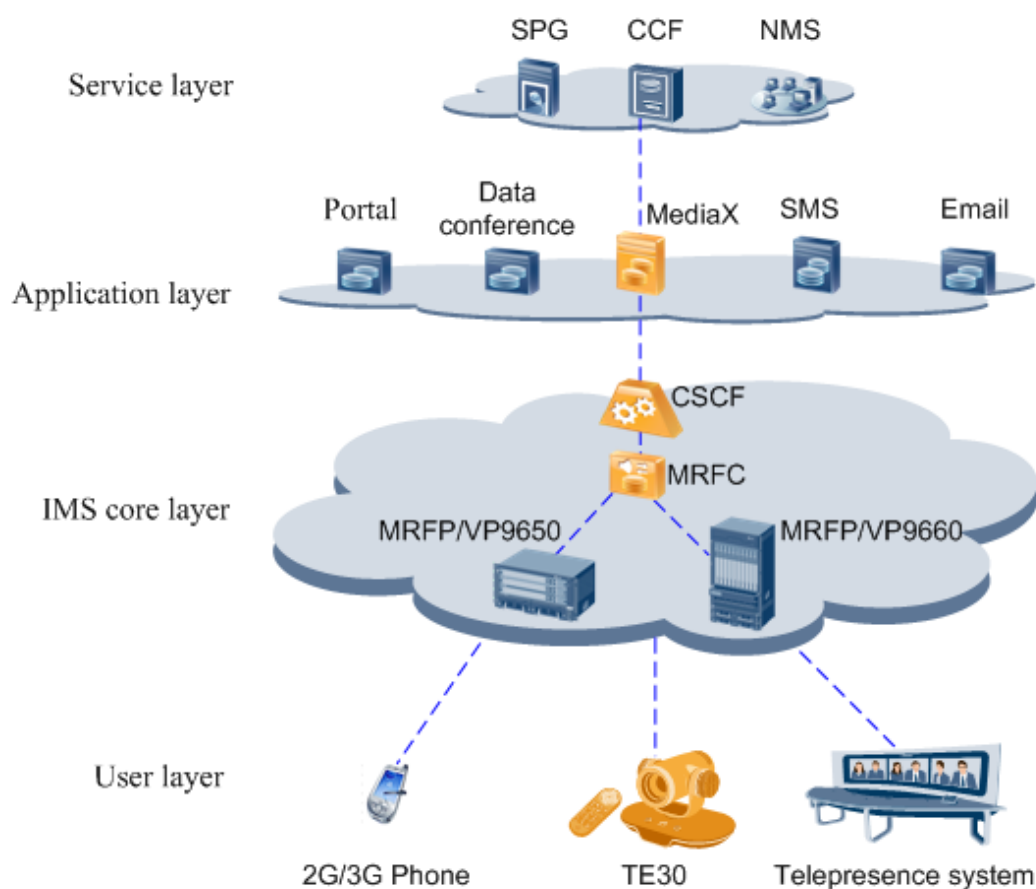
The network description is as follows:

- Using SIP, the TE30 registers with the Lync server and implements audio and video interworking with the Lync client. In other words, the TE30 and the Lync client can see and hear each other.
- The TE30 can call the Lync client:
  - The TE30 supports the Lightweight Directory Access Protocol (LDAP) address book. Users can search Lync client users on the network and add the users found to the local address book of the TE30.
  - Users can place a video call to contacts in the local address book.
  - Users can enter the SIP URI or number of the called party and initiate a call.
  - The status (online, busy, or offline) of each other (the calling party and called party) is displayed in the address book.
- The Lync client can call the TE30:

- Users can search for the desired contact from the contact list and place a video call to the contact.
- Users can enter the SIP URI or number of the called party and initiate a call.
- If a call is initiated from the contact list or by entering the SIP URI, the status (online, busy, or offline) of each other (the calling party and called party) is displayed.

## 2.5 Huawei IMS Convergence Network

Figure 2-5 IMS convergence network



Born of the standard IP protocol, IMS uses voice over IP (VoIP) applications based on the 3rd Generation Partnership Project (3GPP) standard SIP applications to provide fixed and mobile multimedia services for operators. MCUs are integrated to enhance the functionality of the Huawei IMS videoconferencing solution.

The network description is as follows:

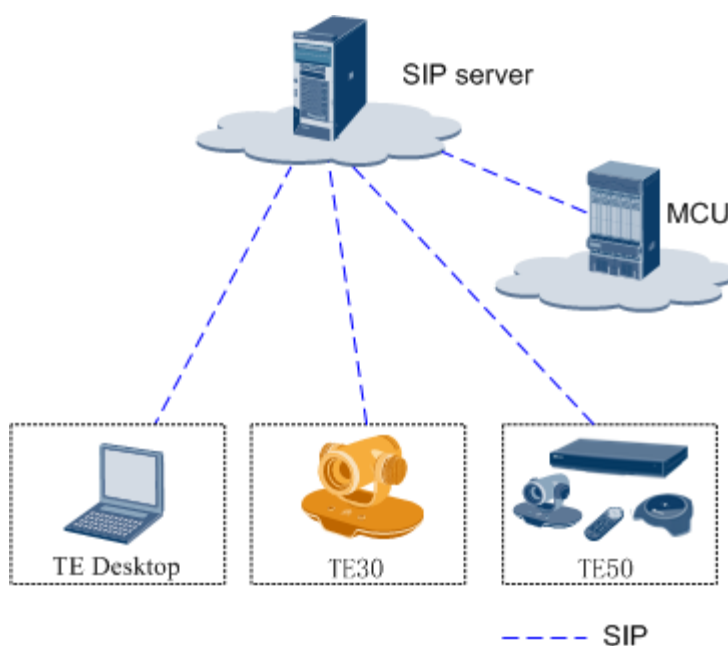
- The TE30 accesses and registers with an IMS network using SIP and joins or initiates an HD video conference on the IMS network.
- The TE30 supports two video inputs and displays the video and presentation at the same time. The TE30 combines still images of presentation materials with moving pictures of people to provide an in-meeting experience.

- After joining the IMS convergence conference, the TE30 interworks with different client devices to provide users with more convenient and diversified video and audio communications services.

## 2.6 Networking with Client Software

The TE30 can work with the client software TE Desktop in two modes shown in [Figure 2-6](#) and [Figure 2-7](#).

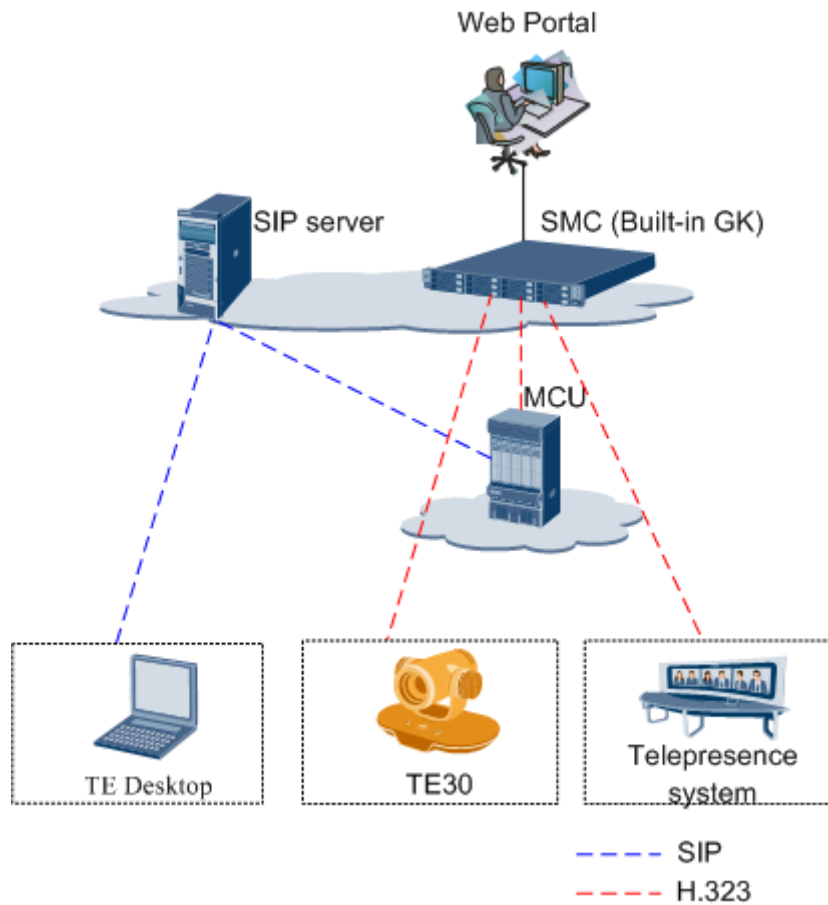
**Figure 2-6** All endpoints registered with a SIP server



The network description is as follows:

- The MCU can invite devices to join the same conference using SIP.
- The TE Desktops can directly communicate with endpoints using SIP.

**Figure 2-7** MCU registered with both a SIP server and GK



The network description is as follows:

- The MCU registers with a SIP server and H.323 GK at the same time.
- The MCU calls the TE Desktops using SIP and endpoints using H.323, inviting them to join the same conference. This allows communication to be established between TE Desktops and endpoints.

# 3 Technical Specifications

## 3.1 Port Parameters

**Table 3-1** TE30 ports and parameters

Port	Description and Quantity	Standards and Protocols Compliance	Network Supported	Remarks
Multi-functional port	1 x MIC/TV/LAN/POWER	-	-	With an accessorial 4-in-1 cable, this port can be used as an HDMI port, an Ethernet port, a microphone array port, or a power port.
Video input	1 x VGA 1 x built-in camera	DVI1.0 VESA	This port can be connected to the VGA port of a computer.	Users can select any port mode for video input.
Video output	1 x VGA/YPbPr 1 x HDMI (audio output supported)	DVI1.0 VESA	This port can be connected to a TV, a monitor, or a digital projector to support video output in VGA, SVGA, XGA, SXGA, or YPbPr format, and to display local or remote presentation images.	Users can select VGA or YPbPr for video output.

Audio input	1 x LINE IN 1 x microphone array	GB/T -14197-93	This port can be connected to a tuning console or VCR.	-
Audio output	1 x LINE OUT 1 x HDMI (audio output supported)	GB/T -14197-93	This port can be connected to a TV's audio input.	-
USB port	1 x USB	USB 2.0	-	-
Network port	<ul style="list-style-type: none"> <li>• IP: 10/100Base-T, 1 x RJ45</li> <li>• Wireless: built-in Wi-Fi</li> </ul>	-	-	-

## 3.2 Device Specifications

Table 3-2 Device specifications

Category	Item	Specifications
Protocol compliance	Multimedia frame protocols	ITU-T H.323 and IETF SIP
	Video encoding and decoding protocols	H.264 SVC, H.264 HP, H.264 BP, H.263, H.263+, and H.261
	Audio encoding and decoding protocols	G.711, G.722, G.728, G.722.1*, G.722.1C*, AAC-LD, HWA-LD, G.711A, and G.711U
	Dual-stream standard	ITU-T H.239 and BFCP
	Other communications protocols	H.221, H.225, H.230, H.231, H.233, H.234, H.235, H.241, H.242, H.243, H.245, H.281, H.283, H.350, H.460, and T.140
	Network transmission protocols	TCP/IP, FTP, FTPS, DHCP, SNMP, Telnet, SSH, HTTP, HTTPS, PPPoE, RTP, RTCP, SNTP, 802.1X, 802.1P, and 802.1Q



Category	Item	Specifications
	H.323 remote camera control	H.281 and H.224
	Call bandwidth (IP)	64 kbit/s to 4 Mbit/s
	Video resolutions	<ul style="list-style-type: none"> <li>• 1080p30 with a minimum bandwidth of 512 kbit/s (optional)</li> <li>• 720p60 with a minimum bandwidth of 512 kbit/s (optional)</li> <li>• 720p30 with a minimum bandwidth of 384 kbit/s</li> <li>• 4SIF/4CIF with a minimum bandwidth of 128 kbit/s</li> <li>• SIF/CIF with a minimum bandwidth of 64 kbit/s</li> <li>• QSIF/SQCIF/QSIF/QCIF with a minimum bandwidth of 64 kbit/s</li> </ul>
	Presentation resolutions	<ul style="list-style-type: none"> <li>• VideoIntensifier</li> <li>• ViewProcessing</li> <li>• VideoIntensifier</li> <li>• ViewProcessing</li> <li>• Input: 1920 x 1200, 1080p (1920 x 1080), 1600 x 1200, 1680 x 1050, 1600 x 900, XGA+ (1400 x 1050), 1440 x 900, WXGA (1366 x 768), 1360 x 768, SXGA (1280 x 1024), 1280 x 960, WXGA (1280 x 800), 1280 x 600, WXGA (1280 x 768), 720p (1280 x 720), 1152 x 864, XGA (1024 x 768), SVGA (800 x 600), and VGA(640 x 480)</li> <li>• Output: 1920 x 1080, 1280 x 1024, 1280 x 720, 1024 x 768, 800 x 600</li> <li>• Encoding/Decoding resolution: 1920 x 1080, 1280 x 1024, 1280 x 720, 1024 x 768, 800 x 600</li> </ul>

Category	Item	Specifications
	Other video features	<ul style="list-style-type: none"> <li>• VideoIntensifier</li> <li>• ViewProcessing</li> <li>• SEC</li> </ul>
	Media stream encryption protocol	AES and DES
	Protocol for signaling and media stream encryption	H.235; TLS, SRTP
Network feature	802.1x authentication	
Electricity supply requirements	Operating voltage	100 V AC-240 V AC; 50 Hz-60 Hz; 12 V DC
	Power consumption	Maximum:60 W
Environmental requirements	Operating state	
	Ambient temperature	0°C to 40°C (32°F to 104°F)
	Relative humidity	10% to 80%
	Ambient noise	< 46 dBA SPL
	Minimum illuminance	7 lux
	Recommended illuminance	> 300 lux
	Non-operating state	
	Ambient temperature	-40°C to +70°C
	Relative humidity	0% to 95%
Physical specifications	Codec dimensions (H x W x D)	157 mm x 235 mm x 167 mm (6.17 in. x 9.24 in. x 6.56 in.)
	Package dimensions (H x W x D)	260mm x 415mm x 235mm (10.22 in. x 16.31 in. x 9.24 in.)
	Weight	2.1 kg
	Package Weight	4.7 kg
Infrared remote control port	Infrared remote control signal encoding	NEC
Video input	Image sensor	2-megapixel 1/3-inch CMOS
	Resolution	1080p60 (1920 x 1080 pixels) and 720p (1280 x 720 pixels)
	Lens	<ul style="list-style-type: none"> <li>• Zoom: 12x optical</li> </ul>

Category	Item	Specifications
		<ul style="list-style-type: none"> <li>• Focal length: <math>f = 3.9-46.8</math></li> <li>• Aperture: F1.8 to F2.8</li> <li>• Maximum horizontal angle of view: <math>72^\circ</math></li> <li>• Panning angle: <math>\pm 100^\circ</math>, Tilting angle: <math>\pm 30^\circ</math></li> <li>• Up to 30 local camera presets and 16 remote camera presets</li> <li>• AWB, AE, and AF</li> <li>• Three flexible image modes: standard, vivid, and natural</li> <li>• Far-end camera control</li> <li>• Upside-down mounting with automatic flipping of picture</li> </ul>
	Exposure mode	Auto and manual
	White balance	Auto and manual

# A Acronyms and Abbreviations

<b>A</b>	
AE	Automatic Exposure
AEC	Automatic Echo Cancellation
AF	Automatic Focus
AGC	Automatic Gain Control
ANS	Automatic Noise Suppression
API	Application Programming Interface
AWB	Automatic White Balance
<b>C</b>	
CCD	Charge Coupled Device
CIF	Common Intermediate Format
CTS	Cisco TelePresence System
CVBS	Composite Video Base Signal
<b>E</b>	
EMC	Electromagnetic Compatibility
<b>H</b>	
HD-AI	High Definition Audio Interface
HTTPS	Hypertext Transfer Protocol Secure
<b>I</b>	

IMS	IP multimedia subsystem
ITU	International Telecommunications Union
<b>L</b>	
LCD	Liquid Crystal Display
LDAP	Lightweight Directory Access Protocol
<b>M</b>	
MCU	Multipoint Control Unit
N	
NAT	Network Address Translation
<b>P</b>	
PiP	Picture in Picture
PSTN	Public Switched Telephone Network
<b>S</b>	
SEC	Super Error Concealment
SIP	Session Initiation Protocol
SRTP	Security Real-time Transport Protocol
<b>T</b>	
TLS	Transport Layer Security
<b>U</b>	
UCD	User-Centered Design
<b>V</b>	
VME	Video Motion Enhancement