

# HUAWEI TE30

## All-in-One HD Videoconferencing System



HUAWEI TE30 is an all-in-one HD videoconferencing system with unique voice dialing and Wi-Fi access, and enables more people to join a multipoint conference. Its compact appearance and simplified installation make it an ideal choice for small- and medium-sized conference rooms.

### Elegant all-in-one design, easy to deploy and install

TE30 is a compact system with built-in HD codec, camera, and microphone array.

It takes just 1 cable and 5 minutes from unpacking to joining a video conference.

Smart design enables TE30 to be wall-mounted, placed on a TV set, or ceiling-mounted with inverted installation.

### Voice Dialing, P2P to multipoint

TE30 recognizes multiple languages. You can call or join a conference by saying the name of the scheduled conference or the site name.

The third-party can be added in a P2P call or called to connect to other multipoint conferences. No need to hang up the conference. This simplifies operation and improves efficiency.

### Wi-Fi Access

Built-in Wi-Fi enables TE30 to support wireless network, wireless microphone, air content sharing.

### User-Friendly Interface and Remote-Control Design

Innovative 3D GUI, convenient to use and maintain.

Wizard for first-time installation.

LCD display for real-time local site information.

Wireless touch panel (Optional) for visualized control.

### Next-Generation Technology for Superior HD Experience at Lower Bandwidth

Supports Video Motion Enhancement (VME) and H.264 HP; saves 50% of bandwidth.

Proprietary VME combined with intelligent face recognition and video image processing helps TE30 adapt to different lighting conditions, reduce bandwidth consumption, and enhance video quality.

Built-in microphone with sound pickup radius up to 6 m.

### Outstanding Network Adaptability and Security Mechanism

Patented Super Error Concealment (SEC) ensures high-quality video experience even with packet loss of 20 percent.

Supports H.264 SVC to adapt to different bandwidths, device capabilities, and network requirements.

Standard H.460 and proprietary SNP technology guarantee secure firewall traversal.

H.235 media stream and signaling encryption; SRTP, TLS, and HTTPS encryption.

### Extensive System Integration

Inter-operable with standard endpoints and infrastructures.

Integration with Microsoft Lync2010™/Lync2013™ and OCS2007R2.

Seamless integration with IMS.

Plentiful third-party APIs for system integration and customization.

# HUAWEI TE30 Specifications

## Packet includes

HD Codec, built-in camera and Omni-array Microphone, cables and remote control  
Optional: HUAWEI VPM220 or HUAWEI VPM220W, Wireless touch panel

## Standard & Protocols

Standards and Protocols: ITU-T H.323, IETF SIP  
Video Standards & Protocols: H.263, H.263+, H.264 BP, H.264 HP, H.264 SVC, RTV  
Audio Standards & Protocols: G.711, G.722, G.728, G.722.1\*, G.722.1C\*, AAC-LD, HWA-LD, G.719, G.729, G.729A  
Dual Stream: ITU-T H.239, BFCP  
Other Standards: H.225, H.235, H.241, H.243, H.245, H.350, H.460, T.140, DTMF, H.281, H.224  
Network Standards & Protocols: TCP/IP, FTP, FTPS, DHCP, SNMP, Telnet, SSH, HTTP, HTTPS with SSL/TLS, PPPoE, RTP, RTCP, SNT, ARP, 802.1X, 802.1P, 802.1Q

## Video Specifications and Features

People Video Resolution:

- 1080p @ 30fps from 512 Kbps (Optional)
- 720p @ 50/60fps from 512 Kbps (Optional)
- 720p @ 25/30fps from 384 Kbps
- 4SIF/4CIF from 128 Kbps
- SIF/CIF/QSIF/QCIF/SQSIF/SQCIF from 64 Kbps

Content Video Resolution:

- Input: VGA (640x480) @ 60/72/75/85 fps, SVGA (800x600) 56/60/72/75/85 @ fps, XGA (1024x768) @ 60/70/75/85 fps, 1152x864 @ 60/75/85 fps, 1280x600 @ 60 fps, WXGA (1280x768) @ 60/75/85 fps, WXGA (1280x800) @ 60/75/85 fps, 1280x960 @ 60/75/85 fps, SXGA (1280x1024) @ 50/60/72/75/85 fps, 1360x768 @ 60 fps, 1366x768 @ 60 fps, 1440x900 @ 60 fps, XGA+ (1400x1050) @ 60 fps, 720p @ 60/75/85 fps, 1080p @ 60 fps, 1600x900 @ 60 fps, 1600x1200 @ 60 fps, 1680x1050 @ 60 fps, 1920x1200 @ 60 fps
- Coding/Decoding resolution: 800x600, 1024x768, 1280x1024, 1280x720, 1920x1080
- Output: 800x600, 1024x768, 1280x1024, 1280x720, 1920x1080

Dual Stream: 1080p 30fps + 1080p 5fps (Optional); Dual 720p @ 30 fps

1080p HD Camera:

- Built-in camera
- Video output pixels: 1080p @ 50/60 fps
- Lens: 2-megapixel and 1/3-inch CMOS imaging chip
- Zoom: 12x optical
- Number of preset positions: 30
- Maximum horizontal angle: 72°horizontal field of view
- Panning/Tilting angle: +/-30° tilt, +/- 100° pan
- Automatic White Balance (AWB), Automatic Exposure (AE), Automatic Focus (AF)
- Far-end camera control
- Upside-down mounting with automatic flipping of picture

Other Video Features:

- Intelligent Face Detection
- Picture in Picture, Picture outside Picture
- VME (Video Motion Enhancement)
- Video Intensifier
- View Processing

## Audio Specifications and Features

Audio features:

- Dual-channel AAC-LD Stereo
- HWA-LD Stereo: HUAWEI Audio Broadband Low Delay Stereo
- Acoustic Echo Cancellation (AEC)
- Acoustic Noise Suppression (ANS) 12 dB
- Automatic Gain Control (AGC) ±6 dB
- Voice Clear, Audio Enhancer
- Lip synchronization

## Security and Stability

Network:

- Dual-stack IPv6 and IPv4
- IP Precedence, Diffserv
- Uniform resource identifier (URI) dialing
- Super Error Concealment (SEC), Intelligent Rate Control (IRC)
- Automatic Repeat-reQuest (ARQ), Forward Error Correction (FEC), PLC

Security:

- H.235 signaling and media stream encryption
- AES media stream encryption, dual-stream encryption
- TLS and SRTP for SIP signaling and media stream encryption
- Conference access password, conference control password
- Administrator password, SSH/HTTPS

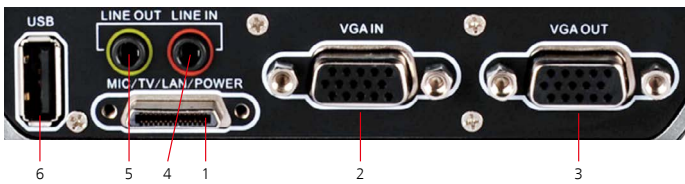
Firewall Traversal: H.460.18, H.460.19 firewall traversal, Static NAT, SNP

## Bandwidth

IP: 64 Kbps to 4 Mbps

## Interfaces

Audio Inputs: 1x3.5 mm line-in jack, 1xHD-AI (stereo, connects to microphone array)  
Audio Outputs: 1x3.5 mm line-out jack, 1xHDMI  
Video Inputs: 1xVGA, 1xBuilt-in Camera  
Video Outputs: 1xVGA/YPbPr, 1xHDMI



\*: G.722.1/G.722.1C, licensed from Polycom®

## USB Interfaces: 1xUSB 2.0 Host

Network Interfaces:

- IP: 10/100 Base-T, 1xRJ45
- Wireless: Built-in Wi-Fi

## Application Features

Languages: Simplified Chinese, Traditional Chinese, English, Japanese, Russian, French, Spanish, Portuguese, German, Finnish, Polish, Hungarian, Italian, Norwegian, Arabic, Swedish, Romanian, Czech, Turkish, Greek, Thai, Dutch, Malay, Indonesian

Embedded MCU(Optional):

- Non-encrypted conference: 4-way HD (receive 576p, send 720p)/SD video sites+ 3-way VOIP
- Encrypted conference: 4-way HD (receive 576p, send 720p)/SD video sites
- Max bandwidth: 6M
- Auto CP on each port, voice activation, chairman token, broadcast site, H.239 and BFCP;
- HD/SD endpoints compliant with H.323/SIP in the same conference, tolerant of different bandwidth consumption and audio/video protocols

## Special Features:

- Voice Dialing in English and Chinese
- Installation from a USB disk, Plug and play
- Integration with Microsoft Lync2010™ / Lync2013™ and OCS2007R2
- Hybrid with IMS network
- Wi-Fi
- Air content sharing
- Wireless MIC VPM220W access
- Upside-down mounting
- P2P to multipoint
- Favorites in address book
- HD SiteCall
- Lock content sharing
- Web-based conference management
- Web-based image monitoring and cture snapshot
- 16:9 and 4:3 mixed display
- PIP: 1/16 picture size, optional position
- Split output: Bi-screen and tri-screen display
- LDAP/Network address book
- API for integration

## Digital Caption:

- Caption banner, body text and information bar
- Rolling display mode of the speech draft
- Modifiable front background color, caption size and transparency
- 64 optional colors
- Editable caption and auto zone adjustment
- Caption rolling mode setting
- Site name display and position shift
- Text input through remote control
- External character generator
- Powerful caption SMS function

## Optional

Accessories: VPM220 Microphone array or VPM220Wwireless Microphone, Wireless touch panel  
Function Models: 1080p @ 30 fps, Embedded MCU

## Maintenance Management

Maintain Methods:

- Remote control: 3D Effects & GUI Animation
- Endpoints Network Management: SNMP
- Wireless touch panel (Optional)
- Embedded Web server, GUI interface
- Command line mode: Telnet/SSH

Maintain Functions:

- Endpoint IP and number are displayed on the front panel
- Auto sleep, wake-up by remote control or remote module
- Event log record, query, display and export query results
- IP network test, default settings restoration
- Local and remote loopback
- Test signals: providing sound test and standard test stripes

## Physical Characteristics

Dimensions:

- Codec dimensions (LxWxH): 235mmx167mmx157mm
- Package dimensions (LxWxH): 402mmx232mmx237mm
- Net weight: 2.1 kg
- Package Weight: 3.3 kg

Electrical:

- Working voltage: 100–240 V AC, 12 V DC
- Working frequency: 50-60 Hz
- Power consumption: 60 W

## Environmental Specification:

- Operating Temperature: 0°C to 40°C
- Operating Humidity: 10% to 80%
- Non-Operating Temperature: -40° to -70°C
- Non-Operating Humidity (Non-condensing): 0% to 95%
- Peripheral noise: < 46 dBA SPL
- Lowest luminance: 7 lux
- Recommended luminance: > 300 lux

Approval and Compliance: CE, RoHS, WEEE, REACH, UL, FCC, CCC

| No | Interface Type                        | No | Interface Type                |
|----|---------------------------------------|----|-------------------------------|
| 1  | 1x4 in 1 interface (MIC/TV/LAN/POWER) | 4  | Audio input (3.5 mm line-in)  |
| 2  | Video input (VGA)                     | 5  | Audio output (3.5 mm line-in) |
| 3  | Video output (VGA)                    | 6  | USB interface                 |