

HUAWEI TE20

All-in-One HD Videoconferencing System



This all-in-one HD videoconferencing endpoint combines innovative features and cost-effective design. It is an ideal choice for small- and medium-sized conference rooms.

All-in-one design, 5 minutes to set up

Compact system with built-in camera and microphone; simplified interface for easy connections and installation
USB configuration wizard for quick self-service “plug-and-play”
Multiple installation methods: on top of TV, mounted on wall or ceiling

Unique, fan-shaped interactive interface

Tiered menu and user-friendly button design that users can operate effortlessly

User experience improved by state-of the-art audio and video technologies

5x/12x optical zoom camera with a maximum 80°wide-angle, 1080p HD video

New STARVIS imaging technology enables clear images under low light conditions

Microphone voice pickup radius of 6 meters, AAC-LD wideband audio; hi-fi audio enhanced by Acoustic Echo Cancellation (AEC) and Automatic Noise Suppression (ANS) technologies

Easy access with built-in 2.4G/5G dual-frequency Wi-Fi*

Easy share content on the PC, smartphone or tablet without cables through the AirPresence

One button to share content on the PC with AirPresence Key, which is matched with PC's USB interface

New technology for superior experience over low bandwidth

Video Motion Enhancement (VME) combined with image pre-and post-processing of images helps TE20 adapt to different lighting conditions and improve video quality

H.264 HP technology enhances image compression ratio and saves 50 percent of bandwidth

Network adaptability and security mechanism

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

H.460 standard guarantees secure firewall traversal

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

Open, converged, and extensive system integration

Interworking with mainstream third-party cloud platforms and auto-configuration by service provisioning from the Videxio platform

Seamless integration with IMS

Interoperable with standard endpoints and infrastructures from mainstream vendors

Abundant API interfaces, implementing flexible integration with third-party service platforms



HUAWEI TE20 Specifications

Packet includes
HD codec, built-in camera and microphone, cables, remote control, and power
Optional: Mic 500 or VPM220 omni-directional microphone, and AirPresence Key
Standard & Protocols
Standards and Protocols: ITU-T H.323, IETF SIP
Video Standards & Protocols: H.264 BP, H.264 HP, H.263, H.263+
Audio Standards & Protocols: G.711A, G.711U, G.722, G.729A, Opus, and AAC-LD single-channel
Dual Stream: ITU-T H.239, BFCP
Other Standards: H.235, H.245, H.460, DTMF, and RFC2833
Network Standards & Protocols: FTP, FTPS, DHCP, SNMP, Telnet, SSH, HTTP, HTTPS, STNP, RTP, RTCP and TR-069
*Wi-Fi Protocols: 802.11a/b/g/n, WPA, WPA2
Video Specifications and Features
People Video Resolution: <ul style="list-style-type: none">1080p30 from 512 kbit/s720p60 from 512 kbit/s720p30 from 384 kbit/s4SIF/4CIF from 128 kbit/sSIF/CIF from 64 kbit/s
Content Video Resolution: <ul style="list-style-type: none">Input:<ul style="list-style-type: none">HDMI: 640 x 480 @ 60/72/75/85 fps; 800 x 600 @ 56/60/72/75/85 fps; 1,024 x 768 @ 60/70/75/85 fps; 1,152 x 864 @ 60 fps; 1,280 x 600 @ 60 fps; 1,280 x 768 @ 60 fps; 1,280 x 800 @ 60 fps; 1,366 x 768 @ 60 fps; 1,360 x 768 @ 60 fps; 720p @ 50/60 fps; 1,080p @ 24/25/30 fpsVGA: 640 x 480 @ 60/72/75/85 fps; 800 x 600 @ 56/60/72/75/85 fps; 1,024 x 768 @ 60/70/75/85 fps; 1,152 x 864 @ 60 fps; 1,280 x 600 @ 60 fps; 1,280 x 768 @ 60 fps; 1,280 x 800 @ 60 fps; 1,366 x 768 @ 60 fps; 1,360 x 768 @ 60 fps; 720p @ 60 fpsCoding/Decoding resolution: 800 x 600; 1,024 x 768; 1,280 x 720Output: 1080p @ 24/25/30/50/60 fps
Dual Stream: 1080p @ 30 fps + 1080p @ 5 fps; Dual 720p @ 30 fps
1080p HD Camera: <ul style="list-style-type: none">Built-in camera1080p2.13-megapixel 1/2.8-inch CMOSZoom: 5x /12x opticalMaximum horizontal angle: 80°(5 x optical zoom)/ 72°(12 x optical zoom)Panning/Tilting angle: +/- 90° pan, +/-25° tiltAutomatic White Balance (AWB)Automatic Exposure (AE)Automatic Focus (AF)Ceiling-mounted
Other Video Features: <ul style="list-style-type: none">Picture-in-Picture (PIP) and Picture-outside-Picture (POP)
Audio Specifications and Features
Audio features: <ul style="list-style-type: none">AAC-LDAcoustic Echo Cancellation (AEC)Automatic Noise Suppression (ANS)Automatic Gain Control (AGC)Voice ClearAudio EnhancerLip Synchronization
Security and Stability
Network: <ul style="list-style-type: none">Dual-stack IPv6 and IPv4IP Precedence, DiffservSuper Error Concealment (SEC)Automatic Repeat-reQuest (ARQ), Forward Error Correction (FEC)
Security: <ul style="list-style-type: none">H.235 signaling and media stream encryptionSIP signaling and media stream encryptionConference access password, conference control password, administrator passwordDual stream encryption
Firewall Traversal: H.460 firewall traversal

+: These are only for the TE20 with a Wi-Fi module.

Bandwidth
IP: 64 kbit/s to 4Mbit/s
Interfaces
Audio Inputs: 1xHDMI, 1 x HD-AI (stereo connects to microphone array)
Audio Outputs: 1 x 3.5 mm line-out jack, 2 x HDMI
Video Inputs: 1 x VGA, 1 x HDMI, and 1 x Built-in Camera
Video Outputs: 2 x HDMI
USB Interfaces: 1 x USB 2.0 Host
Network Interfaces: <ul style="list-style-type: none">IP: 1 x RJ45 jack(10/100/1,000M Base-T)*Wireless: Built-in Wi-Fi
Application Features
Languages: Simplified Chinese, English, French, German, Spanish, Japanese, Russian, Traditional Chinese, Portuguese, and Italian
Special Features: <ul style="list-style-type: none">Install from a USB disk, plug-and-play*Dual-frequency Wi-FiUpside-down mountingWeb-based conference management16:9 and 4:3 mixed displayPIP: 1/16 picture size, optional positionSplit output: Bi-screen and tri-screen displayLDAP/Network address bookInterconnection with third-party cloud platformsHybrid with IMS networkConference control using SIP, SiteCallOne-button-to-join
Optional
Accessories: Mic 500 or VPM220 microphone, and AirPresence Key
Maintenance Management
Maintain Methods: <ul style="list-style-type: none">Remote control: simple buttons, and flat interactive interfaceEndpoints Network Management: SNMPWeb security management: embedded Web server, graphical maintenance, and diagnosisCommand line mode: Telnet/SSH
Maintain Functions: <ul style="list-style-type: none">Auto sleep, wake up by remote control or moduleEvent log record, query, display and export query resultsDefault settings restorationLocal and remote loopbackTest signals: sound test and standard test stripes
Physical Characteristics
Dimensions: <ul style="list-style-type: none">Codec dimensions: 249 mm x 140 mm x 153 mmPackage dimensions: 375 mm x 230 mm x 215 mmNet weight: 1.6 kgPackage weight: 4.1 kg (5 x optical zoom), 4.2 kg (12 x optical zoom)
Electrical: <ul style="list-style-type: none">Working voltage: 100V AC to 240V AC, 12V DCWorking frequency: 50 Hz to 60 HzPower consumption: 25W
Environmental Specification: <ul style="list-style-type: none">Operating Temperature: 0°C to 40°CNon-Operating Temperature: -40°C to -70°COperating Humidity: 10% to 90%Non-Operating Humidity (Non-condensing): 10% to 90%Peripheral noise: < 46 dBA SPLLowest luminance: 7 luxRecommended luminance: > 300 lux
Approval and Compliance: CCC, CE (RoHS, REACH, WEEE), UL, FCC, IC, VCCI, RCM, and Multi-Country Certificate
Interfaces shows

