HUAWEI CloudLink Bar 500

Intelligent Tracking Video Conferencing Terminal

4-in-1 Stylish Design, Applicable to Small- and Medium-Sized Meeting Rooms

Huawei CloudLink Bar 500 is an all-in-one intelligent broadcast terminal with a powerful codec, two HD intelligent tracking cameras, 12 microphones and a professional audio system. CloudLink Bar 500 uses intelligent beamforming sound pickup and image analysis technologies to implement precise speaker tracking and the automatic viewfinder function.

Superb Audio and Video Experience

- The innovative H.265 capability delivers 1080p 60 fps video and 4K 8 fps data conferencing simultaneously to present every detail.
- Built-in 12 arrayed MIC for clear sound pickup within 6 meters.
- The professional audio system provides a wide frequency range of 100 Hz to 20 kHz, with the total harmonic distortion less than 0.1%.
- Huawei's unique Video Motion Enhancement (VME) technology saves 50% bandwidth but delivers a better video quality.

Intelligent Dual-Tracking

- With the advanced beamforming sound pickup technology, the built-in dual-camera system detects speakers' locations in real time and automatically display their close-up pictures.
- The dual-camera system automatically identifies meeting scenarios and switches between a range of presenting modes including personal close-up, person-to-person, and panoramic overview.

AI Assistant

- With the built-in intelligent voice assistant, you can use voice commands to create or join meetings, call other users, adjust the volume, etc.
- The intelligent facial recognition technology automatically displays the participant's name tag in a meeting and collects the participant information after the meeting.

Borderless Collaboration

- With the built-in data collaboration function, CloudLink Bar 500 can connect to a touchscreen, on which you can use whiteboard for efficient team collaboration.
- The content such as whiteboard and shared presentation can be displayed on one screen but in two panes.
- The whiteboard can be emailed.

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HUAWEI CloudLink Bar 500 Specifications

Components

HD codec, dual HD Camera, microphone array, speaker, touch panel, bracket, cables, and power supply

Standards & Protocols

Multimedia Frame Protocols: ITU-T H.323, IETF SIP

Video Encoding and Decoding Protocols: H.265, H.264 HP, H.264 BP, H.264 SVC

Audio Encoding and Decoding Protocols:
G.711A、G.711U、G.722、G.729A、AAC-LD、OPUS

Dual-Stream Protocols: ITU-T H.239、BFCP

OtherCommunication Protocol:
H.225,H.235、H.241、H.245、H.281、H.350、H.460、RFC2833、LDAP、LDAPS

Network Transmission Protocols: TCP/IP、RTP、RTCP、DHCP、DNS、SMTP、SNMP、SNTP、Telnet、SSH、HTTP、HTTPS、TR-069

Standards & Protocols

Video Resolution:
- H.265:
  1080p @ 60 fps, minimum bandwidth required 768 kbit/s
  1080p @ 30 fps, minimum bandwidth required 384 kbit/s
  720p @ 60 fps, minimum bandwidth required 512 kbit/s
  720p @ 30 fps, minimum bandwidth required 256 kbit/s

- H.264:
  1080p @ 60 fps, minimum bandwidth required 1Mbit/s
  1080p @ 30 fps, minimum bandwidth required 512 kbit/s
  720p @ 60 fps, minimum bandwidth required 768 kbit/s
  720p @ 30 fps, minimum bandwidth required 384 kbit/s

Presentation Resolution:
Inputs
- HDMI: 3840 x 2160 @ 25/30 fps; 3,200 x 1,800 @ 30 fps; 2,880 x 1,800 @ 30 fps; 2,880 x 1,620 @ 50 fps; 2,560 x 1,600 @ 60 fps; 2,048 x 1,536 @ 60 fps 1,920 x 1,200 @ 60 fps; 1,680 x 1,050 @ 60 fps;1,600 x 1,200 @ 60 fps; 1,600 x 900 @ 60 fps; 1,440 x 900 @ 60 fps; 1,400 x 1,050 @ 60 fps; 1,366 x 768 @ 60 fps; 1,360 x 768 @ 60 fps; 1,280 x 1,024 @ 60/75/85 fps; 1,280 x 960 @ 60 fps; 1,280 x 768 @ 60/75/85 fps; 1,280 x 800 @ 60 fps; 1,024 x 768 @ 60/70/75/85 fps; 800 x 600 @ 56/60/72/75/85 fps; 720 x 400 @ 85 fps; and 640 x 480 @ 60/72/75/85 fps
- VGA: 640 x 480 @ 60/72/75/85 fps; 720 x 400 @ 85 fps; 800 x 600 @ 56/60/72/75/85 fps; 1,024 x 768 @ 60/70/75/85 fps; 1,152 x 864 @ 75 fps; 1,280 x 768 @ 60/75/85 fps; 1,280 x 800 @ 60 fps; 1,280 x 960 @ 60 fps; 1,280 x 1,024 @ 60/75/85 fps; 1,360 x 768 @ 60 fps; 1,366 x 768 @ 60 fps; 1,440 x 900 @ 60 fps; 1,400 x 1,050 @ 60 fps; 1,440 x 576i @ 60 fps; 1,440 x 480i @ 60 fps; 720 @ 480p60; 720 x 576p50; 720p50/60; 1080p24/25/30/50/60; 1,600 x 900 @ 60 fps; 1,600 x 1,200 @ 60 fps; 1,680 x 1,050 @ 60 fps; and 1,920 x 1,200 @ 60 fps
- Codec resolution: 800 x 600; 1,024 x 768; 1,280 x 1,024;1,280 x 720; 1,920 x 1,080; and 3,860 x 2,160
- Outputs: 800 x 600, 1,024 x 768, 1,280 x 1,024, 1,280 x 720, 1,920 x 1,080, and 3,840 x 2,160

Dual-Stream	1080p @ 60 fps + 1080p @ 60 fps (4K @ 15 fps) 1080p @ 30 fps + 1080p @ 30 fps (4K @ 8 fps) Data: 1080P @ 30fps / 4K @ 8 fps
Other Video Features	Supports display of PIP, POP modes VME (Video Motion Enhancement) Video Intensifier View Processing

Audio Features

Audio Features	Acoustic Echo Cancellation (AEC), Automatic Noise Suppression(ANS), Automatic Gain Control (AGC), VoiceClear, AudioEnhancer, and Lip synchronization

Optional

Function Models	VPM220 micphone, AirPresence Key

Bandwidth

IP	64Kbps ~ 8Mbps

Ports

Audio Input Port	12 x built-in MIC array 1 x 3.5mm	1 x HD-AI 1 x HDMI (audio)
Audio Output Port	Built-in speaker 2 x HDMI (audio)	1 x 3.5mm
Video Input Port	Built-in dual-camera (1080P, 5 x optical zoom) 1 x HDMI (4K @ 30 fps)	1 x VGA (1080p @ 60 fps)
Video Output Port	1 x HDMI (4K @ 60 fps)	1 x HDMI (4K @ 30 fps)
Other ports	1 x 10/100/1,000 Base-T 1 x POE network interface (Touch) 1 x USB 2.0 Type-A 2.4G/5G dual-band Wi-Fi	1 x RJ45 1 x USB 2.0 Type-B

Conference Features

Languages	Simplified Chinese, English, French, German, Japanese, Spanish, Portuguese, Traditional Chinese, and Russian
Features	• Intelligent voice assistant in Chinese and English • Wireless access by Wi-Fi • AirPresence/AirPresence Key • Built-in collaboration capability • SiteCall (HD dual-stream) • Web-based conference management • Web-based image monitoring and HD picture snapshot • 16:9 and 4:3 mixed display • Picture-in-picture: 1/16 picture size, optional position • API for integration

Stability and Security

Network Adaptability	• IPV4 and IPV6; IP precedence, DiffServ; URI call • Super Error Concealment (SEC), Automatic Repeat-reQuest (ARQ), Video Forward Error Correction (FEC), Intelligent Rate Control (IRC), and Video Backward Error Correction (BEC)
Security Management	• H.235 signaling and media stream encryption • Conference access password, conference control password and administrator password • Dual-stream encryption
Firewall Traversal	H.460 traversal between private and public networks/ static NAT/ STG

Maintenance Management

Maintenance Methods	• Endpoints Network Management: SNMP • Embedded Web server, GUI interface • Command line mode: Telnet/SSH • Touch panel
Maintenance Functions	• Endpoint IP and number are displayed on the front panel • Automatic sleep, wake-up • Event log record, query and export • IP network test • Default settings restoration • Embedded local loopback: Local self-loop • Embedded audio and video testing

Physical Characteristics

Size	Terminal size: 812 mm x 186 mm x 163 mm Package size: 965 mm x 380 mm x 275 mm Net weight: 6kg Gross weight: 13.1kg
Environmental Requirements	• Temperature: 0℃ to 40℃ (operating status), -40℃ to 70℃ (non-operating status) • Relative Humidity: 5% to 95% (operating status), 0% to 95% (non-operating status) • Surrounding noise: less than 46 dBA SPL • Minimum light: 7 lux • Recommended light: above 200 lux
Electrical Features	Operating voltage: 100V to 240V AC Operation frequency: 50 Hz to 60 Hz Maximum power consumption: 180W
Certifications	CCC, CE (RoHS, REACH, WEEE, UL, FCC, VCCI, RCM, Network access license of MIIT, and Radio Type Approval Certification