

Immersive Telepresence System



The brand-new immersive telepresence system uses Huawei's TP6206 immersive telepresence suite (panoramic fusion camera, brand-new codec and seamless LED curved screen) to deliver 1:1 ultra-realistic images, perfectly reproducing the facial expressions and details of remote participants. The system also provides multi-channel surround audio to create a high-end immersive experience, which can be widely used in scenarios such as high-level conferences, telemedicine, and emergency command.



Immersive Telepresence TPX6206 (single-row)

Single-row telepresence for 6 participants
Conference room area $\geq 38 \text{ m}^2$
Dimensions (H x W x D):
2700 mm x 7480 mm x 5085 mm



Immersive Telepresence TPX6218 (dual-row)

Dual-row telepresence for 18 participants
Conference room area $\geq 74 \text{ m}^2$
Dimensions (H x W x D):
2700 mm x 10500 mm x 7085 mm

Product highlights

High-level design aesthetics, delivering an immersive business experience

- The brand-new appearance design seamlessly integrates the camera, microphone, speaker, and screen, offering a visually expansive experience. The integrated system is simple yet professional.
- Supports front and rear installation and maintenance and quick deployment, saves conference room space, and supports local conferences, meeting customer requirements in various application scenarios.
- Delivers professional lighting, color, and sound field optimization and applies ergonomics to system design to deliver an optimal meeting experience.

Breaking the boundaries of traditional tri-screen design, providing a truly immersive experience

- Huawei's latest AI panoramic fusion camera uses the multi-modal AI optical flow algorithm to seamlessly fuse UHD 4K images from three lenses at different depths.
- 216-inch curved screen with micron-level stitching, delivering a seamless and smooth visual experience; 48:9 ultra-HD wide screen, covering the entire field of view; ultimate image quality, delivering a more authentic and colorful world.
- Life-size 1:1 display, making the posture and eye contact of remote participants appear as natural as face-to-face communication.

Sound localization, delivering an immersive audiovisual experience

- Brand-new microphone and multi-channel sound reinforcement system.
- Each seat in a single-row or dual-row setup is equipped with an independent next-generation desktop microphone for sound pickup from a long distance.
- The next-generation microphone has an independent status indicator, clearly showing the current status.
- High-fidelity speakers support sound source localization and playback, using the latest algorithm technology to achieve precise sound localization.

AI-powered meetings, delivering an innovative experience while boosting conference efficiency

- Intelligent meeting space management, implementing intelligent control of devices and the environment in the conference room.
- The panoramic camera intelligently identifies human faces and automatically switches between standing and sitting modes.

Simplified, intelligent control and interaction, enabling efficient conference experiences

- The Touch uses the widget-based HarmonyOS UI design, which is easy to use and supports customization of personalized elements, highlighting the enterprise image.
- User-friendly design: one-tap power-on/off, one-tap diagnostics, one-tap mute, one-tap call, and quick presentation sending.
- A wide array of conference control functions, such as initiating a call directly from an endpoint (also known as SiteCall), selecting specific participants to view, setting continuous presence as the chair, and focusing on the speaker.

Worry-free meetings, ensuring security

- Invisible audio and video watermarks, enabling traceability of unauthorized recordings and content leaks.
- Visible presentation watermarking, warning and deterring data leaks.

Application scenarios



Administrative meetings and executive decision-making meetings

Applicable to decision-making meetings and executive consultations.
Characteristics: face-to-face meeting experience, 1:1 life-size display, sound localization.



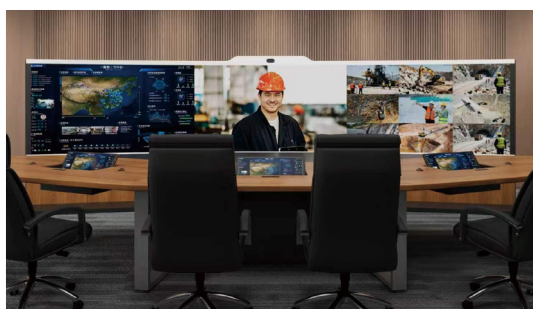
Multi-party remote video conference

Applicable to daily administrative conferences and publicity conferences.
Characteristics: multiple types of video conferencing endpoints, flexible conference control.



Remote consultation

Applicable to remote consultation, remote surgery guidance, remote teaching, and remote medical training.
Characteristics: multi-signal integration and multi-pane display.



Command and dispatch

Applicable to disaster response and command dispatch.
Characteristics: system signal convergence, quick invoking of security monitoring data, and multi-pane display.

Product features

Main system components

Telepresence codec, seamless panoramic fusion camera, 216-inch curved LED display, signal scheduling system, high-fidelity speaker, hidden microphone, dedicated tabletop display, and professional conference table.

Technical specifications

Communications and interfaces

Communication framework	ITU-T H.323, IETF SIP
Video protocol	H.265, H.264HP, H.264BP, H.263, H.263+
Audio protocol	AAC-LD (mono and stereo), G.711A, G.711U, G.722, G.722.1C, G.729A, OPUS, and G.719
Video format	4K 25/30/50/60fps, 1080p 25/30/50/60fps, 720p 25/30/50/60fps, 4CIF/4SIF, SIF/CIF/QSIF/QCIF/SQSIF/SQCIF
Dual-stream protocol	ITU-T H.239, IETF BFCP, data
Other communications protocols	H.225, H.233, H.235, H.241, H.245, H.281, H.283, H.350, H.460, and T.140
Network transmission protocol	TCP/IP, RTP, RTCP, DHCP, DNS, SNTP, SSH, HTTPS, TR-069, IEEE 802.1p/q, IEEE 802.1X

Line and bandwidth

Bandwidth range	H. 265 720p 30 fps: The minimum bandwidth is 3 x 512 kbit/s, and the recommended bandwidth is 3 x 768 kbit/s. 1080p 30 fps: The minimum bandwidth is 3 x 768 kbit/s, and the recommended bandwidth is 3 x 1 Mbit/s. 1080p 60 fps: The minimum bandwidth is 3 x 1 Mbit/s, and the recommended bandwidth is 3 x 2 Mbit/s. 4K 30 fps: The minimum bandwidth is 3 x 2 Mbit/s, and the recommended bandwidth is 3 x 3 Mbit/s. 4K 60 fps: The minimum bandwidth is 3 x 4 Mbit/s, and the recommended bandwidth is 3 x 6 Mbit/s.
	H. 264HP 720p 30fps: The minimum bandwidth is 3 x 768 kbit/s, and the recommended bandwidth is 3 x 1 Mbit/s. 1080p 30fps: The minimum bandwidth is 3 x 1 Mbit/s, and the recommended bandwidth is 3 x 1.5 Mbit/s. 1080p 60fps: The minimum bandwidth is 3 x 2 Mbit/s, and the recommended bandwidth is 3 x 3 Mbit/s.

Screen parameters

Main screen	Screen size: 5400 mm x 1012.5 mm Total screen area: 5.47 m ²	Screen resolution: 5760 x 1080 Encapsulation technology: full flip-chip COB
Electric tabletop display	Screen size: 21.5 inches	Screen resolution: 1920 x 1080
Dedicated touchscreen	Screen size: 11 inches	Screen resolution: 1920 x 1200

Camera parameters

Lens	12 MP, 1/2.3-inch
Video output	Three HDMI 2.0 HD display outputs, each supporting 4K 60 fps
Horizontal field of view	100°
Image adjustment	Adjustment of image brightness, sharpness, saturation, contrast, and hue
Maximum power consumption	25 W

Environment requirements

Temperature	0°C to 40°C (ambient temperature)
Relative humidity	10% to 95%
Ambient noise	< 43 dBA SPL
Recommended illuminance	Vertical illuminance: 850±100 lux Horizontal illuminance: 950±100 lux
Conference room space (H x W x D)	TPX6206 (single-row): 2700 mm x 7480 mm x 5085 mm TPX6218 (dual-row): 2700 mm x 10500 mm x 7085 mm

Power supply and power

Input voltage range	100 V-240 V AC, 50 Hz-60 Hz
Power	TPX6206 (single-row): < 3072.5 W (peak power) TPX6218 (dual-row): < 3492.5 W (peak power)

Dimensions and weight

Device dimensions	Media wall dimensions: 5576 mm x 385 mm x 1776 mm First-row conference table dimensions: 5480 mm x 1830 mm x 750 mm Second-row conference table dimensions: 8500 mm x 1992 mm x 750 mm
Weight	TPX6206 (single-row): 770 kg TPX6218 (dual-row): 1100 kg