



TBX2 All-In-One Videobar (+4 Optional Wireless Expansion Mics)

The TBX2 is an all-in-one Android collaboration bar, featuring an intelligent dual-camera system that includes a 4K wide-angle camera and a 4K PTZ camera. Powered by advanced AI algorithms, it supports new features like Auto-Framing, Speaker Following, and Gesture Tracking, ensuring distant participants remain exceptionally clear.

For audio, it integrates an 8-microphone array and stereo high-fidelity speakers, with support for four optional wireless expansion mics. This hardware, combined with AI-enhanced audio 3A algorithms, provides superior echo cancellation, noise reduction, and reverberation suppression for audio pickup so clear it feels like a face-to-face conversation.

A powerful octa-core processor drives 4K video encoding and decoding, guaranteeing a smooth and lag-free user interface. The device is well-equipped with ports and supports dual-mode flexibility: a plug-and-play USB Videobar mode and a Standalone Android mode. This makes the TBX2 the ideal choice for high-end conference rooms.



Product Highlights



Dual-Screen Extend/Duplicate Display

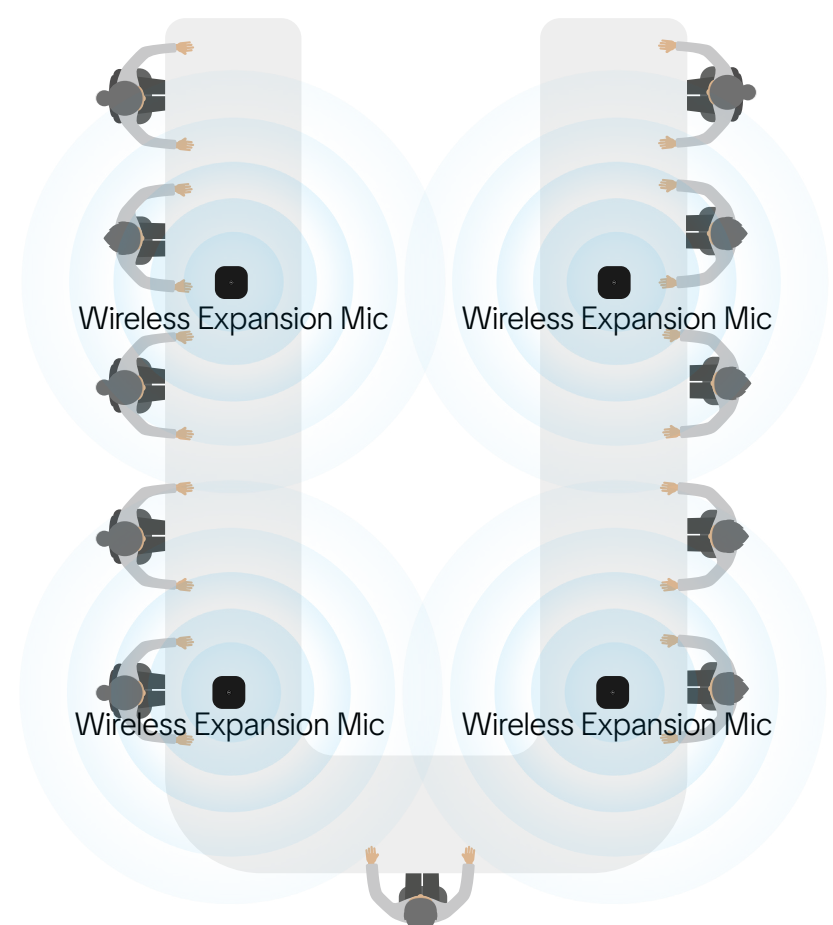
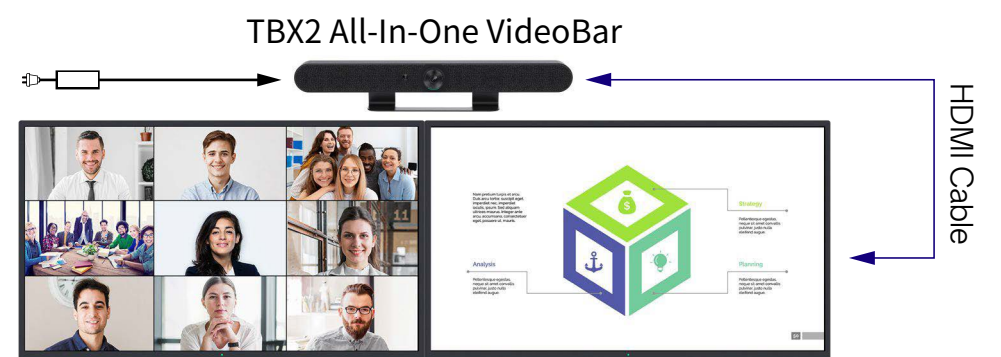
Supporting dual HDMI 4K UHD output, it enables dual-screen duplicate display or extend display. It delivers exceptional clarity and detail for both facial expressions and shared content, ensuring seamless and productive meeting collaboration.



2 Stereo High-Fidelity Speakers + 8 Mics AI Beamforming + 4 Wireless Mics (Optional)

This premium audio hardware, combined with AI algorithms, effectively eliminates echoes and reduces noise/reverberation, delivering a pure and natural call experience across all scenarios.

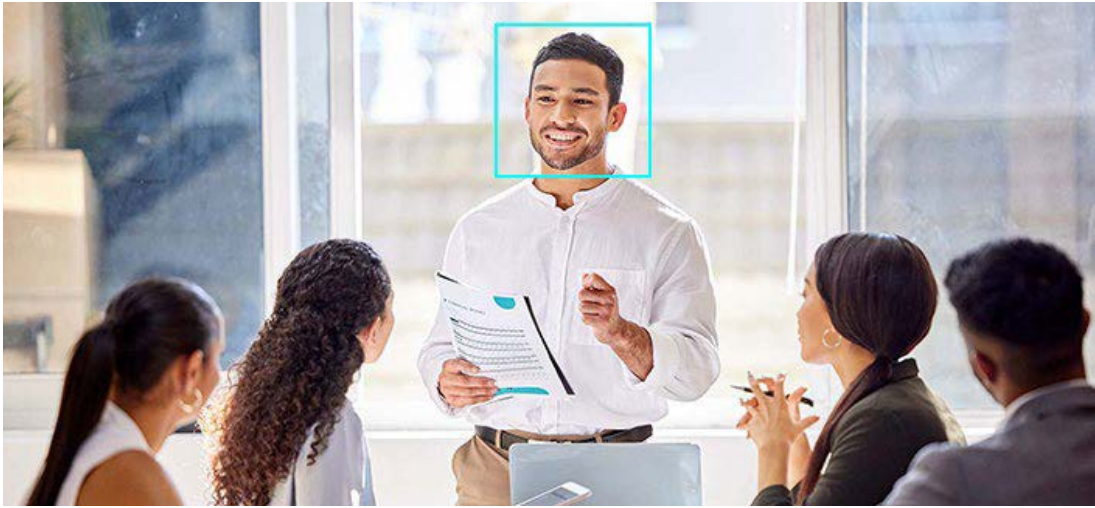
Connection Diagram





Dual-Camera 16MP Wide-Angle PTZ Camera

By combining a fixed wide-angle lens with a dynamic PTZ lens, this system delivers full frontal coverage with zero blind spots. It maintains exceptional clarity even for distant, zoomed-in subjects, capturing a complete and detailed view of the meeting.



Multiple Imaging Output Modes Powered By AI Algorithms

Driven by our in-house AI model, the system features multiple intelligent modes like auto framing, speaker following, and gallery view, etc. It automatically spotlights the active speaker, delivering a truly life-like, face-to-face meeting experience.



Host / USB Peripheral Mode for Flexible Deployment

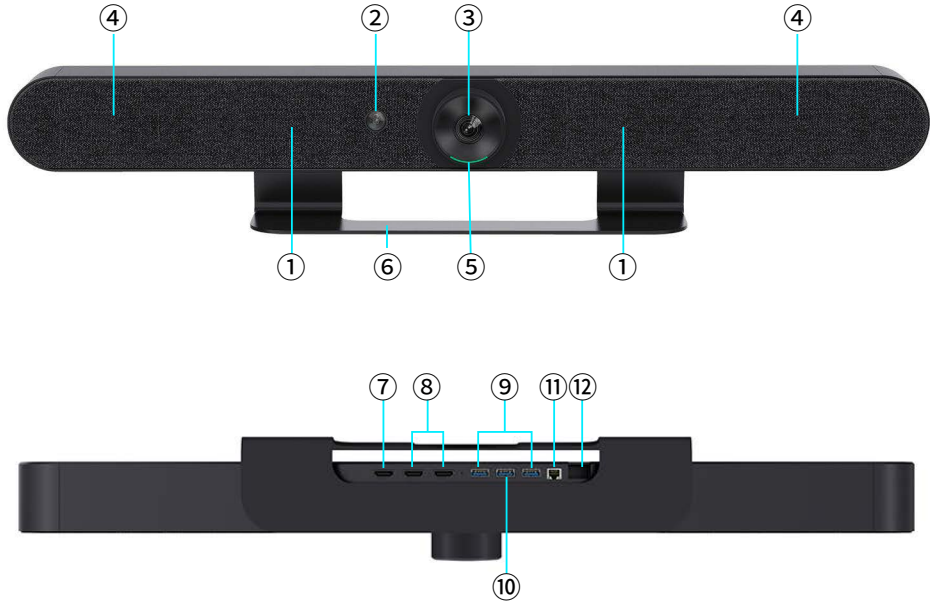
Enjoy complete deployment freedom. Use it in Standalone Mode to run meeting applications directly on the device, or switch to BYOM Mode (or USB Mode) for instant plug-and-play connectivity with any laptop. This versatility makes it easy to fit into any meeting room setup.

Wireless Expansion Microphones(Optional)



- Expandable Mics: 4 (voice pickup radius: 3 meters for each)
- Touch key to mute/unmute
- Magnetic contact charging dock

Product View



- | | | |
|-----------------------|-----------------|--------------------|
| ① Microphone array | ⑤ Indicator | ⑨ USB3.0 HOST port |
| ② 4K Panoramic camera | ⑥ Bracket | ⑩ USB3.0 OTG port |
| ③ 4K PTZ camera | ⑦ HDMI IN port | ⑪ Power port |
| ④ Hi-Fi Speaker | ⑧ HDMI OUT port | ⑫ Ethernet Port |

Product Specifications

Camera

- Main Chip: RK3588
- CPU Architecture: 4×A76 + 4×A55 (8-core)
- RAM: 4GB
- Storage ROM: 16GB
- Dual 4K Cameras: Dual 4K 8MP, 30fps
- Main camera for close-up shooting (e.g. human face tracking)
- Secondary 120° wide-angle lens for panoramic detection, realizing dead-angle-free coverage
- Horizontal FOV of Main Camera: 104°, ±20° electric left/right rotation
- Vertical FOV of Main Camera: 67°, ±15° electric up/down rotation
- Zoom Ratio: 6X (3X optical zoom, 2~4X digital zoom)
- Focus Parameters
- Auto Focus
- Focus Distance: 2.38~7m
- Supports Wide Dynamic Range (WDR)
- Supports Automatic Lens Calibration
- Electronic PTZ
- Aperture: F2.05
- Auto Adjustment Items: Automatic adjustment of brightness, contrast, exposure, white balance and shutter speed
- Output Resolutions: 4K / 1440P / 1080P / 720P (30fps)
- Video Formats: MJPG, H.264, VP8/9, etc.
- AI Functions:
- AI face tracking
- Gallery view
- AI speaker following

Hardware Interfaces

- 1 * Ethernet 100/1000Mbps
- 2 * HDMI OUT
- 1 * HDMI IN
- 1 * Power supply: DC 12V
- 2 * USB 3.0 Host ports
- 1 * USB 3.0 OTG port

Speaker

- DSP Amplifier Power: 2*15W
- Impedance: 4Ω
- Speaker frequency: 130Hz~20kHz
- Audio Channel: 2-channel stereo with independent L/R dual speakers

Microphone

- Microphone: 8 omnidirectional microphones in array
- Sound Pickup Distance:
Effective pickup distance up to 10 meters
- Signal-to-Noise Ratio (SNR): 72dB
- Sensitivity: -32dB
- Maximum Sound Pressure Level (Max SPL): 115dB
- Frequency Response: 100Hz~10kHz

Operating System

Android 12.0

System Compatibility

- Compatible Software: Supports mainstream domestic and overseas meeting applications including Tencent Meeting Rooms, DingTalk, Feishu, Zoom, Microsoft Teams, Webex, etc.
- Compatible Operating Systems: Windows 10/11, macOS 10.10 and above

Other

- Supported Network Protocols: IPv4, IPv6
- Supports Dual-screen Different Display
- Supports TV screen mounting / Wall-mounted installation
- Supports AirPlay & Miracast screen casting
- Supports Secondary Development (SDK available)
- 3A Audio Algorithms:
 - ANS: Automatic Noise Suppression
 - AGC: Automatic Gain Control
 - AEC: Acoustic Echo Cancellation
- Audio Algorithm: Supports algorithm porting
- Hardware Encoding & Decoding:
 - H.264 MP, H.264, VP8
 - H.265, VP9, H.264, VP8
- Software Customization: Custom boot logo supported (Embedded system)
- Remote Control: Supported
- Wi-Fi: Dual-band 2.4GHz & 5GHz
- Bluetooth: 5.0 or higher

Main Unit Basic Specifications

- Dimensions (W × H × D): 700mm × 124 mm × 55 mm
- Weight: 1.8kg
- Warranty: 1-year full unit warranty

Packaging Specifications

- Dimensions (L × W × H): 746mm × 159mm × 156mm
- Quantity per Carton: 4 units
- Outer Carton Dimensions (L × W × H): 767mm × 350 mm × 350 mm

Packing List

- 1 x TBX2 All-in-One VideoBar
- 1 x Remote control
- 1 x horizontal placement bracket and installation accessories
- 1 x Wall-mounted bracket and mounting accessories
- 1 x Quick Start Guide
- 1 x Power adapter
- 1 x HDMI cable
- 1 x USB cable

For order and product related inquiries, please contact the sales team at: (Email: sales@wedoinnov.com).

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(Note: The translation maintains the original meaning while adapting to standard legal and business English conventions.)