Yealink MeetingBar A50 Datasheet

All-in-One Video Collaboration Bar for Medium to Large Rooms

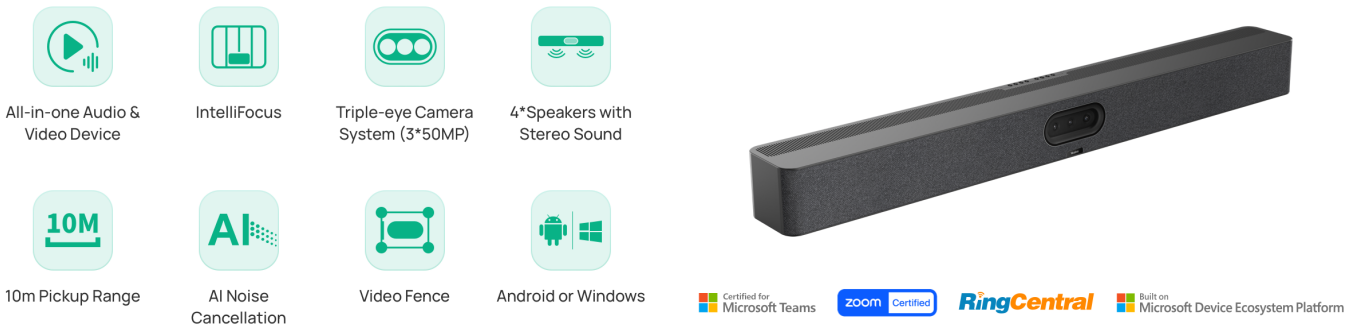
Yealink MeetingBar A50 is an all-in-one video collaboration bar for premium medium-to-large rooms. This product delivers cutting-edge audio and video communication capabilities, powered by advanced AI technology, ensuring crystal-clear sound and ultra-HD visuals. With intelligent full-duplex, IntelliFocus, and video fence, it redefines the video conferencing experience, bringing unparalleled clarity and efficiency to every meeting.

Yealink MeetingBar A50 is compatible with Microsoft's MDEP*, which enhances security and deployment experiences. This integration provides users with a more secure environment and streamlined deployment processes, contributing to a smoother and safer user experience.

Moreover, Yealink MeetingBar A50 features a direct connection to CTP25, enabling a simplified login process. This streamlined login experience saves users time and enhances convenience.

In addition, MeetingBar A50 seamlessly supports Microsoft Teams Rooms (MTR), delivering a consistent and efficient experience whether you're using the Android or Windows version. In MTR-W, it is namely MVC S50.

**Support 3x expansion microphones: Optional*



Key Features and Benefits

- All-in-One Design
- Triple-eye Camera System (3*50MP)
- High-quality audio pickup experience
- Compatible with Microsoft's MDEP
- Multi-Platform Flexibility

- Simple deployment
- Remote device management

Ultra HD picture quality and artificial AI features

The MeetingBar A50 has a built-in triple-camera system, each with 50MP resolution—one for wide-angle and two for telephoto, ensuring high-resolution imaging across different focal lengths. The professional-grade lens delivers low grain, natural colors, and HD image quality. It's also a built-in automatic physical privacy shutter that blocks the camera when not in use, ensuring user privacy. The intelligent AI features include IntelliFocus, Multi-stream IntelliFrame with Copilot (only for MTR-W), Video Fence, etc. It can automatically detect speakers in the meeting room, frame them, and display them on the screen through multi-stream output, providing a more intuitive and interactive remote meeting experience.

High-quality audio pickup experience

Yealink MeetingBar A50 has an 8-meter premium voice pickup range and 10-meter effective voice pickup range*, built-in stereo speakers, and a 16x MEMS microphone array. The intelligent noise reduction technology provides a good audio experience. In addition, it can support 3 additional expansion microphones, which can cover a large conference room.

**Effective voice pickup range refers to the range within which sound can be captured, where the audio quality may be affected by reverberation and ambient noise. Premium voice pickup range refers to the range within which audio is clear and usable for calls.*

Compatible with Microsoft's MDEP

Yealink MeetingBar A50 is compatible with Microsoft's MDEP, which enhances security and deployment experiences. This integration provides users with a more secure environment and streamlined deployment processes, contributing to a smoother and safer user experience.

Multi-Platform Flexibility

Yealink MeetingBar A50 supports native Teams, Zoom, etc. Additionally, it supports wired General Mode. After entering BYOD mode, you can use MeetingBar A50 as the peripheral for meetings held by third-party apps.

Simple deployment

Yealink MeetingBar A50 features a direct connection to CTP25, enabling a simplified login process. Only need to log in once. This streamlined login experience saves users time and enhances convenience.

Remote Device Management

The Yealink MeetingBar A50 is networked and reported to the device management platform, enabling remote management, configuration, and upgrades.

Specifications

Parameter	Description
Operating System	• Android 13 • Based on the Microsoft Device Ecosystem Platform (MDEP)

Camera	• Number of cameras: 3
	• Number of preset positions: 9
	• Electronic gimbal
	• Lens FOV
	  ○ 1x Wide Camera: DFOV 110, HFOV 98°, VFOV 81°
	  ○ 2x Tele Camera: DFOV 51°, HFOV 41.6°, VFOV 31.8°
	• Maximum pixels: 3x 50MP pixel
	• Depth of field: 0.7-8 meters
	• 8 x digital zoom
	• Maximum resolution: 3840*2160
	• Video output resolution: 4k (2160p) 30fps, 1080p60fps
	• Effective focal length: 8.29 mm (Tele camera), 3.5mm (Wide camera)
	• Aperture: F/2.0-F/2.4
	• Supports wide dynamic range
	• Supports auto exposure
	• White balance: ATW/auto/manual
	• Shutter speed: 10ms-33ms
	• Minimum illumination: 0.5 lux (daytime), 0.1 lux (nighttime)
	• Privacy cover: Electric lens cap
	• Lens calibration
	• Intelligence Features
	  ○ IntelliFocus (4 portraits)
	  ○ Auto Framing
	  ○ Speaker Tracking
	  ○ People Counting
	  ○ Picture in Picture
	  ○ Smart Gallery (Zoom only)

Speaker	• Built-in 4 x 5W speakers
	  ○ Rated Power: 4 x 5W
	  ○ Maximum Power: 4 x 10W
	• Maximum sound pressure level: 97 dBSPL @ 10 W @ 1 m
	• Frequency response: 80-20kHz
	• Sensitivity: 104±3dB 1W/0.1m
	• Sampling rate: 48khz
	• Sound emission angle: 0-180°
	• Total Harmonic Distortion (THD): <3% @1kHz (rated)
	• Rated impedance: 4ohms

Microphone	• Built-in 16 MEMS microphone array, 8-meter premium pickup range, 10-meter effective pickup range • Signal-to-noise ratio: 72dB@1kHz • Maximum sound pressure level: 130dBSPL (whole device), 100dBSPL (individual microphone) • Dynamic range: 22-108dBSPL • Sensitivity: -38dBv/pa • Frequency response: 100-20kHz • Sampling rate: 48kHz • Bit depth: 32-bit • Audio processing: Full duplex, AEC (Acoustic Echo Cancellation), AGC (Automatic Gain Control) • Noise suppression: AI-enhanced noise suppression • Expansion mics: Supports 3 expansion microphones
Resolution	• Lens resolution: Up to 4k30fps • Bandwidth requirement: 10Mbps or more
Content sharing	• Teams: 1080p30fps in meeting, 4k30fps in local sharing Zoom: Up to 1080p30fps • General mode (BYOM): Up to 4k30fps • RingCentral: 1080p30fps • H.323/SIP:1080p30fps

Video Codec	H.264 High profile, H.264 SVC, H.264
Audio Codec	• ARES: 24kHz bandwidth • G.722.1C: 16kHz bandwidth • G.722.1: 8kHz bandwidth • G.722: 8kHz bandwidth • G.711 (PCMA/PCMU): 4kHz bandwidth • G.729: 8kHz bandwidth
Security	• Full disk encryption: AES-128, AES-256 • Data encryption: symmetric keys, PKI • Device Identity: Protected by device attestation • Device Access: Authenticated using API • Key Protection: Arm TrustZone, RPMP
Communication standard protocol	• H.323/SIP in General Mode (BYOM) • Dual stream protocol: H.239 (H.323) / BFCP (SIP) • FECC: H.224/H.281 • H.323 protocol suit: H.245, H.225, H.235, H.241 • Gatekeeper account and SIP account

Network Protocol	• Wi-Fi 6
	  ○ 2.4G & 5G dual-band, 802.11a/b/g/n/ac/ax
	  ○ 2x2 MIMO
	• Bluetooth 5.0
	• TCP/IP (IPv4/IPv6), DHCP/static IP
	• HTTPS secure web access

Configuration Management	• Automatic configuration via web page/display/autoP • Firmware upgrade, factory reset • Configuration import and export • System log export
Device Management	• Yealink Https Web Portal • Yealink Device Management Platform • Yealink Management Cloud Service • Microsoft Device Management Platform (Microsoft Teams Admin

	Center/Intune) • Zoom Device Management • RingCentral Admin Center
Installation	• Wall Mount (Provided with the product: VB-WallMount-02) • TV Mount (Addition: Purchase VB-TVMount-01, in roadmap) • Table Mount (Addition: Purchase VB-TabletopMount-02)

Ports	• 1x USB3.0 Type-A port
	• 1x USB3.0 Type-B port
	  ○ Video output supports formats up to maximum 4k30fps, including 1080p60fps
	• 1x USB2.0 Type-C port (for dongle pairing)
	• 1x Ethernet port: 10/100/1000Mbps
	• 2x Yealink VCH port (RJ-45)
	• 1x 3.5mm Line-in & Line-out port
	• 1x Power port
	• 1x Security lock slot
	• 1x Reset slot
	• 2x HDMI-out
	  ○ Video output supports formats up to maximum 4k30fps, including 1080p60fps
	  ○ Supports HDMI CEC

Package	• MeetingBar A50 • Power adapter, 3.5m/11.48ft • HDMI 2.0 cable x2,1.8m/5.91ft • Network cable x1, 3m/9.84ft • USB3.0 A-B cable x1, 2.5m/8.20ft • Wall mount (VB-WallMount-02) • Table mount (TabletopMount-02) • Cable Cover • MeetingBar A50 Quick Start Guide • Optional package ○ A50-010: A50+VCR11

	○ A50-031: A50+CTP25 Package (CTP25, 2m/6.56ft 65W PD power adapter, 7.5m/24.6ft Network cable, 1.2m/3.94ft USB C to C cable, High stand, Cable management cover)
Environmental Factor	• Operating humidity: 10 - 95% • Operating temperature: 0 - 40 °C • Storage temperature: -30 °C~70 °C • BTU/hr: 38 in idle, 58 in meeting
Dimensions and weight (W × D × H)	• MeetingBar A50: 910 × 102 × 88mm • N.W/CTN: 7.7kg • G.W/CTN: 9.5kg
Warranty	• Standard: 2-year limited hardware warranty included • Extended: Additional extended warranties are available at the time of hardware purchase. Contact your reseller.

MeetingBar Kit

Meeting Room Type	Model	Kit Contain	Related Topic
Small to Medium Meeting Room	A50-010	MeetingBar A50 VCR11	MeetingBar A50
Small to Medium Meeting Room	A50-031	MeetingBar A50 CTP25	MeetingBar A50