Yealink MVC S50-C5U Datasheet

Microsoft Teams Rooms System for Medium and Large Meeting Rooms

The Yealink S50 is a cutting-edge solution for Microsoft Teams Rooms, designed to enhance collaboration and is ideal for medium to large meeting spaces. This set includes the new-generation mini-PC MCore 4, the large-screen touch panel MTouch Plus, the MeetingBar A50 all-in-one video collaboration bar, and the intelligent detection sensor RoomSensor.

Powered by the Intel® Core™ Ultra 5 125H processor, the MCore 4 delivers outstanding data processing capabilities and powerful AI computing capabilities, offering a stable and efficient video conferencing experience. The MeetingBar A50, featuring a triple-camera design, delivers cutting-edge audio and video communication capabilities powered by advanced AI technology, ensuring crystal-clear sound and Ultra HD visuals.

Additionally, to streamline meeting control, the MTouch Plus features an 11.6-inch touch interface for intuitive device operation, while the RoomSensor intelligently detects the occupancy status of the meeting room and simultaneously displays real-time environmental metrics like temperature and humidity on the MTouch Plus interface, delivering intelligent room management solutions. The S50 also supports both wired and wireless screen sharing, enabling participants to share content effortlessly. Meanwhile, the system's simple deployment and remote management capabilities make it easy to install and maintain, reducing setup time and operational complexity.



Key Features and Benefits

Ultra HD picture quality and AI-based 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 Ultra HD image quality. It also has a built-in automatic physical privacy shutter that blocks the camera when not in use, ensuring privacy protection for users. The intelligent AI features include IntelliFocus, Multi-stream IntelliFrame with Copilot, Video Fence, among others. 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.

Seamless Meeting Experience with Native Microsoft Teams Integration

The entire MVC S50 bundle is equipped with a native Microsoft Teams user interface, ensuring a familiar and intuitive experience for users. The MTouch Plus touch panel provides easy access to one-click conferencing, call control, camera adjustments, and content sharing, while the RoomSensor automatically wakes up the system as participants enter the room. This seamless integration ensures that meetings start effortlessly and run efficiently, enhancing productivity and collaboration.

Outstanding Data Processing Capability

At the core of the MVC S50 is the MCore 4, powered by the Intel® Core™ Ultra 5 125H processor, boasting exceptional data processing capabilities and powerful AI computing capability with its NPU. It ensures smooth and efficient meetings, enabling intelligent conferencing features. The MCore 4 empowers smart meeting rooms, providing a stable and efficient operating environment for immersive remote communication.

Real-Time Content Sharing for Enhanced Collaboration

The bundle supports both wired and wireless content sharing for maximum flexibility. Wireless content sharing is made simple with the WPP30 adapter, enabling one-click sharing at 1080p/30fps resolution for a superior viewing experience. Wired sharing is also available via USB-C or HDMI ports. Additionally, the MCore 4 is equipped with an HDMI-In interface, supporting 4K resolution auxiliary stream input to ensure lossless image presentation, further enhancing the content sharing experience.

Simple Deployment and Easy Use

A single CAT5e cable is sufficient to connect the MCore 4 and MTouch Plus, enabling both data transmission and power supply without the need for additional cables or power sources. Additionally, the RoomSensor operates via Bluetooth (BLE), eliminating the need for extra cables.

Remote Device Management

These devices can support the Yealink Device Management Platform/Cloud Service, enabling remote

management, monitoring, configuration, updates, and diagnostics of all connected devices. This feature ensures that your meeting room is always up-to-date and operating at peak performance.

Specifications

Parameter	Description
Package Content	• MCore 4 • MTouch Plus • RoomSensor • MeetingBar A50, all-in-one video collaboration
Preload	• Windows 11 IoT enterprise X64 • Windows 11 IoT enterprise license • Microsoft Teams Rooms app • Yealink RoomConnect
MCore 4, Gen-4 Mini-PC	• Processor: Intel® Core™ Ultra 5 125H • Memory: 16GB(2*8GB) DDR5 • Storage: 256GB SSD BIOS features: • 3x HDMI video output - CEC - EDID • TPM2.0 • Kernel DMA Interfaces: • 1 x HDMI-Out 2.1 port • 2 x HDMI-Out 2.0 port • 1 x HDMI-In port • 4 x USB3.0 type-A port • 1 x MTouch port (RJ-45) • 1 x LAN port for AV network • 1 x 10/100/1000 Gigabit Ethernet port • 1 x power supply port • 1 x 3.5mm headphone port • 1 x reset port

	• 1 x security slot • Wi-Fi: IEEE 802.11 a/b/g/n/ac/ax • Bluetooth: BT 5.2
MTouch Plus	Physical features: • 11.6-inch narrow bezel IPS display • Angle between screen and desktop (30° ~ 70°) • Adjustable angle of support frame (50° ~ 180°) Function features: •1920 x 1080 video resolution • Support wired and wireless (with WPP30) content sharing • Support external PD power supply to power the sharing device • Support HDMI/USB-C video input • Support desktop placement, desktop fixed, and wall-mounted deployment
RoomSensor	• Detection angle: 120° • Adjustable detection angle: ±20° • Operating temperature: 0°C-40°C • Operating humidity: 10%-95%
MeetingBar A50	Camera: • Number of preset positions: 9 • Electronic gimbal • 1 x Wide HFOV 98°, VFOV 81° • 2 x Tele HFOV 41.6° VFOV 31.8° • 8 x digital zoom 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: 4 ohms Microphone: • Built-in 16 MEMS microphone array, 10-meter pickup distance • 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 Interfaces: • 1 x USB3.0 Type-A port • 1 x USB3.0 Type-B port • 1 x USB2.0 Type-C port • 1 x Ethernet port • 2 x Yealink VCH port (RJ-45) • 1 x 3.5mm line-in & line-out port • 1 x power port • 1 x security lock slot • 1 x reset slot • 2 x HDMI-out Dimensions and environmental factors: • MeetingBar A50: 910 × 88 × 102 mm • Operating humidity: 10 - 95% • Operating temperature: 0 - 40°C