

TELFOLINK -TFL-104 Datasheet

Overview

TELFOLINK-TFL-104 is an advanced all-in-one video collaboration bar.

Designed specifically for **small to medium meeting rooms**. This premium solution combines high-quality video, intelligent audio, and seamless deployment to elevate hybrid and virtual meetings. Its sophisticated **dual-camera system captures ultra-clear 4K resolution with a wide 120° field of view**, ensuring every participant is visible and framed professionally. Intelligent AI-powered features like auto-framing and speaker tracking keep focus on active speakers and make remote meetings feel natural and engaging.

The built-in audio suite—featuring an **8-microphone array and stereo speakers**—is engineered to pick up voices clearly across the room while minimizing noise and echo. With a one-cable deployment design and multiple connectivity options (USB-C, HDMI, Ethernet), TFL-104 simplifies setup and reduces cable clutter. Running on a modern platform with future software upgrade support, the device integrates smoothly with major video conferencing platforms while offering an intuitive user experience for professional collaboration.



Key Features and Benefits

- Ultra-clear 4K video with dual high-resolution camera system
- Wide-angle coverage and AI framing
- Intelligent audio with multi-mic array and noise suppression
- Simple deployment with one-cable solution and BYOD support
- Broad platform compatibility and future-ready upgrades

Ultra-High Definition Video System

Covers the dual-camera setup with 4K UHD resolution, wide field of view, digital zoom, and AI-powered video enhancements.

Intelligent Audio & Voice Capture

Details the built-in microphone array, pickup range, noise suppression, echo cancellation, and speaker performance.

AI-Enhanced Meeting Experience

Focuses on features like auto-framing, IntelliFocus, speaker tracking, and smart layout adjustments for natural hybrid interactions.

Connectivity & Sharing Flexibility

Lists all physical and wireless interfaces such as USB-C, HDMI, Ethernet, BYOD support, and advanced content sharing modes.

Platform Compatibility & System Integration

Highlights support for major conferencing platforms, remote device management, future firmware upgrades, and network protocols.

Compatible with Microsoft's MDEP

Telfolink **TFL-104** 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

Specification

Parameter	Description
Operating System	<ul style="list-style-type: none"> • Android 13 • Based on Microsoft Device Ecosystem Platform (MDEP)

<h3>Camera</h3>	<ul style="list-style-type: none"> • Maximum pixels: 2*48MP pixels • Number of preset positions: 9 • Electronic gimbal • 120° DFOV, 54° VFOV, 110° HFOV • Depth of field: 1-5 meters • 6x digital zoom • Maximum resolution: 4K • Maximum frame rate: 60FPS • Video output resolution: 4K60fps, 1080P60fps • Effective focal length: 4.2 mm • Aperture: F/2.2-F/2.4 • Supports wide dynamic range • High dynamic range imaging: 10-bit • Supports auto exposure <ul style="list-style-type: none"> • White balance: ATW/auto/manual • Shutter speed: 10ms-33ms • Minimum illumination: 0.5 lux (daytime), 0.1 lux (nighttime) • Signal-to-noise ratio: >63 dB • Privacy cover: Electric lens cap • Lens calibration • Intelligence Features <ul style="list-style-type: none"> - IntelliFocus - Auto Framing - Speaker Tracking People counting - Picture in Picture - Multi-focus Framing - Smart Gallery (Zoom only) • Number of cameras: 2
<h3>Speaker</h3>	<ul style="list-style-type: none"> • Built-in 2 x 10W speakers • Maximum sound pressure level: 112dB SPL 10W@0.1m • Frequency response: 100-16kHz <ul style="list-style-type: none"> • Sensitivity: 86dB SPL @ 1W @ 0.5 meter • Sampling rate: 48kHz • Sound emission angle: Forward-facing • Total Harmonic Distortion (THD): at 10W, 1kHz, <5% • Rated impedance: 4 ohms • Maximum power: 12W • Rated power: 10W Platform (MDEP)

<p>Microphone</p>	<ul style="list-style-type: none"> • Built-in 8 MEMS microphone array • 6-meter pickup distance, 4-meter high-quality pickup distance • Signal-to-noise ratio: 72dB • Maximum sound pressure level: 130dBSPL (whole device), 100dBSPL (individual microphone) • Dynamic range: 28-100dBSPL • Sensitivity: -38dBV/pa • Frequency response: 100-20kHz • Sampling rate: 48K32bit • Bit depth: 32-bit
<p>Resolution</p>	<ul style="list-style-type: none"> • Portrait resolution: up to 4K30fps • Bandwidth requirement: 10Mbps or more
<p>Content sharing</p>	<ul style="list-style-type: none"> • Up to 4K15 in General Mode • Teams: 1080p in meeting, 4K local sharing • Zoom: 1080p
<p>Communication standard protocol</p>	<ul style="list-style-type: none"> • SIP/H.323 in General Mode
<p>Network Protocol</p>	<ul style="list-style-type: none"> • 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
<p>Configuration Management</p>	<ul style="list-style-type: none"> • Automatic configuration via web page/display/AutoP • Firmware upgrade, factory reset • Configuration import and export • System log export
<p>Device Management</p>	<ul style="list-style-type: none"> • Telfolink Https Web Portal • Telfolink Device Management Platform • Telfolink Management Cloud Service • Microsoft Device Management Platform(Microsoft Teams Admin Center/Intune) • Zoom Device Management
<p>Installation</p>	<ul style="list-style-type: none"> • Wall mount • Use TV-Clip Mount • Place on the desktop

<p>Ports</p>	<ul style="list-style-type: none"> • 1x USB2.0 USB-A port • 1x USB-C port • 1x Ethernet port • 1x Telfolink 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
<p>Package</p>	<p>Package</p> <ul style="list-style-type: none"> • TELFOLINK -TFL-104 • HDMI cable x2 • Network cable x1 • TV-Clip Mount x1 • Wall Mount x1 • Optional Package - A40-010: A40+VCR11 - A40-031: A40+CTP25
<p>Environmental Factor</p>	<ul style="list-style-type: none"> • Operating humidity: 10 - 95% • Operating temperature: 0 - 40°C
<p>Dimensions and weight (W × D × H)</p>	<ul style="list-style-type: none"> • TELFOLINK -TFL-104 : 650 × 62 × 80 mm • N.W/CTN: 5.540 kg • G.W/CTN: 6.086kg