

ALL-IN-ONE USB VIDEO BAR

Dual-Lens 4K All-in-One USB Video Bar

Technical reference for the BR-VTS4K-i — an all-in-one 4K video bar for medium to large meeting rooms, combining a 4K panoramic and a 4K close-up camera, a beamforming microphone array and full-range speakers, with built-in AI auto-framing and speaker tracking.

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01 · USB VIDEO BAR

Dual-Lens 4K All-in-One USB Video Bar

4K panoramic and close-up cameras, a beamforming microphone array and full-range speakers in one bar, with built-in AI.

The BR-VTS4K-i integrates dual-lens video and audio for medium-to-large meeting spaces. A 4K UHD panoramic and close-up camera system, a digital microphone and a full-range speaker are combined in one bar, and built-in AI video processing automatically adjusts framing to the meeting — capturing the optimal panoramic and close-up shots without manual intervention.



Dual-Lens



AI-Assisted Functions



Intelligent Director



PTZ



Dual-Channel Amplifier

RESOLUTION

4K dual-lens

CLOSE-UP ZOOM

12× optical

PANORAMIC FOV

117° DFOV

AUDIO PICKUP

8 m

HEADLINE CAPABILITIES

- Dual-lens 4K — panoramic + close-up
- ±140° PTZ close-up, 12× zoom
- 8 m beamforming mic + full-range speakers
- AI auto-framing & speaker tracking
- Smart Gallery & Intelligent Director
- USB-C plug-and-play (UVC / UAC)

01.1 Dual-Lens Integration

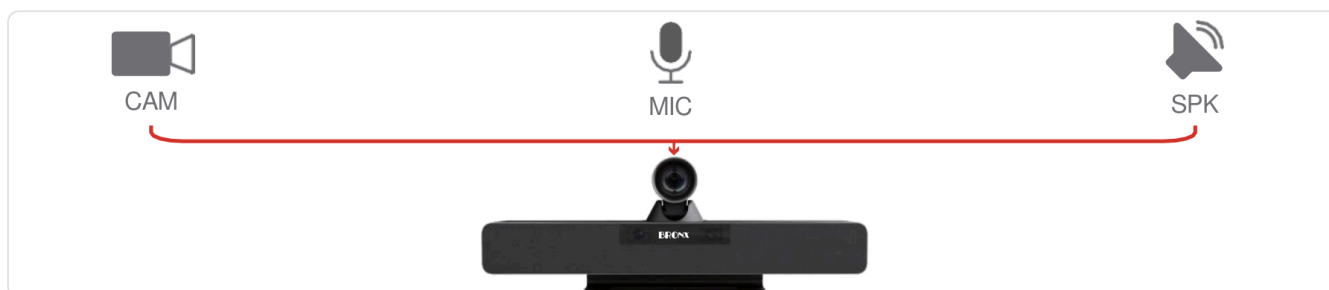
PANORAMIC + CLOSE-UP



Panoramic (117° FoV) and close-up (70° FoV, 12× optical zoom) 4K UHD lenses, supported by a $\pm 140^\circ$ PTZ.

01.2 All-in-One Design

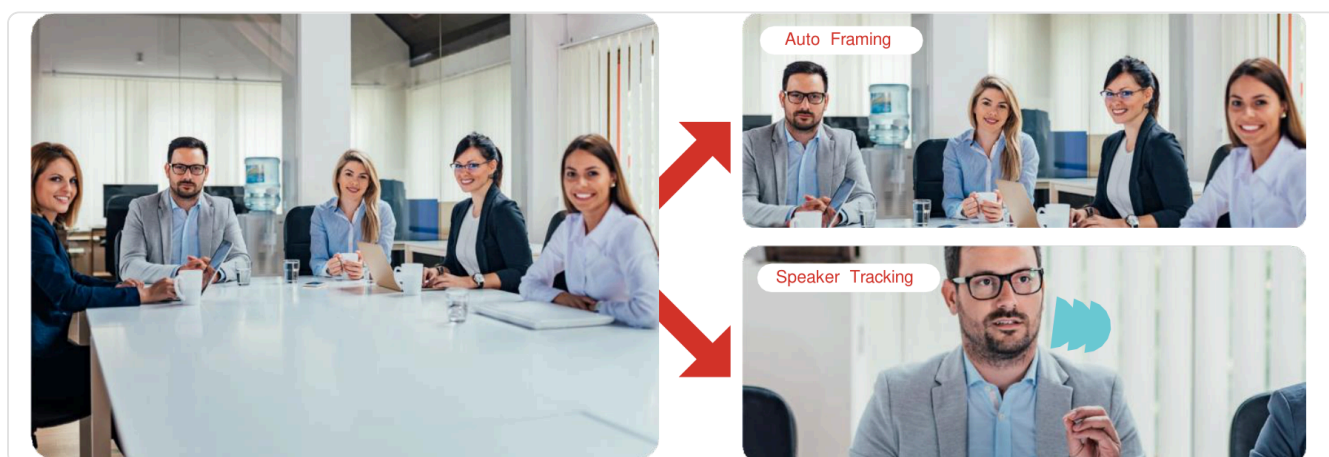
CAMERA · MIC · SPEAKER



4K panoramic and close-up cameras, a digital microphone array and a full-range speaker in one body with minimal cabling.

01.3 AI-Assisted Functions

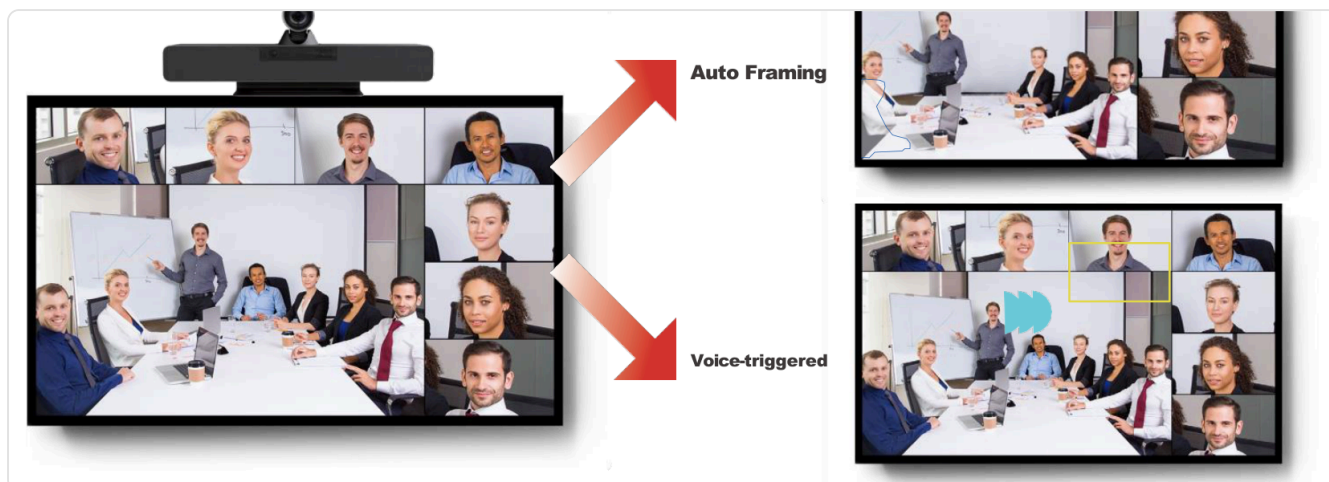
RECOGNITION · TRACKING



Head, facial, human-figure recognition and sound localization identify participants and auto-frame the optimal shot.

01.4 Smart Gallery

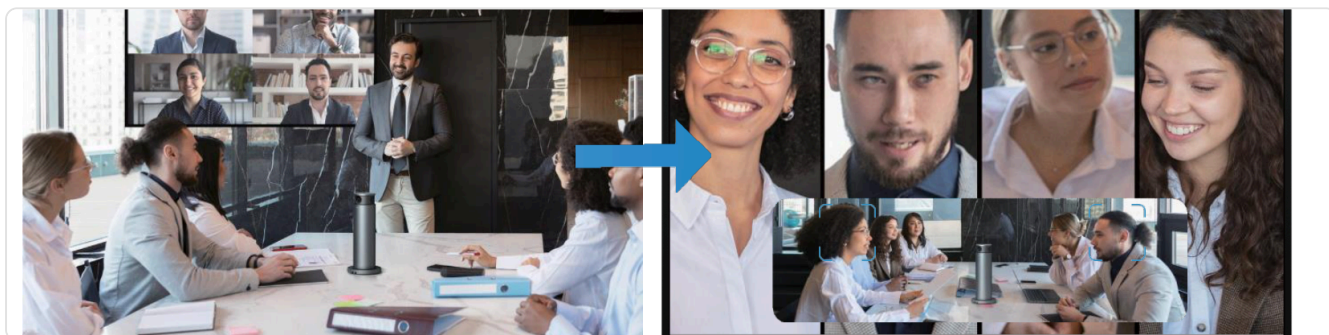
AUTO LAYOUT · VOICE-TRIGGERED



AI adjusts the layout to the participant count and frames each person evenly; the active speaker's tile highlights.

01.5 Multi-Camera Intelligent Director

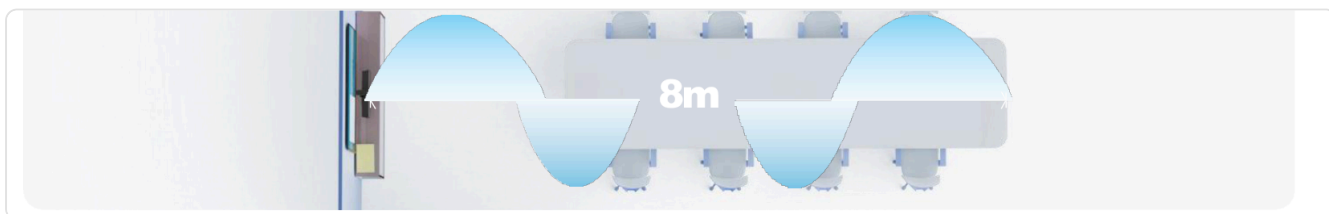
FRONT + MULTI-ANGLE



Use alone or with a 360° desktop camera; the AI director auto-switches between the front view and multi-angle views.

01.6 8 m Audio Pickup

BEAMFORMING



A beamforming microphone locates the speaker's sound source for balanced, consistent capture up to 8 m.

02.1 Close-Up Camera

LENS · PTZ · IMAGING

Video resolution	4K@30/25 · 1080P@30/25 · 720P@30/25 fps
Sensor	1/2.5-inch CMOS, 8.29 MP effective (3840×2160)
Lens focal length	12×, f = 4.4 – 51.1 mm, F1.8 – F2.6
Horizontal FOV	70.1° – 7.4°
Vertical FOV	40.7° – 4.2°
Horizontal rotation	-90° – +90°
Vertical rotation	-23° – +23°
Rotation speed	H 1.7° – 76° / s; V 0.5° – 15° / s
H & V flip / image freeze	Support
Mechanical PTZ / auto-focus	Support
Preset position / accuracy	255 / 0.1°
White balance	Automatic · Indoor · Outdoor · One-touch · Manual
BLC / DNR	Support / 2D & 3D
SNR	≥ 55 dB

02.2 Panoramic Camera

FIXED WIDE-ANGLE

Video resolution	4K@30/25 · 1080P@30/25 · 720P@30/25 · 640×360@30/25 fps
Sensor	1/2.8-inch CMOS, 8.51 MP
Optical lens	Fixed-focus, f = 2.8 mm; DFOV 117°, HFOV 108°, VFOV 74°
Mechanical PTZ	Not supported
EPTZ	Support
White balance	Automatic
BLC	Support
Digital noise reduction	2D & 3D
SNR	≥ 55 dB

03.1 Audio

MICROPHONES & SPEAKERS

Speaker	2× full-range speakers
Built-in microphone	6× analog silicon beamforming mics, 8 m pickup
Audio 3A algorithm	Support
Sampling rate	Mic 32K, speaker 48K
Extended MIC	Support

03.2 USB Features

COMPATIBILITY · PROTOCOL

Operating systems	Windows 7 (≤1080p), Windows 8.1 / 10+, macOS 10.10+, Chromebook 29+, Linux (UVC)
Hardware requirements	2.4 GHz Intel Core 2 Duo+, 2 GB RAM+, USB 2.0 (4K needs USB 3.0)
Connection type	USB 3.0, backward compatible with USB 2.0
Colour space / compression	MJPEG / YUY2
USB video / audio protocol	UVC 1.1 · UAC 1.0
UVC PTZ control	Support

04.1 Input / Output & Wireless

I/O · BLUETOOTH · WI-FI

USB 3.0	1× USB 3.0 Type-C — audio / video transmission and firmware upgrade
HDMI	1× HDMI — local video display
USB 2.0	1× USB 2.0 Type-A (female) — USB wired expansion microphone
Network port	1× RJ45 expansion-mic (PoE); 1× RJ45 10/100M adaptive Ethernet for A/V
Power interface	DC 12 V
Bluetooth	Bluetooth 5.0 — connects phones / laptops, transmits audio
Wi-Fi	Wi-Fi 5 — BYOM wireless transmission and BYOD screen projection (extra device)
Remote control	Support

04.2 General Specifications

SECURITY · PHYSICAL

Security	Kingston anti-theft lock socket
Operating / storage temperature	0 °C – 40 °C / -40 °C – 60 °C
Dimensions (L × H × D)	600 × 127.1 × 182.1 mm (600 × 127.1 × 217.1 mm with bracket)

Disclaimer: due to continuous product development and upgradation, the specifications and image of the product may change without prior intimation.

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DOCUMENT

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REVISION

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