

VOKON

Wired Video Tracking Host

VM-BDZ10



Product Overview

VM-BDZ10 is a professional integrated conference system host compliant with IEC 60914 and GB/T 15381-94 standards. Adopting stable CAN full-duplex bus architecture, it delivers low-noise, high-fidelity anti-interference audio with low THD and wide dynamic range. It supports multi-type microphone interfaces, hot-swappable design, and expandable microphone access up to 500 units, with flexible speaking quantity settings and diverse conference modes. Equipped with a 3.5-inch TFT color display and tactile keys, it offers bilingual switching and power-off memory. It supports multi-protocol automatic video tracking, full RS serial control ports and central control linkage. Featuring a 2U rack-mounted aluminum chassis, it suits standardized engineering installation for various professional conference scenarios.

Suitable for applications including:

- ✓ Government conference rooms
- ✓ Enterprise multi-functional meeting halls
- ✓ School academic lecture halls and training rooms
- ✓ Hotel conference centers and banquet meeting rooms
- ✓ Party and enterprise command & dispatch rooms
- ✓ Large convention centers and exhibition venues
- ✓ Studio recording and indoor meeting occasions
- ✓ High-end business negotiation rooms



VOKON

Wired Video Tracking Host

VM-BDZ10

Key Features

1. Meets IEC 60914 and GB/T 15381-94 international & national standards, integrated all-in-one unit combining conference discussion, auto camera tracking and Ethernet transmission via 8-core cables.
2. Adopts CAN full-duplex bus for anti-interference, collision-free long-distance stable bidirectional audio & data transmission with high confidentiality.
3. Optimized low-noise circuit delivers premium audio performance: 20Hz–20kHz frequency response, SNR > 90dB, dynamic range > 96dB, THD < 0.05%.
4. Dual microphone connection ports: 4 hot-swappable RJ45 ports (max 60 mics) + 4 DIN 8-core ports (max 120 mics), expandable up to 500 microphone units total.
5. No limit on chairman microphones; simultaneous speakers adjustable from 1 to 12, supporting 5 conference working modes including FIFO, voice-activated and request-to-speak.
6. Built-in 3.5-inch high-definition TFT color screen with tempered glass, 9 tactile shortcut keys, Chinese/English switchable display and real-time mic status monitoring.
7. Multi-protocol auto video tracking compatible with Sony VISCA, Pelco-D/P; rich serial control ports (RS232/422/485) for central control linkage.
8. Complete audio I/O terminals and USB interfaces; auto power-off memory retains all conference settings for easy maintenance.
9. 2U rack-mounted aluminum alloy chassis, fits standard 19-inch equipment cabinets, dual voltage AC 110V/220V with 120W max power consumption.

Technical specifications

Product Model	VM-BDZ10
Maximum Expandable Microphone Capacity	Up to 500 conference microphone units
Frequency Response	20 Hz – 20 kHz
Signal-to-Noise Ratio (SNR)	> 90 dB @ 1 kHz
Dynamic Range	> 96 dB
Total Harmonic Distortion (THD)	< 0.05%
8-pin DIN Microphone Ports	4 ports, each supports up to 30 units, total 120 units
RJ45 Microphone Ports	4 ports, hot-swappable, each supports up to 15 units, total 60 units
Audio Input Ports	1 × RCA (unbalanced line), 1 × 6.35mm Mic input
Audio Output Ports	1 × XLR-M (balanced), 1 × RCA (unbalanced), 1 × 6.35mm MIXED output
Audio Signal Types	LINE, BALANCED, UNBALANCED, meets diverse system requirements
Serial Control Ports	2 × RS-232, 1 × RS-422, 1 × RS-485 (Phoenix terminal)
USB Ports	1 × Type-B, 1 × Type-A
Central Control Compatibility	Supports RS-232 central control linkage, ID-based code transmission for centralized management
Display Type	3.5-inch TFT color screen with high-strength tempered glass cover
Operating Voltage	AC 220V / 50Hz or AC 110V / 60Hz
Maximum Power Consumption	120W
Rack Specification	Standard 2U, fits 19-inch standard equipment rack
Operating Temperature	0 °C – 45 °C
Storage Temperature	-20 °C – 70 °C
Operating Humidity	10% – 90% RH (non-condensing)