BXB ELECTRONICS CO.,LTD.

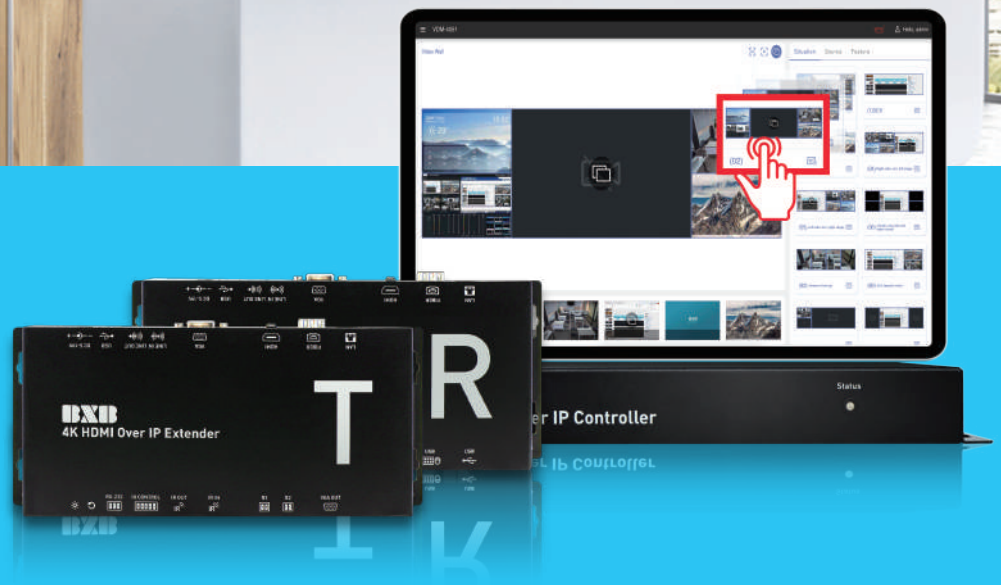
BXB Electronics Co., Ltd. provides you with complete solutions for smart meeting rooms, smart classrooms, and broadcasting systems, and can integrate your existing equipment to create a unique smart space tailored to your needs.



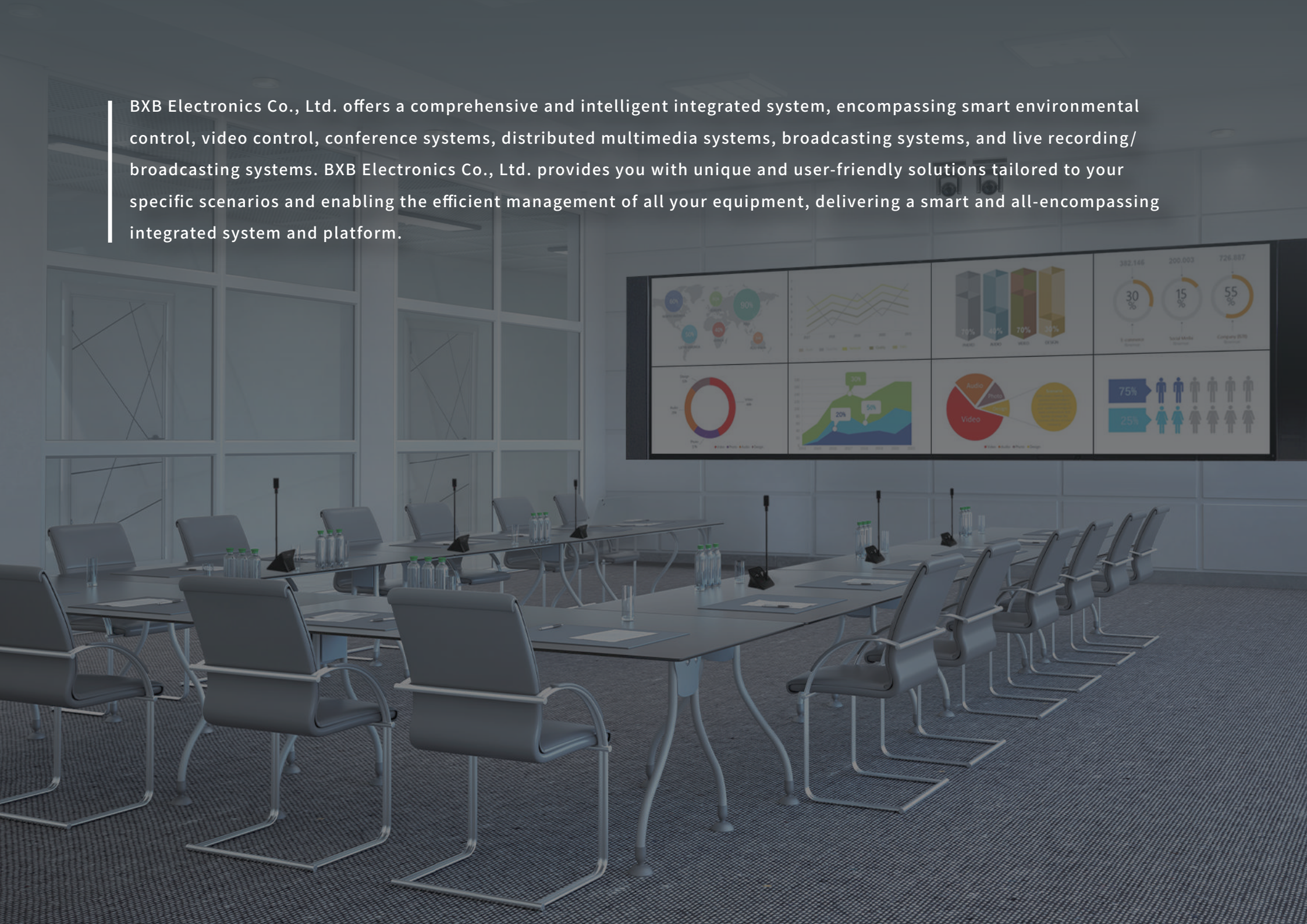
VDM Series

Optimal AVoIP Networked Distributed Multimedia Solution

VDM is a high-performance, ultra-low latency audio-visual network solution that supports infinite scalability. Through a standard 1GB Ethernet, it enables extended, matrixed, and switched AV signal transmission, easily supporting point-to-point, many-to-many, and thousands of endpoints across various scenarios and network designs. BXB delivers comprehensive solutions for smart conference rooms, classrooms, and broadcasting systems, allowing integration with existing equipment to create customized intelligent spaces.



BXB Electronics Co., Ltd. offers a comprehensive and intelligent integrated system, encompassing smart environmental control, video control, conference systems, distributed multimedia systems, broadcasting systems, and live recording/broadcasting systems. BXB Electronics Co., Ltd. provides you with unique and user-friendly solutions tailored to your specific scenarios and enabling the efficient management of all your equipment, delivering a smart and all-encompassing integrated system and platform.



Contents

VDM-4051 AV over IP Controller 01

VDM-4010 / VDM-4020 05
4K Over IP Matrix Encoder/Decoder

VDM-4024 Distributed AV over IP Switch 09

SC-100 Smart AVIoT Controller 15

VT-725 Video Tracking Controller 19

WKVM Wireless Presentation 26

DAM-0808 8x8 Digital Audio Matrix Processor 28

PSC-1202 Sequence Control Unit 30

UAC-801 4K AI Camera 32

HAC-701 HD AI Camera 38

VDM Application Features

High-Quality Transmission Without Distance Limitations

Supports 4K@30 high-resolution with a 100M transmission distance per node without signal attenuation or distortion, maintaining exceptional audiovisual output. Built-in scaler functionality and fixed frequency output ensure high compatibility with various display devices.

Flexible Configuration and Infinite Scalability

Easily find the optimal setup for different installation architectures and scales, enabling point-to-point, one-to-many, and many-to-many configurations for thousands of endpoint AV network systems.

Simplified Installation

Deploy distributed video systems easily through a network gateway, eliminating the need for additional AV equipment like matrix switchers, distributors, video wall processors, and extenders, thus facilitating faster and more convenient maintenance.

Intuitive Web GUI Management Interface

Manage all audiovisual devices using a cross-platform browser interface. Simply drag and drop video sources to easily switch image configurations and deploy your AV network system.

Multi-Scenario Applications

Suitable for schools, businesses, and public spaces for applications such as video wall tiling, KVM workstation management, split-screen displays, and environmental control, meeting diverse needs for seamless audiovisual transmission.

VDM Application Features

VDM is suitable for applications such as digital audio broadcasting, multimedia advertising, exhibition video playback, transportation hubs like train stations and airports, department stores, highway broadcasting, control centers, tutoring centers, server rooms, and classroom broadcasting, showcasing the versatility of multi-IP extenders across diverse settings.



Commercial reception areas



Conference halls



Classrooms



Transportation

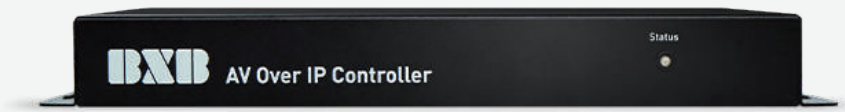


Information warfare centers and command stations



Exhibition halls

VDM-4051 Application Features



VDM-4051 **AV over IP Controller**

- VDM-4051 Control : Manages multiple AVoIP devices within a network. Offers cross-platform control, enabling remote management via mobile devices.
- User-Friendly Interface : No extra software required. Simple drag-and-drop interface allows easy operation even for non-programmers.
- Quick Video Wall Setup : Constructs up to a 6x6 video wall with easy source and scenario switching.
- Real-Time Preview : Monitors and adjusts connected source images and output displays in real time. Includes a one-click feature to project computer screens onto the video wall.
- Matrix Switching : Supports rapid screen transitions with matrix-style configuration.
- Zoom and Focus : Enables detailed zooming and focusing on specific areas without distortion.
- Scalable System : Allows unlimited addition of transmitters and receivers, enhancing synchronous image distribution.
- Automatic System Management : Detects and manages all connected devices, offering configuration options like device naming and network settings.
- Scheduling Management : Automates operations like scenario switching and display toggling based on preset schedules.
- Integrated Communications : Supports WEB API and RS-232 for system integration with environmental controls.
- Enhanced Network Capability : Features dual network cards for up to 1000M speed, optimizing transmission quality.
- Configuration Backup : Allows backup and transfer of settings to another VDM-4051 for quick setup.

Product Specifications

Hardware Specifications

SYSTEM Port	RJ45 TCP/IP x 1
LAN Port	RJ45 TCP/IP x 1
Audio (reserved)	Euro type terminal block 3P x 1
RS-485 (reserved)	Euro type terminal block 3P x 1
RS-232	Euro type terminal block 3P x 1
N.O. Trigger (reserved)	Euro type terminal block 2P x 2
Indicator Light	LED x 2

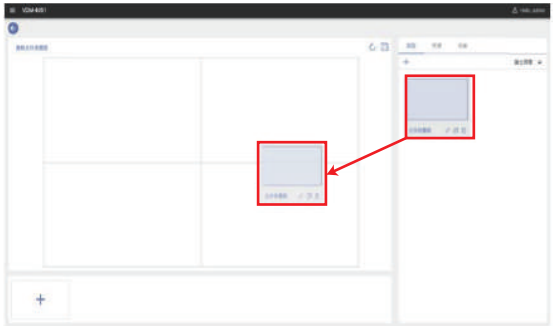
Physical Properties

Dimensions(HWD)	26*215*105 mm (with ear rack)
Weight	26*237*105 mm (without ear rack)

Power Supply

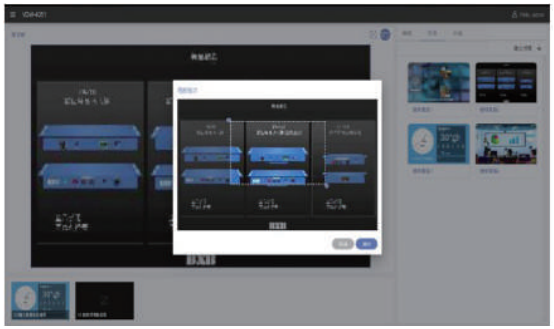
External Power Supply	DC 5V-2A MAX
Voltage/Frequency	110/220V
Total Power	10W
Adapter Weight	0.1KG

VDM-4051 Application Features : Intuitive Web UI Control Interface



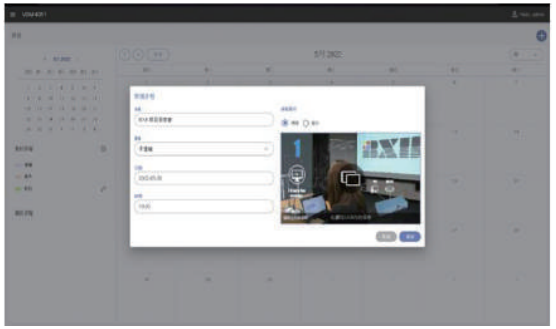
Video Wall Setup

Easily create up to a 6x6 video wall with drag-and-drop source and scene management.



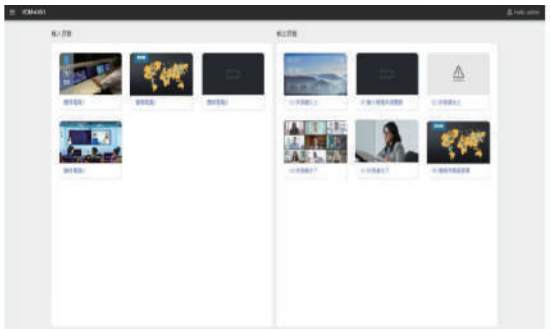
Zoom Functionality

Focus on specific areas with simple-drag-to-zoom.



Scheduling Settings

Set transitions and display timings for automatic activation.



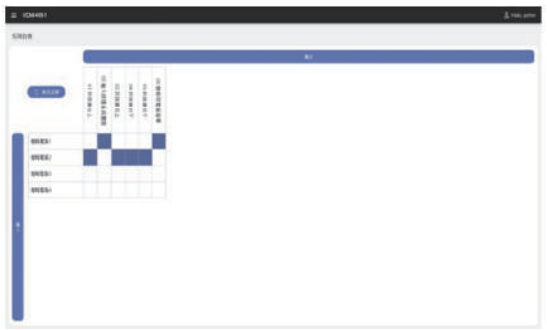
Real-Time Preview

View and adjust transmitter and receiver outputs instantly.



One-Click Projection

Project computer or laptop displays onto the video wall with a single click.



Matrix Switching

Enables quick chessboard-style transitions between screens.

VDM-4010 / VDM-4020 Application Features



VDM-4010 / VDM-4020

4K Over IP Matrix Encoder/Decoder

- Supports HDCP Version 1.4.
- Supports 4K2K@30Hz 4 : 2 : 0 Resolution.
- Standard TCP/IP Architecture : Each node can connect up to a 100-meter transmission distance.
- VDM-4010 Encode r : Outputs HDMI 1.4 audio and separates analog unbalanced 3.5mm audio output.
- VDM-4010 Encoder : Supports VGA and HDMI signal inputs with options to lock a specific input, auto-detect input, or select input via dip switch-
- es.
- VDM-4020 Decode r : Supports Scaler function, offering 10 fixed resolution outputs, ensuring high compatibility with various display devices.-
- VDM-4020 Decoder : Supports image overlay function, allowing picture overlay on the display screen at the receiver.
- Supports USB Signal Transmission Control : Allows transmission for devices such as touch screens, presentation remotes, USB drives, and keyboard/mouse setups.
- Remote TCP/IP Capture : Allows capturing and sending the current playback screen from the transmitter or receiver.
- IR Bidirectional Transmission Function.
- RS232 Bidirectional Transmission Function : Supports command transmission via central control to manage RS232 devices at the transmitter or receiver.

IR Bidirectional Transmission Function.

Product Specifications

Hardware Specifications

HDMI (Type A)	VDM-401: IN x 1 VDM-402: OUT x 1
VGA (D-SUB)	VDM-401: IN x 1, OUT x 1 VDM-402: OUT x 1
Audio	3.5mm OUT x 1, 3.5mm IN x1
LAN	RJ45 x 1
Fiber Uplink	SFP x 1
USB Control	VDM-4010: Type B x 1 VDM-4020: Type A x 4
IR Receiver	LED x 1
IR Control	3.5mm x 1
RS-232 Control	3P Euro terminal
5V Output	2P Euro terminal
3.3V Control	3P Euro terminal
Function Key	VDM-4010: 2P Euro terminal x 2 VDM-4020: 2P Euro terminal, Dip Switch x 1
Power Input	DC 5~19V

Physical Properties

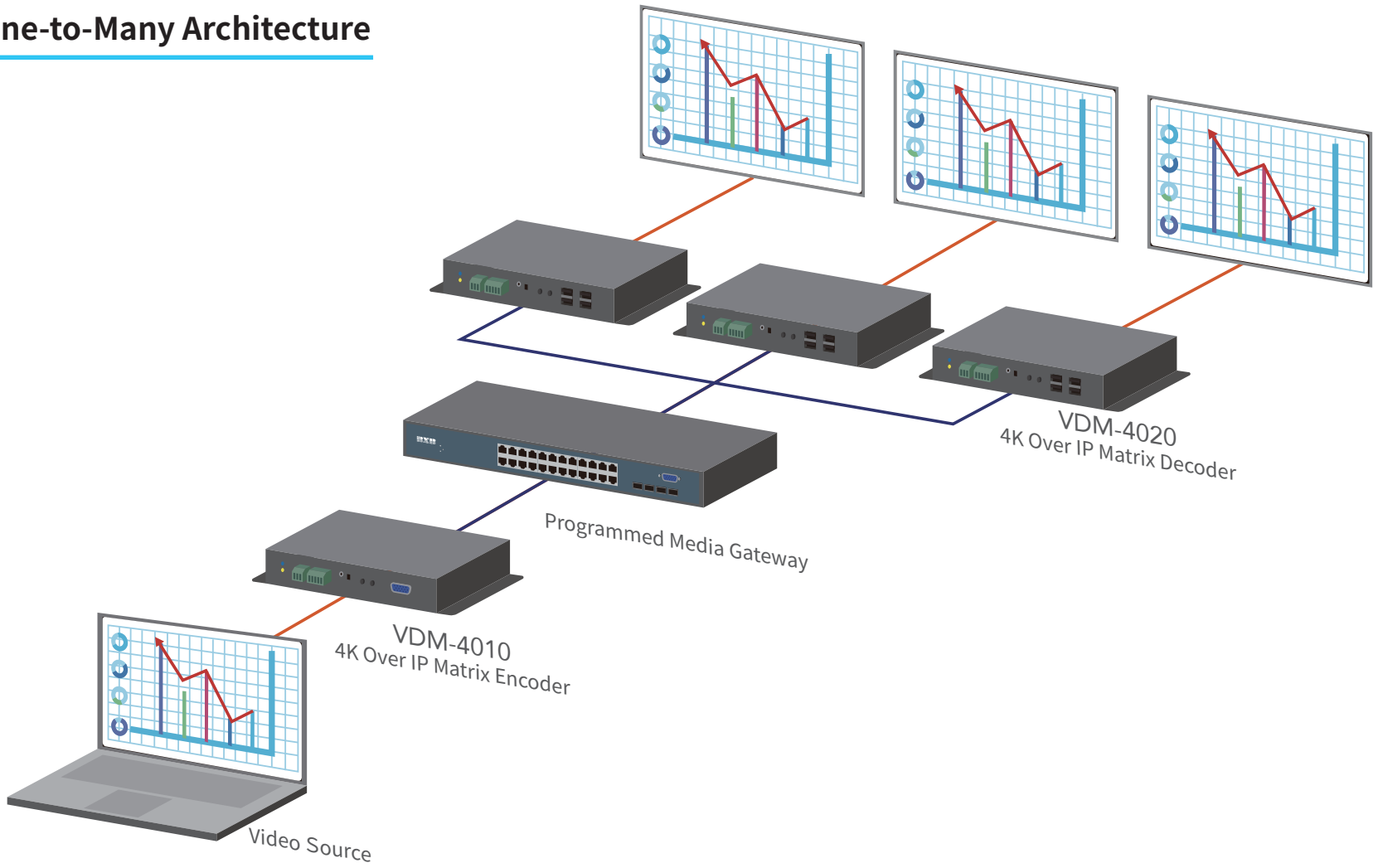
Dimensions (WHD)	4238 x 26 x 108 (mm)
Weight	556.5g
Storage Temperature	–20°C~+60°C
Operation Temperature	0°C~+50°C

Power Supply

External Power Supply	AC 100~240V
Frequency	50~60Hz
Voltage	DC 12V
Max. Power of Transformer	12W

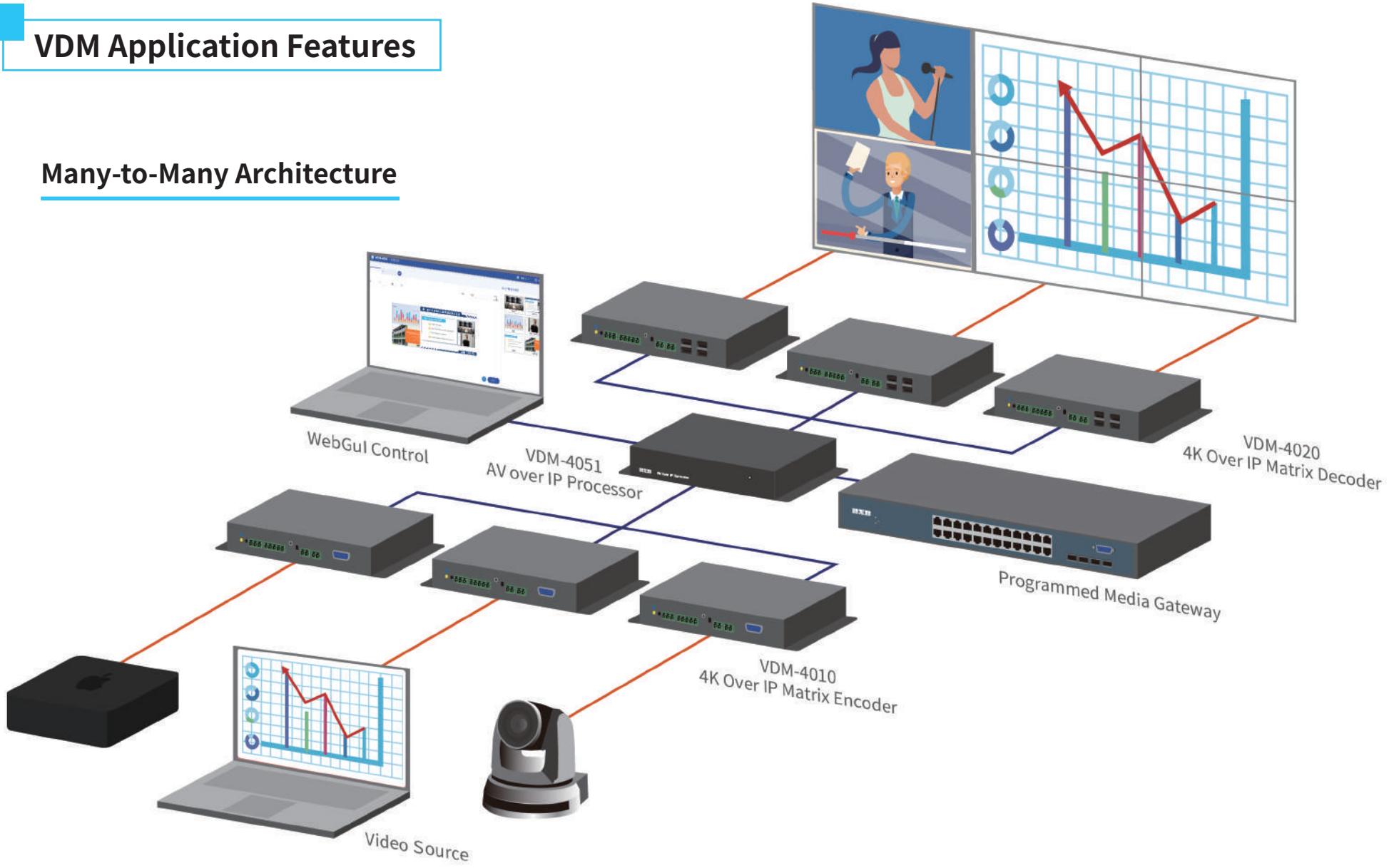
VDM Application Features

One-to-Many Architecture



VDM Application Features

Many-to-Many Architecture



VDM-4024 Application Features



VDM-4024 **Distributed AV over IP Switch**

- Equipped with 24 Port 10/100/1000Mbps Network Ports and Two Independent SFP Ports : Allows for fiber port expansion.
- Capability to Identify Transmitter or Receiver Connected to the Corresponding Network Port.
- Supports Web-Based Operation Settings : Offers language options in Traditional Chinese, Simplified Chinese, Russian, and English, with account and password management for login.
- Capability to Scan and Monitor Online Transmitters and Receivers, Along with Related Equipment and Screens in Real-Time.
- Supports IGMP Snooping, SNMP, LLDP (for viewing nearby devices).
- Supports RTSP Port Status Monitoring.
- Supports One RS-232 Control Port.

Product Specifications

Interface & System Performance

10 / 100 / 1000 Base-T RJ45	24 ports
10G SFP+Slot	2 ports
CLI Management	1 port
RS-232	1 port
Backplane bandwidth	56Gbps

Physical Properties

Dimensions (HWD)	44x440x330mm
Weight	3.31KG
Operating Temperature	0 ~ 50°C
Storage Temperature	-20 ~ 80°C
Relative Humidity	10 ~ 90% (non-condensing)

Layer 2 Features

Flow Control (duplex)	802.3x full & half
IGMP Snooping	IGMP snooping v1/v2/v3: supports 1024 IGMP groups & 1024 static multicast addresses
Storm Control	Broadcast/Multi-cast/Un-known Unicast
Jumbo Frame Support	9.6KB

Power Supply

Internal Power Supply	AC 100~240V AC;50/60Hz
Power Consumption	< 60W

Recommended Companion Products



Distance is No Longer an Issue!

HDBaseT 4K
HDMI + USB Signal Extender

Effortless Remote Control Across Distances

Enables remote IR, USB data, USB, and RS-232 controls, plus device switching, for simplified remote management.

Plug-and-Play Setup

Connect to power and network with an Ethernet cable to start immediately—no software needed.

High-Quality, Long-Distance Image Transfer

Uses HDBaseT technology for clear, uncompressed images at up to 4K@30Hz 4:4:4. Transmits 1080P up to 150 meters and 4K/2K up to 100 meters via CAT6 cables.

Multipurpose Extension Applications

Ideal for extending KVM systems and Blu-ray players.

Recommended Companion Products



HEP-150UT
Transmitter



HEP-150UR
Receiver

- Supports USB 2.0 transmission, connecting devices like 1080p USB cameras, keyboards, mice, flash drives, and multi-touch devices.
- Features RS-232 full-duplex signaling with support for up to 115200 baud rate transmission, plug-and-play without any setup.
- Includes IR remote control capability, allowing remote operation of local devices such as Blu-ray players, MODs, and set-top boxes.
- Supports EDID BYPASS transmission and 3D video formats.
- Backward compatible with DVI VESA standard signals.
- Maximum data transfer rate up to 10.2Gbps (3.40Gbps per channel).
- Maximum pixel clock up to 340MHz.

HEP-150UT Product Specifications

Hardware Specifications

HDMI (Type A)	IN x 1
Audio	N/A
HDBaseT	RJ45 OUT x 1
USB Control	Type B x 1
IR Control	TX 3.5mm x 1
RS-232 Control	3.5mm x 1
N.C. Contact	3.5mm x 1

Physical Properties

Dimensions	10.32 x 10.32 x 24 (cm)
Weight	300g
Storage Temperature	–20°C~+60°C
Operation Temperature	0°C~+50°C

Power Supply

External Power Supply	AC 100~240V
Frequency	50~60Hz
Voltage	DC 5V
Total Power of Power Supply	10W

HEP-150UR Product Specifications

Hardware Specifications

HDMI (Type A)	OUT x 1
Audio	3.5mm OUT x1
	3.5mm IN x1
HDBaseT	RJ45 IN x 1
USB Control	Type A x 4
IR Control	RX 3.5mm x 1
RS-232 Control	3.5mm x 1
N.C. Contact	Button x 1

Physical Properties

Dimensions	10.32 x 10.32 x 24 (cm)
Weight	200g
Storage Temperature	–20°C~+60°C
Operation Temperature	0°C~+50°C

Power Supply

External Power Supply	AC 100~240V
Frequency	50~60Hz
Voltage	DC 5V
Total Power of Power Supply	15W

Successful Application Case

Successful Case- National Sun Yat-sen University, Taiwan



Solution

Utilize Audio-Visual IoT technology in a deskless classroom to foster a multi-directional interactive learning environment.

- Immersive Learning : Transcends traditional one-way teaching by using technology to enhance student engagement.
- Creative Teaching : Breaks free from physical classroom constraints, boosting flexibility for teacher-student interactions.
- Smart Image Tracking : Remote students can clearly view live classroom activities, enabling effective cross-regional teaching.
- Video and Live Streaming Integration : Instantly captures and broadcasts key educational moments.
- Audiovisual Big Data : Shares educational resources across platforms for more efficient knowledge dissemination.
- Comprehensive Environmental Control : Control classroom devices with a single tap on a tablet.

Successful Application Case

Successful Case- Darmaw Construction Co., Ltd.







Solution

The conference room is often the first impression guests have of a company. The decor and digital tools of the Datamo Conference Room perfectly project a professional and reliable image. It features a 4x2 video wall, smart image tracking, paperless meetings, cloud-based video collaboration, wireless projection, and live broadcast streaming. By integrating digital technology, it initiates the path to digital transformation, breaking down barriers in remote communication and successfully creating a deeply impactful "Digital Gateway."

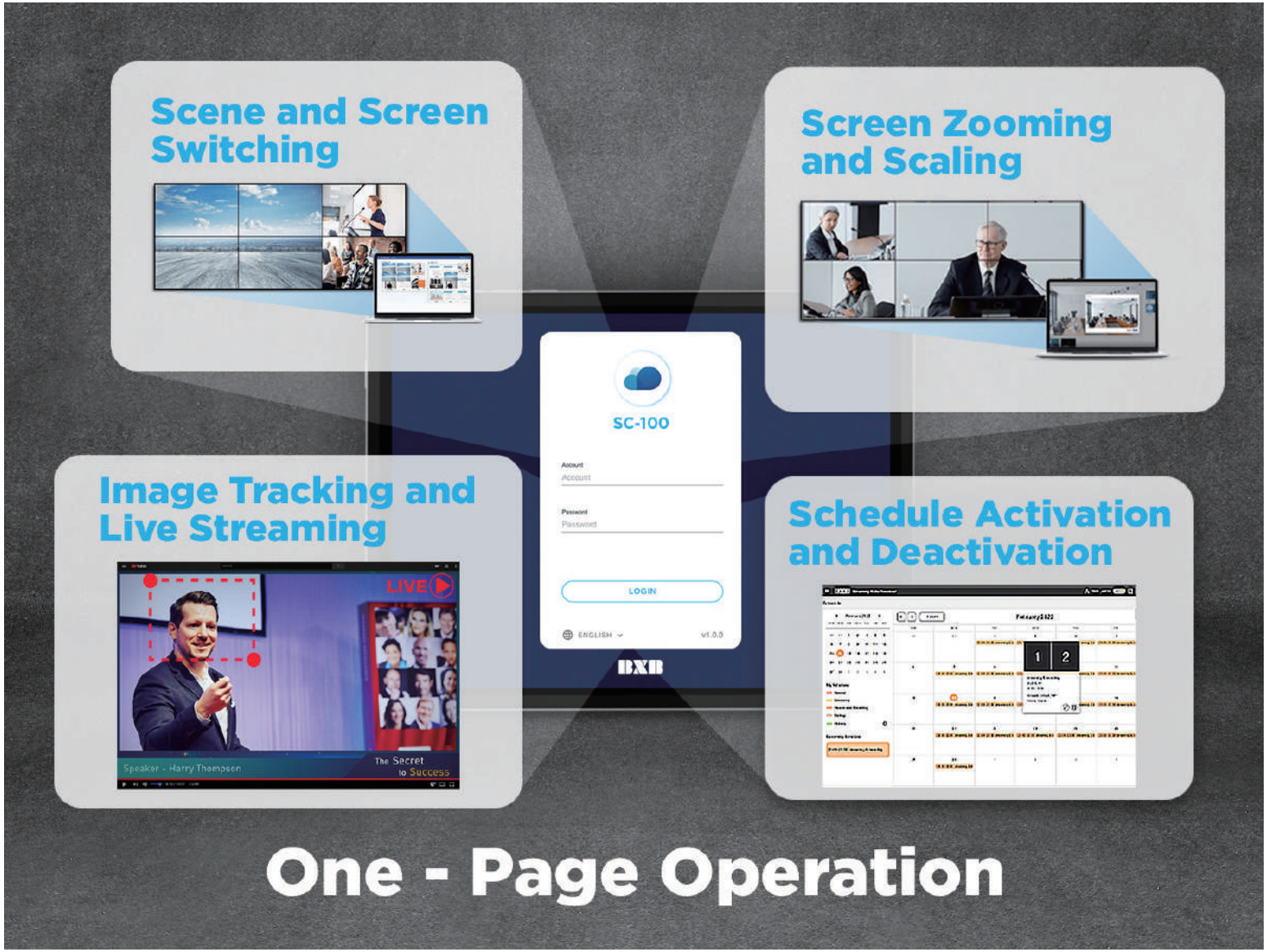
SC-100 Application Features



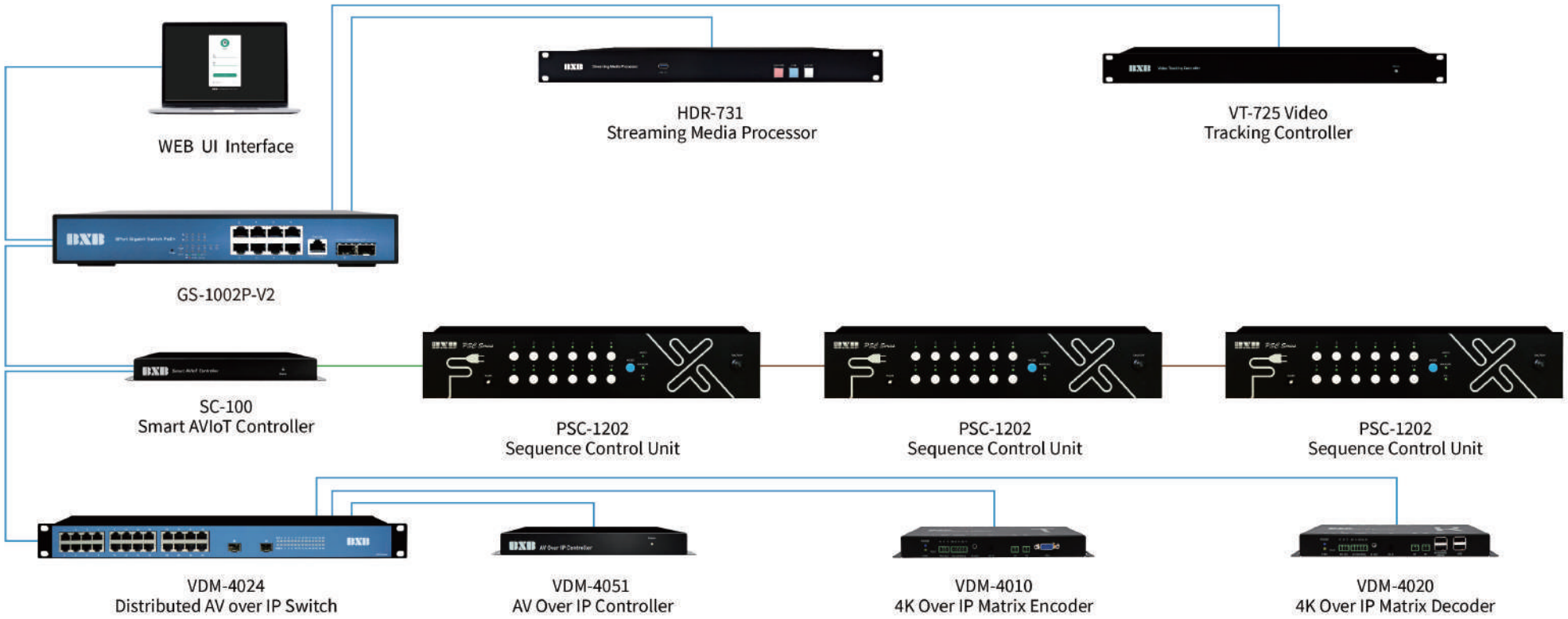
SC-100 Smart AVIoT Controller

- Custom module control : quickly create control modules through the Web, enabling one-page control of all devices and power sources. Real-time management via computer or tabletenhances control convenience, ensuring efficient environmental mastery.
- Time-saving scheduling : connect to BXB AVoverIP Controller to set scenarios, select calendars, and schedule device operations. Simplify daily execution, making environmental control smoother. This also saves more setup time.
- Screen layout control : connect to BXB AVoIP Controller to zoom in or scale specific areas of the projection screen, focusing on essential content. With easy drag-n-drop, you can easily switch image sources and change screen layouts depending on the scenario.
- Ultimate matrix display presentation : connect to distributed matrix devices to quickly switch screens of video wall, set display direction according to the situation. Enhance the visual impact vividly and remarkably.
- Real-time video control : connects seamlessly with the video tracking controller, enabling instant control of PTZ camera tracking, automatically switching back to panoramic or specific views based on the scenario, ensuring efficiency during meetings.
- Live-streaming & image recording : connect to the streaming media processor, allowing live-streaming, recording, layout switch, and screen arrangement through SC-100 UI, enhancing the presentation and digital recording for more comprehensive experience.
- Multi-zone sound playback : connect to the digital matrix mixer , enabling the adjustment ofaudio settings and the ability to save sound scenarios with previously configured setups.
- Seamless power management : connect to the power sequencing controller to execute scheduled/real-time power control.
- Dual network communication design : ensure high security and stability between connected devices, providing a worry-free control experience.

Scenario Applications



SC-100 System Architecture Diagram



Product Specifications

Hardware Specifications

System LAN Port	RJ45 TCP/IP x 1
External LAN Port	RJ45 TCP/IP x 1
Audio Source Signal (Backup)	Euro Terminal 3P x 1
RS-485 Communication (Backup)	Euro Terminal 3P x 1
RS-232 Communication	Euro Terminal 3P x 1
N.O. Trigger Interface (Backup)	Euro Terminal 2P x 2
Status Indicators	LED Lights x 2

Physical Properties

Dimensions	26*215*105 mm (with ear brackets)
(H x W x D)	26*237*105 mm (without ear brackets)
Weight	0.53 kg (without transformer)

Power Supply

External Power Supply	DC 5V-2A MAX
Voltage / Frequency	110/220V
Total Power	10W
Standard Transformer Weight	0.1KG

VT-725 Application Features

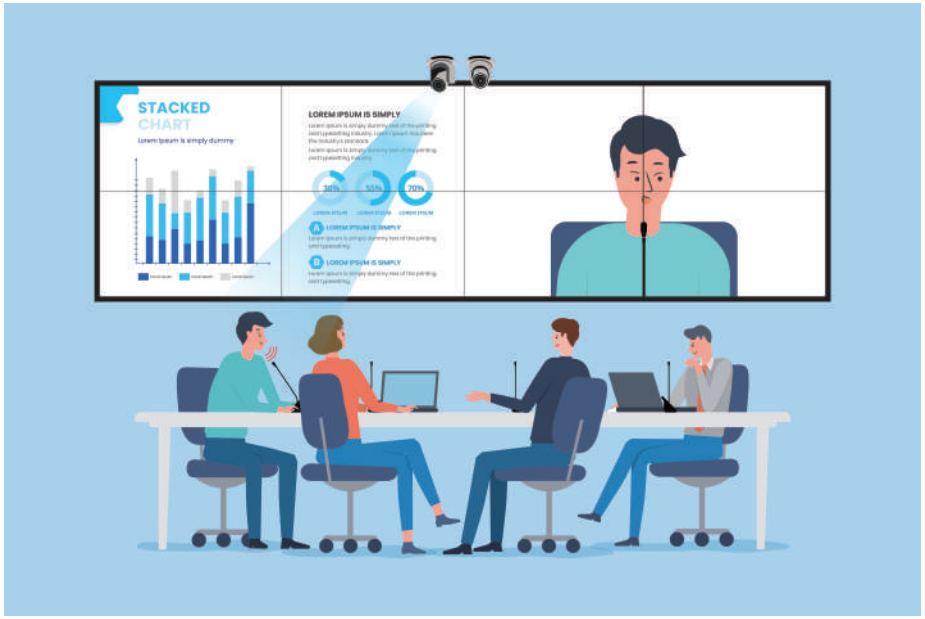


VT-725 Video Tracking Controller

- Easy Control and Setup : Effortlessly configure BXB HAC-701 and UAC-801 cameras, adjusting preset positions, zoom in/out, movement-speed, and other functions.
- AI Automatic Person Tracking : Automatically tracks individuals, switches back to panoramic or specified views when no one is speaking,ensuring the conference remains focused on key content, enhancing meeting efficiency, and reducing communication barriers.
- Unlimited Virtual Positioning Points : No need for microphone linkage; in open seating areas within the venue, an unlimited number of tracking points can be preset, enabling one-click camera activation for recording.
- Support for Up to 1011 Physical Positioning Points : Including 1009 conference microphones and 2 HOME points, catering to venues of various sizes.
- Precise Control of Multiple Cameras : Can control up to 16 cameras simultaneously, facilitating the capture of multiple areas concurrently, which is beneficial for recording meeting content and enhancing participant interaction.
- Automatic Application Scenario Switching : When no one is speaking, the screen can automatically switch back to panoramic or specified views (e.g., chairman's view). If a speaker forgets to turn off their microphone after speaking, the system will automatically switch to the specified view when the last microphone is turned off, avoiding screen occupation, reducing communication barriers, and enhancing meeting efficiency.
- Enhanced Layout with Rich Information : Adjusts the layout based on the video source, adding images, text, and time information to enhance visual information presentation.
- Real-Time Web-Based Remote Control : Easily configure and monitor camera feeds via PC or mobile devices, without the need for additional driver downloads, for convenient operation.
- Seamless Integration with Multiple Interfaces : Connects to various BXB conference hosts via RS-232 and controls cameras via RS-485 connection. Further, network communication via RJ-45 connects to network switches for multi-device integration.
- High-Definition HDMI Output : After image tracking, can output IP camera feeds at 1920*1080 resolution for streaming needs.

Scenario Applications

AI/button-press tracking



Auto switch back to panoramic view

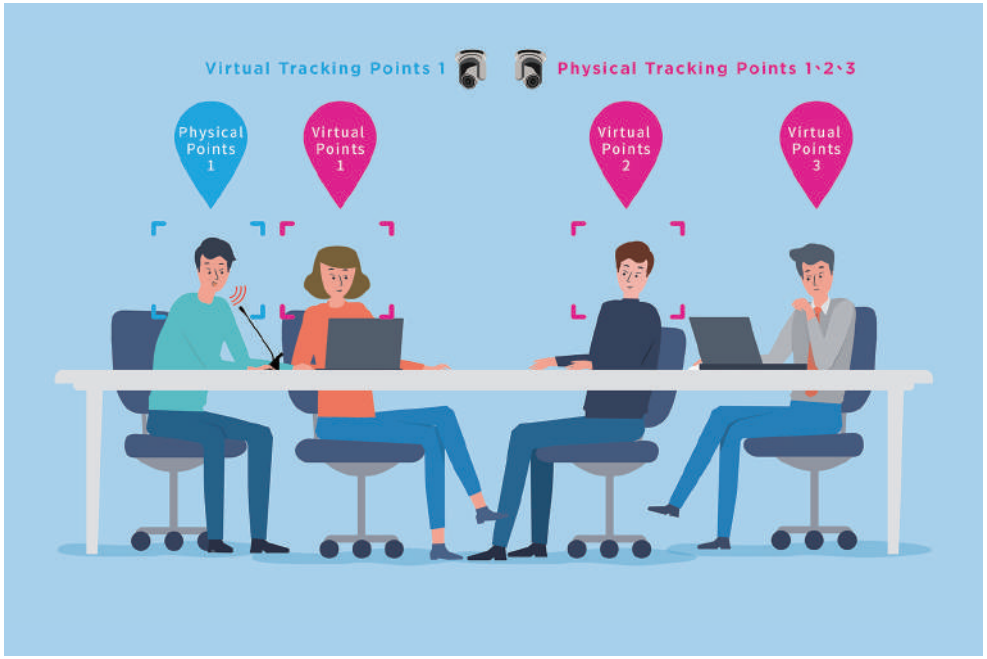


AI tracking or pre-set positioning based on usage scenarios

Automatically switch back to panoramic mode or a specific screen (e.g., chairman’s image) when there is no speaker talking to prevent screen

occupation. Even if the microphone is not turned off after speaking, the system will auto-switch to the specified screen when the last micro-

Scenario Applications



Multiple video tracking points to meet various venue requirements

In open-seating areas within the venue, without the need for conference microphone linkage, an unlimited number of video tracking points can be preset to call up cameras for video recording. It supports up to 1011 physical positioning points, including 1009 conference microphones and 2 HOME points.

Scenario Applications

Without the VT-725 just talk to the person next to you

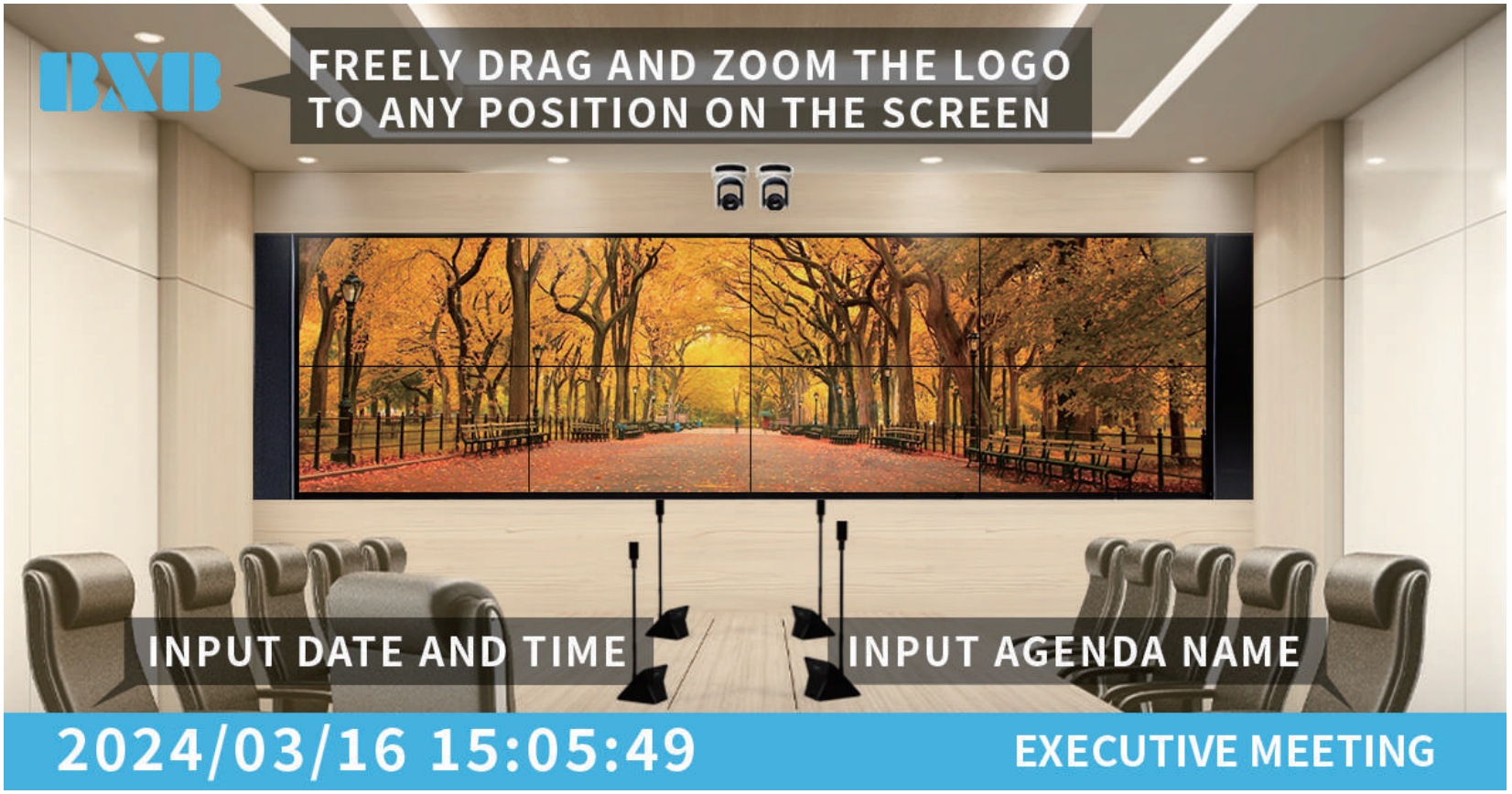


With the VT-725 you can stay centered in the frame even when talking to someone next to you



The VT-725 uses advanced AI to precisely track the speaker’ s movements in all directions, ensuring they're always centered and clearly captured. This enhances the visual presentation and professionalism, providing an immersive experience for remote viewers and increasing interaction. The technology also simplifies video production and editing, delivering an efficient and automated solution for conferences and presentations.

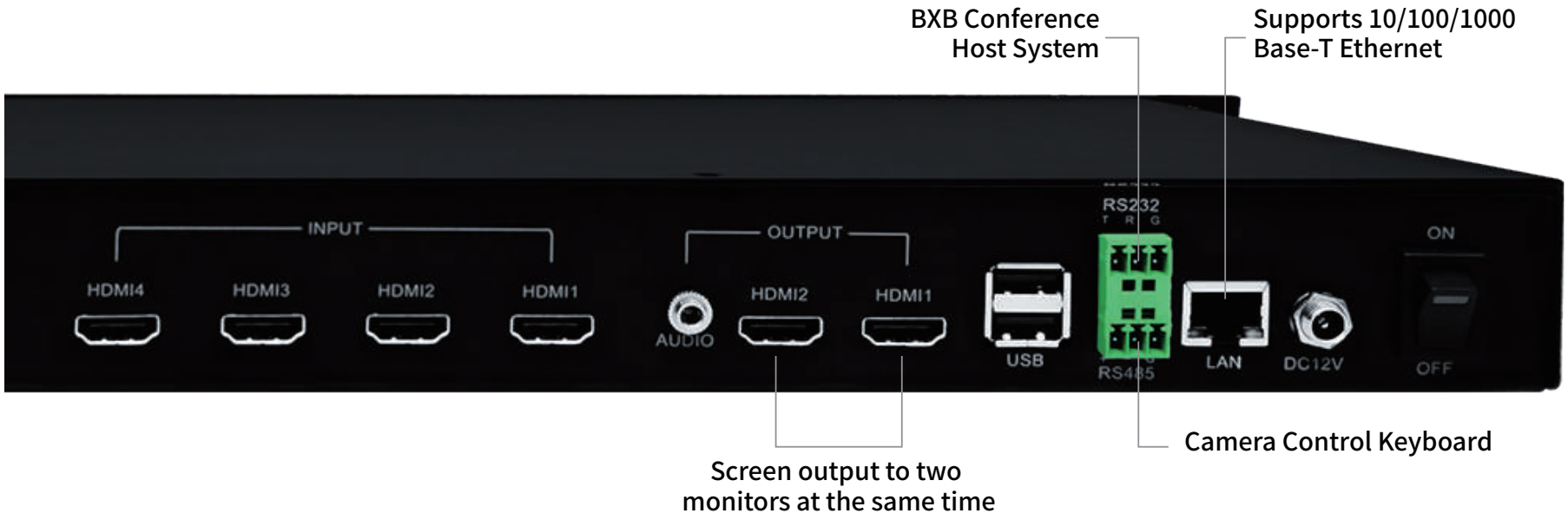
Scenario Applications



Enhanced layout with enriched information, improving visual effects

Adjust the layout according to the image source, add graphics, text, and time information to enhance the presentation of visual information.

Scenario Applications

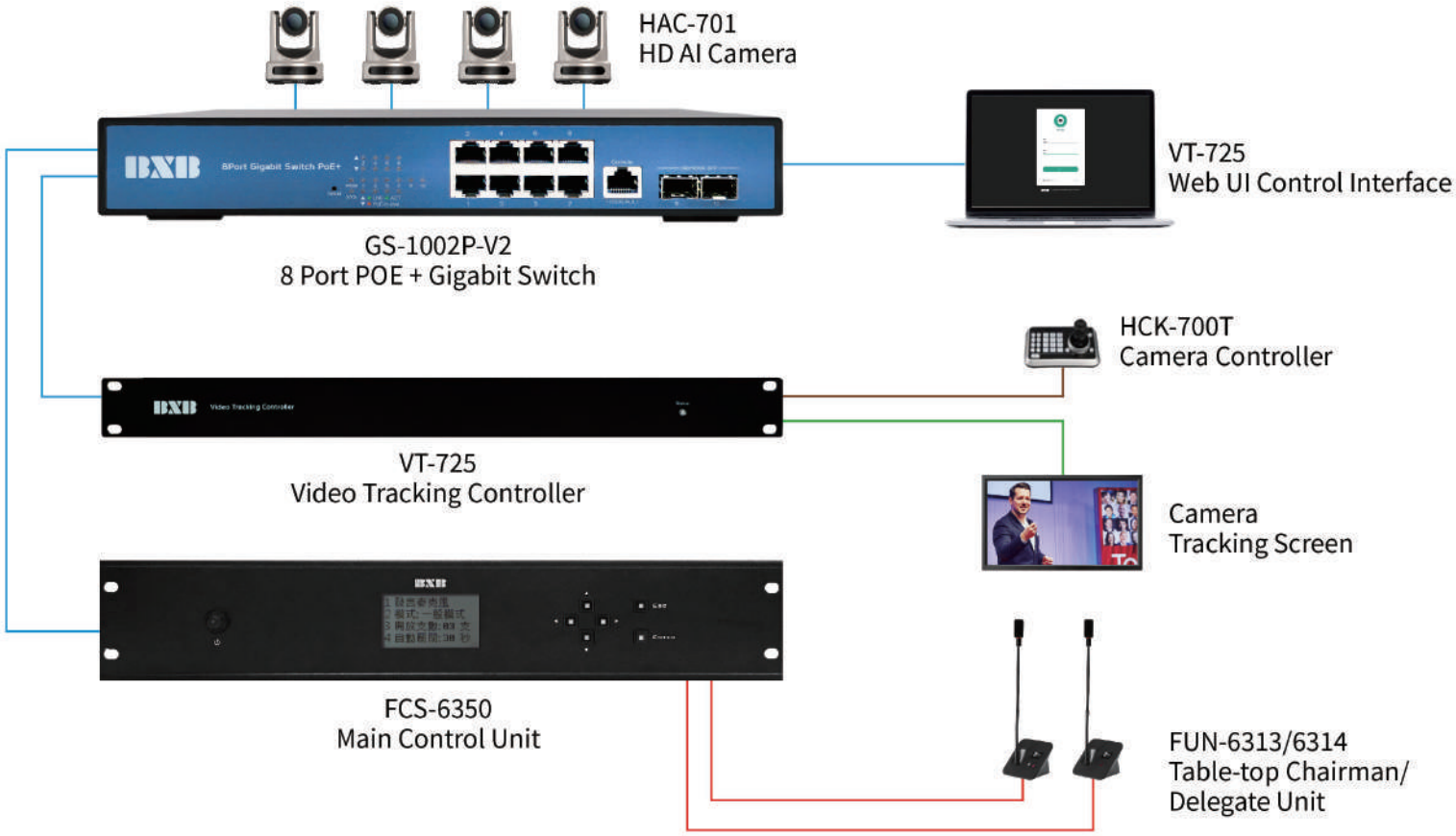


Seamless integration with multiple communication interfaces, dual HDMI output

Supports RS-232, RS-485 communication, and RJ-45 network connection, meeting the needs for multiple devices with stability.

Outputs high-definition conference proceedings, enabling all attendees to instantly grasp on-site information, achieving real-time meeting experiences.

VT-725 System Architecture Diagram



WKVM Application Features



WKVM **Wireless Presentation**

- Compact Sharing: Lightweight, connects up to 8 transmitters and 4 displays for synchronous large screen sharing.
- Cross-Platform Compatibility: Supports iOS, Android, MAC, Windows; one-click projection from mobile devices to large screens.
- Full HD Quality: Delivers sharp Full HD visuals with advanced video processing, ensuring clear images in any lighting.
- One-Click Projection: No software needed, instant screen casting with user control over guest display permissions.
- Plug and Play: Operates without software or drivers, avoiding security and compatibility issues.

Product Specifications

Hardware Specifications

Transmission Protocol	Custom Protocol,AirPlay
WiFi Frequency Band	5G / 2.4G Dual Band
Actual Bandwidth	450MHz
Transmission Distance	>20m@Transmitter
Output Resolution	1024×768、1280×720、1280×800、1920×1080、1920×1200
Connectivity Capability	8 mobile devices or computers
Windows	7 / 8 / 8.1 / 10
Android	Android 5.0 and above
iOS	9.0 and above
Mac OS	10.9 /10.10 / 10.11 / 10.12
Port Interface	Receiver Host HDMI x 1、USB port x 1

Physical Properties

Host (WHD)	80 x 22 x 120 mm (Excluding antenna)
Host Weight	485g
Transmitter(WHD)	60 x 20 x 60 mm (Excluding wires)
Transmitter Weight	77g

DAM-0808 Application Features



DAM-0808 8 x 8 Digital Audio Matrix Processor

- Supports up to 8 fixed analog audio inputs, which can be connected via removable balanced phoenix connectors. Each audio input can be tailored to specific needs by flexibly adjusting the audio source connections.
- DSP capability : 400 MIPS; 1.6 GFLOPS.
- Definable UI for managing all audio channels via web browser. It supports the configuration of max. 20 units and 8 users at the same time.
- Equipped USB port to connect with PC to perform remote meeting and video captruing.
- Supports adaptive echo cancellation (AEC) : switch between three modes - Moderate,Conservative, and Aggressive.
- Supports adaptive feedback control (AFC) : built-in de-reverberation algorithm, auto-gain control, and amplification gain of greater than
- 16dB.
- Built-in automatic noise suppression (ANS) : making the SNR increase 18db.
- Supports AGC : auto-gain control -6dB~+18dB; auto-balance control-12dB~+12dB.
- Equipped functions such as Automatic Mute (Ducker), Automatic Volume Control (ANC), Gain Sharing Automatic Mixing (AM), and Gate Mixer.

  Centralized control via RS-232, RS-485, and UDP : easily connect the third-party equipment such as PTZ cameras.

Product Specifications

Hardware Specifications

Sampling rate	48K/24bit
Input gain	0/10/20/30/40/43dBu
Ouput level	0/-6dB
Phantom power	48V
Frequency Response	20~20KHz ±0.5dB
Max. level	+24dBu
THD + Noise	0.003%@4dBu
Dynamic range	113dB
Background noise (A-weighted)	-90dBu
Common mode rejection ratio @60Hz	80dB
Channel isolation@1KHz	108dB
Input impedance (Balanced)	5.4KΩ
Output impedance (Balanced)	102Ω
System Delay	<3ms

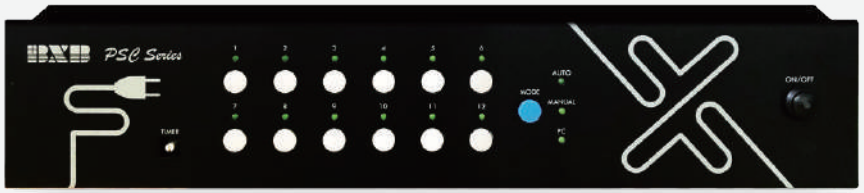
Physical Properties

Dimensions (WDH)	482 x 260 x 45mm
Shipping weight	3Kg
Operating temperature	30°C / 86°F

Power Supply

Working power	AC110~240V 5Hz~60Hz
Max. power consumption	<40W

PSC-1202 Application Features



PSC-1202 **Sequence Control Unit**

- Automatic Sequence Control: Features automated power on/off sequencing.
- RS-485 Link Control: Can control up to 8 devices.
- RS-232 PC Connection: Connects to PCs for integration with BXB graphic control software or other environmental control systems like AMX or Crestron.
- AC Overload Protection: Ensures safer operation with built-in protection.
- Contact Start and Power Trigger Functions: Provides additional operational flexibility.

Product Specifications

Hardware Specifications

Function	16-channel sequential time
Keys	adjustment switch x 1 Manual power selection buttons x 12 Auto/manual mode selection switch x 1
Indicators	Power supply indicators x 12 PC graphic control software connection indicator x 1 Manual start mode indicator x 1 AUTO start mode indicator x 1
Ports	Sequential power control sockets x 12 RS-485 port x 1 RS-232 port x 1 Overload circuit protector x 1 Control identification dial switch x 1 External start dry contact point x 1 Start dry contact point x 1

Physical Properties

Dimension (WHD)	435 x 84 x 225mm

Power Supply

Power Supply	AC 110~240 50-60Hz
Maximum power consumption	<3000W

UAC-801 4K AI Application Features



UAC-801 **4K AI Camera**

- 4K/60fps ultra-clear image : utilizing a 10nm low-power SOC processor platform and a 1/2.5-inch 8.51 million-pixel CMOS sensor chip, delivering stable visuals andcapturing details in presentation slides, classroom whiteboards, and more.
- 12x optical zoom, 16x digital zoom, and an industry-leading 80.8° ultra-wide horizontal field of view, capturing detailed scenes even in large distant areas.
- 3D digital noise reduction : even in low light and backlit conditions, it maintains vivid and distortion-free image performance.
- Equipped with HDMI 2.0, 3G-SDI, USB 3.0, and 1Gbps LAN ports, seamlessly catering to various scenarios like live-streaming, remote teaching, and worship.
- Advanced AI tracking : automatically identifies and follows speakers in real-time, ensuring perfect centering despite external interferences or obstructions.
- 255 preset points : easily capture presenters with pre-configured angles during meetings, allowing both local and remote participants to focus on the speaker.
- Flexible installation : you can place it on a table, mount it on a tripod, or wall-mount it.With a built-in gravity sensor, it automatically detects installation orientation and performs vertical flipping, no need of manual adjustments.
- Intuitive WEB UI : remote control and monitoring via RS-232/485/Ethernet enable easy adjustment of tracking presets, streaming modes, image rotation/mirroring, and more.
- PoE power supply : control, power, video, and audio transmission via a single cable.

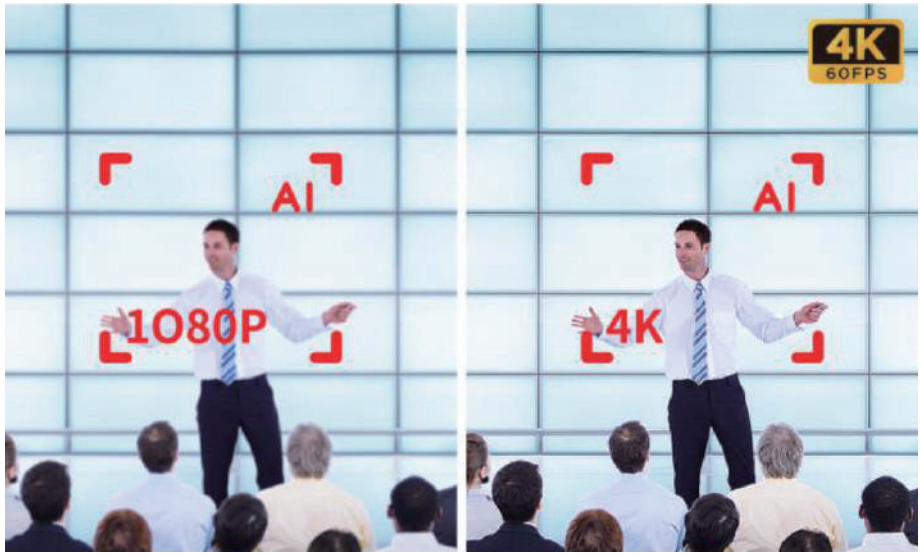
Feature Highlights



Speakers can freely move and speak on stage without worrying about staying in frame.

"AI recognition": precisely track and instantly follow the moving presenter, making him/she consistently positioned at the center of the frame despite external interferences.

Feature Highlights



Ultra HD 4K 60FPS resolution, delivering smooth and clear visuals



Industry-leading 80.8° field of view, capturing large-scale event scenes comprehensively



WEB UI Control

PoE Power Supply

4K 60FPS

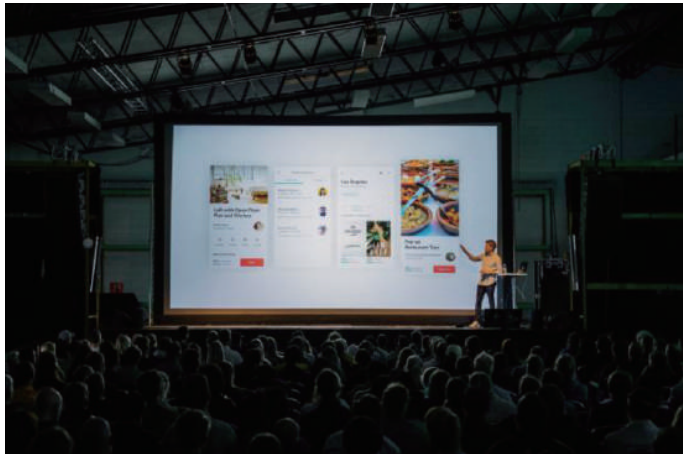
Ceiling Mount & Image Flip

Industry-leading field of view

UAC-801 Scenario Applications



Classroom Lectures



Seminar Meetings



Group Conferences



Religious Events

Product Specifications

Hardware Specifications

Video System	4K:60 / 50 / 30 / 25 1080p:60 / 50 / 30 / 25 1080i:60 / 50 720p:60 / 50
Image Sensor	1/2.5" CMOS; 851K effective
Optical Zoom	12x, f3.47mm~41.65mm, F1.84~F3.72
Digital Zoom	16x
Min. Illumination	0.5Lux@(F1.8, AGC ON)
Shutter	1/30s~1/10000s
White Balance	Auto, indoor, outdoor, one-push, manual, specified color temperature
Backlight	YES
Digital Noise Reduction	3D
Video S/N	≥55dB
Horizontal Angle	80.8° ~ 7.5°
Vertical Angle	48.9° ~ 4.3°
Horizontal Rotation Range	±162.5°
Vertical Rotation Range	-30°~+90°
Pan Speed Range	1.8° ~ 80°/s
Tilt Speed Range	1.5° ~ 49°/s
H&V Flip	YES
Image Freeze	YES
Preset Points	255
Preset Accuracy	0.1°

USB Feature

Operate System	Windows 7/8/10/11、Mac OSX、 Linux (UVC required)
Color System	YUY2/H.264/MJPEG/H.265
Video Format	YUY2: Max 1080P@30fps
Audio on USB	YES
Video Communication Protocol	UVC 1.1, UVC1.5
UVC PTZ control	YES

Product Specifications

IPC Feature

Video Compression	H.264 / H.265/MJPEG
Video Stream	2
Main Stream Resolution	3840x2160/1920x1080/1280x720/1024x576/720x480/720x408/640x480/640x360
Sub Stream Resolution	720x480/720x408/640x480/640x360/480x320/320x240
Video Bit Rate	32Kbps ~ 51200Kbps、CH2: 32kbps~20480kbps)
Bit Rate Type	Variable/Fixed
Frame Rate	50Hz:1fps~50fps, 60Hz: 1fps~60fps
Audio Compression	AAC、G711A
Audio Bit Rate	96Kbps、128Kbps
Support Protocols	TCP/IP, HTTP, RTSP, RTMP, Onvif, DHCP, Multicast, etc.

Input/Output Interface

USB Interface	USB 3.0 x 1 (Type-C)
HD output	HDMI2.0 x 1 / 3G-SDI x 1
Network Interface	RJ45 x 1: 10M/100M/1000M Ethernet, POE supported
Audio Interface	Line In (3.5mm) x 1
Control Interface	RS-232 x 2 / RS-485 x 1

Physical Property

Operating Temperature	0°C ~ 40°C
Storage Temperature	-40°C ~ 60°C
Dimensions	223 x 154.8 x 165 mm
Net Weight	1.8KG
Input Voltage	DC 12V / PoE
Input Current	2.0A
Power Consumption	18W (max.)

HAC-701 HD AI Application Features



HAC-701 **HD AI Camera**

- Full HD 1080p/60fps : utilizing a premium 1/2.8" CMOS sensor and next-gen AIoT edge AI chip, delivering stable visuals and capturing details in presentation slides, classroom whiteboards, displayed products, and more.
- 2D/3D digital noise reduction: even in low light and backlit conditions, it maintains vivid and distortion-free image performance.
- 20x optical zoom with 60.7° horizontal field of view: ideal in large venues for capturing panoramic views of critical scenes.
- Comprehensive video interfaces: equipped with HDMI 1.3, 3G-SDI, USB 3.0, and 1Gbps LAN ports, it seamlessly caters to various scenarios like live-streaming, lectures, remote teaching, eSports, and religious events.
- Advanced AI tracking : automatically identifies and follows speakers in real-time, ensuring perfect centering despite external interferences or obstructions.
- 225 preset points : easily capture presenters with pre-configured angles during meetings, allowing both local and remote participants to focus on the speaker.
- Intuitive WEB UI : remote control and monitoring via RS-232/485/Ethernet enable easy adjustment of tracking presets, streaming modes, image rotation/mirroring, and more.
- PoE power supply : control, power, video, and audio transmission via a single cable.

Feature Highlights



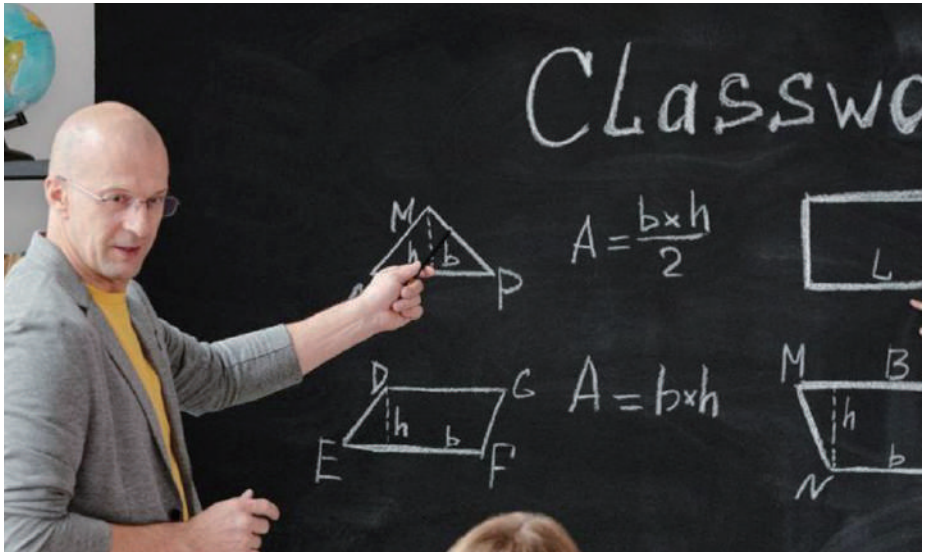
Speakers can freely move and speak on stage without worrying about staying in frame.

"AI recognition": precisely track and instantly follow the moving presenter, making him/she consistently positioned at the center of the frame despite external interferences.

Feature Highlights



The premium auto-focus captures showcasing objects or faces with clear and sharp quality



Up to 20x optical zoom delivers clarity of detailed visuals such as teaching materials



WEB UI Control



PoE Power Supply



4K 60FPS



Ceiling Mount & Image Flip

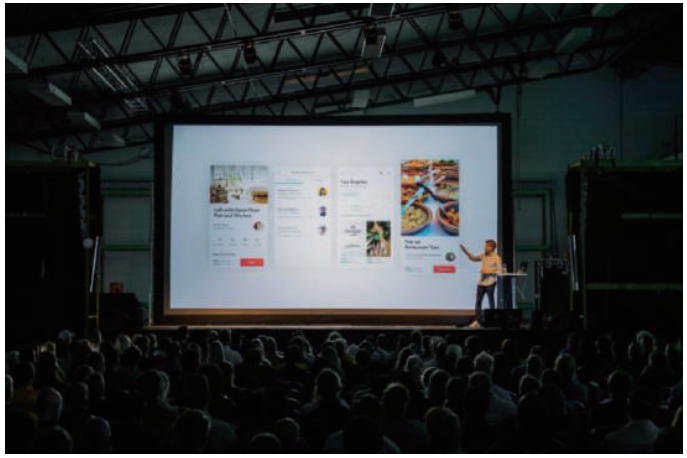


170° High Pan Angles

HAC-701 Scenario Applications



Classroom Lectures



Seminar Meetings



Group Conferences



Religious Events

Product Specifications

Hardware Specifications

Video System	1080p: 60/50/30/25 1080i: 60/50 720p: 60 /50
Image Sensor	1/2.8" CMOS; 207K effective pixels
Optical Zoom	20x, f4.42mm~88.5mm,F1.8~F2.8
Digital Zoom	16x
Min. Illumination	0.5Lux@(F1.8, AGC ON)
Shutter	1/30s~1/10000s
White Balance	Auto, indoor, outdoor, one-push, manual, specified color temperature
Backlight	YES
Digital Noise Reduction	2D&3D
Video S/N	≥55dB
Horizontal Angle	60.7°~3.36°
Vertical Angle	34.1° ~1.89°
Horizontal Rotation	±170°
Vertical Rotation Range	-30° ~ +90°
Pan Speed Range	1.7° ~ 100°/s
Tilt Speed Range	1.7° ~ 69.9°/s
H&V Flip	YES
Image Freeze	YES
Preset Points	255
Preset Accuracy	0.1°

USB Feature

Operate System	Windows 7/8/10/11、Mac OS X、
Color System	Linux (UVC required)
Video Format	YUY2 / H.264 / MJPEG YUY2: Max 1080P@60fps
Audio on USB	YES
Video Communication Protocol	UVC 1.1、UVC1.5
UVC PTZ control	YES

Product Specifications

IPC Feature

Video Compression	H.264 / H.265
Video Stream	2
Main Stream	1920x1080/1280x720/1024x57
Resolution	6/960x540/640x480/640x360
Sub Stream	1280x720/1024x576/720x480/7
Resolution	20x408/640x360/320x240/320x180
Video Bit Rate	32Kbps ~ 102400Kbps
Bit Rate Type	Variable/Fixed
Frame Rate	1fps ~ 60fps
Audio Compression	AAC
Audio Bit Rate	96Kbps、128Kbps、256Kbps
Support Protocols	TCP/IP, HTTP, RTSP, RTMP,
	Onvif, DHCP, Multicast, etc.

Input/Output Interface

USB Interface	USB 3.0 x 1 (Type-A)
HD output	HDMI1.3 x 1/3G-SDI x 1
Network Interface	RJ45 x 10M/100M/1000M
	Ethernet, POE supported
Audio Interface	Line In (3.5mm) x 1/
	Line Out (3.5mm) x 1
Control Interface	RS-232 x 2 / RS-485 x 1

Physical Property

Operating	0°C ~ 40°C
Temperature	
Storage Temperature	-40°C ~ 60°C
Dimensions	169 x 141.5 x 176 mm
Net Weight	1.5KG
Input Voltage	DC 12V / PoE (802.3af)
Input Current	1.0A
Power Consumption	15W (max.)

Founded in 1991, Casiopeia Electronics specializes in integrating Audio-Visual IoT technologies, providing solutions for public broadcasting, conference systems, and streaming video processing. These solutions are extensively applied in smart conferences, smart campuses, and smart offices.

Casiopeia is committed to enhancing its innovation capabilities and becoming a trusted partner for global enterprises. Under the BXB (Best X Best) brand, it markets internationally across more than fifty countries and currently holds the highest market share in Taiwan, boasting sales success stories in over a hundred countries.

Headquarter

Location: Rm. 1, 6F., No.288-5, Xinya Rd.,
Qianzhen Dist., Kaohsiung City 806, Taiwan(R.O.C.)
Tel：+886 7 9703838
Fax：+886 7 9703883

Taipei Showroom

Location: 2F., No. 12, Zhouzi St., Neihu Dist.,
Taipei City 114 , Taiwan (R.O.C.)
Tel： 886 7 9703838
Available for meeting room reservation

To learn more about our solutions, please visit our website or send an email to us.

M bxb@bxb.tw
W www.bxbsystem.com

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