Datasheet

ACS-VCAV-BR | Video Conference AV Bridge



Key features

- Multi-format Inputs: 4×SDI + 2×HDMI + 1×RCA Audio
- Multiple Outputs: 2×HDMI, 1×USB 2.0
- Seamless Switching: 6×1+1 seamless scaler switcher, supports up to 1080p@60Hz
- Stable Output: No jitter, no blank screen, adjustable image freeze (0.5–6s)
- Video Conferencing Ready: Bridges HDMI & audio sources to Zoom, Teams, Skype, etc. via USB
- Flexible Control: RS232, Ethernet, and front panel operation
- Auto-Tracking Support: Works with ACS conference systems

Product Overview

The Macsys ACS-VCAV-BR Video Conference AV Bridge is a high-performance seamless scaler switcher designed for professional AV and conferencing environments. With multiple HDMI, SDI, and audio inputs and dual HDMI + USB outputs, it ensures smooth transitions and stable video delivery at 1080p@60Hz. Its USB bridging capability makes it ideal for integrating conference cameras and audio into platforms such as Zoom, Microsoft Teams, and Skype for Business. With RS232/Ethernet control and auto-tracking compatibility, it is the perfect choice for modern meeting rooms, auditoriums, and live event applications.

Techinical Specification

Featues	Detail
Audio	
Input	1 × RCA (unbalanced line input)
Signal Format	Analog audio input
Processing	Audio embedding into HDMI and USB outputs
Video Inputs (HDMI)	1 × USB 2.0 (Type-A female) Function: AV bridge for Zoom, Teams, Skype, etc.
Quantity	2 × HDMI (HDMI-A connectors)
Standard	HDMI 1.3a, HDCP1.3, DVI1.0
Supported Resolutions	1280×720@50/60Hz; 1920×1080@25/30/50/60Hz
Pixel Bandwidth	165 MHz
Transmission Distance	≤ 35m (professional HDMI cable)
Video Inputs (SDI)	
Quantity	4 × SDI (BNC female connectors)
Formats	SD-SDI (270 Mbps), HD-SDI (1.485 Gbps), 3G-SDI (2.97 Gbps)
Supported Resolutions	1280×720@50/60Hz; 1920×1080@25/30/50/60Hz
Transmission Distance	≤ 100m (certified 3G-SDI cable)
Video Outputs (HDMI)	
Quantity	2 × HDMI (HDMI-A connectors)
Standard	HDMI 1.3a
Supported Resolutions	1280×720@50/60Hz; 1920×1080@25/30/50/60Hz; 1920×1080i@50/60Hz
Pixel Bandwidth	165 MHz
Transmission Distance	≤ 7m (professional HDMI cable)
Video Output (USB)	
Quantity	1 × USB 2.0 (Type-A female)
Function	AV bridge for Zoom, Teams, Skype, etc.
Switching & Processing	
Seamless Switching	6×1+1 scaler switcher
Maximum Output Resolution	1080p@60Hz
Transition Quality	No jitter, no blank screen
Freeze Function	Adjustable 0.5 – 6 seconds (time <0.5s disables freeze)
AV Bridging	HDMI + audio converted to USB for conferencing

Techinical Specification

Featues	Detail
Control Interfaces	
RS232 Control	1 × Female DP9 + 1 × Male DP9
Ethernet Control	1 × RJ45
Front Panel	Direct access control buttons
Compatibility	
Conference Systems	Compatible with ACS & CLASSIC-D series
Camera Auto-Tracking	Supported with conference integration
Mechanical	
Dimensions	483 × 260 × 43.6 mm (1U rack-mount size)
Weight	3 kg
Color	Black
Mounting	Rack-mountable
Power & Environment	
Power Supply	AC 100–240V, 50/60Hz (typical)
Operating Temperature	0°C ~ 40°C
Storage Temperature	–20°C ~ 70°C
Humidity	10% – 90% (non-condensing)
Certifications	CE, RoHS compliance

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