Datasheet

AVBrinX-SC50 | HDMI and RS232 to HDCI Converter



Key features

- Extends HDMI, IR, and RS-232 signals up to 70 meters over a single network cable
- Supports ultra HD resolution up to 4K@30Hz for crystal-clear video output
- Single-ended Power over Cable (POC) supply for flexible installation
- Compliant with HDMI 1.4 and HDCP 2.2 protocols for broad compatibility and secure transmission
- EDID dialing function for optimal display and video compatibility
- Bidirectional RS-232 and IR communication support for full control integration
- Supports multiple color spaces and resolution standards including VESA and HDTV
- On-site transmission effect adjustment for enhanced video quality

Product Overview

The Macsys AVBrinX-SC50 is a professional-grade HDMI and RS232 to HDCI converter, meticulously engineered to deliver seamless, high-definition video signal conversion for advanced video conferencing systems. Designed specifically for POLYCOM Eagle Eye cameras, it provides reliable connectivity between high-definition cameras and hosts through a 60-pin interface. The device supports mutual conversion of HDCI and HDMI signals while simultaneously transmitting RS232 control data, making it ideal for complex conferencing setups involving multiple cameras.

Supporting full HD 1080P@60Hz resolution with superior color fidelity through RGB444, YUV444, YUV422, and x.v extended color standards, the AVBrinX-SC50 ensures crisp, vibrant, and true-to-life visuals for professional video conferencing applications. Its compact and robust design allows easy integration into crowded AV racks or desktop setups, while compatibility with Macsys HDCI network transmission enables smooth multi-device operation. This converter eliminates the challenges of connecting multiple Eagle Eye cameras to a matrix, making it a turnkey solution for high-end collaboration environments.

Technical Specification

Feature	Details
Signal Format	Supports HDCI signal into HDMI & RS232 signal conversion
Protocol	HDMI 1.4 compliant
Input Signal	HDCI
Output Signal	HDMI, RS232
Maximum Resolution	1080P@60Hz
Resolution Compatibility	26 common resolution outputs below 1080P@60Hz (fixed)
Color Space / Standards	RGB444, YUV444, YUV422, x.v extended color gamut standards
RS232 Support	Yes, simultaneous transmission with video signals
Compatibility	HDCI network transmission
Interface	60-pin connection for high-definition camera integration
Conversion Direction	Mutual conversion between HDCI and HDMI signals
Dimensions (W×H×D)	102 × 25 × 79 mm
Design / Build	Compact, professional-grade, durable for AV rack or desktop installation
Certifications	CE, RoHS compliance

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