Datasheet

AVBrinX-SC10 | 4k@30Hz Universal HDMI Signal Converter



Key features

- Universal HDMI signal converter for resolution conversion between different HDMI devices.
- Supports ultra HD 4K@30Hz resolution for high-definition clarity.
- Compatible with RGB444, YUV444, and YUV422 color spaces for flexible color management.
- Fully compliant with EDID, DDC2B, and HDCP standards.
- Plug-and-play functionality for easy installation and operation.
- Offers 26 fixed output resolutions for versatile display compatibility.
- Image scaling adjustable from -10% to +10% for precise sizing.
- Adjustable image parameters including color, brightness, contrast, and sharpness.
- Supports image mirroring for customized visual setups.

Product Overview

The Macsys AVBrinX-SC10 4k@30Hz Universal HDMI Signal Converter is designed to meet the demands of ultra-high-definition system users by seamlessly converting HDMI signal resolutions between various formats. This device boasts support for high color depth processing—including RGB444, YUV444, and YUV422—ensuring vivid and accurate color reproduction. Built with comprehensive compatibility, the converter adheres to EDID, DDC2B, and HDCP standards, providing smooth integration across different AV environments. With features such as plug-and-play operation, 26 selectable fixed resolution outputs, precise image scaling (-10% to +10%), and advanced adjustment controls for color, brightness, contrast, sharpness, and mirroring, the AVBrinX-SC10 is the ultimate solution for flexible HDMI signal management in professional installations.

Technical Specification

Feature	Details
Device Type	1x1 HDMI Universal HDMI Signal Converter
Input Port	1 × HDMI
Output Port	1 × HDMI, 1 × AUDIO
Supported Input Format	HDMI
Supported Output Format	HDMI
Maximum Resolution	4K@30Hz, 3840×2160P
Color Depth Support	RGB444, YUV444, YUV422
Supported Standards	EDID, DDC2B, HDCP
Resolution Output Options	Up to 26 selectable resolutions below 1080P@60Hz output
Image Scaling	-10% to +10% adjustment
Image Processing Features	Image frequency multiplier, equalization, correction, image detection proofreading, image 20-level scaling
Image Adjustment Parameters	Color, brightness, contrast, sharpness, mirroring
Operating Temperature	0°C–50°C
Dimensions (mm)	64 × 24 × 124 (W × H × D)
Weight	760g
Power Supply	DC +12V / 1.25A (external)
Image Mirroring	Supported
Plug & Play	Yes
Certifications	CE, RoHS compliance

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