

# HI5 HD-SDI/SDI To HDMI Video and Audio Converter User Manual



**HDMI**™  
HIGH DEFINITION MULTIMEDIA INTERFACE

**AJA**  
AJA VIDEO SYSTEMS INC

September 4, 2006 P/N 101663-00

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This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense. Changes or modifications not expressly approved by AJA Video can effect emission compliance and could void the user's authority to operate this equipment.

## Contacting Support

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To contact AJA Video for sales or support, use any of the following methods:

443 Crown Point Circle, Grass Valley, CA. 95945 USA

Telephone: 800.251.4224 or 530.274.2048

Fax: 530.274.9442

Web: <http://www.aja.com>

Support Email: [support@aja.com](mailto:support@aja.com)

Sales Email: [sales@aja.com](mailto:sales@aja.com)

When calling for support, have all information at hand prior to calling.

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AJA Video warrants that this product will be free from defects in materials and workmanship for a period of five years from the date of purchase. If a product proves to be defective during this warranty period, AJA Video, at its option, will either repair the defective product without charge for parts and labor, or will provide a replacement in exchange for the defective product.

In order to obtain service under this warranty, you the Customer, must notify AJA Video of the defect before the expiration of the warranty period and make suitable arrangements for the performance of service. The Customer shall be responsible for packaging and shipping the defective product to a designated service center nominated by AJA Video, with shipping charges prepaid. AJA Video shall pay for the return of the product to the Customer if the shipment is to a location within the country in which the AJA Video service center is located. Customer shall be responsible for paying all shipping charges, insurance, duties, taxes, and any other charges for products returned to any other locations.

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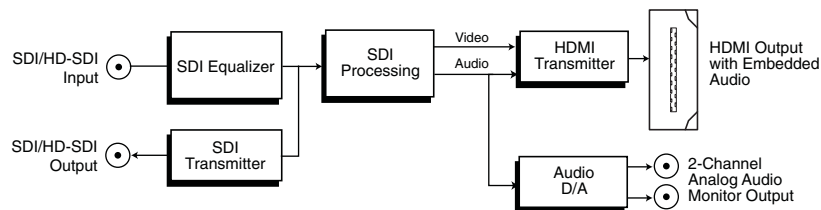
## Introduction

The HI5 converts SDI or HD-SDI to HDMI for driving HDMI monitors. Embedded SDI/HD-SDI audio is supported in the HDMI output allowing a convenient single cable audio/video connection. The HI5 provides 2 Channel RCA style audio outputs for separate audio monitoring if needed. The HI5 also provides a looping SDI/HD-SDI output useful for connecting additional equipment, or for “daisy chaining” multiple monitors to the same SDI-HD-SDI source.

## Features

- SDI/HD-SDI to HDMI
- Full HDMI support including 8 channels of embedded audio
- Additional 2 Channel RCA jack audio output (channels 1 and 2)
- Equalized Looping SDI/HD-SDI output
- HDMI cable supplied
- Uses 5V power (supply sold separately)
- No configuration necessary

## Block Diagram



*HI5 Converter, Simplified Block Diagram*

## I/O Connections



### *HI5 Converter*

## Installation

Typically, HI5 installation consists of the following steps:

1. Ensure the HI5 is disconnected from power.
2. Connect video equipment to the converter BNCs and HDMI connector.
3. Connect audio equipment to RCA connectors (optional)
4. Apply +5VDC power to the converter (AJA power supply model DWP or DWP-U).

## Specifications

Item	Specification
Input Formats	525i, 625i, 720p 50/59.94/60, 1080i 50/59.94/60,
Video Input	HD-SDI/SDI, SMPTE-259/292/296
Outputs	HDMI with embedded audio (8 channels, 24-bit) Audio—2 channel RCA-style outputs at -10dBV (nominal) 1 Looping SDI output of the SDI input (75 ohm, unterminated)
Size	4.6" x 2.4" x 1" (117 x 61 x 25 MM.)
Power (AJA power supply model DWP or DWP-U)	+5 VDC regulated, 3 watts