Touchboards

205 Westwood Ave, Long Branch, NJ 07740
Phone: 866-94 BOARDS (26273) / (732)-222-1511
Fax: (732)-222-7088 | E-mail: sales@touchboards.com

vaddio

EZIM™ HD-SDI SLOT CARD FOR THE HD-18

Vaddio™ EZIM HD-SDI Slot Card for the HD-18 High Definition Pan/Tilt/Zoom Camera
Model Number 998-6900-007

The EZIM (EZCamera™ Interface Module) HD-SDI Slot Card for the Vaddio ClearVIEW™ HD-18 High Definition PTZ camera provides additional professional grade, high quality HD-SDI or SDI digital video outputs and enhanced functionality when used with the Vaddio Quick-Connect™ family of camera controllers.

When inserted into the card slot of the HD-18 camera, the EZIM HD-SDI Slot Card will provide two (2) HD-SDI or SDI outputs in addition to the analog (YPbPr and CVBS) video outputs on the back of the camera, with all signals available simultaneously.

Figure 1:
EZIM HD-SDI
Slot Card

Using only the most advanced and leading edge 3Gb/s single link HD-SDI components available today, the EZIM HD-SDI Slot Card produces remarkable picture quality with video resolutions of up to 1080p/60Hz over a single coax cable. The EZIM HD-SDI Slot Card also features a 36VDC RJ-45 EZCamera connector for powering HD-18 up to a distance of 500' (152.4m) when using the Vaddio Quick-Connect CCU controller.

True to form, the active electronics built-in the Vaddio HD-18, including HSDS™, allows for maximum flexibility in system design and configuration. With concurrent analog (YPbPr & CVBS) and digital (HD-SDI & SDI) outputs available, inexpensive monitoring solutions can be used in conjunction with the broadcast quality digital monitors for a cost effective HD-SDI video solution. The power and control options available allow for the HD-18 to be powered and controlled with different Quick-Connect systems (Quick-Connect CCU, Quick-Connect HD-18 Interface-SR, and the Quick-Connect DVI/HDMI - SR Interface).

Overall, the combination of the EZIM HD-SDI Slot Card and HD-18 PTZ camera with its many available video and control options is a remarkable choice for a wide range of HD-SDI digital video, as well as HD analog video applications.

WHAT'S INCLUDED

- Vaddio EZIM HD-SDI Slot Card
- Documentation

(Note: HD-18 Camera not included)

TECHNICAL FEATURES

Advanced Components

The EZIM HD-SDI Slot Card uses only the most advanced and leading edge components available today. Combined with the HD-18 Camera, the Slot Card produces astounding picture quality and is capable of transmitting a 3Gb/s single link HD-SDI digital video resolutions up to and including 1080p/60Hz over a single coax cable.

SMPTE Video Standards

The EZIM HD-SDI Slot Card 3Gb/s HD-SDI transmitter generates a SMPTE compliant serial digital output with video resolutions including SMPTE 424M, SMPTE 292M, SMPTE 259M-C (please see resolution tables for the Slot Card).
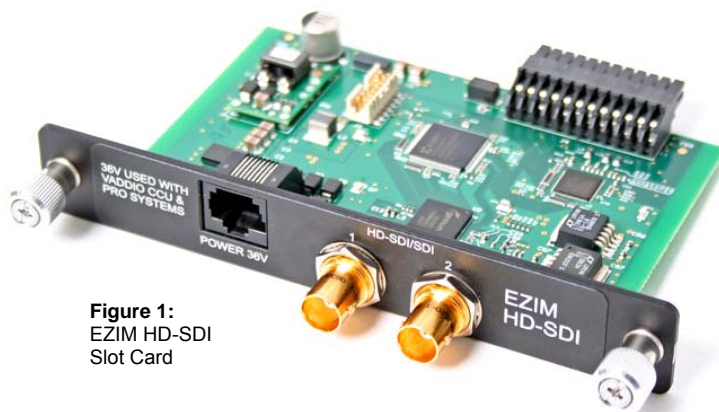
Integrated Design for use with the HD-18

From the earliest product plans for the HD-18, the EZIM HD-SDI Slot Card was designed to be auto-recognized by the HD-18 and process the video signals from the camera to ensure the correct video timings (under the SMPTE standards) and video positioning/sizing.

Simultaneous Analog and Digital Outputs

With the EZIM HD-SDI Slot Card, the HD-18 camera is capable of both Analog (YPbPr - Y/C or CVBS) and Digital video outputs (DVI-D or HDMI with included DVI-D to HDMI adapter cable) to allow the utmost flexibility in system design demanded by today's best integrators.

The Hardware:

The high quality hardware for the EZIM HD-SDI Slot Card includes Captive, Spring Loaded Thumb Screws and 3Gb/s compliant carrier class BNC connectors with Gold Finish Body and Contacts.
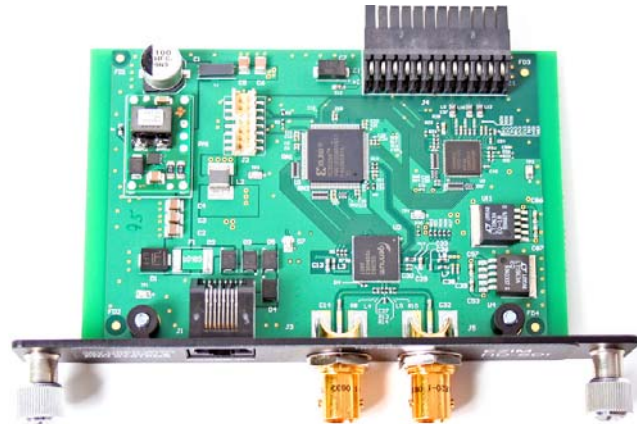
TECHNICAL IMAGES

Figure 2: EZIM HD-SDI Slot Card - Front View

- Two (2) HD-SDI/SDI Outputs on Circuit Board Edge Mount (3Gb/s compliant) Carrier Class BNCs with Gold Finish Body and Contacts
- One (1) RJ-45 Jack 36VDC used to Power HD-18 Camera and Card with the Quick-Connect CCU
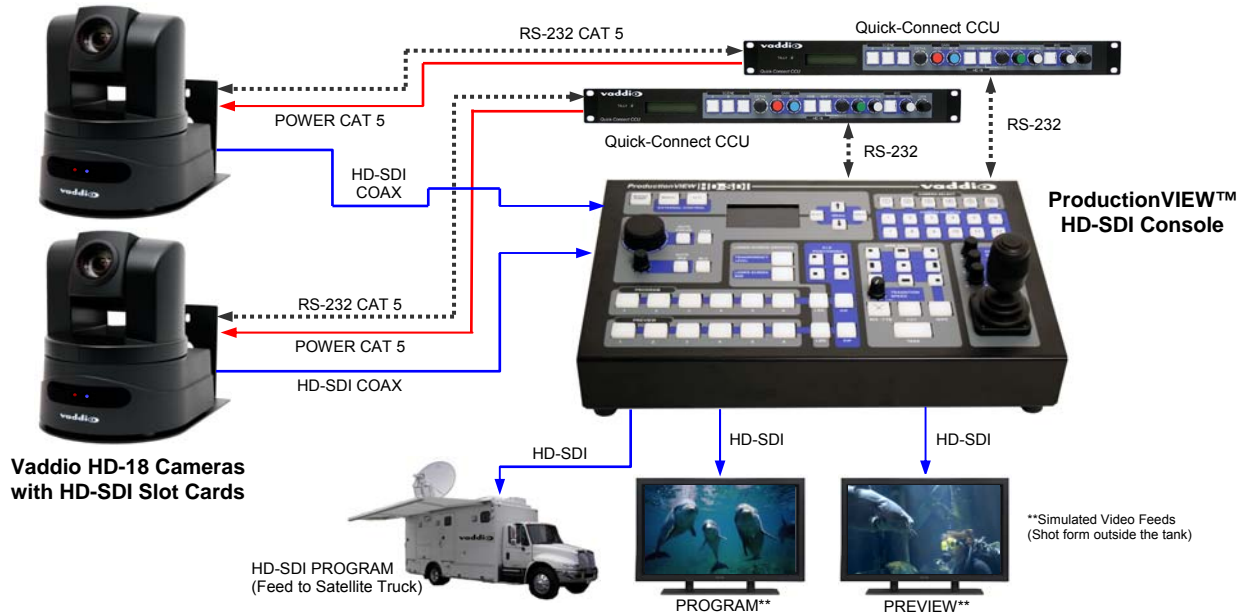- Two (2) Captive, Spring Loaded, Retractable Thumb Screws

Figure 3: EZIM HD-SDI Slot Card - Top View

- 3Gb/s HD-SDI/SDI transmitter, generating a SMPTE 424M, SMPTE 292M, SMPTE 259M-C compliant serial digital output signal with integrated low noise VCO and integrated cable driver.
- 24-Pin Self Guiding Blind Mating Interface Connector
- Power Module provides power to the HD-18 Camera and EZIM HD-SDI Slot Card (depending on the configuration)
- Signal processing for auto recognition of the HD-SDI Slot Card and for auto positioning of the video image

SYSTEM CONFIGURATION

Two (2) HD-18 Cameras with EZIM HD-SDI Slot Cards, Quick Connect CCUs and ProductionVIEW HD-SDI 3Gb/s Seamless Switcher

RS-232 CAT 5

Quick-Connect CCU

POWER CAT 5

HD-SDI COAX

Quick-Connect CCU

RS-232

RS-232

ProductionVIEW™ HD-SDI Console

RS-232 CAT 5

POWER CAT 5

HD-SDI COAX

Vaddio HD-18 Cameras with HD-SDI Slot Cards

HD-SDI

HD-SDI

HD-SDI

HD-SDI PROGRAM (Feed to Satellite Truck)

PROGRAM**

PREVIEW**

**Simulated Video Feeds (Shot form outside the tank)

TECHNICAL SPECIFICATIONS

General Specifications:	HD-SDI Slot Card for HD-18 Camera
Part Number	**998-6900-007 - For use with the Vaddio HD-18 PTZ Camera Only**
HD-SDI Output:	Two (2) HD-SDI/SDI Outputs on Circuit Board Edge Mount (3Gb/s compliant) Carrier Class BNCs with Gold Finish Body and Contacts
Power Jack:	One (1) RJ-45, 36VDC used to Power HD-18 Camera and Slot Card with the Quick-Connect CCU
Slot Card Connection to Camera	One (1) 24-pin Self Guiding Blind Mating Interface Connector Two (2) Captive, Spring Loaded, Retractable Thumb Screws
HD-SDI Transmitter	3Gb/s HD-SDI/SDI transmitter, SMPTE 424M, SMPTE 292M, SMPTE 259M-C compliant Serial Digital Outputs
Dimensions and Weight:	With Connectors and Mounting Plate: 5.875" (149.23mm) W x 4.25" (107.95) D, 0.3lbs (.13607772 kg)
Design & Mfg	Designed & Made in the USA

HD-SDI/SDI Resolution Table and Expected Cable Distances
Using the ProductionVIEW HD-SDI Console and the HD-18 with HD-SDI Slot Card, the expected HD-SDI/SDI cable distances are:

Resolutions:	SMPTE STD	Cable Distances*
720p	SMPTE 292M	Max. Length: 754.543 ft. (230m)
1080i	SMPTE 292M	Max. Length: 754.543 ft. (230m)
1080p**	SMPTE 424M	Max. Length: 459.287 ft. (140m), 1080p/59.94/60/50 - 3Gb/s compliant
480i	SMPTE 259M	Max. Length: 820.179 ft. (250m)
576i	SMPTE 259M	Max. Length: 820.179 ft. (250m)

*Distances are approximate and based on using Belden 1694A coax cable. Results may vary according to the quality of cable used.
**Tested with the 3Gb/s HD-SDI Receivers in the ProductionVIEW HD-SDI Console.