HDV62A/PXIe-HDV62A

1-CH PCI Express®/PXI Express® HDMI Video & Audio Capture Cards



Introduction

The HDV62A/PXIe-HDV62A high definition video and audio capture cards enable single-card acquisition of full analog/digital video and digital audio signals. Featuring uncompressed full HD up to 1080p at 60 fps and 10-bit high-resolution ADC and HDCP support, the HDV62A/PXIe-HDV62A deliver serious benefits and reduced TCO for applications requiring simultaneous capture from both video and audio sources, such as multimedia device testing and medical imaging.

The HDV62A/PXIe-HDV62A not only deliver uncompressed high-definition video data from DVI or HDMI, but also provide an analog video decoder comprehensively supporting RGB, NTSC/PAL, S-video and YPbPr, with an integrated audio decoder for HDMI and S/PDIF capture, providing a highly integrated solution.

HDV62A I/O Bracket (Optional)

- D-SUB9 female for NTSC/PAL and S-Video
- BNC x3 for YPbPr



Features

- **Uncompressed 1920 x 1080p, 60 fps video stream**
- **Support for NTSC/PAL, S-video, RGB and YPbPr video input**
- **Support for HDMI and DVI video input**
- **Support for HDMI, S/PDIF audio input**
- **10-bit high resolution ADC**
- **Support for HDCP (High-Bandwidth Digital Content Protection)**
- **PCI Express® x4 interface**
- **PXI Express® specification Rev. 1.0 compliant (PXIe-HDV62A only)**
- **Configurable EDID**
- **Direct SDK support**

Applications

- **Medical imaging**
- **HDMI video/audio testing**
- **Multimedia device testing**

Software Support

Windows® Platform

- Windows® Vista/XP/7
- Microsoft® DirectX
- NI LabVIEW

ViewCreatorPro™

ViewCreatorPro assists developers in evaluating initial tests and functions.

Ordering Information

- **HDV62A**
  1-CH PCI Express® HDMI video / audio capture card
- **PXIe-HDV62A**
  1-CH PXI Express® HDMI video / audio capture card

Optional Accessories

- **HDV62A I/O bracket**
  YPbPr, S-video and NTSC/PAL I/O
- **DVI – DVI and VGA cable**
  DVI-I to VGA and DVI-D cable
- **DB9F to S-Video & RCA**
  D-sub to S-video and RCA cable

Specifications

Form Factor	HDV62A: PCI Express® x4 compliant
	PXIe-HDV62A: PXI Express® specification Rev. 1.0 compliant
Video Input	Digital: DVI 1.0, HDMI 1.3
	Analog: RGB, YPbPr, NTSC/PAL, S-video
Video Input Format	HD: 720p@50 fps, 720p@60 fps
	1080i@25 fps, 1080i@30 fps
	1080p@25 fps, 1080p@30 fps
	1080p@50 fps, 1080p@60 fps
	SD: 720 x 576@25 fps PAL
	720 x 486@30 fps NTSC
Pixel Output Format	RGB: 32-bit RGB* , 30-bit RGB*, 24-bit RGB
	YUV: 24-bit 4:4:4 YCbCr
	16-bit 4:2:2 YCbCr
	Monochrome: 8-bit Y
Audio Input	S/PDIF, HDMI
Frame Buffer	DDR2, 512 MB
Connectors	DVI: DVI-D, HDMI & RGB with sync input
	D-SUB on I/O Bracket : NTSC/PAL, S-Video (HDV62A only)
	BNC on I/O Bracket: YPbPr (HDV62A only)
	Toslink & RCA: S/PDIF
Operating Environment	Temperature: 0 to 55°C
	Humidity: 5% to 90% RHNC
Storage Environment	Temperature: 0 to 70°C
	Humidity: 0 to 95% RHNC
Power Requirements	+12 V max @ 0.5 A, +3.3 V max @ 2 A
Dimensions (not including connectors)	PCIe version: 174.62 x 111.15 mm (W x L)
	PXIe version: 174.62 x 111.15 mm (W x L)
Slot Requirement	2 peripheral slots (HDV62A w/I/O bracket, PXIe-HDV62A)

*Some computers may experience minor (10% or less) reduction of fps performance when 32-bit or 30-bit RGB output settings are in effect

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