

# HDV62

## I-CH PCI Express® HDMI Video Capture Card



### Introduction

The HDV62 is a PCI Express frame grabber offering uncompressed image acquisition and video streaming in full 1080p HD.

The ADLINK HDV62 provides 1920x1080p resolution, progressive scan, and noise reduction for greater image quality. Equipped with a field programmable gate array (FPGA) and 512 MB memory buffer, the HDV62 offers the ability to stream uncompressed image to the host PC, in addition to color space conversion in real-time via on-board hardware in order to offload repetitive tasks from the host CPU.

Based on the PCI Express x4 form factor, the HDV62 is specifically designed for medical imaging, scientific imaging, and military application system integrators by providing uncompressed video streaming up to 1920x1080p at 60 fps and lossless pixel information for both spatial and frequency domain analysis.



### Features

- Uncompressed 1920 x 1080p, 60 fps video streams
- Supports both digital, and component analog video inputs
- PCI Express® x4 interface
- Hardware color space conversion
- 512 MB of DDR2 SDRAM frame buffer
- Configurable EDID
- 4 TTL digital inputs/outputs and 1 trigger output
- Direct SDK support

### Applications

- Medical imaging
- Scientific imaging
- HDMI video testing
- Multimedia device testing

### Software Support

- Windows® Platform
  - Windows® Vista/XP/7
  - Microsoft® DirectX
- ViewCreatorPro™
  - ViewCreatorPro assists developers in evaluating initial tests and functions.

### Ordering Information

- **HDV62**  
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### Specifications

■ Form Factor	PCI Express® x4 compliant
■ Video Input	Digital: DVI 1.0, HDMI 1.3 (non-HDCP and non-Audio) Analog: RGB, YPbPr
■ 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
■ Frame Buffer	DDR2, 512 MB
■ Digital Input/Output	4 TTL input, 4 TTL output (input with interrupt)
■ Connector	DVI-I: DVI-D and RGB with sync input DSUB9 Female: YPbPr
■ 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	174.62 mm x 111.15 mm (W x L)