

HDV62

HDTV Frame Grabber



NEW



Introduction

The HDV62 is a full high-definition frame grabber that is based on the PCI Express® x4 interface and acquires uncompressed image and video streams from both HD (High Definition) and SD (Standard Definition) video up to a 170 MHz DVI input, in addition to RGB and YPbPr component analog inputs.

ADLINK's HDV62 delivers the superior quality of high definition video to medical imaging, scientific imaging, and military applications. Equipped with an FPGA (Field Programmable Gate Array) and 512 MB memory buffer, the HDV62 provides the ability to stream image of a specified area to the host PC, and real-time hardware color space conversion to offload repetitive tasks from the host CPU.

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

Applications

- Medical imaging
- Scientific imaging
- Military & defense
- Video surveillance
- HD video testing

Software Support

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

Ordering Information

- **HDV62**
I-CH HDTV frame grabber

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 20-bit 4:2:2 YCbCr 16-bit 4:2:2 YCbCr Monochrome: 8/10-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)

1

Software & Utilities

2

DAQ

3

PXI

4

Modular Instruments

5

GPIB & Bus Expansion

6

Motion Control

7

Real-time Distributed I/O

8

PAC

9

Remote I/O

10

Communications

11

Vision

12

Fanless Embedded Computers

13

cPCI & Industrial Computers