Live Frame Capture
from HDMI/DVI at
Full HD resolution

The HDGrabber-DVI is a high performance, High Definition, video capture and overlay card for PCI-104 systems. The HDGrabber-DVI provides a powerful and flexible solution for capturing HDMI/DVI digital video for software analysis and processing or local system display.

The HDGrabber-DVI features an advanced video scalar that reduces the frame rate of the incoming video allowing high frame-rate high resolution sources to be captured without any compression. This powerful solution supports raw video capture at Full HD resolution at 10fps (1920x1080@10Hz) from a 1080p60/1080p30 source. The flexible capture engine also supports lower resolution capture at higher frame rates. The capture engine is configurable under software control.

The HDGrabber-DVI is supported by drivers and example applications for Windows and Linux that use the OS standard DirectShow and V4L interfaces.

Rev A.01
Preliminary Information. Subject to change without notification
HDGrabber-DVI

HDMI/DVI Video Capture Controller for PCI-104

Applications

High performance image capture
Vehicle-based Video Capture
Real-time Situational Awareness
Law Enforcement
Crime Scene Recording
Remote Video Surveillance
Asset Monitoring
Traffic Monitoring and Control
Video Acquisition and Analytics

High performance video capture
Ideal for Surveillance,
Situational awareness
HDGrabber-DVI
HDMI/DVI Video Capture Controller for PCI-104

Features
Live DVI/HDMI video input
Flexible capture resolution and frame rate up to 1080p10
Hardware scaling
Framerate conversion
Efficient PCI DMA cycle operation
Drivers for Windows, Linux
Robust PCI-104 construction
Low Power Operation
PCI/104 Bus Interface
Compliant with PCI Rev 2.1
132MBytes/sec bandwidth at 33.33MHz bus speed
Live video capture to display, memory or disk

Video Input
Digital DVI input (DVI/HDMI)

Video Capture Resolutions
Supports wide range of capture resolutions, including:
- 1080p @ 10fps max
- 720p @ 20fps max
- 480p @ 60fps max
- 1024x768 @ 25fps

Video Scaler offers flexible hardware scaling of input video

Video Capture Formats
YCbCr 4:2:2

Video Processing
Arbitrary sizing, cropping, scaling of input video

System Requirements
x86 PC-Compatible PCI-104 Host Computer
VGA Display (if Video Preview to host is required)

Miscellaneous
Single +5V supply
Operating temp 0˚C to 60˚C
Operating temp –40˚C to +85˚C (extended temp option)
PCI-104 form factor

Software Drivers
Drivers for Windows XP, Linux
Sample video overlay and capture application in C/C++ source code

Ordering Information
HDGrabber-DVI Video Capture and Overlay Controller
(0 to 60˚C)
HDGrabber-DVI-Ext Video Capture and Overlay Controller
(-40˚C to +85˚C)