The nanoGrabber-HD-SDI is a high-performance, high-definition, raw video framegrabber on a single Mini PCI Express card. The nanoGrabber-HD-SDI provides a powerful and flexible solution for capturing HD-SDI digital video for local system display or software analysis and processing. The small form factor of the nanoGrabber-HD-SDI makes it ideal for embedded Situational Awareness systems in the most demanding environment.

The nanoGrabber-HD-SDI supports real-time video capture at up to 1080p30. The flexible capture engine also supports other common HD-SDI resolutions allowing data to be captured from a wide range of sources and sensors. The captured video data can be streamed continuously to system memory or disk for either immediate local display or further processing.

The nanoGrabber-HD-SDI is supported by drivers and example applications for Windows and Linux.
SWaP optimised for demanding applications in the Military, Transportation, Mining, and Energy Industries

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
nanoGrabber-HD-SDI

HD-SDI Video Frame Grabber for Mini PCI Express

Features

Live HD-SDI video input

Flexible capture resolution up to 1080p30/1080i60

Windows DirectShow/DirectDraw support

Linux Video4Linux support

Drivers for Windows, Linux

Compact miniPCI-express form factor

Low Power Operation
Mini PCI Express Bus Interface
  Full height Mini PCI Express card
  Live video capture to display, memory or disk

Video Input
  Digital HD-SDI input

Video Input Resolutions
  Flexible capture at up to 1080p30
  Supports common HD-SDI resolutions including:
  - 720p25, 720p30, 720p50, 720p60
  - 1080p25, 1080p30
  - 1080i50, 1080i60

Video Capture Formats
  YCbCr 4:2:2
  YCbCr 4:2:0

System Requirements
  x86 PC-Compatable with mini PCI Express socket
  PCI VGA Display (if Video Preview to host is required)

Miscellaneous
  Operating temp 0˚C to 60˚C
  Operating temp -40˚C to +85˚C (extended temp option)
  Standard Full Height Mini PCI Express form factor

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

Ordering Information
  nanoGrabber-HD-SDI Video Capture Controller
  (0 to 60˚C)
  nanoGrabber-HD-SDI-EXT Video Capture Controller
  (-40˚C to +85˚C)

Preliminary Information (Rev A.00)
Subject to change without notification