

# ExpressLink DVa

ExpressCard Camera Link digital video framegrabber



## Description

The ExpressLink DVa is a Camera Link interface (ExpressCard 34 or 54) that enables uncompressed image capture for a laptop or notebook computer.

The product provides one MDR26 connector to support one base-mode Camera Link camera.

Images of any resolution are captured and displayed, in real time, via DMA to the host computer; speed, resolution, and buffers limited only by host bandwidth and memory.

An optional Lemo connector can be used for external triggering, IRIG-B timecode input, or both.

Line and frame triggering are supported over camera control lines, while onboard UART provides serial control.

Provided with the product are drivers for supported operating systems, as well as a software development kit that includes C language libraries, examples, utilities, image capture and display GUI, camera configuration files, and Camera Link standard DLL for camera control.

## Features

- Camera Link interface fits in an ExpressCard 34 or 54 slot
- Supports one base-mode camera via one MDR26 connector
- Captures and displays images in real time, via DMA to host computer
- Provides onboard region-of-interest control
- Supports line and frame triggering over camera control lines
- Offers optional timecode input (IRIG-B) for precise timestamping
- Provides data rates up to 190 MB/s, as supported by host

## Applications

Digital imaging field applications using laptop / notebook computers

# Specifications

Product Type	ExpressLink DVa is an ExpressCard Camera Link digital video interface for a laptop or notebook computer.	
Memory	FIFO	Up to several lines of data
Data Rates	Peak / typical	Up to 200 MB/s / 190 MB/s or maximum supported by host
Camera Link Compliance	Mode Pixel clock rate Serial CC1 - CC4 Connectors	Base 20–85 MHz (in increments of 0.25 MHz) Via API or serial DLL (9600 to 115,200 baud) Discretely programmable for steady-state, trigger, and timed pulse MDR26 and optional Lemo
EU Compliance	CE RoHS WEEE	Contact EDT Contact EDT Contact EDT
PCI Express Compliance	PCIe version Direct memory access (DMA) Number of lanes	PCIe 1.1 Yes 1
Laser Safety	Class 1 (for EDT-supplied transceivers; for third-party transceivers, consult the manufacturer's specifications)	
Noise	0 dB	
Connectors	One MDR26 connector One optional 7-pin Lemo ECG.0B.307.CLV (mate to FGG.0B.307.CLAD.56) for external triggering, IRIG-B timecode input, or both	
Triggering	CC lines supported via fiber, or externally via connector (optional 7-pin Lemo – mate to FGG.0B.307.CLAD.56)	
Power	Supply Connector	5 V DC, 1 A 2-pin Switchcraft 712RA
Cabling	Cabling is purchased separately; consult EDT for options. Fiber connection polish	
Physical	Weight Dimensions	15.0 oz. typical (including ExpressCard adapter) 5.00 x 4.00 x 1.25 in. (not including ExpressCard adapter)
Environmental	Temperature  Humidity	Operating 10° to 40° C Non-operating -40° to 60° C Operating 20% to 80%, non-condensing at 40° C Non-operating 95%, non-condensing at 40° C
System and Software-	System must have an ExpressCard 34 or 54 slot. Software is included for Windows, Linux, and Mac OS X; for versions, see <a href="http://www.edt.com">www.edt.com</a> .	

## Ordering Options

- Connectors:
  - 1 Lemo (optional), for external triggering, IRIG-B input, or both

**Bold** is default. **Ask about custom options.**