## Analog / SDI Analog / DVI-D / SDI Camera Link® CoaXPress GigE Vision® IEEE 1394

<table>
<thead>
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<th>Form Factor</th>
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<tr>
<td>Matrox Morphis (e)Dual</td>
<td>Matrox Morphis (e)Quad</td>
<td>Matrox Solios eA/XA</td>
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<td>Matrox Vio</td>
<td>Matrox Orion HD</td>
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<td>Matrox Concord G-series</td>
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### Acquisitions Format
- **standard** analog or color
- **non-standard** analog
- **HD** (720p or 1080i) or **SD**
- **HD** (up to 1080p) or **SD**
- **Base Camera Link® with PoCL**
- **Base Camera Link® with PoCL**
- **Dual or Quad CoaXPress (CXP) with PoCXP**
- **GigE Vision®**
- **IEEE 1394**

### Acquisition Rate
- **square pixel**
- **up to 80 MHz**
- **up to 10 taps** (eV-CLF/CLFL)
- **up to 25 Gbps** using four connections
- **up to 80 MHz**
- **up to 10 taps (eCL-F)**
- **up to 80 MHz**
- **up to 32 MB SRAM**
- **up to 32 MHz SDRAM**
- **up to 32 MHz DDRAM**

### On-board Processing
- **Bayer (2x2 average)**
- **interpolation (eV-CLB/CLBL)**
- **Altera® Stratix® III Processing**
- **FPGA with 110K up to 340K logic elements and 133 MHz operation**
- **Bayer (2x2 average)**
- **color space conversion**

### Memory
- **16 MB**
- **64 MB**
- **128 MB**
- **1 GB**
- **2 GB SDRAM**
- **up to 32 MB SDRAM**
- **up to 64 MB SDRAM**

### Additional Features
- **simultaneous capture from up to two independent video sources**
- **simultaneous capture from up to four independent video sources**
- **incorporate up to 16 video inputs auxiliary digital I/Os (including trigger input)**
- **on-board processing**
- **video synchronization (including trigger input and exposure output)**
- **and auxiliary digital I/Os**
- **pre-licensed for use with MIL IEEE 1394 IIDC driver**
- **pre-configured for optimal GigE Vision® performance**

### Note
- **No support for transcoding (i.e. video output resolution and rate is identical to video input resolution and rate).**
- **SDI supports a maximum acquisition rate of 150 MB/s under continuous use.**
- **10-tap acquisition restricted to 70 MHz maximum.**
- **Via two DVI-I and two SDI inputs, with display disabled.**
- **With model supporting Quad CXP.**

### Comparisons

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*Note: All frame grabbers have pre-licensed options for use with MIL IEEE 1394 IIDC driver.*