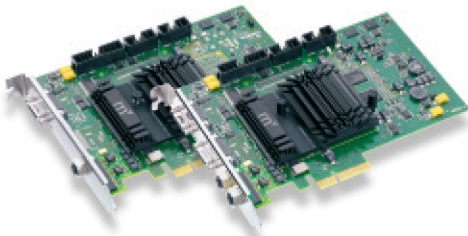


mvHYPERION-Series

Multistandard PCI Express® frame grabbers

Discover
new
Express
Hyperstreams.

www.matrix-vision.de



mvHYPERION-CLx

■ interface for BASE/MEDIUM/FULL CameraLink cameras



mvHYPERION-Series

more and up-to-date infos see ▼

www.matrix-vision.com/mvHYPERION

The mvHYPERION-Series are frame grabbers for the bus system PCI Express®.

The mvHYPERION frame grabber series for PCI

Express® offers image processing with fast cameras using maximum capture bandwidth up to 1 GB/s. Depending on the model type, the frame grabbers

are suitable for high-end machine vision applications with CameraLink cameras as well as broadcasting or surveillance solutions.

Areas of Application	
Area/Application	CLx
Industrial Image Processing	
▶ 2D/3D measurement	■ ■ ■
▶ OCR, Pattern recognition	■ ■ ■
▶ control, robotics	■ ■ ■
▶ visualisation	■ □ □
▶ line camera applications	■ ■ ■
Security	
▶ object surveillance	■ □ □
▶ traffic surveillance	■ □ □
▶ compressed recording	■ □ □
▶ video sensoric	■ □ □
Microscopy/Diagnostic	
▶ light microscopy	■ ■ □
▶ laser scan systems	■ ■ □
▶ electron microscopy	■ ■ □
Medicine	
▶ visual dignostic	■ ■ □
▶ laboratory systems	■ ■ □
Image Capture/Recording	
▶ document line scanner	■ ■ ■
▶ high res area cameras	■ ■ ■
▶ broadcasting	□ □ □

Hardware
▶ DMA controller with bus master feature
▶ diverse data storage formats
▶ EEPROM onboard

Software
▶ Windows® and Linux® drivers, 32 bit/64 bit (mvIMPACT Acquire)
▶ free mvIMPACT Base library

Applications
▶ visualization
▶ microscopy
▶ industrial image processing
▶ medicine

■ ■ ■ optimum usage due to special features ■ ■ very suitable ■ suitable

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Product comparison

Model name	mvHYPERION-CLb	mvHYPERION-CLm
▶ PCI Express®	x1	x4
▶ interfaces	1x BASE	2x BASE, 1x MEDIUM
▶ continuous data rate	approx. 200 MB/s	approx. 620 MB/s
▶ peak data rate	250 MB/s	1 GB/s
▶ payload size	up to 512 Bytes	up to 256 Bytes
▶ max. CL clock	85 MHz	85 MHz
▶ digital I/O	1x 2/1	2x 2/1
▶ MiniCL connectors	1	2

environs information

▶ perm. ambient temp.	0..45 °C	0..45 °C
▶ perm. storage temp.	-20..70 °C	-20..70 °C



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