mvTITAN-Series

Intelligent frame grabbers with processor and memory

Intelligence and High Performance in the next Dimension

www.matrix-vision.de

mvTITAN-C16/2C16

■ 16 input CVBS/YC color frame grabber

mvTITAN-G1

■ Versatile gray scale frame grabber

mvTITAN-RGB/G3

■ Universal color and 3 channel gray scale grabber

mvTITAN-RGB/G4

■ Universal color and 4 channel gray scale grabber

mvTITAN-DIG

■ Flexible digital frame grabber

mvTITAN-CL

■ Interface for one BASE/MEDIUM CameraLink camera

CAMERA Link

mvTITAN-Series

more and up-to-date infos see ▼

www.matrix-vision.com/mvTITAN

The mvTITAN series grabbers are notable for two remarkable components: the high performance image processor and the large local image memory. The image processor relieves the system CPU of time-critical tasks.

The memory separates image transfer from capture and makes local operations possible on several images at once.

Areas of Application

Area/Application	C16/2C16	G1	RGB/G3 RGB/G4	DIG	CL
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/Archiving					
◗ Document line scanner	□□□	□□□	□□□	■■■	■■■
◗ High res area cameras	□□□	■■■	■■■	■■■	■■■

Features

Image Processor

- ◗ image processor PNX 1300 with 3.9 GOPS / PNX 1311 with 4.5 GOPS
- ◗ local memory 8-32 MB for code, program and image data
- ◗ real time color space conversion of Bayer-Mosaic Color data to RGB without host CPU load

Host Interface

- ◗ direct image transfer with color space conversion to display and overlay buffer
- ◗ parallel display and capturing in independent pixel formats
- ◗ local pixel depth per color component 8 to 16 bit, per pixel 8 to 32 bit
- ◗ E2PROM usable for user data

Software

- ◗ drivers for Windows® and Linux®
- ◗ supported by mvIMPACT library

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

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