

Data sheet

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Videolab vision4rail

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# Videolab vision4rail – a complete image processing system for mounting rails

The new mounting rail image processing computer, the „Videolab vision4rail“ from ASENTICS, is a full-fledged image processing system for direct integration into a switch cabinet. Vision4rail perfectly closes the gap both with its performance and with regard to price between intelligent cameras and industrial PC's, fitting seamlessly into the ASENTICS family of products. Vision4rail unifies all aspects of a modern image processing system in a compact and industry-compatible aluminium housing. The software and user interface are identical with the ASENTICS Videolab G7 generation. That lets Vision4rail guarantee a high degree of flexibility, making it ideally suited to future requirements, too.

## Simple integration into a switch cabinet

The compact design, the simple and flexible installation on a mounting rail and the plug-in screw contacts let the system be easily integrated into a switch cabinet. Lockable plug connectors for the two digital cameras reliably prevent the connections from coming loose and provide additional signals for power supplying and controlling light sources. The digital inputs and outputs are opto-decoupled and equipped with indicator lights. On top of that, the system provides plug connectors for two USB 2.0 and one serial interface, Ethernet, VGA plus mouse and keyboard. The externally accessible slot for CompactFlash modules can be used for data transmission, data backup or even to accept the entire operating software, facilitating operation without a hard drive.

## Application areas:

- Surface inspection
- Completeness check
- Dimensional accuracy check
- Presence monitoring
- Position check
- Object detection
- Code reading
- General quality check

## Properties and benefits

- Highly compact design
- Latches into 35 mm mounting rail profile
- Direct integration into the switch cabinet using plug-in terminal strips
- Opto-decouples inputs and outputs with indicator lamps
- Pentium-M processor for very high performance with low power consumption
- Supports digital cameras
- Externally accessible CompactFlash slot for operating software or data
- Operation without hard drive feasible
- Powerful image processing software

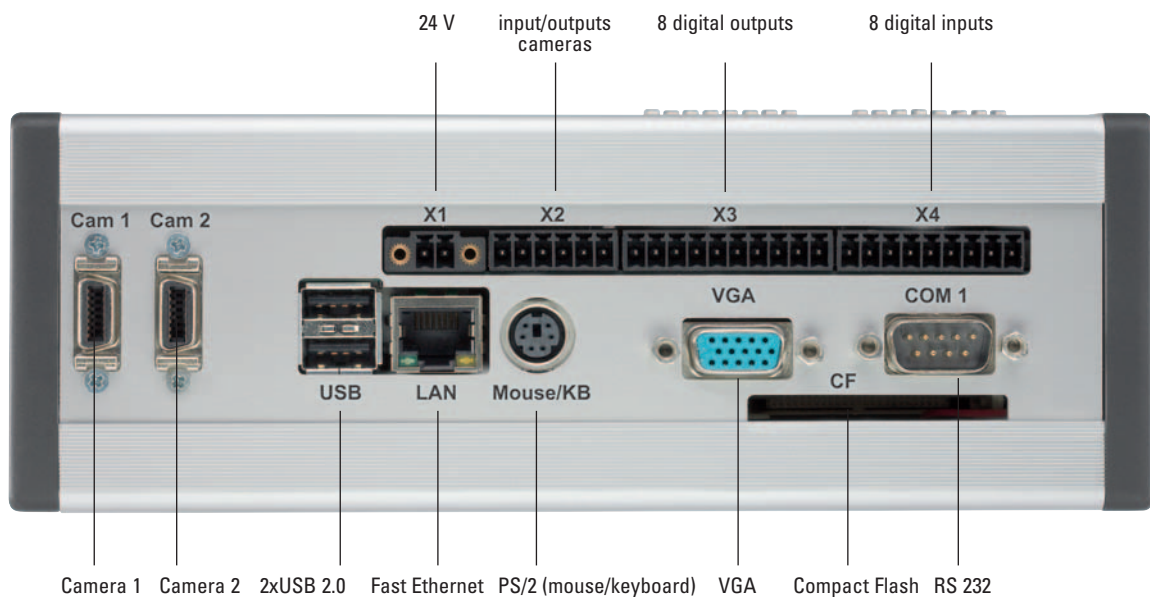


Pulsoft Director - Software Module and Agent Concept

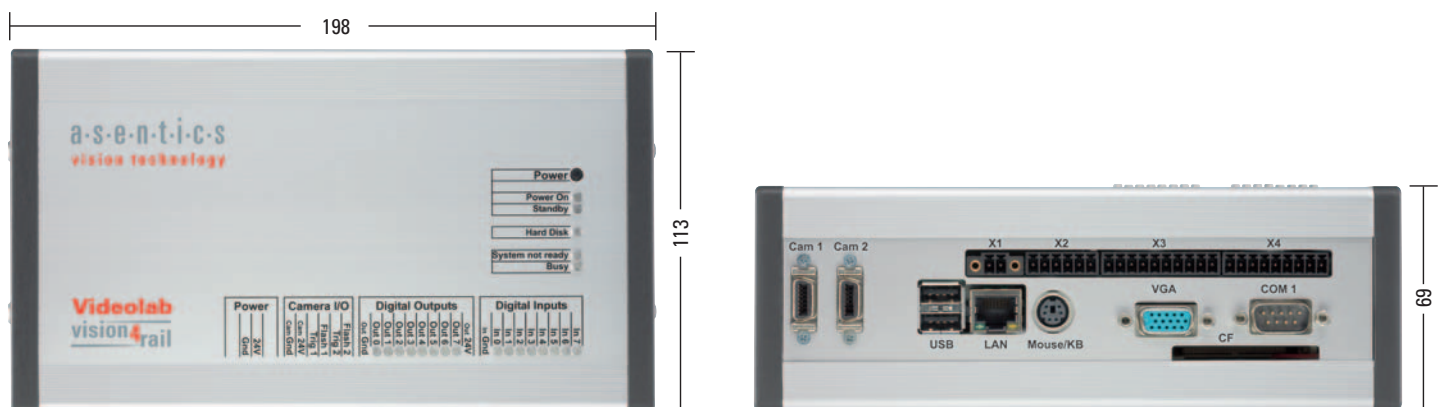


# Technical data

<b>Model</b>	<b>vision4rail</b>
Processor	Intel® Pentium® M Processor 745 (DOZHAN Core) 1.8 GHz, 2 MB L2 Cache
Supply voltage	24 V DC ± 30%
Power consumption	typ. 40 W, max. 62 W
Weight	1.6 kg
Operating temperature	0° ... + 45° C
Storage temperature	-10° ... + 70° C
Humidity	10 ... 90%, non-condensing
Displays	5 operating LEDs (Power on, Standby, Hard Disk, System not ready, Busy), 16 status LEDs for digital inputs and outputs
Operating system	Windows 2000 / XP embedded
Memory	512 MByte to 1GByte RAM, hard drive 2.5 inch 80 GByte, CompactFlash up to 2 GByte
Camera connections	2 lockable connections for digital cameras
Digital inputs and outputs	8 inputs, 24 V, SPS compatible, opto-decoupled; 8 outputs, 24 V, PLC compatible, opto-decoupled One external trigger each per camera, one flash control each per camera
Interfaces	2 x USB 2.0, 1 x RS232 up to 115kbaud, 1 x Fast Ethernet 100 MBit/s, 1 x VGA, 1 x PS/2 mouse and keyboard
Image processing software	Detect, Measure, Verify, Blob, Search, Logic Editor (Special developments on request)
Configuration	Configuration program Pulsoft S10 for Windows preinstalled, also possible via separate computer, Communication via TCP/IP or RS232
Installation	Snap on to 35 mm mounting rail
Housing dimensions (L x W x D)	198 mm x 113 mm x 69 mm



## Dimensions



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