

PIXIE HS *Fast Vision Camera with embedded Power PC*

Your application requires higher framing rates and processing in the camera?

PIXIE HS offers a platform for image acquisition with higher speeds and processing information in the camera.

You want to store image data in the camera?

The optional Compact Flash card interface uses standard components

You need to transfer images and/or data over a long distance?

GigEthernet offers easy embedding in your environment.

Your application is in tough environments?

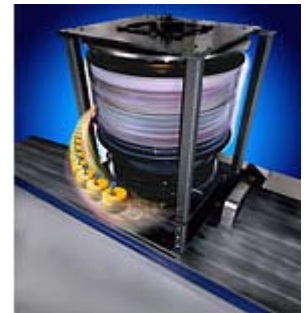
PIXIE HS is ready to use in demanding environments without any compromise

You need digital in- / outputs?

PIXIE HS offers programmable in- and outputs, built in as a standard

Options:

- *built-in rechargeable battery*
- *CompactFlash Memory modules (and other CF+ devices)*
- *Wireless Data IF*
- *JPEG compression on camera*
- *Custom-made accessories and functions*



Your benefits – The PIXIE HS features

- Mega pixel sensor with up to 500 fps full resolution in color or monochrome – See the details in speed
- Embedded Power PC with 444MHz and Linux operation system – Program your application
- Image memory up to 512MB in camera – Store the frames you need
- GigEthernet interface – Long distance data transfer with secure cable lock
- Programmable digital I/O – Take action on the spot out of the camera
- Comprehensive trigger in- and outputs – Do not miss an event

AOS Technologies is manufacturing and marketing top class high speed camera for motion analysis. The PIXIE HS is the first camera in its class offering a unique performance but allows customer to create their own application. Speed up your application where you need it!

Contact us – get results while others try



Imaging for smart decisions

Sensor Type	CMOS high speed sensor
Resolution	640 x 512 (standard mode) 1280 x 1024 (optional, high resolution mode)
Pixel size	12 x 12 um
Dynamic Range	60 dB (10 Bits)
Framing speed	20 to 500fps
Color	Monochrome or color version available (color = Bayer masking)
Image Data Output Formats	Monochrome: Raw: 5 Bit, 8 Bit or 10 bit, scalable Color: Raw 5, 8 or 10 bit scalable JPEG compressed images (optional)
Image Memory size (640 x 512 / 1280 x 1024)	Basic memory: 64MB Ext 1: 128 MB Ext 2: 256MB Ext 2: 512 MB
Extensions (optional)	CF-card reader available Wireless module available
In camera PC	PowerPC 400MHz, 16 Kbyte data cache on chip Power PC RAM: 64MB standard, 128 MB optional
Interface	10 / 100 / 1000 Ethernet auto crossing
Compact Flash Interface	CF+ Interface (optional)
Trigger input	2 x input, configurable by the user
Trigger output	Output to indicate end of image acquisition
Armed	Output to indicate that camera is acquiring frames
Digital I/O	2 x Digital I/O configurable by the user Optional: 4 x Digital I/O configurable by the user
Synchronization	Synch IN / OUT for phase lock function of the camera
Power requirements	9-16 VDC / 8 – 18 Watts depending on mode, configuration
Battery operation	Built in researchable battery for up to 4h autonomous operation (optional). Up to 6h data backup.
Operating system	Linux Kernel 16bits (v2.6.16)
SDK	SDK, Sample programs and code
Lens Mount	C-Mount, back focus adjustable
Dimension	L:125 x w:72 x h: 72mm
Weight	weight: 800g
Temperature Range	0°C - +40°C (extended version available) no active airflow required.
Certifications	CE, FCC (MIL certification is optional)

Your project requires a specific application? Contact us; our engineers are ready to talk with you through your application.

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