

Fastec HiSpec

Innovative Low-Light High-Speed Camera



Fast Facts

- Amazing Light Sensitivity: 2,500 ASA monochrome, 2000 ASA color.
- Outstanding Image Quality: Up to 500 frames per second at 1280x1024 resolution.
- Extremely Fast: Adjustable frame rate up to 112,000 frames per second.
- Well Connected: GigE Vision compatible for easy remote camera control.
- Fits Anywhere: Only 63mm H x 63mm W x 65mm D and .28 kg.

Forget About Bright Lights

Until now, lighting has always been a challenge with high-speed imaging. No more! The unprecedented photo-sensitivity of the HiSpec enables high speed recordings at 1.3 megapixels under normal lighting conditions.

Software-Based Auto-Trigger

Now it's easy to capture those elusive random events. Simply define a "region of interest" in the field of view and let the software trigger take over. Any change in the pre-set image area will stop the recording and save the event sequence. No special hardware or intrusive wiring is required.

Burst Trigger Mode

With the HiSpec's unique Burst Trigger Mode, you can capture hundreds of image sequences in the memory without downloading. Multiple events can easily be recorded over an extended period of time. Users can also partition the memory into 16 unique segments for additional flexibility.

Use it Everywhere

The HiSpec's Gigabit Ethernet interface allows the user to operate multiple cameras from any standard Notebook / PC up to a distance of 100 meters. The HiSpec is designed for easy operation in virtually any industrial or laboratory environment.

See what you've been missing

FASTEC IMAGING™

Fastec HiSpec

Low-Light High-Speed Camera

SPECIFICATIONS

System Design	Modular; scaleable and network-compatible with standard and/or notebook PCs. Synchronous processing of multiple cameras
Sensor	CMOS sensor, 1280 x 1024 pixels, 10-bit monochrome or RGB color with BAYER filter
Pixel Size	14 x 14 μm
Light Sensitivity	2500 ASA monochrome, 2000 ASA color
Spectral Bandwidth	400 - 900 nm
Image Amplification	Digital gain from 1 to 4 steps
Recording Rate	Up to 500 fps at full resolution, up to 112,000 fps at reduced resolution
Memory	2GB
Recording Time	Varies with frame rate and resolution
Shutter	Global electronic shutter from 2 μsec to 1second
Lens Mount	C-mount or F-mount
Frame Storage	BMP or AVI file format
Camera Control Software	HiSpec Director software for Windows 2000/XP/Vista
Camera/PC Interface	1000/100 Ethernet interface (Gigabit Ethernet)
Phase Lock	Multiple cameras can be synchronized to a master camera or to an external source
Trigger	Contact closure, external TTL signal or software trigger
Camera Size	63mm H x 63mm W x 65mm D
Camera Weight	.28 kg. without lens
Operating Environment	+5° to +45°C
Power Supply	10 - 30V DC external power supply
Power Consumption	7.5W maximum

TYPICAL RESOLUTIONS & FRAME RATES

Resolution	Maximum Frame Rate	Recording Time @ Maximum Frame Rate
1280 x 1024	506 fps	3.2 sec.
1280 x 720	718 fps	3.2 sec.
1280 x 640	808 fps	3.2 sec.
1280 x 512	1008 fps	3.2 sec.
1280 x 256	2000 fps	3.3 sec.
768 x 600	1,319 fps	3.5 sec.
624 x 480	1,922 fps	3.7 sec.
480 x 480	2,312 fps	4.0 sec.
288 x 288	5,197 fps	5.0 sec.
144 x 144	13,540 fps	7.6 sec.
144 x 72	24,433 fps	8.5 sec.
144 x 2	112,183 fps	66.4 sec.