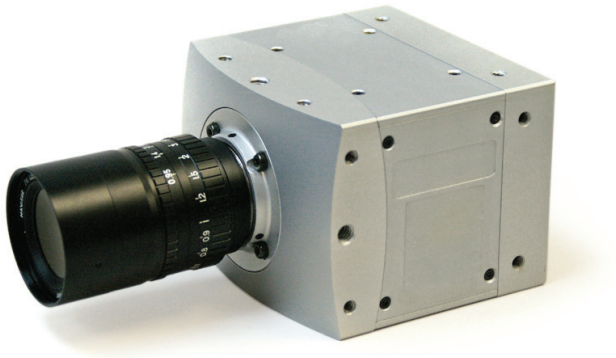
FASTEC IMAGING™

HIGH SPEED IMAGING IN THE PALM OF YOUR HAND

HiSpec 5

3 Megapixel High Resolution High Speed Camera

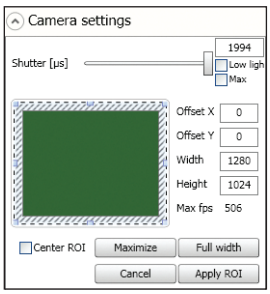


Fast Facts

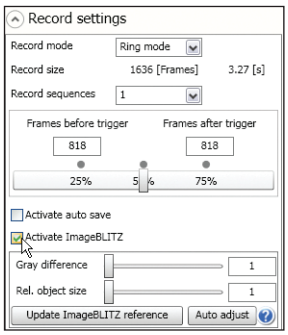
- **Outstanding Image Quality: Up to 523 frames per second at 1696 x 1710 resolution**
- **Extremely Fast:1150 fps at 1280 x 1024 resolution**
- **Well Connected: GiGE compatible for easy remote camera control**
- **Fits Anywhere: : Only 69mm H x 93mm W x 92mm D, C-Mount and .9 kg**
- **GiGE Vision: Industry standard control interface**

GiGE VISION

Easy to use Camera Control Software



ImageBLITZ® Auto Trigger feature based on selectable region of interest



Key Features

- **High Resolution and High Speed** – The HiSpec 5 provides superb quality images with its 1696 x 1710 pixel resolution. And it is a perfect fit for a wide variety of high-speed motion applications with the capability to capture megapixel images at more than 1400 fps.

- **Optional ImageBLITZ® Auto Trigger & Multi-Sequence Mode** – Now it's easy to capture those elusive random events. Simply define a "region of interest" in the field of view and let the ImageBLITZ® 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. And the optional Multi-Sequence Mode allows the recording of multiple events by partitioning the memory into 2, 4, 8 or 16 individual recordings.

- **Optional Hi-G Configuration** - The HiSpec 5 has been certified to 100 "G" accelerations making it the ideal combination of ruggedness with small size. Fits into tight spaces for on-board automotive impact testing, military ordinance testing and other harsh environments. The built-in battery operates in three modes:
  - Ensures fail-safe operation in the event of a power loss
  - Allows "untethered" operation for up to 1 hour
  - Has image retention mode of up to 24 hours

- **Use it Everywhere** – The HiSpec 5'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 5 is designed for easy operation in virtually any industrial or laboratory environment.

See what you've been missing

Fastec HiSpec 5

Camera Specifications

Standard Features

System Design	Scaleable and network-compatible with standard and/or notebook PCs Synchronous processing of multiple cameras
Sensor	CMOS sensor, 1696 x 1710 pixels, 8-bit monochrome or RGB color with BAYER filter. Active pixel area 19.27mm diagonal
Pixel Size	8 x 8 µm
Light Sensitivity	1600 ISO monochrome, 1000 ISO color
Spectral Bandwidth	400 - 900 nm
Record Rate	Up to 523 fps at full resolution, up to 298,851 fps at reduced resolution
Image Memory	4GB. Optional upgrade to 8GB or 16GB
Recording Time	3.2 seconds at full resolution Longer record times with variable resolution and frame rates
Shutter	Global electronic shutter from 2µsec to 1 second in 2µsec steps
Lens Mount	C-Mount or F-Mount
Frame Format	BMP, TIF, DNG, JPG or AVI file format
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 such as optional IRIG-B
Trigger	Contact closure, external TTL signal or software trigger with optional ImageBLITZ® Auto Trigger
Multi-Sequence Record Mode	2, 4, 8 or 16 individual recording partitions (optional)
Camera Size	69mm H x 93mm W x 92mm D with C-Mount 69mm H x 93mm W x 128mm D with F-Mount
Camera Weight	.9 kg. without lens
Operating Environment	+ 5° to + 45°C
Power Supply	10 - 30V DC external power supply
Power Consumption	15W maximum

Software Specifications

Camera Control Software	HiSpec 2 Director software for Windows 7/Vista/XP
Image Amplification	Digital gain from 1 – 4 in 8 steps
Optional SDK	GiGE Vision compatible

Options Available

Memory	8GB or 16GB
Auto Trigger	ImageBLITZ® Software – Auto Trigger
Multi-Sequence Mode	2, 4, 8 or 16 individual recording partitions
IRIG-B	Range timing standard
Hi-G Certified	Certified for shock to 100g for 25ms, vibration to 10g
F-Mount Adapter	Convert from C-Mount lenses to F-Mount lenses
Connector Position	Select from rear or side connector positions
Removable Storage	16GB SD Card (Not available together with 16GB memory configuration)

Sample Frame Rates and Resolutions

		4GB Standard		8GB Option		16GB Option	
Maximum Frame Rate	Resolution	Recording Time @ Maximum Frame Rate	Total Frames	Recording Time @ Maximum Frame Rate	Total Frames	Recording Time @ Maximum Frame Rate	Total Frames
523 fps	1696 x 1710	2.8 sec.	1,480	5.7 sec.	2,960	11.4 sec.	5,920
1,150 fps	1280 x 1024	2.8 sec.	3,277	5.7 sec.	6,555	11.4 sec.	13,110
1,633 fps	1280 x720	2.8 sec.	4,654	5.7 sec.	9,324	11.4 sec.	18,648
1,405 fps	1024 x 1024	2.9 sec.	4,075	5.8 sec.	8,191	11.6 sec.	16,382
4,453 fps	640 x 480	3.1 sec.	13,982	6.3 sec.	27,965	12.6 sec.	55,930
5,001 fps	512 x 512	3.3 sec.	16,403	6.6 sec.	33,007	13.2 sec.	66,014
14,781 fps	320 x 240	3.8 sec.	55,872	7.6 sec.	111,892	15.2 sec.	223,784
298,851 fps	128 x 2	56.1 sec.	16,777,495	114.0 sec.	34,069,014	228.0 sec.	68,138,028

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R1-HiSpec5-04/12