

Fastec 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 frames per second 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 control interface protocol standard. 



High Resolution and High Speed

The HiSpec 5 provides superb quality images with its 1696 x 1710 resolution. And it is a perfect fit for a wide variety of high-speed motion applications with the capability to capture up to 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.

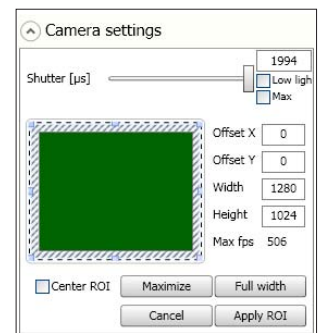
Optional Hi-G Configuration

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 ordnance testing and other harsh environments. The built-in battery operates in three modes:

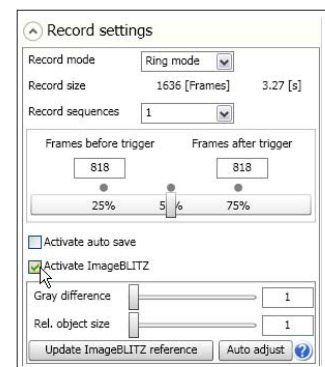
- Ensures fail-safe operation in the event of a power loss
- Allows "untethered" operation for up to 1 hour
- Has image retention mode of up to 24 hours

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.



Easy to use
Camera Control Software



ImageBLITZ® Auto Trigger
feature based on selectable
region of interest

See what you've been missing

Fastec HiSpec 5

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CAMERA SPECIFICATIONS

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 μ m
LIGHT SENSITIVITY	1,600 ISO monochrome, 1,000 ISO color
SPECTRAL BANDWIDTH	400 - 900 nm
RECORDING RATE	Up to 523 fps at full resolution. Up to 298,851 fps at reduced resolution
MEMORY	4GB. Optional upgrade to 8GB
RECORDING TIME	3.2 seconds at full resolution. Longer record times with variable resolution and frame rates
SHUTTER	Global electronic shutter from 2 μ sec to 1 second in 2 μ sec 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 optional ImageBLITZ® Auto Trigger software
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 Director 2 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
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 20ms, vibration to 10g
F-MOUNT ADAPTER	Convert from C-Mount lenses to F-Mount lenses
CONNECTOR POSITION	Select from rear or side connector positions

TYPICAL RESOLUTIONS & FRAME RATES

Maximum Frame Rate	Resolution	4GB STANDARD		8GB OPTION	
		Recording Time @ Max Frame Rate	Total Frames	Recording Time @ Max Frame Rate	Total Frames
523 fps	1696 x 1710	2.8 sec.	1,480	5.7 sec.	2,960
1,150 fps	1280 x 1024	2.8 sec.	3,277	5.7 sec.	6,555
1,633 fps	1280 x 720	2.8 sec.	4,654	5.7 sec.	9,324
1,405 fps	1024 x 1024	2.9 sec.	4,075	5.8 sec.	8,191
4,453 fps	640 x 480	3.1 sec.	13,982	6.3 sec.	27,965
5,001 fps	512 x 512	3.3 sec.	16,403	6.6 sec.	33,007
14,781 fps	320 x 240	3.8 sec.	55,872	7.6 sec.	111,892
298,851 fps	128 x 2	56.1 sec.	16,777,495	114.0 sec.	34,069,014

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