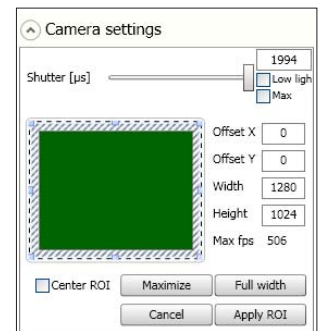# Fastec HiSpec 3

High-Speed Digital Video Camera

Fast Facts

- Outstanding Image Quality: Up to 1,000 frames per second at 1280 x 1024 resolution.
- Extremely Fast: Stepless adjustable frame rate up to 93,000 frames per second.
- Well Connected: GiGE compatible for easy remote camera control.
- Fits Anywhere: Only 69mm H x 93mm W x 92mm D, C-Mount and .9kg.
- GiGE Vision: Industry control interface protocol standard. **GiGE VISION**

Optional ImageBLITZ® 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 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.
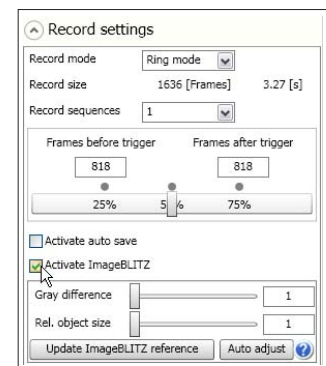
Optional Hi-G Configuration

The HiSpec 3 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 3'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 3 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 IMAGING™

03.10

Fastec HiSpec 3
High-Speed Digital Video Camera

CAMERA SPECIFICATIONS

SYSTEM DESIGN	Scaleable and network-compatible with standard and/or notebook PCs. Synchronous processing of multiple cameras
SENSOR	CMOS sensor, 1280 x 1024 pixels, 8-bit monochrome or RGB color with BAYER filter. Active pixel area 19.7mm diagonal
PIXEL SIZE	12 x 12 µm
POWER CONSUMPTION	15W maximum
SPECTRAL BANDWIDTH	400 - 800 nm
RECORDING RATE	Up to 1,000 fps at full resolution, up to 93,282 fps at reduced resolution
MEMORY	4GB standard. Optional upgrade to 8GB
RECORDING TIME	1.5 seconds at full resolution. Longer record times with variable resolution and frame rates
SHUTTER	Global electronic shutter from 2µsec to 1 second
LENS MOUNT	C-Mount, F-Mount optional
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 93mm 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	10.5 - 24V DC external power supply

SOFTWARE SPECIFICATIONS

CAMERA CONTROL SOFTWARE	HiSpec Director 2 software for Windows 7/Vista/XP
OPTIONAL SDK	GiGE Vision compatible *GiGE VISION*

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 25ms, vibration to 10g
F-MOUNT ADAPTER	Convert from C-Mount lenses to F-Mount lenses
PHOENIX INTERFACE PLUG	Industrial standard Phoenix interface plug

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
1,000 fps	1280 x 1024	1.5 sec.	1,500	3 sec.	3,000
2,000 fps	1280 x 512	1.5 sec.	3,000	3 sec.	6,000
5,000 fps	1280 x 204	1.5 sec.	7,500	3 sec.	15,000
7,000 fps	1280 x 146	1.8 sec.	12,450	3.6 sec.	24,900
10,000 fps	1280 x 102	1.5 sec.	15,000	3 sec.	30,000

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