

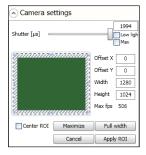
Hispec 2 Innovative Low-Light High-Speed Camera



Fast Facts

- Excellent Light Sensitivity: 3,200 ISO monochrome, 1,600 ISO color
- Outstanding Image Quality: Up to 506 frames per second at 1280 x 1024 resolution
- Extremely Fast: Adjustable frame rate up to 112,000 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 .9 kg.
- GiGE Vision: Industry standard control interface

Easy to use Camera Control Software



ImageBLITZ® Auto Trigger feature based on selectable region of interest

GiG=



Key Features

- Forget About Bright Lights Until now, lighting has sometimes been a challenge with highspeed imaging. No more! The photo-sensitivity of the HiSpec 2 enables high speed recordings at 1.3 megapixels under normal lighting conditions.
- 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 2 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 2'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 2 is designed
 for easy operation in virtually any industrial or laboratory environment.

See what you've been missing

Fastec HiSpec 2

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, 10-bit monochrome or RGB color with BAYER filter

Active pixel area 22.9mm diagonal

Pixel Size 14 x 14 µm

Light Sensitivity 3,200 ISO monochrome, 1,600 ISO color

Spectral Bandwidth 400 - 900 nm

Standard Features

Record Rate Up to 506 fps at full resolution, up to 298,851 fps at reduced resolution

Image Memory 4GB standard. Optional upgrade to 8GB

Recording Time 6.4 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 (ImageBLITZ® Auto Trigger)

Multi-Sequence Record Mode 2, 4, 8 or 16 individual recording partitions

Camera Size 69mm H x 93mm W x 93mm D with C-Mount

63mm H x 93mm W x 128mm D with F-Mount

Camera Weight .9 kg. without lens

Operating Environment $+ 5^{\circ} \text{ to } + 45^{\circ}\text{C}$

Power Supply 10 - 30V DC external power supply

Power Consumption 15W maximum

Software Specifications

Camera Control Software HiSpec 2 Director software for Windows 2000/XP/Vista

Image Amplification Digital gain from 1 to 4 in 8 steps

Optional SDK GiGE Vision compatible **GiG**

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

Sample Frame Rates and Resolutions

		4GB Standard		8GB Option	
Maximum Frame Rate	Resolution	Recording Time @ Maximum Frame Rate	Total Frames	Recording Time @ Maximum Frame Rate	Total Frames
506 fps	1280 x 1024	6.5 sec	3,274	12.9 sec	6,550
718 fps	1280 x 720	6.5 sec	4,656	13.0 sec	9,317
1,008 fps	1280 x 512	6.5 sec	6,548	13.0 sec	13,103
1,319 fps	768 x 600	7.1 sec	9,313	14.1 sec	18,635
2,312 fps	480 x 480	8.1 sec	18,627	16.1 sec	37,271
5,672 fps	320 x 240	9.9 sec	55,879	19.7 sec	111,813
13,540 fps	144 x 144	15.3 sec	206,967	30.6 sec	414,125
112,183 fps	128 x 2	149.4 sec	16,877,450	298.8 sec	33,542,717