

HiSpec 4

3 Megapixel High Resolution
 High Speed Camera



Fast Facts

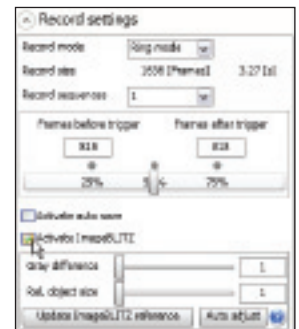
- **Outstanding Image Quality:** Up to 523 frames per second at 1696 x 1710 resolution
- **Extremely Fast:** 1150 fps at 1280 x 1024 resolution
- **Well Connected:** GiGE compatible for easy remote camera control
- **Fits Anywhere:** Only 63mm H x 63mm W x 65mm D and .28 kg.
- **GiGE Vision:** Industry standard control interface



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 4 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** – 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 Multi-Sequence Record Mode** - The Multi-Sequence Record Mode allows the recording of multiple events by partitioning the memory into 2, 4, 8 or 16 individual recordings. And with the HiSpec 4's unique Burst Trigger Mode, you can capture hundreds of separate image sequences in the memory without downloading.
- **Use it Everywhere** – The HiSpec 4'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 4 is designed for easy operation in virtually any industrial or laboratory environment.

See what you've been missing

Fastec HiSpec 4

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 μ m

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

2GB, Optional Upgrade to 4GB

Recording Time

1.5 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

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

63mm H x 63mm W x 65mm D with C-Mount lens.

63mm H x 63mm W x 92.5mm D with F-Mount lens

Camera Weight

.28 kg. without lens

Operating Environment

+5° to +35°C (to +45° with cooling option)

Power Supply

10 - 30V DC external power supply

Power Consumption

7.5W maximum

Software Specifications

Camera Control Software

HiSpec 2 Director software for Windows 7/Vista/XP

Image Amplification

Digital gain 1, 1.5 or 2

Optional SDK

GiGE Vision compatible 

Options Available

Memory

4GB

Sample Frame Rates and Resolutions

Maximum Frame Rate	Resolution	2GB Standard		4GB Option	
		Recording Time @ Maximum Frame Rate	Total Frames	Recording Time @ Maximum Frame Rate	Total Frames
523 fps	1696 x 1710	1.4 sec.	743	2.8 sec.	1,480
1,150 fps	1280 x 1024	1.4 sec.	1,633	2.8 sec.	3,277
1,633 fps	1280 x 720	1.4 sec.	2,335	2.8 sec.	4,654
1,405 fps	1024 x 1024	1.4 sec.	2,051	2.9 sec.	4,075
4,453 fps	640 x 480	1.6 sec.	6,991	3.1 sec.	13,982
5,001 fps	512 x 512	1.6 sec.	8,202	3.3 sec.	16,403
14,781 fps	320 x 240	1.9 sec.	27,936	3.8 sec.	55,872
298,851 fps	128 x 2	28.1 sec.	8,388,746	56.1 sec.	16,777,495