

Fastec HiSpec DVR

Record High Speed Imagery for Hours with No Downloading

Process Monitoring

The HiSpec DVR is ideally suited to high-speed process monitoring applications. With recording speeds up to 500 frames per second at full resolution and optional frame rates exceeding 100,000 frames per second, the HiSpec DVR lets you see what you have been missing with standard video. Unlike traditional high-speed camera systems, the HiSpec DVR can record continuously for hours.



Rapid Recurring Events

Traditional high-speed camera systems can only capture for very short durations - as little as 2 seconds - before the camera memory must be downloaded or saved to a host PC. This process can take several minutes, during which the camera is not recording. This leads to missed events. With the HiSpec DVR, rapidly recurring events are never missed due to downloading. The HiSpec DVR can be set to capture countless short duration events with no downloading necessary.

Key Features

- **High Resolution High Speed Imagery** – The HiSpec DVR records megapixel imagery at over 500 frames per second, providing ultra sharp images. An optional 3 megapixel camera is also available.
- **Portability** – The ultra compact design requires only a laptop PC to control the entire system while our extremely small camera heads can fit into very tight spaces.
- **Flexibility** - The HiSpec DVR offers completely customizable combinations of frame rate, resolutions and recording times to suit your application.
- **Multi Camera Capability** – Each HiSpec DVR can be configured with one or two cameras. The modular design of the system allows for several DVR's to be controlled by one PC, making the system easily expandable to accommodate several cameras.
- **Drive Shuttle** - Our unique removable drive shuttle allows the user to easily add more record time by simply swapping out one shuttle for another in a matter of seconds.
- **Save and Playback While Recording** – The HiSpec DVR offers the user the unique ability to review or save previously recorded clips, while continuing to record all the live action. There is no interruption of the current recording.

Fastec HiSpec DVR

Record High Speed Imagery for Hours With No Downloading

TECHNICAL SPECIFICATIONS

HiSpec DVR 1.3 MAX RESOLUTION	1280 x 1024 resolution at 500 frames per second. Max frame rate of 112,000fps at reduced resolution
HiSpec DVR 3.0 MAX RESOLUTION	1710 x 1696 resolution at 230 frames per second
SHUTTER	Global Electronic shutter from 2 μ sec to 1 second
LIGHT SENSITIVITY	3200 ISO monochrome, 1,600 ISO color
LENS MOUNT	C-Mount or F-Mount
LIVE VIDEO	Displayed on Host PC (notebook or workstation)
REMOVABLE QUAD-PACK DRIVE SHUTTLE	with (4) 2.5" solid state SATA drives
ADDITIONAL STORAGE	Option to double your storage using larger drives, or swapping drive shuttle
CAMERA PC INTERFACE	via 3Gb eSATA
TRIGGER INPUT / OUTPUT	(6) Bi-directional TTL lines, (2) LVDS inputs/outputs
TIME STAMPING	Every recorded frame is time-stamped by hardware time code generator
SYNCHRONIZATION	Time code generator can be synchronized to external IRIG, GPS, or other external clock
RUGGEDIZED	Rugged aluminum enclosure allows the HiSpec DVR to withstand the rigors of use in the field
CONTROL SOFTWARE	Fastec Coreview Software
PORTABLE	Camera – 63mm H x 63mm W x 65mm D and .28 kg. DVR – 320 x 165 x 50mm and 1.4kg
POWER	14 – 30V DC
MODELS	Base and Full camera link models available
MULTI CAMERA OPTION	Modular design allows for easy multi-camera integration

HiSpec DVR Full System



Back



Front



17150 Via Del Campo, Suite 301, San Diego, CA 92127
Tel 858.592.2342 Fax 858.592.2615 www.fastecimaging.com
Specifications subject to change without notice.
ImageBLITZ® is a trademark of Mikrotron GmbH.

FASTEC IMAGING™

Fastec HiSpec DVR

Record High Speed Imagery for Hours With No Downloading

Full Camera Link

HiSpec DVR Full 1.3

1 Full CL DVR and 1 Full CL 1.3MP Camera

TYPICAL RESOLUTIONS & FRAME RATES

CAMERA RATE & RESOLUTION		RECORD TIME (HH:MM:SS)			
Record Rate	Resolution	256GB	512GB	1.0TB	2.0TB
200	1280 x 1024	00:15:46	00:31:56	01:03:53	02:08:00
400	1280 x 1024	00:07:53	00:15:58	00:31:56	01:04:00
500	1280 x 1024	00:06:18	00:12:46	00:25:33	00:51:12
200	800 x 600	00:43:03	01:27:14	02:54:28	05:49:31
400	800 x 600	00:21:31	00:43:37	01:27:14	02:54:45
500	800 x 600	00:17:13	00:34:53	01:09:47	02:19:48
1,000	800 x 600	00:08:36	00:17:26	00:34:53	01:09:54
1,400	800 x 600	00:06:09	00:12:27	00:24:55	00:49:55
200	640 x 480	01:07:17	02:16:18	04:32:37	09:06:08
400	640 x 480	00:33:38	01:08:09	02:16:18	04:33:04
500	640 x 480	00:26:54	00:54:31	01:49:03	03:38:27
1,000	640 x 480	00:13:27	00:27:15	00:54:31	01:49:13

HiSpec DVR Full 3.0

1 Full CL DVR and 1 Full CL 3.0MP Camera

TYPICAL RESOLUTIONS & FRAME RATES

CAMERA RATE & RESOLUTION		RECORD TIME (HH:MM:SS)			
Record Rate	Resolution	256GB	512GB	1.0TB	2.0TB
230	1690 x 1710	00:06:13	00:12:36	00:25:12	00:50:28
320	1600 x 1200	00:06:43	00:13:37	00:27:15	00:54:36
500	1280 x 1024	00:06:18	00:12:46	00:25:33	00:51:12
500	800 x 600	00:17:13	00:34:53	01:09:47	02:19:48
1000	800 x 600	00:08:36	00:17:26	00:34:53	01:09:54
1,400	800 x 600	00:06:09	00:12:27	00:24:55	00:49:55
500	640 x 480	00:26:54	00:54:31	01:49:03	03:38:27
1,000	640 x 480	00:13:27	00:27:15	00:54:31	01:49:13
2,000	640 x 480	00:06:43	00:13:37	00:27:15	00:54:36

17150 Via Del Campo, Suite 301, San Diego, CA 92127
Tel 858.592.2342 Fax 858.592.2615 www.fastecimaging.com

Specifications subject to change without notice.
ImageBLITZ® is a trademark of Mikrotron GmbH.



Fastec HiSpec DVR

Record High Speed Imagery for Hours With No Downloading

Base Camera Link

HiSpec DVR Base 1.3

1 Base CL DVR and 1 Base CL 1.3MP Camera

TYPICAL RESOLUTIONS & FRAME RATES

CAMERA RATE & RESOLUTION		RECORD TIME (HH:MM:SS)			
Record Rate	Resolution	256GB	512GB	1.0TB	2.0TB
110	1280 x 1024	00:28:40	00:29:17	00:58:38	01:57:21
200	800 x 600	00:43:03	00:43:59	01:28:04	02:56:15
274	800 x 600	00:31:25	00:32:06	01:04:17	02:08:39
300	640 x 480	00:44:51	00:45:49	01:31:45	03:03:35
400	640 x 480	00:33:38	00:34:22	01:08:48	02:17:41

Dual Camera HiSpec DVR System

HiSpec DVR Base 1.3

1 Base CL DVR and 2 Base CL 1.3MP Camera

TYPICAL RESOLUTIONS & FRAME RATES

CAMERA RATE & RESOLUTION		RECORD TIME (HH:MM:SS)			
Record Rate	Resolution	256GB	512GB	1.0TB	2.0TB
110	1280 x 1024	00:14:20	00:29:17	00:58:38	01:57:21
274	800 x 600	00:15:42	00:32:06	01:04:17	02:08:39
200	640 x 480	00:33:38	01:08:44	02:17:37	04:35:23
400	640 x 480	00:16:49	00:34:22	01:08:48	02:17:41

17150 Via Del Campo, Suite 301, San Diego, CA 92127
Tel 858.592.2342 Fax 858.592.2615 www.fastecimaging.com

Specifications subject to change without notice.
ImageBLITZ® is a trademark of Mikrotron GmbH.

