

ONE MILLION FRAMES PER SECOND CAN'T BE WRONG



High Speed, High Resolution.

iX Cameras i-SPEED 7 Series* (716, 720 & 726)

Bullet-stopping speed & groundbreaking resolution – 2048 x 1536 pixels.

Experience the Invisible.™

Contact us for more information or to schedule a demo today.

HADLAND
IMAGING

West Coast

1414 Soquel Ave, Suite 200
Santa Cruz, CA 95062
USA
phone: 1-408-203-2727
www.hadlandimaging.com

East Coast

10 Park Place, Suite 507
Butler, NJ 07405
USA
phone: 1-862-228-2185

iX Cameras

For more information

Call **1-888-43HADLAND** (1-888-434-2352) or email, sales@hadlandimaging.com about
ultra high-speed imaging solutions. iX Cameras on the web: www.ix-cameras.com

**R versions with heavy-duty rugged environmental enclosures available.*



i-SPEED 7 Series Cameras with CDUE Touchscreen

Choose from the Instrumentation package or the High-G rated Rugged package with its environment resistant casing, machined from a single piece of solid aluminum with a specialized 7-point board contact support.

PC or Tablet functionality

With its large, 8.4" high-resolution LCD Touch Screen monitor, the iX Cameras CDUE gives the user an intuitive, compact and easy-to-operate system. Change settings, frame rate and shutter speed, then record and instantly view the action at any speed. Measure distance, velocity and angular displacement on playback. Save only what you need to optimize download speeds and file size.

Key Features

i-SPEED 716 High-Speed Camera

Speed/Resolution	5,315 fps @ 2048 x 1536
1080p Resolution	7,960 fps
Max Frame Rate	500,000 fps
Memory	36 / 72 / 96 / 144 / 192 / 288 GB
Sensor	Color / Mono
ISO	Mono 5,000 / 40,000 Color 1,800 / 14,400

i-SPEED 720 High-Speed Camera

Speed/Resolution	6,642 fps @ 2048 x 1536
1080p Resolution	9,942 fps
Max Frame Rate	750,000 fps
Memory	72 / 96 / 144 / 192 / 288 GB
Sensor	Color / Mono
ISO	Mono 5,000 / 40,000 Color 1,800 / 14,400

i-SPEED 726 High-Speed Camera

Speed/Resolution	8,512 fps @ 2048 x 1536
1080p Resolution	12,742 fps
Max Frame Rate	1 million fps
Memory	96 / 144 / 192 / 288 GB
Sensor	Color / Mono
ISO	Mono 5,000 / 40,000 Color 1,800 / 14,400

*R versions with heavy-duty rugged environmental enclosures available.

iX Cameras i-SPEED 7 Series*

Bullet-stopping speed & groundbreaking resolution – 2048 x 1536 pixels.

High Speed, High Resolution – Ready for Action.

It's a level of performance that captures more than movement. It captures the imagination. From the innovators of Olympus high-speed camera technology comes our bullet-stopping i-SPEED 7 Series, groundbreaking in its recording capacity, 400 times faster than standard 1080p HD rates. Discover a powerful, high-end line of cameras packed with value and suited for a wide range of applications. There's only one way to capture the fastest events in the world. That's with the highest resolution, fastest camera ever built.

i-SPEED 726 Tech Specs

specs vary between models

IMAGER

Sensor type	Custom CMOS
Sensor resolution	2048 x 1536 pixels
Sensor size	27.972 mm x 20.736 mm
Sensor diagonal	34.82 mm
Pixel size	13.5 µm
Bit depth	12bit, 10 bit, 8 bit
ISO	Mono 5,000 / 40,000 • Color 1,800 / 14,400
Maximum Frame Rate	1,000,000 fps
Shutter type	Global Exposure
Shutter time, standard	1µs minimum
Shutter time, fast mode	250ns
WDR	Wide Dynamic Range

SYNCHRONIZATION & CAPTURE

Trigger	TTL T0 to 0–100%
Trigger modes	Circular, ROC, BROCC
Sync	24Hz–500kHz
Luminance histogram	Iris setting aid tool
iCHECK 360	Camera status LEDs
iFocus	Focusing aid tool
iExposure	High/low exposure highlight
Control	PC or CDU
IRIG Input	IRIG – B to sub 2µs
IRIG Sync	Camera sync to IRIG
Internal Memory	96GB standard, upgrade to 144GB

CONNECTIVITY

Video outputs	2x HD-SDI, HDMI
USB	USB 3
Network	1GB RJ45
CDU	BNC 75ohm
Video	AVI (JPG, BMP), HSV
Image sequence	TIFF, BMP, JPG, RAW
Ethernet control	1GB
Remote control	Via supplied software

PC SOFTWARE

Standard Control	Control ONE
Premium Control	Control MULTI-DAQ
Editing	i-SPEED Movie Maker
Analysis	ProAnalyst® Lite by Xcitex
Viewer	i-SPEED Viewer
Utilities	i-SPEED Lens Calculator, i-SPEED Viewer
Software Developers Kit	C++, LabView
Synchronized data acquisition	USB DAQ, 8 options

PHYSICAL & ENVIRONMENTAL

Dimensions inches	14.3 (W) x 6.2 (H) x 6.2 (L)
Dimensions mm	363 (W) x 157 (H) x 154 (L)
Weight	18.7lb (8.5kg) with battery
Input Voltage	12–36V
Power Consumption	150w Nominal, 200w Max
Mounting	1/4 x 20 and 3/8 x 16 tripod plate
Battery	2x 14.4v 90Wh
Battery life	1 hour
Lens mount	Custom lens plate
EMC	CISPR22 (BS EN55022), CISPR24 (BS EN55024)
Safety	BS EN61010-1
CE Marking	EMC Directive (Camera), LV Directive, EMC Directive (PSU)
Lead Free	RoHS Directive
WEEE	Compliant
IP Rating	IP 20
Temperature °F	32 to 104 operation, -4 to 140 storage
Temperature °C	0 to 40 operation, -20 to 160 storage
Pressure	71 kpa to 106 kpa
Relative Humidity	95% at 104°F non-condensing
G-shock, Instrumentation package	10G
G-shock, Rugged package	30G @ 11ms IEC 68-2-27 Ea, 30G @ 2ms IEC 68-2-29 Eb
Power input connector	6pin Lemo
Trigger input	BNC 75ohm
Feature input	18pin Lemo, Trigger in / Sync in / Sync out / Exposure out / Remote power

PURCHASING OPTIONS

Sensor	Color / Mono
Memory	96GB (Std) / 144GB
Shutter time	1µs (std) / 250ns (upon request)
Internal SSD	500 GB / 1TB
External SSD	250 GB / 500 GB / 1TB
Lens mounts	F-mount (Nikkor D) / F-mount (Nikkor G) C-mount / EF-mount
Package Type	Instrumentation / Package
Warranty	1 yr (std) / 2 yr / 3 yr

Frame rates, resolution & duration data available for 716, 720 & 726 high-speed cameras.

HADLAND
IMAGING

West Coast

1414 Soquel Ave, Suite 200
Santa Cruz, CA 95062
USA
phone: 1-408-203-2727
www.hadlandimaging.com

East Coast

10 Park Place, Suite 507
Butler, NJ 07405
USA
phone: 1-862-228-2185

iX Cameras

For more information

Call **1-888-43HADLAND** (1-888-434-2352) or email, sales@hadlandimaging.com about ultra high-speed imaging solutions. iX Cameras on the web: www.ix-cameras.com