i-SPEED SERIES



i-SPEED® 7 SERIES

Premier high-speed cameras for the most demanding applications.



THE FASTEST JUST GOT FASTER

3.2 MEGAPIXEL CMOS SENSOR

2.45 MILLION FPS MAX SPEED

27+GPIXELS/S

2072 x 1536 @ 8,512FPS

1920 x 1080 @ 12,742FPS

ISO 16,000 / 125,000

SHUTTER TIME: STANDARD 1 µS,

FAST MODE TO 168 NS*

SYNCHRONISED INTEGRATED

LIGHTING CONTROL[†]

ELECTROMECHANICAL SHUTTER

DIRECT CONNECT REAR PANEL

UP TO 2TB EXTERNAL SSD

2TB INTERNAL SSD

NEW RUGGED HIGH G RATED

BODY DESIGN

HANDHELD CONTROL

DISPLAY UNIT

REMOVABLE HANDLE

MODEL UPGRADE PROGRAM

MADE IN THE UK AND USA



The newest AST CMOS ultra-high speed sensor

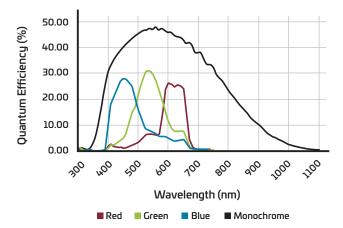
The heart of a high-speed camera is the sensor. The i-SPEED® 7 Series is no different. Employing our newest Advanced Sensor Technology (AST), the sensor in our newest i-SPEED 717, 721, and 727 cameras is the most advanced, highest performing sensor in the iX Cameras line of products.

iX Cameras designs and develops its own state-of-the-art proprietary sensors. This commitment to excellence and quality control keeps us ahead of the commercial sensors found in most high-speed cameras. In 2018, we launched our AST initiative. The first sensor of this endeavor was the 1920 x 1080 HD sensor utilized in the i-SPEED 5 Series. The new 2072 x 1536 3.2 MPixel AST sensor builds upon that success.

The newest AST CMOS sensors boast increased light sensitivity, enhanced image clarity, ultra-high-resolution at high speeds that reach 2.45 million frames/second, and proprietary black level control for deeper blacks and low noise.

Spectral response curves

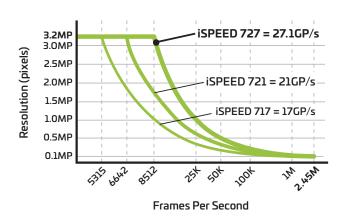
Our latest custom designed CMOS sensor with class leading light sensitivity provides high quality images for accurate analysis.



Unparalleled throughput

The i-SPEED® 7 Series (717, 721, and 727) provides an increased 2072 x 1536 resolution that raises throughput speeds to 27.1 GPixels/second (27.1 billion pixels processed every second)—at even higher frame speeds. The balance between resolution and frame rate produces amazingly clear images at impressive resolutions that are critical for accurate motion analysis.

The 27.1 GPixels/s raw throughput rate is the fastest in the industry. No spatial or temporal interpolation. Raw speed, the 168ns shutter time is also among the fastest. We even optimized the 13.5 µm pixel size for the proper balance between high-resolution (for image clarity) and exceptional light sensitivity normally found only with larger pixels.



Sensor highlights

- 3.2 Megapixel CMOS Sensor
- Optimized full well capacity
- Full 12 bit dynamic range
- Dynamic pixel control
- New sensor drive engine
- 27.1 GPixels/s throughput
- Exceptional light sensitivity
- 13.5 µm pixel size



Features that redefine high-speed performance

Electromechanical shutter

Continuing our tradition of developing easy-to-use cameras, we added an optional electromechanical shutter to the new i-SPEED® 7 Series. This new feature enables remote reference, automated calibration, and sensor protection during lens changes. The



electromechanical shutter makes the new i-SPEED 7 Series ideal for field work where the camera is at a distance from the user and for DIC and PIV applications where the camera must not be moved after a calibration frame.

i-CHEQ status monitoring

Monitor your camera's status at a glance and in real-time with i-CHEQ 360. View in-camera details for single or multiple camera setups with Remote i-CHEQ, part of the i-SPEED Software Suite 2.0. Understand your camera's exact status using the three variable color lights on the front of the camera and mirrored inside the control software.

Upgrade path between three models

The i-SPEED 7 Series has been designed to allow for easy upgrades between models as performance or application requirements increase. Add additional memory and options such as xSSD or upgrade to a higher performance model.

Camera Layouts

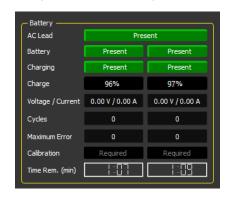


Layouts are arrangements of cameras that are used together for a test.
Multiple layouts can be defined and saved.
For each layout, an

actual photo of the test can be selected, or an artificial image can be generated. Cameras can be added to a layout and dragged to specific locations in the background image.

Real-time health monitor

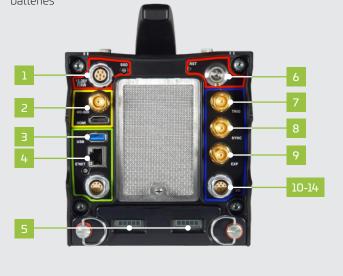
Observe the camera's internal condition and external environment. Switch off fans (Quiet Mode) to prevent vibration in microscopic applications. View battery status (if present), voltage information, fan speed and camera temperature.



Direct connect rear panel

The newly designed rear panel of the i-SPEED 7 Series added more BNC connections to reduce the requirement for a feature lead. Now the Trigger, Sync In/Out and Exposure Out are on the rear panel. Exposure Out can be switched to synchronized lightning control.

- 1 Power Input 12-36V
- 2 HD-SDI/HDMI video output
- 3 USB
- **4** Ethernet
- **5** Optional internal batteries
- **6** Power button
- **7** Trigger input BNC
- 8 Sync in/out BNC
- **9** Exposure out BNC
- 10 I/O connector
- **11** 12V out
- 12 IRIG in
- **13** Trigger
- ire out **14** GPIO



Rugged high-G rated body design

iX Cameras engineers combined the i-SPEED® 7 Series instrumentation and rugged models into one innovative camera housing ideal for both laboratory and challenging field environments. The sturdy rugged design features a high-G rated two-piece aluminum enclosure for exceptional protection. The redesigned all aluminum enclosure also includes a user removable handle to provide greater flexibility when mounting the camera to a static frame. Removing the handle exposes fixing points to facilitate the connection of other components such as the CDUe or lights, displays, booms, etc.



2TB internal SSD storage

Recording at high speeds with high resolutions produces a great deal of data. The i-SPEED 7 Series camera can be configured with up to 2TB of internal SSD storage. You can quickly and seamlessly transfer data from the camera's internal RAM memory to secure, non-volatile SSD—without touching the camera—for subsequent analysis. A 2TB capacity allows the user to store multiple recordings and conduct tests in quick succession.

Don't stop—just swap

Swappable SSD technology allows you to transfer high resolution images between a camera and a computer. The external solid state drive (xSSD) memory cartridge, available in 250GB, 500GB, 1TB, and 2TB sizes, is ideal for secure non-volatile storage of large video files without interrupting the video capture process.



Unplug and go with internal batteries

The optional battery set adds to the portability of the i-SPEED 7 Series camera, providing a one-hour charge without external power that can be swapped with another set for extended use. Data security is essential when tests cannot be repeated or in environments where the threat of power loss exists. Ensure that your video will be secure and intact with internal batteries that engage as soon as external power is lost.



On board image processing

The i-SPEED 7 does not output unprocessed RAW files by default. All video and images generated by the camera are fully processed by the camera itself. View the videos right out of the camera, with no post-processing necessary after the



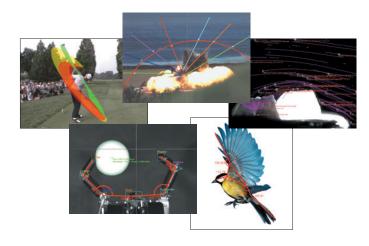
video is uploaded simply open your images and video in any movie player. You have the option to save in AVI, TIFF, JPEG, RAW and IXV.

Premium motion analysis software included

Turn your i-SPEED camera into a precision measurement device with ProAnalyst, premium video analysis software from

ProAnalyst_® by Xcitex

Xcitex Inc. Analyze, graph and output speed, acceleration, and angular motion. Measure fluid dynamics, PIV, displacement, and more with optional toolkits.



iX Cameras CDUe for complete camera control without a PC

The industry unique CDUe (Control Display Unit) makes operating the camera quick, intuitive, and portable. The CDUe allows you to frame your field of view, set resolution, frame rate and shutter speed, record, and review with the touch of a finger. With the CDUe, take your system to the field without the need of a laptop.

One step camera connection

Your CDUe has i-SPEED Control software pre-installed. Once you connect the CDUe to the camera with an Ethernet cable and USB adapter, operating the camera is as simple as launching the application on the CDUe. Just connect and control the camera.

Software designed to maximize your workflow

The custom CDUe Control software allows users to control camera settings to meet all their applications needs. The touch screen functionality of the CDUe provides an intuitive, user-friendly experience.

All the commands to control the camera are conveniently located at the bottom of the screen, allowing the user to select frame and shutter speeds and resolution and then continue on to record, review, and save. The top of the screen displays the camera and CDUe status—all the key information you need to conduct your experiments.



Capturing video and triggering



Speed

Touch the Speed button to set the desired frame rate.



Shutter

Touch the Shutter button and set the shutter to the desired value. The shutter can be set with the user's

choice of time measurement. The default setting is X, and this is always relative to the frame rate. The shutter can also be set to μ s as a finite defined time or 1/x for values that are more familiar to photographers.



Assist

The Assist function of the CDUe, unique to i-SPEED cameras, provides our customers with a one-touch

feature to ensure the subject they are studying is in focus, and the setting is set to the right exposure and has the correct amount of light to get the best video.



i-FOCUS

This is a colored overlay that peaks to red when an item is sharp and therefore in focus. This makes

setting the focus very easy in bright light environments or on moving machinery.

Another advantage of the i-FOCUS feature is that the depth of field can be seen, and therefore focus can be balanced to suit any movement in the scene.



i-EXPOSE

The i-EXPOSE feature highlights peak white areas of the image in red and highlights peak black areas of the

image in blue. This allows the user to balance the image between peak white and peak black and also ensure that important parts of the image are not too saturated or lost in darkness.



Low Light

Resolution may be reduced when operating at high frame rates, so the camera needs to be set up and

aligned for reduced resolution. This may be difficult to achieve in low light level situations. The Low Light feature allows the user to quickly set the frame rate to 60 fps while maintaining the set resolution to allow for alignment and focusing of the camera.

Synchronised Integrated Lighting Control (SILC)

A unique system designed to take advantage of what all cameras need most—light.

The i-SPEED® 7 Series offers a patent pending system called Synchronised Integrated Lighting Control (SILC) which measures and calibrates the rise time delay of pulsed light sources—(LED lamps or laser systems)—and precisely aligns this light pulse with that delay for the framing of the camera to ensure 100% illumination efficiency.

SILC can be run in one of three different modes:

- · Single pulse
- Double pulse
- Alternating pulse

This feature is ideal for LED and laser illumination where the timing of the light in relation to the exposure can be tightly controlled. Delay, duration, and relative position for each pulse can be defined, allowing for superior lighting control and advanced camera synchronisation possibilities.

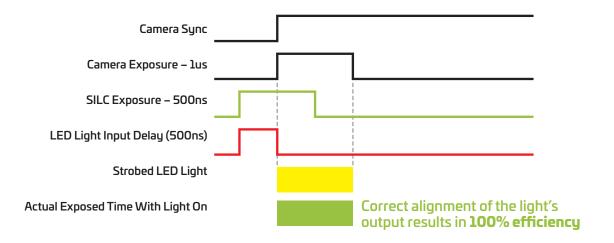
SILC advantages

- Achieve 100% efficiency from lights for maximum possible illumination
- Frame skip allows pulses to skip (not pulse) on a number of next frames
- Adjust the pulse length and position relative to the camera's exposure
- Control of the lights, off/on and on during recording
- Create two levels of illumination
- Maintain high resolution using double exposure instead of increasing frame speed (reducing resolution)

Single pulse

When using a short exposure time with a short strobe, the light's input delay has an effect on light efficiency. SILC allows the user to maximize the brightness of stroboscopic light and can also be useful in applications such as ballistics or welding—in conjunction

with a bandpass filter—to overpower the flare created by the event itself. The user can see "into" the glare of the muzzle flash or the welding arc.



Result

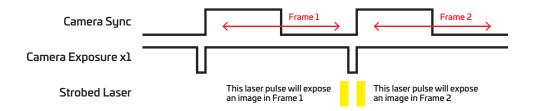
- Large drop in brightness to user
- Large power reduction
- Large reduction in heat
- Large increase in camera brightness

Correct alignment of the light's output results in 100% efficiency

Double pulse

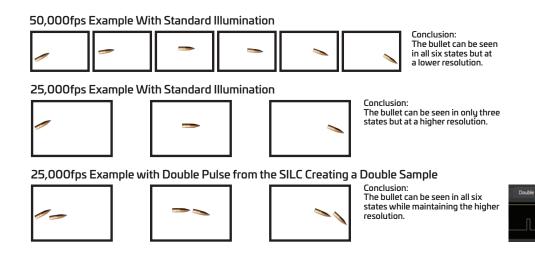
The double pulse feature allows the user to have two exposures in a single frame, a technique ideal for PIV applications where two

very short laser pulses in sequential camera exposures separated by a very short duration (straddle) are required.



Two exposures in a single frame: Currently if a user is trying to understand the motion of a bullet, they increase the frame speed of the high-speed camera to see enough frames of motion; increasing frame rate has the effect of decreasing the resolution.

This new method of double sampling (double exposure) means that the camera can be operated at half speed and benefit from twice the resolution.

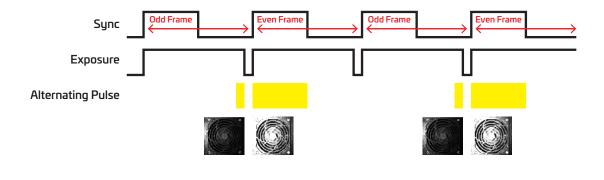


Alternating pulse

The alternating pulse mode allows the user to set two different pulses on alternating frames. This is ideal for creating two levels of illumination when more dynamic range is required.

Many recordings require a high dynamic range. Modern highspeed cameras can produce up to 12 bits of dynamic range. This is often sufficient for many applications, but some applications benefit from the ability to see into a dark area at the same time as view the light area. CMOS sensors can correct for this to a certain extent, but when we reach this limit what if we could use lighting to assist in these circumstances?

Using SILC, the i-SPEED® 7 camera can be run at double the desired frame rate with the even numbered frames illuminated with a long pulse generating a bright image, and then every odd numbered frame illuminated with a short pulse, creating an image with a less intense level of brightness.



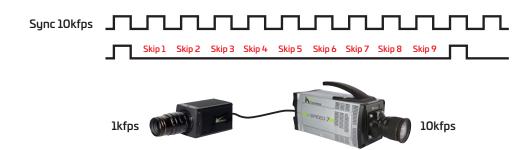
Synchronise other cameras at lower frequencies

Allows a user to operate a camera at a higher frequency and a second camera recording at a lower frequency. With SILC, a user does not need an external sync box with multiple outputs.

Example: If the main camera is running at 10,000fps and the second overview camera only needs to operate at 1,000fps, then

the SILC can generate a sync pulse that skips nine frames before pulsing again.

Note: Here we are not using the SILC output to drive a light but to synchronise another camera.



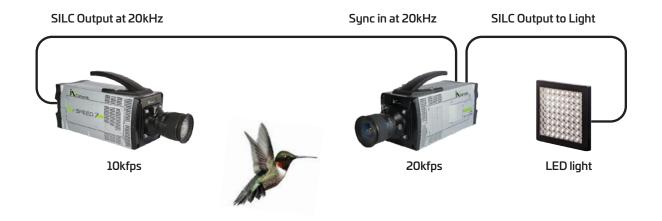
Synchronise other cameras at double frequencies

A second camera or another piece of equipment may need to run twice as fast as the master camera.

This can be achieved using the double pulse option in the master camera.

Example: Shows the slave camera driving the light with its accurate SILC system.

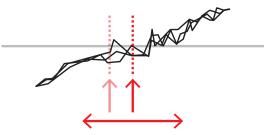
The flexibility of the SILC system enables many different application demands.



Advanced IRIG system

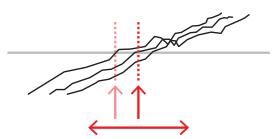
IRIG is a common method to distribute an accurate time signal. However, the advancement of camera performance has made IRIG accuracy difficult to achieve.

Every analog signal has noise—this affects the on-time position.



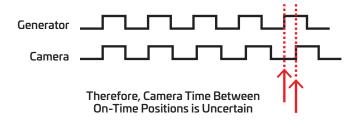
Therefore, the On-Time Position is Uncertain

Some IRIG generators produce a jittery signal—digital sampling adds to this. Therefore, the on-time position is uncertain.



Therefore, the On-Time Position is Uncertain

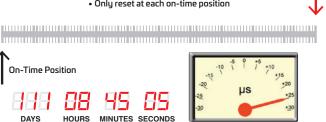
Generator and camera timings can be inaccurate relative to each other depending on factors such as temperature, age and manufacturers' tolerance.



The common approach used by most high-speed camera manufacturers is that the camera timing is allowed to drift and only re-set at each on-time position. Therefore, at the end of each one-second time period there could be a substantial error. This is compounded if the IRIG signal is lost and the signal drifts.

Most Common Approach

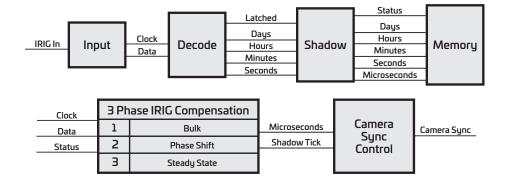
- Camera timing allowed to drift
- · Only reset at each on-time position



At the End of Every Second, There Can be a Substantial Error

The new i-SPEED IRIG system is designed to reduce errors between on-time positions and minimize the drift on loss of signal.

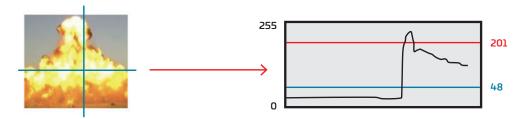
- •The system incorporates a Digital Phase Locked Loop (DPLL) that is not affected by analog signal noise and generator jitter.
- The i-SPEED 7 Series cameras also include an internal shadow clock which adjusts automatically to match the IRIG generator, eliminating drift and jitter.



Video trigger system

A real-time video trigger system has been added to the i-SPEED[®] Software Suite—for when you can't use a wired trigger, or when you want to use the event itself to trigger the camera recording.

This new system works by monitoring changes in luminance value of a defined location in the camera scene.



The brightness of the pixel under the reticle is plotted on a graph and if the value goes above or below a user set value then the camera will be triggered.

The new video trigger system has three options, depending on the application.

Auto Mode

Quick and simple setup



Auto mode is a quick and simple way to set up a Video Trigger:

- 1. Place the reticle on the location where the movement is expected.
- **2.** Snapshot the current pixel luminance.
- 3. Click Enable Video Trigger.

If the value changes higher or lower than the default thresholds of 25, the camera will trigger.

Note: The thresholds can be modified to make the trigger more or less sensitive to luminance changes.

Manual Mode

User-definable trigger levels for more control



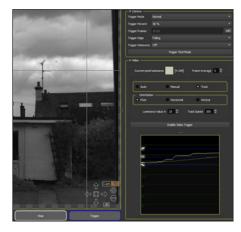
Manual mode provides more control than Auto. For example, the user may only want to run with an upper threshold (trigger on brighter, not darker).

- **1.** Place the reticle on the location where movement is expected.
- **2.** Set or disable the Upper Threshold.
- 3. Set or disable the Lower Threshold.
- 4. Click Enable Video Trigger.

If the value meets any enabled threshold, a trigger event will occur.

Track Mode

For dynamic changing environments



The Track mode allows the luminance to change slowly without triggering the camera, and only allows a trigger to occur when the luminance changes quickly. An example for use is in an outdoor environment with cloud cover where the ambient brightness will vary slowly.

- **1.** Place the reticle on the location where movement is expected.
- 2. Set the Upper and Lower Threshold.
- 3. Set the Track Speed.
- 4. Click Enable Video Trigger.

If ambient brightness changes are too fast and create an unwanted trigger event, then the Track speed can be lowered, allowing the tracking to move more quickly.

Performance

Upgrade path between three models

The i-SPEED® 7 Series has been designed to allow for easy upgrades between models as performance or application requirements increase. Add additional memory and options such as xSSD or upgrade to a higher performance model.

i-SPEED. 727

Frame Speed	Resolution	36GB	72GB	96GB	144GB	288GB
1,000	2072x1536	8.1	16.2	21.6	32.4	64.8
2,000	2072x1536	4.0	8.1	10.8	16.2	32.4
5,000	2072x1536	1.6	3.2	4.3	6.5	13.0
7,500	2072x1536	1.1	2.2	2.9	4.3	8.6
8,512	2072x1536	1.0	1.9	2.5	3.8	7.6
10,000	1904x1410	1.0	1.9	2.5	3.8	7.6
12,742	1920x1080	1.0	1.9	2.5	3.8	7.6
15,000	1512x1134	1.0	2.0	2.7	4.0	8.0
20,000	1344x978	1.0	2.0	2.7	4.0	8.0
30,000	1064x798	1.0	2.0	2.6	4.0	7.8
50,000	1064x474	1.0	2.0	2.7	4.1	8.2
100,000	1064x228	1.0	2.1	2.8	4.2	8.5
200,000	1064x102	1.1	2.4	3.2	4.7	9.5
500,000	1232x24	1.7	3.5	4.6	7.0	14.0
750,000	1120x12	2.6	5.1	6.8	10.2	20.4
1,000,000	560x24	1.9	3.8	5.1	7.7	15.3
2,450,000	280x12	3.1	6.3	8.3	12.5	25.0

i-SPEED. 721

Frame Speed	Resolution	36GB	72GB	96GB	144GB	288GB
1,000	2072x1536	8.1	16.2	21.6	32.4	64.8
2,000	2072x1536	4.0	8.1	10.8	16.2	32.4
5,000	2072x1536	1.6	3.2	4.3	6.5	13.0
6,642	2072x1536	1.2	2.4	3.2	4.9	9.7
7,500	1960x1428	1.2	2.5	3.3	4.9	9.8
9,944	1920x1080	1.2	2.4	3.3	4.9	9.8
10,000	1680x1242	1.2	2.5	3.3	4.9	9.9
15,000	1344x1008	1.3	2.5	3.4	5.1	10.1
20,000	1176x864	1.3	2.5	3.4	5.1	10.1
30,000	952x696	1.3	2.6	3.5	5.2	10.4
50,000	840x462	1.3	2.7	3.5	5.3	10.6
100,000	840x216	1.4	2.8	3.8	5.7	11.4
200,000	840x96	1.6	3.2	4.3	6.4	12.8
500,000	896x24	2.4	4.8	6.4	9.6	19.2
750,000	448x36	2.1	4.3	5.7	8.5	17.0
1,000,000	448x24	2.4	4.8	6.4	9.6	19.2
2,450,000	280x12	3.1	6.3	8.3	12.5	25.0

i-SPEED. 717

Frame Speed	Resolution	36GB	72GB	96GB	144GB	288GB
1,000	2072x1536	8.1	16.2	21.6	32.4	64.8
2,000	2072x1536	4.0	8.1	10.8	16.2	32.4
5,000	2072x1536	1.6	3.2	4.3	6.5	13.0
5,315	2072x1536	1.5	3.0	4.1	6.1	12.2
7,500	1736x1284	1.5	3.1	4.1	6.2	12.3
7,960	1920x1080	1.5	3.1	4.1	6.1	12.2
10,000	1512x1098	1.6	3.1	4.1	6.2	12.4
15,000	1232x888	1.6	3.1	4.2	6.3	12.6
20,000	1064x762	1.6	3.2	4.2	6.4	12.7
30,000	840x624	1.6	3.3	4.4	6.6	13.1
50,000	672x456	1.7	3.4	4.5	6.7	13.4
100,000	672x216	1.8	3.5	4.7	7.1	14.2
200,000	672x96	2.0	4.0	5.3	8.0	16.0
500,000	672x24	3.2	6.4	8.5	12.8	25.6
750,000	448x24	3.2	6.4	8.5	12.8	25.6
1,000,000	336x24	3.2	6.4	8.5	12.8	25.6
2,450,000	280x12	3.1	6.3	8.3	12.5	25.0

Specifications

IMAGER

Custom CMOS
2072 x 1536 pixel
27.972 mm x 20.736 mm
34.82 mm
13.5 µm
12 bit (36 bit color)
16,000 / 125,000
4,000 / 32,000
Global
1 µs @ 225,000 fps
1,000,000 fps* 277 ns (a) 1M fps 727 model 293 ns (a) 1M fps 721 model 289 ns (a) 1M fps 717 model
2,450,000 fps* 168 ns (All i-SPEED 7 Series models)
Wide Dynamic Range

SYNCHRONISATION and CAPTURE

Trigger	TTL TO to 0-100%
Trigger modes	Circular, ROC, BROC
Sync	10 Hz - 350 kHz
Luminance histogram	Iris and light assistance
i-CHEQ 360	Camera status LEDs
i-FOCUS	Focusing and depth of field information
i-EXPOSE	High/low exposure highlight
Control	PC or CDUe
IRIG input	IRIG – B to sub 1 µs
Internal memory	36 GB standard, upgrade to 288 GB

CONNECTIVITY

Video outputs	HD-SDI, HDMI
USB	USB 3
Network	1 Gb RJ45
Video	IXV, AVI (compressed or uncompressed)
Image sequence	TIFF, JPG, RAW
Ethernet control	1 Gb
Remote control	Via supplied software

PC SOFTWARE

Standard control	Control ONE
Premium control	Control Multi-DAQ
Editing	i-SPEED Movie Maker
Analysis	ProAnalyst® by Xcitex
Viewer	i-SPEED Viewer
Software Developers Kit	C++
Synchronised data acquisition	USB DAQ, 8 options
Language	Local language (available in certain countries)

PHYSICAL and ENVIRONMENTAL

Dimensions, inches	14.75 (L) x 5.75 (W) x 6.0 (H)	
Dimensions, mm	374 (L) x 143.5 (W) x 150 (H)	
Weight	18.7 lb (8.5 kg) with battery	
Input voltage	12-36 V	
Power consumption	150 W Nominal, 200 W Max	
Mounting	1/4 x 20 and 3/8 x 16 tripod plate	
Battery	2x 14.4 V 90 Wh	
Battery life	1 hour (with both batteries installed)	
Lens mount	Custom, swappable lens plate	
EMC	EN55032-A, EN55024	
Safety	BS EN61010-1 (camera), IEC60950 (PSU)	
CE marking	EMC Directive (Camera), EMC Directive, LV Directive (PSU)	
Lead free	RoHS Directive	
WEEE	Compliant	
IP rating	IP 20	
Temperature °F	-14 [†] to 122 operation, -4 to 140 storage	
Temperature °C	-10 [†] to 50 operation, -20 to 60 storage	
Pressure	71 kpa to 106 kpa	
Relative humidity	95% at 104°F non-condensing	
G-shock	30 G @ 11 ms IEC 68-2-27 Ea, 30 G @ 2 ms IEC 68-2-29 Eb	
Power input connector	6 pin Lemo	
Trigger input	BNC 75 Ω	
I/O connector	10 pin Lemo, 12V, Remote Power, IRIG-IN, GPIO 0, 1, GPI 2, Trigger In	

PURCHASING OPTIONS

CDUe	Portable Control Unit	
Sensor	Color / Mono	
Memory	36GB (std) / 72GB / 96GB / 144GB / 192GB / 288GB	
Frame speed (option)	1,000,000fps*	
Frame speed (maximum)	2,450,000fps*	
Shutter integration time	1 µs (std) / 168ns* @ 2.45M fps/ 277ns* @ 1M fps	
Internal SSD	500GB/1TB/2TB	
External SSD	250GB / 500GB / 1TB / 2TB	
Lens mounts	F mount (Nikkor D) / F mount (Nikkor D) with shutter / F mount (Nikkor G) / F mount (Nikkor G) with shutter / C mount / EF mount	
Warranty	2 yr (std) / 3 yr	
Internal Batteries	Set of 2 batteries	

^{*}Export restricted.

^{*}Cameras must be turned on above 0°C / 32°F and can operate down to -10°C /-14°F.

Our cameras set us ahead. Our software sets us apart.



The i-SPEED® Software Suite 2.0 enables you to use the software with a Windows laptop, desktop, or the optional Controller Display Unit (CDUe). With both versions of the PC software—Standard and Premium—you will experience unparalleled features and the most complete set of functions with a modern and intuitive GUI. Control your camera via Gigabit Ethernet connection—load and control single and multiple camera configurations or connect remotely for uninterrupted access to restricted areas.

Two levels to suit your specific application requirements

- Control ONE: Control a single camera from a laptop or PC.
- Control Multi-DAQ: Control multiple cameras and/or synchronise with data acquisition devices.

Local Languages

To accommodate our worldwide customer base, the i-SPEED Software Suite 2.0 will be available in local languages to meet the needs of our global customers.

Video Trigger

The latest feature of the i-SPEED Software Suite 2.0, this functionality allows the user to define trigger levels through a manual mode or choose auto mode and have the software calibrate trigger levels. A real-time track mode has been added for triggering the camera in a dynamically changing environment such as cloud cover.



Record

Customized connection and crow's-nest layout window

- Instantly sync and record from multiple cameras.
- Choose multiple configurations of a single camera, or quickly configure a new camera and new capture settings from inside the simplified connection control panel.



Edit

Renderless editing suite i-SPEED Movie Maker features virtually no render lag

- The world's only editing software designed specifically for highspeed video
- Focuses on frame rate and video speed
- Available with Control Multi-DAO



Analyze

Your i-SPEED camera becomes a precision measurement device with ProAnalyst® from Xcitex Inc., the world's most advanced motion analysis software

- Analyze, graph, and output speed, acceleration, fluid dynamics, PIV, and more with optional toolkits.
- Available with Control Multi-DAO



Share

Play just about anything

- View and import saved files directly from the camera.
- Align and play multiple file types.
- Load and control the video and playback speed all without load times—load and play multi-gigabyte files instantly.

Software Developer's Kit (SDK)

iX Cameras will provide the SDK kit and the technical support to customize the software to meet your specific applications needs. We will work with you to integrate program commands into your own software to allow you full control of all i-SPEED 7 camera functions and features.

i-SPEED Software Suite 2.0

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	File Name Sequencing for Ingestion Into 3rd Party Software	•	•

*ProAnalyst*_® Motion Analysis Software by Xcitex

ProAnalyst	Introductory	Lite
File Management		
AVI, WMF, ASF, CINE, MPED-1, MOV, and MP4 Files	•	•
BMP, JPG, PNG, TIFF Image Sequence Compatibility	•	•
Project-Based File Management	•	•
Video Explorer	•	•
Pack / Unpack Projects	•	•
Image Calibration and Processing		
Image Processing	•	•
Image Filtering		Limited
Video Timeline	•	•
Layered Display and Editing	•	•
2-D Scene Calibration	•	•
Perspective and Multi-Plane Scene Calibration		•
Video Analysis		
2-D Feature Tracking	•	•
Number of Auto-Track Features	1	256
Number of Manual Track Points	32	256
Real-Time Annotations of Distance and Angle Between Features		•
Graphing and Computation		
Graphing Within ProAnalyst		Limited
Notes and Reports		
External Data Import		•
Tracking Data Export to C3D, Diadem, Excel, MATLAB	Limited	
Video Frame, Data Point, and Global Notes		•
Image Annotation		

ProAnalyst Professional and 3-D Professional	Professional	3-D Professional
Image Calibration and Processing		
3-D Manager		•
3-D Scene Calibration		•
Lens Distortion Correction	•	•
Video Analysis		
Image Stabilization Toolkit*	Optional	Optional
Particle Counting, Sizing, and Tracking Toolkit*	Optional	Optional
Contour / Edge Analysis Toolkit*	Optional	Optional
Particle Image Velocimetry Toolkit	Optional	Optional
Impact Excursion Toolkit	Optional	Optional
Biological Cell Tracking Toolkit	Optional	Optional
1-D Line Tracking	•	•
3-D Measurement and Analysis		•
Graphing and Computation		
One-Click FFT	•	•
2-Axis Graphing	•	•
3-Axis Graphing	•	•
3-D Graphing of Trajectories from 3-D Manager	•	
Data Filtering	•	•
Notes and Reports		
HTML, PowerPoint, and Print-Ready Report Generator	-	•

Upgrade Options

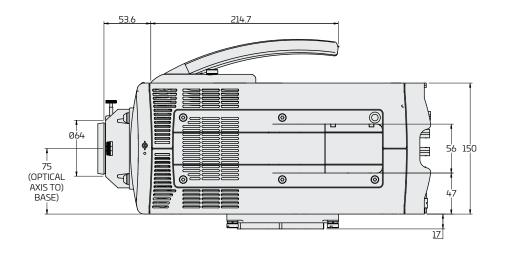
*Included in Professional Ultimate Bundle

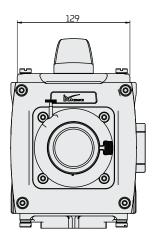
- From Introductory to Professional Edition
- From Introductory to Professional Ultimate Bundle
- From Lite to Professional Edition
- From Lite to Professional Ultimate Bundle
- From Professional to 3-D Professional Edition
- From Professional Ultimate Bundle to 3-D Professional Ultimate Bundle

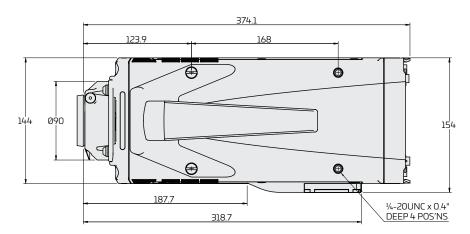
iX Cameras shares its CAD models.

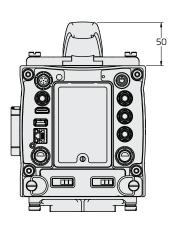
With many applications, the camera is a component in the overall solution. While commercially available accessories can fulfill most requirements, there are always some situations that require a bit extra. This may be as simple as a bracket to mount an accessory to the camera, or as complex as a full OEM system integration. Whatever the requirement, accurate and complete interface data is a must. As such, iX Cameras is pleased to provide another first in our industry by opening access to the CAD model data for the exterior of our cameras.

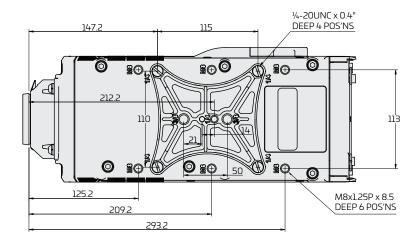
For more information, please visit our <u>Cameras CAD Models</u> page.











Advanced high-speed cameras for any application

The new i-SPEED® 7 Series with the AST sensor offers our customers three models (717, 721, 727) of high-speed cameras to use in the lab, field, or test range recording a wide range of applications without compromising high resolution at high recording speeds—capturing the fastest events while reducing motion blur.

Fluid Dynamics

The combination of high resolution and integrated lighting control allows for perfect capture of fluids with zero motion blur.



Courtesy: Linden Gledhill

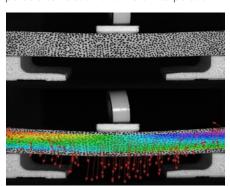
Ballistics

With the highest pixel throughput available (27.1Gp/s), the 7 Series provides industry leading resolution values at high frame rates.



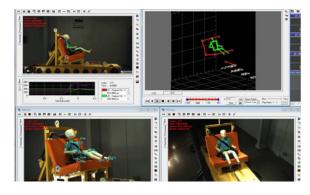
Digital Image Correlation (DIC)

The 7 Series cameras use the new AST high-resolution sensor, enabling small particle correlation with zero interpolation.



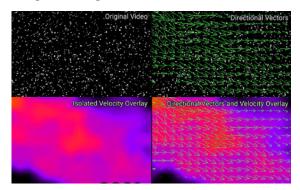
Motion Analysis

When accuracy of motion analysis is paramount, the high resolution, high dynamic range allows for perfect 2D and 3D analysis.



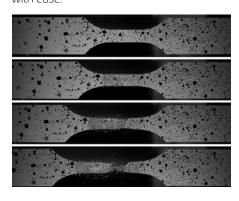
PIV

Large area medium pixel sensors are ideal for PIV applications, giving high resolutions as well as high sensitivity.



Scientific Research

The wealth of functions and features that the 7 Series offers enables the most extreme tests to be completed with ease.



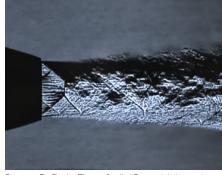
Fragmentation

When the environment is tough the camera also needs to be tough. The new 7 Series provides a tough 30G case made from a solid billet of aluminium.



Schlieren

Traditional mirror and modern digital techniques both excel with the AST Sensor due to its high sensitivity and resolution.



Courtesy: Dr. Charles Tinney, Applied Research Laboratories, University of Texas at Austin and Dr. Nathan Murra, University of Mississippi

A legacy built on innovation

iX Cameras is a world-leading technology and product company specializing in the field of high-speed (slow motion) imaging. Based on proprietary innovative technologies, we design, build and sell cutting-edge, ultra-fast cameras and software for a wide range of advanced scientific research applications. The innovation of our i-SPEED® brand of cameras is backed by our world-class service and support teams, ensuring our customers' success.

iX Cameras was created in 2014 when we purchased the Olympus product group that has been developing and selling the i-SPEED brand of high-speed cameras for over a decade. Today, the same heralded development team from Olympus, combined with new camera and software industry veterans, continues to design innovative state-of-the-art i-SPEED cameras under the iX Cameras brand. Our commitment is simple—innovate and push the boundaries of high-speed video science, developing technically superior and easy-to-use products that allow customers to attain the highest scientific achievements and creativity.



iX Camera support and service locations

iX Cameras is dedicated to providing the best support and customer communication possible. Use the information below to get comprehensive company-wide contact information for any question or topic which you may have.

United Kingdom

Bradley House Locks Hill Rochford Essex, SS4 1BB

T: +44 (0) 1702 540 669

United States

8 Cabot Road Suite 1800 Woburn, MA 01801

T: +1 339 645 0778

China

Room 605, Building 8 No 365, Chuanhong Road Pudong New District Shanghai, 201323

T: +86 186 215 60553

India

C-207, Twin Arcs Legacy Life Spaces, Punwale Bazar Punawale, Pune-411033 Maharashtra

T: +91 955 256 5021

info@ix-cameras.com ix-cameras.com

To find the iX Cameras sales partner nearest you, visit our Worldwide Distribution page.

