

## The Ultimate High-Resolution, High-Speed Camera



There's only one way to capture the fastest events in the world. That's with the highest resolution, fastest camera ever built.

Experience the i-SPEED 726, the pinnacle of the powerful, high-end i-SPEED 7 Series line of high-speed cameras. Packed with value and suited for a wide range of applications, driven by a whopping 3 megapixel image sensor. Need we say more? It's a level of performance that captures more than movement. It captures the imagination.



**i-SPEED 726R  
shown in heavy  
duty, rugged  
environmental  
package**

Choose from the sleek new Instrumentation package or elect to upgrade your camera to the high-G rated Rugged package with its environment-resistant homogenous aluminum frame. When the ultimate in testing is required for capturing the ultimately fast event, the i-SPEED 7 is up to the task.



**The i-SPEED 726  
camera is controlled  
both by PC and the  
new 7 Series  
touchscreen CDU**

## FEATURES

- High-resolution 2048x1536 pixel sensor
- Full resolution to 8,250 frames/second
- 1080p resolution at 12,060 frames/second
- Up to 144GB of on-board memory
- Class leading 26GP/sec throughput
- Microlens sensor for exceptional light sensitivity
- Wide Dynamic Range recording
- Global Electronic Shutter to 250ns\*
- 1 hour battery life
- Internal or external SSD drive for fast data transfer
- Compatible with all F and EF mount lenses
- Maximum frame rate – 1,000,000 fps
- Flexible Frame Synchronization from 24 Hz to 500kHz
- Environmentally rugged package available

\* Upgrade

# SPECIFICATIONS

*i-SPEED* 726

## IMAGER

Sensor type	Custom CMOS
Sensor resolution	2048 x 1536 pixel
Sensor size	27.972mm x 20.736mm
Sensor diagonal	34.82mm
Pixel size	13.5 µm
Bit depth	12bit, 10 bit, 8 bit
ISO	Mono 5000 / 40000 • Color 1800 / 14400
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 and CAPTURE

Trigger	TTL T0 to 0-100%
Trigger modes	Circular, ROC, BROCC
Sync	24Hz – 500kHz
Luminance histogram	Iris setting aid tool
iCHEQ 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

## PHYSICAL and 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	¼x20 and 3/8x16 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

## 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

## 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 and DURATION

FPS	Resolution	36GB	72GB	96GB	144GB
100	2048x1536	-	-	308 sec	464 sec
200	2048x1536	-	-	154 sec	232 sec
300	2048x1536	-	-	102 sec	154 sec
500	2048x1536	-	-	61.7 sec	93 sec
1000	2048x1536	-	-	30.9 sec	46 sec
2000	2048x1536	-	-	15.4 sec	23.2 sec
5,000	2048x1536	-	-	6.2 sec	9.2 sec
8250	2048x1536	-	-	3.8 sec	5.7 sec
12,500	1920x1080	-	-	2.5 sec	3.7 sec
16,250	1440x1080	-	-	2.5 sec	3.8 sec
26,000	1280x720	-	-	2.8 sec	4.3 sec
30,000	1143x650	-	-	2.8 sec	4.2 sec
50,000	782x548	-	-	2.8 sec	4.3 sec
100,000	560x360	-	-	2.6 sec	4.4 sec
200,000	560x165	-	-	2.6 sec	4.4 sec
300,000	560x107	-	-	2.8 sec	4.8 sec
500,000	560x48	-	-	2.9 sec	5.0 sec
750,000	560x28	-	-	3.3 sec	4.9 sec
1,000,000	560x19	-	-	2.9 sec	4.4 sec

*Note: Other resolutions and speeds are available.*



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