The Ultimate High-Resolution, High-Speed Camera



8,512fps @ 2048x1536 | 26GPx/s throughput | ISO 16,000 / 125,000



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 aluminum casing. When the fastest camera is required to capture the fastest events, 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 CDUe

FEATURES

- High resolution 2048x1536 pixel sensor (3.1MPx)
- · 1080p resolution at 12,742 frames/second
- Up to 288 GB of on-board memory for long recordings
- Internal or external SSD drive for fast data transfer
- Microlens sensor for exceptional light sensitivity
- Wide Dynamic Range recording
- Global electronic shutter to 277 ns*
- 1 hour battery life
- · Compatible with all F and EF mount lenses
- Maximum frame rate 1,000,000 fps
- Flexible frame synchronization from 10 Hz to 200 kHz
- Environmentally rugged package available
- · 32 point integrated real-time health monitoring system
- · Upgrade path between models
- * Subject to export regulations, shorter shutter speeds are available by request. Contact iX Cameras for more information.



IMAGER

Sensor type Custom CMOS Sensor resolution 2048 x 1536 pixel Sensor size 27.972 mm x 20.736 mm

34 82 mm Sensor diagonal 13.5 um Pixel size Bit depth 12 bit (36 bit color)

Light sensitivity Mono

(Gain off/on)

Light sensitivity Color

(Gain off/on) 4.000 / 32.000 Maximum frame rate 1,000,000 fps Shutter type Global exposure Shutter time, standard 1 µs minimum Shutter time, fast mode 277 ns

Wide Dynamic Range

SYNCHRONIZATION and CAPTURE

16.000 / 125.000

TTL T0 to 0-100% Trigger **Trigger modes** Circular, ROC, BROC 10 Hz - 200 kHz Sync Luminance histogram Iris setting aid tool i-CHEQ 360 Camera status LEDs i-FOCUS Focusing aid tool

i-EXPOSE High/low exposure highlight Control PC or CDUe

IRIG input IRIG – B to sub 1 µs IRIG sync Camera sync to IRIG

96 GB standard, upgrade to 288 GB Internal memory

PHYSICAL and ENVIRONMENTAL

Dimensions

Instrumentation package

14.3 (W) x 6.2 (H) x 6.2 (L) inches mm 363 (W) x 157 (H) x 154 (L)

Rugged package

14.75 (W) x 6.0 (H) x 5.75 (L) inches mm 374 (W) x 150 (H) x 143.5 (L) Weight 18.7 lb (8.5 kg) with battery

Input voltage 12-36 V

Power consumption 150 W nominal, 200 W max Mounting 1/4x20 and 3/8x16 tripod plate

Battery 2x 14.4 V 90 Wh

Battery life 1 hour Lens mount Custom, swappable lens plate

EN55032-A, EN55024 **EMC**

Safety BS EN61010-1 (camera), IEC60950 (PSU)

CE marking EMC directive (camera),

EMC directive, LV directive (PSU)

Lead free RoHS directive

WEEE Compliant IP 20 IP rating

Temperature °F 32 to 104 operation, -4 to 140 storage Temperature °C 0 to 40 operation, -20 to 60 storage

Pressure 71 kpa to 106 kpa

Relative humidity 95% at 104°F non-condensing

G-shock, Instrumentation package

30 G @ 11 ms IEC 68-2-27 Ea, G-shock, Rugged package

30 G @ 2 ms IEC 68-2-29 Eb

Power input connector 6 pin Lemo BNC 75 Ω **Trigger input**

Feature connector 18 pin Lemo, trigger in / sync / sync out /

exposure out / remote power

CONNECTIVITY

2x HD-SDI, HDMI Video outputs USB USB 3 Network 1 Gb RJ45

IXV, AVI (compressed or uncompressed) Video

Image sequence TIFF, JPG, RAW

Ethernet control 1 Gb

Remote control Via supplied software

PC SOFTWARE

Control ONE Standard control 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 USB DAQ, 8 options Synchronized data acquisition

PURCHASING OPTIONS

CDUe Portable Control Unit Sensor Color / Mono

Memory 96 GB / 144 GB / 288 GB

Shutter time 1 µs (std) / 277 ns (subject to export restrictions)

Internal SSD 500GB / 1TB / 2TB **External SSD** 250GB / 500GB / 1TB / 2TB

Lens mounts F mount (Nikkor D) / F mount (Nikkor G)

C mount / EF mount Package type Instrumentation / Rugged Warranty 1 yr (std) / 2 yr / 3 yr **Internal Batteries** Set of 2 batteries

FRAME RATES, RESOLUTION, and DURATION (in seconds)

Frame Speed	Resolution	96GB	144GB	288GB
1,000	2048x1536	21.6	32.4	64.8
2,000	2048x1536	10.8	16.2	32.4
5,000	2048x1536	4.3	6.5	12.9
7,500	2048x1536	2.9	4.3	8.6
8,512	2048x1536	2.5	3.8	7.6
9,942	1904x1422	2.6	3.8	7.7
10,000	1904x1410	2.6	3.8	7.7
12,742	1920x1080	2.5	3.8	7.6
20,000	1344x978	2.6	3.9	7.8
30,000	1064x798	2.7	4.0	8.1
50,000	1064x474	2.7	4.1	8.2
100,000	1064x228	2.8	4.2	8.5
200,000	1064x102	3.2	4.8	9.5
500,000	1232x24	4.6	7.0	13.9
750,000	1120x12	6.8	10.2	20.4
1,000,000	560x24	5.1	7.7	15.3

Note: Other resolutions and speeds are available.



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Bradley House Locks Hill Rochford Essex, SS4 1BB T: +44 (0) 1702 540 669 **United States** 8 Cabot Rd.

Suite 1800 Wohurn MA. 01801 T: 339 645 0778 China Room 1402, Unit 65, No 399 Hangting Road, Oriental Hong Jing Garden, ZhuQiao Town, Shanghai,

T: +86 186 215 60553

India C-207. Twin Arcs

Legacy Life Spaces Punwale Bazar Punawale, Pune-411033 Maharashtra India T: +91 955 256 5021