

Economical High-Speed Cameras in a Compact Package for Laptop Control



Compact, Versatile and Easy to Use

The i-SPEED 210 and the i-SPEED 211 are the perfect high-speed cameras for real-world situations where access, portability and rapid deployment matter. These cameras fit in the palm of your hand; when tethered to a laptop or Ethernet cable, they can fit almost anywhere – under dashboards, in engine compartments, in machinery and more.

Providing a balance between cost, speed, resolution and compact size, the i-SPEED 210 and i-SPEED 211 are ideal high-speed cameras for budget-conscious test laboratories, production lines and test facilities. The high-sensitivity CMOS sensor provides over 1.3 million pixels of resolution at 500 fps -- suitable for slowing down most life science, robotics and machinery applications. The global exposure shutter makes this a true professional high-speed camera capable of recording complicated rotating objects, but at a price that will not break a laboratory budget.

The 1-hour battery that comes standard on the model 211 coupled with a standard laptop make this camera ideal for untethered portable field work. Add a layer of rugged durability with the optional Hi-G shock package.

FEATURES

- SXGA resolution 1280 x 1024 CMOS sensor
- Maximum frame rate of 79,500 frames per second
- Fits in the palm of your hand; the 210 is a 2.5" cube and the 211 is a 3.5" cube
- Excellent light sensitivity
- Full resolution to 500 fps (1,750 fps in quad mode)
- Certified to 100 G shock, 10 G vibration
- Up to 8 GB of memory for long recordings
- Interchangeable C-mount lenses
- 1 hr battery charge while recording, 1.5 hours while in standby (Model 211 only)

SPECIFICATIONS

i-SPEED 210/211

IMAGER

Frame rate at full resolution	500 fps (1,750 fps in quad mode)
Shutter	Global electronic shutter: 2 µs to 1 s
Spectral bandwidth	400 - 900 nm
Amplification	Digital gain 1 - 4 in 8 steps
Maximum resolution	1280 x 1024
Maximum frame rate	79,500 fps
Sensor diagonal	Size 22.9 mm
Pixel size	14 µm square
Bit depth	10 bit
Light sensitivity	2,500 mono / 2,000 color

SYNCHRONIZATION and CAPTURE

210 Memory	2 GB / 4 GB
211 Memory	4 GB / 8 GB
Memory segments	16
Video	AVI (JPG, BMP)
Image sequence	TIFF, BMP, JPG, DNG, PNG

PHYSICAL and ENVIRONMENTAL

210 Dimensions inches	2.5 (W) x 2.5 (H) x 2.6 (L)
Dimensions mm	64 (W) x 64 (H) x 66 (L)
Weight	0.66 lbs (300 g) without lens
211 Dimensions inches	3.7 (W) x 2.7 (H) x 3.6 (L)
Dimensions mm	94 (W) x 69 (H) x 92 (L)
Weight	2.00 lbs (900 g) without lens
Input voltage	10 - 30 VDC
Power consumption	210 / 7.5 w max 211 / 15 w max
Mounting	¼-20
Battery charge	Recording: 1 hr, standby: 1.5 hr*
Lens options	C mount / F mount / FG mount
G shock	Hi-G 100 G shock, 10 G vibration
Temperature °F	41 to 113 operation
Temperature °C	5 to 45 operation
Ethernet	1 Gb
Remote control	via supplied software

CONNECTIVITY

IRIG input	B synchronization*
Network	1 Gb RJ45
Power input	6 pin female connector
Trigger	External signal/switch triggering
Input/output	8 pin female I/O module*
Trigger modes	Video trigger, burst trigger mode

PURCHASING OPTIONS

Sensor	Color / mono
210 Memory	2 GB / 4 GB
211 Memory	4 GB / 8 GB
Package	Standard / Hi-G rated
Warranty	1 yr (std) / 2 yr

*Model 211 only

FRAME RATES, RESOLUTION, and DURATION [in seconds]

FPS	Resolution	2GB	4GB	8GB
500	1280x1024	3.3	6.5	13.1
700	1280x720	3.3	6.7	13.3
1,000	1280x512	3.3	6.5	13.1
1,250	800x600	3.6	7.2	14.3
1,850	640x480	3.8	7.6	15.1
2,000	512x512	4.1	8.2	16.4
5,650	320x240	4.9	9.9	19.8
18,500	128x100	9.1	18.1	36.3
79,500	128 x10	21.1	42.2	84.4

Note: Other resolutions and speeds are available.



info@ix-cameras.com • ix-cameras.com

United Kingdom

Bradley House
Locks Hill
Rochford
Essex, SS4 1BB
T: +44 (0) 1702 540 669

United States

8 Cabot Rd.
Suite 1800
Woburn,
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

Specifications subject to change
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