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

- **SVGA 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 while in standby** (Model 211 only)

iX Cameras

ix-cameras.com

SPECIFICATIONS *i-SPEED*®*210/211*

IMAGER

Frame rate at full resolution	500 fps (1,750 fps in quad mode)
Shutter	Global Electronic Shutter: 2µs to 1s
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 22.9mm
Pixel size	14µm square
Bit depth	10-bit
Light sensitivity	2,500 Mono / 2,000 Color

SYNCHRONIZATION and CAPTURE

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

PHYSICAL and ENVIRONMENTAL

***220* 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
***221* 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 / 7.5w Max
	211 / 15w Max
Mounting	¼-20
Battery Charge	Recording: 1 hr, Standby: 1.5 hr (Model 211 only)
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	1GB RJ45
Power input	6pin female connector
Trigger	External signal/switch triggering
Input/Output	8pin female I/O module (Model 211 only)
Trigger modes	Video trigger, Burst trigger mode

PURCHASING OPTIONS

Sensor	Color / Mono
Memory	2 GB (Std) / 4 GB / 8GB*
Package	Standard / Hi-G rated
Warranty	1 yr (std) /2 yr

*Model 211 only

FRAME RATES, RESOLUTION and DURATION

FPS	Resolution	Record Time(s)		
		2 GB	**4 GB**	**8 GB**
500	1280 x 1024	3.3 s	6.5 s	13.1 s
700	1280 x 720	3.3 s	6.7 s	13.3 s
1,000	1280 x 512	3.3 s	6.5 s	13.1 s
1,250	800 x 600	3.6 s	7.2 s	14.3 s
1,850	640 x 480	3.8 s	7.6 s	15.1 s
2,000	512 x 512	4.1 s	8.2 s	16.4 s
5,650	320 x 240	4.9 s	9.9 s	19.8 s
18,500	128 x 100	9.1 s	18.1 s	36.3 s
79,500	128 x 10	21.1 s	42.2 s	84.4 s

Note: Other resolutions and speeds are available.

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info@ix-cameras.com • ix-cameras.com

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

United States
iX Cameras
8 Cabot Road
Suite 1800
Woburn, MA, 01801
T: 339 645 0778

China
iX Cameras
No.28 Lane 757 Jin Yang Road
Pudong New Area
Shanghai
T: +86 186 215 60553