

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 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 (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	1 Gb RJ45
Power input	6 pin female connector
Trigger	External signal/switch triggering
Input/output	8 pin female I/O module (model 211 only)
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

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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