

## *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)**

## IMAGER

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

## SYNCHRONIZATION and CAPTURE

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

## PHYSICAL and ENVIRONMENTAL

<b>220 Dimensions Inches</b>	2.5 (W) x 2.5 (H) x 2.6 (L)
<b>Dimensions mm</b>	64 (W) x 64 (H) x 66 (L)
<b>Weight</b>	0.66 lbs (300 g) without lens
<b>221 Dimensions Inches</b>	3.7 (W) x 2.7 (H) x 3.6 (L)
<b>Dimensions mm</b>	94 (W) x 69 (H) x 92 (L)
<b>Weight</b>	2.00 lbs (900 g) without lens
<b>Input Voltage</b>	10 - 30VDC
<b>Power Consumption</b>	210 / 7.5w Max 211 / 15w Max
<b>Mounting</b>	¼-20
<b>Battery Charge</b>	Recording: 1 hr, Standby: 1.5 hr (Model 211 only)
<b>Lens options</b>	C mount / F mount / FG mount
<b>G shock</b>	Hi-G 100 G shock, 10 G vibration
<b>Temperature °F</b>	41 to 113 operation
<b>Temperature °C</b>	5 to 45 operation
<b>Ethernet</b>	1 Gb
<b>Remote control</b>	via supplied software

## CONNECTIVITY

<b>IRIG Input</b>	B synchronization*
<b>Network</b>	1GB RJ45
<b>Power input</b>	6pin female connector
<b>Trigger</b>	External signal/switch triggering
<b>Input/Output</b>	8pin female I/O module (Model 211 only)
<b>Trigger modes</b>	Video trigger, Burst trigger mode

## PURCHASING OPTIONS

<b>Sensor</b>	Color / Mono
<b>Memory</b>	2 GB (Std) / 4 GB / 8GB*
<b>Package</b>	Standard / Hi-G rated
<b>Warranty</b>	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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