

## *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

<b>Frame rate at full resolution</b>	500 fps (1,750 fps in quad mode)
<b>Shutter</b>	Global electronic shutter: 2 µs to 1 s
<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 22.9 mm
<b>Pixel size</b>	14 µm square
<b>Bit depth</b>	10 bit
<b>Light sensitivity</b>	2,500 mono / 2,000 color

## SYNCHRONIZATION and CAPTURE

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

## PHYSICAL and ENVIRONMENTAL

<b>210 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>211 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 - 30 VDC
<b>Power consumption</b>	210 / 7.5 w max 211 / 15 w 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>	1 Gb RJ45
<b>Power input</b>	6 pin female connector
<b>Trigger</b>	External signal/switch triggering
<b>Input/output</b>	8 pin female I/O module (model 211 only)
<b>Trigger modes</b>	Video trigger, burst trigger mode

## PURCHASING OPTIONS

<b>Sensor</b>	Color / mono
<b>210 Memory</b>	2 GB / 4 GB
<b>211 Memory</b>	4 GB / 8 GB
<b>Package</b>	Standard / Hi-G rated
<b>Warranty</b>	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.*



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