



FLORIDA RESEARCH INSTRUMENTS, INC.

## HIGH SPEED DIGITAL VIDEO CAMERA MILLISECOND RESOLUTION



VID-CAM-HSG1-MC

: C-Mount High Speed Digital Video Camera, Monochrome

VID-CAM-HSG1-CC

: C-Mount High Speed Digital Video Camera, Color

Record high speed video for fine resolution spatiotemporal analyses. Potential applications include:

- Mammalian acoustic startle reflex response
- Zebrafish C-start response
- Cell motility
- Eyeblink conditioning
- Slow motion analysis



Lens sold separately

### Technical Specifications

Sensor:	1,280 (H) x 1,024 (V) CMOS active area 19.92 mm (H) x 14.34 mm (V) 14 $\mu$ m pixel size
Light Sensitivity:	2,500 ASA monochrome; 2,000 ASA color
Frame Rate:	1–506 fps (frames per second) at full 1,280 x 1,024 resolution, up to 113,000 fps at reduced resolution
Recording Time:	3.3 sec at full resolution; extended recording times are available at reduced frame rates and/or resolutions
Spectral Bandwidth:	400–900 nm
Dimensions:	63 mm x 63 mm x 64.5 mm (C-mount) 63 mm x 63 mm x 92.5 mm (F-mount)
Weight:	280 grams (without lens)
Lens Mount:	C-mount or F-mount
Power Supply:	10–30 V DC
Power Consumption:	7.5 W max.
Interface:	gigabit ethernet

Resolution (H x V)	max fps*
1,280 x 1,024	506
1,280 x 720	718
1,280 x 512	1,008
640 x 480	1,869
512 x 512	2,040
320 x 240	5,670
100 x 100	19,000
100 x 10	81,512

\*Max frame rates at representative resolutions