

PHANTOM Miro® C211

COMPACT HIGH-SPEED CAMERAS

1,800 fps at 1280 x 1024 resolution 2,540 fps at 1280 x 720 High image quality, with low noise

FEATURES & BENEFITS

POWERFUL, YET ECONOMICAL

The Phantom Miro C211 has high frame rates, 240GB internal SSD and Phantom image quality, bringing more capability and flexibility to many common applications from motion analysis to industrial troubleshooting - small economical, and easy to use.

Designed for budget conscious and 1st time users, the C211 has standard Ethernet and BNC cables for convenient connections. Plus, it's small and sturdy enough for tough environments.

PACKED WITH PHANTOM QUALITY

- 5.6 µm pixel and a C-mount is perfect for Microscopy.
- 1.3Mpx resolution with very low noise and high dynamic range, for clear images.
- Many Phantom Features, such as Image Based Auto Trigger, FSync, and Image Processing tools, are included.





FRAME RATES & EXPOSURE	
Top FPS at Max Resolution	1,800
1 Megapixel FPS	2,290
Maximum FPS	67,140
Minimum FPS	50
CAR Increments	64 x 8
Minimum Exposure	5 µs
Electronic Shutter	Global Shutter
Exposure Features	Auto-Exposure

IMAGING	
Sensor Type	CMOS
Maximum Resolution	1280 x 1024
Bit Depth	12-bit
Pixel Size	5.6 µm
Sensor Size	5.73 x 7.16 mm; 9.18 mm Diagonal
ISO Daylight (12232 STD)	Mono 2,500; Color 640
ISO Tungsten (12232 STD)	Mono 6,000; Color 640
Exposure Index	Mono 2,500-12,500; Color 640-3,200
Dynamic Range	59 dB
Readout Noise	8.5 e-

FRAME RATE CHART

Table provides examples of common resolutions and frame rates. The record times shown are for 8GB RAM at the frame rate shown. Duration will be double for 16GB.

Maximum Frame Rate - FPS; (8GB Record time - Sec)

Resolution (H x V)	Miro C211
1280 x 1024	1,800 (2.2)
1280 x 800	2,290 [2.2]
1280 x 720	2,540 (2.2)
768 x 768	2,380 [3.6]
768 x 576	3,150 (3.7)
640 x 480	3,760 [4.4]
512 x 512	3,530 (5.3)
512 x 384	4,650 (6.9)
384 x 288	6,100 (7)
256 x 256	6,810 (9.9)
128 x 64	22,380 (19.2)
64 x 8	67,140 (48.8)



Miro C211



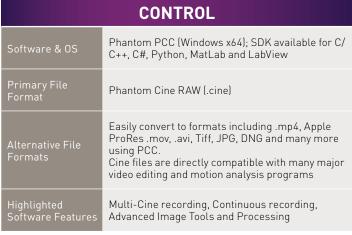
CONNECTIVITY & SIGNALS	
Ethernet	Gb Ethernet accessed through RJ45 connector
Timecode	IRIG Out - Un-modulated
Port Descriptions	Dedicated BNC's: Trigger, SDI Aux 1 BNC: FSync, Strobe, Event, Memgate Aux 2 BNC: Strobe, Ready Mini-XLR: Power
Hardware Trigger	Trigger BNC
Software Trigger	via PCC over Ethernet; via Image Based Auto Trigger (IBAT)
Synchronization	External Sync via FSync
Recording Features	Multi-Cine, Auto-save to Flash, Continuous recording
Video Output	HD-SDI, through BNC connector



Miro C211 Connectors



Miro C211 (connector view) mounted on a microscope



Miro C211 mounted to microscope



MEMORY & STORAGE	
RAM Buffer	8GB, 16GB RAM
Multi-Cine	Up to 63 Partitions
Non-Volatile Media	240GB of internal Flash included

POWER	
AC Power	100-250 VAC, 40W power supply included
Voltage Range	16-28VDC
Power Consumption	13W typical

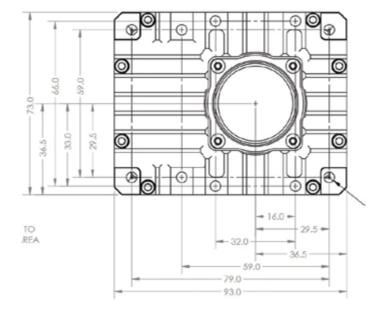
MECHANICAL	
Size	2.9 x 3.65 x 3.25" (73 x 93 x 82.5 cm)
Weight	1.2 lbs (0.54 kg)
Lens Mounts	1" C-Mount
Mounting Points	4 x 1/4-20, 10 x M4 mounting points
Cooling	Active cooling. Quiet mode disables fans during capture.

ENVIRONMENTAL	
Operating Temperature	0 to +50°C
Storage Temperature	-20 to +70°C
Regulatory	Made in the USA CE Emissions - CE Compliant EN 61326-1 CE Immunity - CE Compliant EN 61326-1 FCC - CFR 47, Part 15, Subpart B & ICES-0003, Class A Safety - IEC 60950-1

GLOBAL SUPPORT NETWORK

The Phantom Miro C Cameras are supported by Vision Research's Global Service and Support network, offering PhantomCare Performance Services from multiple sites around the globe. Maximize the value of your Phantom camera with a selection of professional services from which to choose.

Learn more about our service offering at www.phantomhighspeed.com/Support



ABOUT VISION RESEARCH

Focused. Since 1950, Vision Research has been designing, and manufacturing high-speed cameras. Our single focus is to invent, build, and support the most advanced cameras possible.



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