

Scientific Grade CCD Cameras for Bio-Medical Image Applications

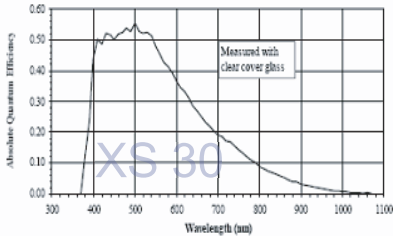


MIRA XS 30/200/400

- High Quantum Efficiency & Luminous Gain
- Progressive Scan 1/3", 2/3", 1" CCD Sensor
- High Resolution, 0.34 / 2.0 / 4.0 Million-Pixel Monochrome Sensor
- IQE (Image Quality Enhancement) Technology
- IEEE 1394 FireWire
- Superior Dynamic Range & S/N Ratio
- High Dynamic Range & S/N Ratio
- C/CS/F Mount Supported
- 12-bit, 18-MHz digitizer

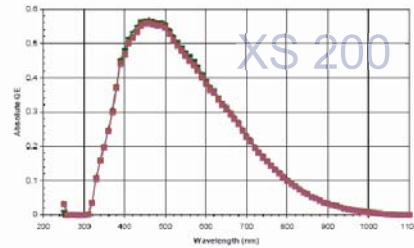
Quantum Efficiency

Monochrome with Microlenses Quantum Efficiency

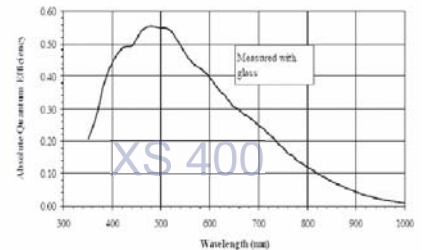


Quantum Efficiency

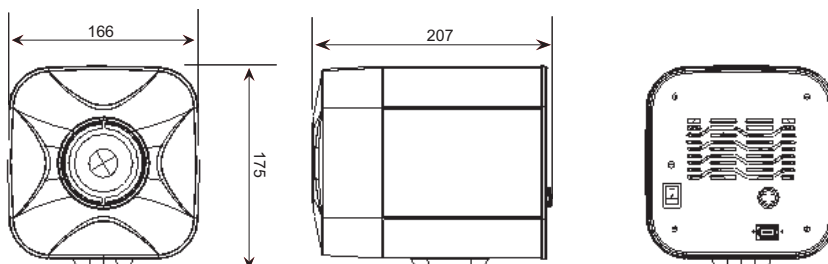
Monochrome Quantum Efficiency (with MAR coverglass)



Monochrome Quantum Efficiency with microlens



Quantum Efficiency of Mira CCD sensor



Get Perfect Bio-images

The Scientific Grade MIRA CCD Cameras are designed to facilitate getting high image acquisitions and analysis for biomedical researches and diagnosis.

With its ultra high sensitivity and superior S/N ratio, you are able to generate reliable and clear images.

MIRA is simple to use and easy to connect, via an IEEE 1394 port, eliminating the inconvenience associated with frame grabbers and PC incompatibility.

Specifications

Product Name	MIRA XS-30	MIRA XS-200	MIRA XS-400
CCD Sensor			
Light-Sensitive Pixels	0.34M ; 640 x 480	2.0M ; 1600 x 1200	4.0M ; 2048 x 2048
Binning Modes	None	2 x 2	2 x 2; 3 x 3
Exposure / Integration Control	1 sec. ~ 30 sec. ; 1sec. Increments	1 sec. ~ 30 sec. ; 1sec. Increments	1 sec. ~ 30 sec. ; 1sec. Increments
Sensor Type	Kodak KAI-0340 progressive-scan interline CCD (monochrome)	Kodak KAI-2020 progressive-scan interline CCD (monochrome)	Kodak KAI-4021 progressive-scan interline CCD (monochrome)
Pixel Size	7.4µm x 7.4µm	7.4µm x 7.4µm	7.4µm x 7.4µm
Linear Full Well	40,000 e ⁻	40,000 e ⁻	40,000 e ⁻
Read Noise	20 e ⁻	16 e ⁻	12 e ⁻
Dark Current	< 0.5 nA / cm ²	< 0.5 nA / cm ²	< 0.5 nA / cm ²
Cooling Available	None	None	None
Cooling Type	None	None	None
Digital Output	12 bits	12 bits	14 bits
Readout Frequency	18MHz	18MHz	18MHz
Frame Rate	30 fps full resolution	7fps full resolution	1.75 fps full resolution
CAMERA			
Computer Platforms/Operating	Windows 2000 / XP	Windows 2000 / XP	Windows 2000 / XP
Digital Interface	IEEE 1394 FireWire	IEEE 1394 FireWire	IEEE 1394 FireWire
Trigger Types	Internal	Internal	Internal
Gain Control	2 to 125x	2 to 125x	2 to 125x
Offset Control	-128 to 127	-128 to 127	-128 to 127
Optical Interface	1/3" , C-mount optical format	3/4" , C-mount optical format	1" , F-mount optical format
Power Requirements	80W ; 5V, 12V	80W ; 5V, 12V	80W ; 5V, 12V
Weight	5 Kg	5 Kg	5 Kg
Warranty	1 year	1 year	1 year
Operating Environment	0 to 50°C (32 to 122°F)	0 to 50°C (32 to 122°F)	0 to 50°C (32 to 122°F)
Storage Temperature	-10 to 60°C	-10 to 60°C	-10 to 60°C
Humidity	Less than 80% non-condensing at 35°C (95°F)	Less than 80% non-condensing at 35°C (95°F)	Less than 80% non-condensing at 35°C (95°F)

* Avegene Life Science reserves the right to change the specifications and prices without any prior notification.

**Effective date: April. 1, 2006



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