

CAMERAS

Specifications/ Camera	MegaCam 810	OptiChemi 610	BioChemi 510	GelCam 310
Mono/Color	Monochrome	Monochrome	Monochrome	Monochrome
CCD Bit Depth	16 bit	16 bit	16 bit	12 bit
File Bit Depth (A/D)	16 bit	16 bit	16 bit	16 bit
Grayscale Range	65,536	65,536	65,536	65,536
Pixel Resolution	3296 x 2472	2184 x 1472	2336 x 1752 or 1690 x 1267	1600 x 1200
Megapixels	8.1, extendable to 16.2	3.2, extendable to 9.6	4.1 with Fixed Lens, extendable to 12.0; 2.1 with Zoom Lens, extendable to 7.4	2.0, extendable to 6.0
Pixel Size (in Microns)	5.5µm x 5.5µm	6.8µm x 6.8µm	5.5µm x 5.5µm	4.4µm x 4.4µm
Cooling Type	-35°C From Ambient; Peltier Cooling	-50°C From Ambient; Peltier	-35°C From Ambient; Peltier Cooling	None
Binning Modes	1x1 thru 8x8	1x1 thru 10x10	1x1 thru 8x8	--
PC Interface Connection	USB 2.0	USB 2.0	USB 2.0	USB 2.0
Quantum Efficiency: Peak & Chemi 425nm	50% & 42%	86% & 53%	50% & 42%	--
Lens Options	50mm f/1.2 Large Format (LF) Motorized Fixed Lens, 30mm f/1.4 LF Motorized Fixed Lens, 28mm f/1.8 LF Motorized Fixed Lens, 24-70mm f/2.8 LF Motorized Zoom Lens, 25mm f/0.95 Manual Fixed Lens (for ChemiDoc-It only)		12.5-75mm Manual Zoom, 12.5-75mm Motorized Zoom, 25mm f/0.95 Fixed	12.5-75mm Manual 12.5-75mm Motorized
UVP System Using Camera	ChemiDoc-It, ChemiDoc- It ² , ChemiDoc-It ^{TS2} , BioSpectrum	BioSpectrum, ChemiDoc-It Series, iBox Scientia	ChemiDoc-It, ChemiDoc-It2, ChemiDoc-ItTS2, BioSpectrum	GelDoc-It ² , GelDoc-It ^{TS2} , BioSpectrum, EC3

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Specifications may vary by imaging system. Contact UVP for details.

* BioChemi 500 Per communications with mfr, they only send us cameras that are -28C. 16 bit mode of the apogee uses the 40k full well which

**** 600 cooling spec from Sensovation**

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FluorCam 220	FluorCam 210	DigiCam 125	DigiCam 120	DigiCam 70	DigiCam 65	DigiCam 60
Monochrome	Monochrome	Color	Color	Color	Color	Color
12 bit	8 bit					
8 bit	8 bit					
256 with option to	256					
1280 X 1024	640 x 480	up to 4272 x 2848	up to 4752 x 3168	4608 x 3456	4320 x 3240	Up to 3648 x 2736
1.3, (extendable to 5.0 - applies to GelDoc-It ^e only)	0.3	12.2	15.1	16.0	14.1	10.0
4.65µm x 4.65µm	7.4 µm x 7.4µm					
None	None	None	None	None	None	None
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USB 2.0	USB 2.0	USB 2.0	USB 2.0	USB 2.0	USB 2.0	USB 2.0
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8-48mm f/1.2 Manual Zoom Lens	8-48mm f/1.2 Manual Zoom Lens	18-55mm Zoom Lens (30mm f/1.4 LF Motorized Fixed Lens in GelMax; was 24mm f/2.8)	18-55mm Zoom Lens	5.0X Optical Zoom	4.0X Optical Zoom	3.3X Optical Zoom
BioDoc-It 220, GelDoc-It ^e	BioDoc-It 210, VisiDoc-It	ColonyDoc-It, DigiDoc-It, MultiDoc-It, ChromaDoc-It, GelMax	ColonyDoc-It, DigiDoc-It, MultiDoc-It, ChromaDoc-It, GelMax	PhotoDoc-It	PhotoDoc-It	PhotoDoc-It

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is 14 bit on CCD

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