



# Biolmaging Systems

## Advanced CCD Camera Specifications

UVP offers a range of high specification CCD cameras configured for use with UVP's Advanced Imaging Systems. The chart below provides detailed camera specifications. Selection of cameras is based on specific imaging applications. A variety of motorized and manual lenses are available for specific cameras. Ask a UVP Biolmaging Systems Specialist for a camera and lens configuration for your imaging applications.

Specifications/ Camera	MegaCam (800)	OptiChemi HR (600)	BioChemi HR (500)	Chemi HR (410)	Gel HR (310)
CCD Bit Depth	14 bit	16 bit	14 bit	14 bit	12 bit
File Bit Depth (A/D)	16 bit	16 bit	16 bit	16 bit	16 bit
Grayscale Range	65,536	65,536	65,536	65,536	65,536
Pixel Resolution	3326 x 2504	2184 x 1472	2048 x 2048	1600 x 1200	1600 x 1200
Megapixels	8.3	3.2	4.2	2.0	2.0
Cooling Type	-50° C From Ambient 4-Stage Peltier	-60° C From Ambient 4-Stage Peltier	-28° C Absolute & Regulated 2-Stage Peltier	-28° C Absolute & Regulated 2-Stage Peltier	None
Chip Source	Kodak 4/3" KAF-8300	Kodak 3/4" KAF-3200ME	Kodak 1" KAI-4021M	Kodak KAI-2020M	Sony 1/1/8" ICX274AL
Binning Modes	1x1, 2x2 ... 10x10	1x1 thru 16x16	1x1 thru 8x8	1x1 thru 8x8	None
Captured Image Size (TIF)	16.3mb	6.3mb @ 16-bit	8.2mb @ 16-bit	3.7mb @ 16-bit	3.7mb @ 16-bit
PC Interface Connection	USB 2.0	Ethernet	USB 2.0	USB 2.0	USB 2.0
Quantum Efficiency: Peak & Chemi 425nm	62% & 44%	90% & 63%	55% & 50%	56% & 50%	---
Lens Options	F/1.2 50mm Large Format (LF) Motorized Lens F/1.4 50mm LF Motorized Zoom Lens F/1.8 28mm LF Motorized Zoom Lens F/2.8 24-70mm LF Motorized Zoom Lens F/0.95 Manual Fixed Lens (for ChemiDoc-It only)				12.5-75mm Zoom lens (Motorized or Manual)



Web Site: [www.uvp.com](http://www.uvp.com)

UVP, LLC 2066 W. 11th Street, Upland, CA 91786 | (800) 452-6788 | (909) 946-3197

Ultra-Violet Products Ltd. Unit 1, Trinity Hall Farm Estate, Nuffield Rd. Cambridge CB4 1TG UK | +44(0)1223-420022

Specifications subject to change without notice.

Reference: AIS Cameras R109