



**PupilCAM<sup>®</sup>**  
1402KEM

**NEW 3.2 Megapixel**

**EduCam  
optimized**



Detailed Specifications (July 2013)

Camera	<b>Image Sensor</b>	KAV	<b>CMOS 3.2 Megapixel</b>	
	<b>Pixel Count</b>	ACT	<b>2048(H) X 1536(V)</b>	
	Frame Rate	Yes	Variable with selected screen size	
			Default 13 fps at max resolution of 2048 X 1536 (3.2)	
			VGA 30 fps at resolution of 640 X 480	
	OSD	Yes	Controlled by software buttons	
	<b>Output Resolution</b>	Yes	<b>HD 1080P</b>	
	Output	Yes	VGA, RGB (DVI, HDMI depending on your computer's configuration)	
	RS232	Yes	via Software interface of computer	
	USB Connection	Yes	USB 2.0 compliant	
	USB Cable	Yes	Factory installed 1.7 m USB 2.0	
	Operating Temperature	Use	0° C - 50° C	
	Lighting	Use	Low Lighting to work with electrical microscopes	
	Power Source	N/A	5 VDC, 200 mA from USB port ONLY meeting green initiative	
	Cross Platform OS	Yes	Windows, Mac, LINUX	
	UVC Driverless	Yes	Works on Windows, MAC, and Linux	
	MSI support	Yes	installation, maintenance, and removal of software via Microsoft server	
	Memory	Yes	Image / Video Image Recording: 400 minimum* average 132,000 images per standard hard drive space of 20GB at 2048 X 1536 Video Recording: 8 minutes minimum* OR 4 hours per standard hard drive space of 20 GB at AVI resolution 640 X 480	
	Advance Imaging	Yes	For Science Studies to include 3D rendering, measurement of varied angles, counting, and much more	
	Average Set up time	N/A	less than 5 minutes for 1 – 1,000 units using MSI for Cross platform software installations	
Free Updates	Yes	For the life of the product on software and hardware		
IWB Compliant	Yes	Interactive White Board Compliant for most current boards.		
Viewing Angle	Yes	60 degree: diagonal, 50 degree: Horizontal		
<b>Connect to Microscope</b>	<b>Yes</b>	<b>Built-in 28mm 10x eyepiece replaces microscope eyepiece</b>		
Lens		N/A		
Controls	Digital Zoom	Yes	Controlled by software buttons up to 16x	
	Focus		Factory Set for optimal viewing	
	White Balance	Yes	Auto or manual controlled by software buttons	
	Color/B&W	Yes	Black and White controlled by software buttons	
	Gamma Adjustment	Yes	Auto or manual controlled by software buttons	
	Negative/Positive	Yes	Controlled by software buttons	
	Image Rotation	Yes	360° in both directions controlled by software buttons	
	Capture/Freeze	Yes	Freeze image via software button	
	Audio Recording	Yes	Synchronized recording via software buttons	
	Image Compression	Yes	JPEG	
	Annotation	Yes	in software or working with Interactive Whiteboard interfaces	



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	Light Control	Yes	Software controlled
	Full Screen	Yes	desktop enabled icon and single click software button via software
	Image Compression	Yes	Software Enabled JPEG
	Split Screen	Yes	Software
	Multiple Camera	Yes	Minimum of 2; up to 8 running simultaneously
	Time Lapse Recording	Yes	Both Image and Video playback
	Drawing	Yes	Multiple pallet tools
	Video Playback	Yes	Through varied programs
	Image Orientation	Yes	Single Click software buttons
	Auto Format Image	Yes	16:9 format and/or 4:3 format auto or manual select by software
	Distance Learning	Yes	Single Click software button UVC compliant
	Export to MS Office	Yes	Drop down to MS Word or EXCEL
Other Information	Size		4.5" X 6.5" X 5.5" / 11.4 cm X 16.5 cm X 14 cm
	Weight		1 lb / 0.45 kgs
	Boxed Size		10" X 6" X 7" / 25.4 cm X 15.2 cm X 17.8 cm
	Boxed Weight		2 lbs / 0.91 kgs
	Additional Parts	N/A	None, all required components are attached or downloadable
	Certifications		CE, FCC, RoHS, ISO 9001-2008
	<b>Warranty</b>		<b>1 Year</b>
Optional Accessories	USB EXTENDER		USB Extender Cable 16ft (4.8m) up to 80ft (24.3m) with 4 pieces
<b>Windows/Mac Software</b>	<b>Applied Vision 4</b>		<b>Free windows XP+ and Mac 10.6+ enabled</b>
	Full Screen		desktop enabled icon and single click software button via software
	Image Compression		JPEG
	Split Screen		Through the software
	Multiple Camera		2 - 8 running simultaneously
	Time Lapse Recording		Both Image and Video playback
	Drawing		Multiple pallet tools
	Video Playback		Through varied programs
	Document Orientation		Single Click Hardware button
	Auto Format Image		16:9 format and/or 4:3 format auto or manual select by software
	Distance Learning		Single Click software button UVC compliant
	Export to MS Office		Drop down to MS Word or EXCEL Vector graphics - .svg estension
<b>Tablet / Smartphone / Desktop</b>	<b>EduCam</b>		<b>Student App for iOS, Android, Mac, and Windows. Collaboration and instant assesment software.</b>