ken-a-vision®
KNOWLEDGE THROUGH VISION

PupilCAM®
1401KEM

NEW 2.07 Megapixel

EduCam optimized

Detailed Specifications (July 2013)

Camera	Image Sensor	KAV	**CMOS 2.07 Megapixel**
	Pixel Count	ACT	**1920(H) X 1080(V)**
	Frame Rate	Yes	Variable with selected screen size
			Default 13 fps at max resolution of 1920 X 1080 (2.07)
			VGA 30 fps at resolution of 640 X 480
	OSD	Yes	Controlled by software buttons
	Output Resolution	Yes	**HD 1080P**
	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 electtrical 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 1920 X 1080 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
	Connect to Microscope	**Yes**	**Built-in 28mm 10x eyepiece replaces microscope eyepiece**
	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

ken-a-vision®
KNOWLEDGE THROUGH VISION

PupilCAM®
1401KEM

NEW 2.07 Megapixel

EduCam optimized

	Image Compression	Yes	JPEG
	Annotation	Yes	in software or working with Interactive Whiteboard interfaces
	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 Support	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 fomat 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		5.125" X 1.75" X 5.125" / 13 cm X 4.5 cm X 13 cm
	Weight		1 lb / 0.45 kgs
	Boxed Size		6" X 5" X 4" / 15.2 cm X 12.7 cm X 15.2 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
	Warranty		**1 Year**
Optional Accessories	USB EXTENDER		USB Extender Cable 16ft (4.8m) up to 80ft (24.3m) with 4 pieces
Windows/Mac Software	**Applied Vision 4**		**Free windows XP+ and Mac 10.6+ enabled**
	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
Tablet / Smartphone / Desktop	**EduCam**		**Student App for iOS, Android, Mac, and Windows.** **Collaboration and instant assesment software.**