ken-a-vision
KNOWLEDGE THROUGH VISION

Digital Vision Viewer™ 7890UM

NEW 3.2 Megapixel

EduCam optimized

Detailed Specifications (April 2011)

Camera	**Image Sensor**	KAV	**CMOS 3.2 Megapixel**
	Pixel Count	ACT	**2048(H) X 1536(V)**
	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
	Field of View		11.5" X 7.5" / 29.21cm X 19.05cm
	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	Yes	Minimal greater than 20 lux NO ACCESSORY LIGHTS REQUIRED
	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	Universal Video Class NO DRIVER required to operate
	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 Software	Yes	For Science, Math or Geography 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 Software 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
	Goose Neck	Yes	360° X 180° Memory Free Surgical Flexible Neck with 5 year warranty on coating
	Lens	Yes	6mm Lens
Controls	Digital Zoom	Yes	Controlled by software buttons up to 16x
	Focus	Manual	Knurled Rubber focus ring
	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
	Light Control	Yes	Low Light achieved through CMOS and varied through software with Memory Control
Other Information	Size		7" x 7" x 25" / 17.8cm x 17.8cm x 63.5cm
	Weight		3.64lbs / 1.65 kgs

ken-a-vision
KNOWLEDGE THROUGH VISION

Digital Vision Viewer™ 7890UM

NEW 3.2 Megapixel

EduCam optimized

	Microscope Adapters		28mm
	Additional Parts	N/A	None, all required components are attached or downloadable
	Certifications		CE, FCC, RoHS, ISO 9001-2008
	Warranty		3 Years Limited
Optional Upgrades	Storage Case		Hard Sided lockable with handle and aluminum frame
	USB EXTENDER		VVC16USB - USB Extender Cable 16ft (4.8m) up to 80ft (24.3m) with 4 pieces
	Dust Cover		Heavy Duty Clear Vinyl Dust Cover
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 Support		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.**