



NEW 5 Megapixel



Comprehensive Scope 2
Digital Siedentöpfung Binocular Head

**EduCam
optimized**

Model # T-19642C / T-19642C-230

Detailed Specifications (August 2012)

Head	Eyepieces	2 – WF10x 19mm eyepiece with built-in coating for humidity and poor climate; 1 with pointer; all fixed to avoid loss and damage	
	Eyepiece tubes	1 – Variable adjustment $\pm 0.20x$ for varied eye strengths.	
	Integrated Top mounted Digital Camera with Monocular 30° incline View Tube	1 -- 30° Angle 360° rotation attached eyepieces comfortable student or teacher viewing with built in USB 2.0 at 3.2 Megapixel resolution camera with USB Jack for direct connection to computer from Head.	
Camera	Megapixel Camera	HD 1080P / 5 megapixel CMOS camera array, color corrected for microscopic application, USB 2.0 (USB 1.1 backward compliant) field corrected to match eyepiece view, Lens correction	
	Resolution	Up to 2595 x 1944	
	Frame Rate Real Time, Full Speed Video	30 fps at 1080P	
	Compatibility	UVC (Universal Video Class) for true plug and play compatibility with Windows, Macintosh and Linux OS systems	
	Power	Low power supplied by USB connection of computer ± 4.0 Volts 250mA light indicator when on at top of unit	
	Built-in	Mounted into monocular, on head; up-gradable for different camera solutions	
	Cable	USB 2.0; 1.8m A:B connector style	
Frame	Aluminum Single Cast body	“Y” shape base for ideal research application	
	Integrated Stow and Go Handle™	Retractable Handle for transport and storage are integrated into the body of the unit.	
	Integrated storage compartment	Storage compartment with built-in receptacle for the external power supply	
	“Table Guard” protection base	Base outlined with resilient polymer to avoid daily damage to the Microscope or the surroundings	
	Illumination	Ken-A-Vision LED cool lighting source with very long life (12,000+ hours), on/off switch, and dimmer rheostat. On/off switch and dimmer are separate, dimmer rheostat is low position light control	
	Power Microscope	Microscope Illumination is Low voltage external power supply 120 ~ 240V 50/60HZ 0.2A \pm DC 7.5V 800MA (stored in frame) detachable	
Optics	Nose Piece	Reversed 4 hole nose piece with 4 position ball bearing action stop, 360 full rotation	
	Objectives	4 – lead free, humidity and climate protected by special coating; manufactured according to DIN: Achromat 4x N.A. 0.10, Achromat 10x N.A. 0.25, Achromat 40x(S) N.A. 0.65 (with built-in spring action tip to avoid crushing of specimen), Achromat 100x(S) N.A. 1.25 oil immersion (with built-in spring action tip to avoid crushing of specimen)	
Stage	Mechanical Stage	Coated 130x 120mm, coaxial lower position separate knobs for movement in x and y direction (30 and 80mm) Scaled at 0.1mm on a vernier scale, locking screw, (stage stop) which limits the vertical hub of the stage, protecting samples and objectives. Rack & Pinion Abbe 1.25 NA & Iris	
	Focus	Low position coaxial focus with left or right hand low drive control; with rotating	
Optional upgrades	Viewing Head	Dual View with 30° incline opposing view Monocular Head Compensation Free Binocular Head Compensation Free Trinocular Head Digital Monocular Head	
	Eyepiece	WF16x, WF20x	
	Achromatic Objective	20x, 60x(S)	
	Plan Objective	4x, 10x, 20x, 40x(S), 60x(S), 100x(S) Oil	
	Semi-Plan Objective	4x, 10x, 20x, 40x(S), 60x(S), 100x(S) Oil	
	Packing	Boxing	Two inner cartons in one outer carton
	Protective Cover	Durable Clear Dust cover with KAV logo	
Weights and Dims	17lbs/7.7kgs - 20" X 16" X 13"/50.8cm X 40.64cm X 33.02cm		
Certificates	Patents	Multiple Patents Pending	
	Quality Certificates	ISO:9001--2000	
	Local Certificates	CE, CSA, RoHS	
	Warranty Guarantee	10 Years against manufacturing faults; 1 year on camera	
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	



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	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.
Camera Controls	Digital Zoom	Yes Controlled by software buttons up to 16x
	Focus	Yes Auto
	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	No Controlled by software buttons
	Image Rotation	Yes 360° in both directions controlled by software buttons
	Capture/Freeze	Yes Freeze image via software button
	Image Compression	Yes MJPEG
	Annotation	Yes Through the software