

Comprehensive Scope 2 Digital Monocular Head 5.0MP HD Camera





Model # TU-19542C / TU-19542C-230

100 0 Am June 1		Student App for iOS, Android, Mac, and Windows on multiple platforms (Tablets,
iOS & Android	EduCam	Smartphones, & Desktop)
Арр		Collaboration and instant assesment software.
Software	Applied Vision 4	Windows XP SP3+ and Mac 10.6.8+ 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 Distance Learning	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 graphicssvg estension
Head	Eyepieces	1– 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 ± 0.20x for varied eye strengths.
	Integrated Top mounted Digital	1 45° Angle 360° rotation attached eyepieces comfortable student or teacher viewir
	Camera with Monocular 45°	with built in USB 2.0 at 5.0 Megapixel resolution camera with USB Jack for direct
	incline View Tube	connection to computer from Head.
Camera	Megapixel Camera	HD 1080P / 5.0 megapixel CMOS camera array, color corrected for microscopic
	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	USB compliant / IEC 62684:2011 charging system standardized on external USB
		to AC adapter 5V1A DC operation included or USB 2.0 computer port or
		backward compliant for legacy power supply 5.5V500mA; 7.5V800mA
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 sto
		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
		mechanism and torque adjustment 1 coarse rotation from minimum to maximum stage
		height. Fine 0.002mm per unit scale mechanism, rubber grips on both fine and coarse
		focus knobs; Fine focusing scale value 0.002mm
Optional	Viewing Head	Compensation Free Monocular Head (SC12MH)
upgrades		Dual View with 30° incline opposing view (SC12DH)



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			Compensation Free Trinocular Head (SC12TH)
			Compensation Free Digital Binocular Head (SC12CBH2)
	Eyepiece		WF16x, WF20x
	Achromatic Objectiv	/e	20x, 60x(S)
	Plan Objective		4x, 10x, 20x, 40x(S), 60x(S), 100x(S) Oil
	Semi-Plan Objectiv	е	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:90012000
	Local Certificates		CE, CSA, RoHS
	Warranty		10 Years against manufacturing faults; 1 year on camera
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	Yes	Auto or manual controlled by software buttons
	Adjustment		
	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	Yes	MJPEG
	Compression		
	Annotation	Yes	Through the software