

**Digital
Comprehensive Scope 2
Dual Purpose
Monocular Head**

NEW 3.2 Megapixel



Model # T-19543C / T-19543C-230

Detailed Specifications (April 2011)

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 / 3.2 (3,200,000) pixel CMOS camera array, color corrected for microscopic application, USB 2.0 (USB 1.1 backward compliant) field corrected to match eyepiece view	
	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 is integrated into the body of the unit.	
	Integrated storage	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	
	Upper Illuminator	Upper light for Opaque and multi-dimensional specimens	
	Power	Low voltage external power supply 120 ~ 240V ± 500 mA (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 2x N.A. 0.05, Achromat 4x N.A. 0.10, Achromat 10x N.A. 0.25, Achromat 40x N.A. 0.65 (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; 46mm working distance	
	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	
Optional upgrades	Viewing Head	Monocular Head	
		Dual View with 30° inclined opposing view	
		Compensation Free Trinocular Head	
		Compensation Free Binocular Head	
	Eyepiece	WF 16x, WF 20x	
		Achromatic Objective	20x, 60x(S), 100x(S) Oil
		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
		Illumination	Halogen bulb 6v/20W, Adjustable Brightness



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Packing	Boxing	Two inner cartons in one outer carton
	Protective Cover	Durable Clear Dust cover with Ken-A-Vision logo
	Weights and Dims	15lbs/6.8kgs - 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
Software	Applied Vision 4 Software	Cross Platform MSI push technology for installation from a server cross platform WIN, MAC, LINUX, NET BOOK approved, with multi language support, measure, compare, capture, amalgamate render, draw, Interactive White Board Compliant.