



**Comprehensive Scope 2
Dual Purpose
Monocular Head
Upper Light**

Model # TU-19311C / TU-19311C-230



Detailed Specifications (January 2014)

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 $\pm 0.20x$ for varied eye strengths.
	Monocular Head	1 -- 45° Angle 360° rotation attached eyepieces comfortable student or teacher viewing
Frame	Aluminum Single Cast body	“Y” shape base for ideal research application
	Integrated Stow and Go Handle™	Retractable Handle for transport are 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 surrounding surfaces
	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	USB compliant / IEC 62684:2011 charging system standardized on external USB to AC adapter 5V--1A DC operation included or USB 2.0 computer port or backward compliant for legacy power supply 5.5V--500mA; 7.5V--800mA
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(S) N.A. 0.65 (with built-in spring action tip to avoid crushing of specimen).
Stage	Floating Stage	12cm x 12cm x 0.7cm modular attachment to frame 2 spring loaded clips for slides; 50mm 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 knobs; Fine focusing scale value 0.002mm
Optional upgrades	Viewing Head	Dual View with 30° incline opposing view (SC12DH)
		Compensation Free Binocular Head (SC12BH)
		Compensation Free Trinocular Head (SC12TH)
		Compensation Free Digital Monocular Head (SC12CMH2)
		Compensation Free Digital Binocular Head (SC12CBH2)
	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	
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