



**ken-a-vision**<sup>®</sup>  
KNOWLEDGE THROUGH VISION

Instruction Manual

PrepScope 2

T-12011C

T-12011C-230

T-12021C

T-12021C-230

CoreScope 2

T-17011C

T-17011C-230

T-17012C

T-17012C-230

T-17021C

T-17021C-230

T-17031C

T-17031C-230



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## Introduction

Thank you for purchasing the PrepScope 2/CoreScope 2. This  $\frac{3}{4}$ -sized compound microscope series is specifically designed to have all the components of our full-sized microscopes with cordless capability that is ideal for classroom and field use. This series allows users to view microscopic specimens under our high-quality objective lenses that will magnify 40-1000 times. This series fits the needs and abilities of intermediate-level students with unsurpassed value.

## Packing Contents



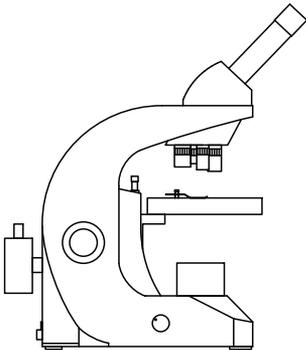
Instruction Manual



Warranty Sheet



Microscope Cover



PrepScope 2 (one focus knob; square fixed stage)

or

CoreScope 2 (Coarse & fine focus; round floating stage)



Power Supply (KAVSPS75)

## Microscope Set-up Guide

The PrepScope 2/CoreScope 2 compound microscope can be set up in a matter of minutes. To get the most out of this amazing teaching tool, follow these step-by-step instructions:

1. After unpacking the box, remove the PrepScope 2/CoreScope 2 from the plastic bag and remove the protective coverings from the objective lenses and the eyepiece(s).
2. Place the microscope on a flat, firm surface.
3. Check the coarse focus knob on either side of the main body support. The coarse focus knobs should turn easily.

**NOTE:** The stage should move freely up and down the main body support when focusing. When you release the knob, the stage should remain stationary, and not slide down the post on its own.

4. To operate the cordless PrepScope 2/CoreScope 2, plug in the microscope to charge for 8 hours.
  - a. Plug in the round pin adapter from the power supply to the back of your microscope.
  - b. Connect the opposite end to a Ken-A-Vision multicharger (Part # SCGN061) or 110V (220V international) electrical outlet.

**NOTE:** With one 8-hour charge, you can use the microscope for up to 40 hours of continuous operation. The cordless microscope can also be operated with the cord plugged into a power source.

- c. When not in use, plug the microscope into a Ken-A-Vision multicharger (Part # SCGN061) that will automatically stop charging once the microscope is fully charged to keep it at the optimal full charge for longer battery-life. The user can charge up to eight (8) microscopes at once.
- d. Should you need a replacement power supply/charger (KAVSPS75), or NiMH battery (VFBATBU2), contact your nearest Ken-A-Vision dealer.

### **T-12011C/T-12011C-230**

The monocular PrepScope 2 compound microscope with COOL LIGHT™ illumination allows for viewing microscopic specimens through a 10x wide-field eyepiece with 4x, 10x, and 40x(S) DIN objective lenses on a square, fixed-plain stage with a 5-hole disc diaphragm and spring-loaded stage clips.

### **T-12021C/T-12021C-230**

The dual view PrepScope 2 compound microscope with COOL LIGHT™ illumination allows two people to look at a specimen through two (2) 10x wide-field eyepieces at the same time or connect a camera to one eyepiece to display on an interactive white board/projector/computer. One eyepiece has a diopter, so the second user can adjust the ring to focus his/her vision, compensating for the differences in vision between the two users. This microscope allows for viewing microscopic specimens through 4x, 10x, and 40x(S) DIN objective lenses on a square, fixed-plain stage with a 5-hole disc diaphragm and spring-loaded stage clips.

### **T-17011C/T-17011C-230**

The monocular CoreScope 2 compound microscope with COOL LIGHT™ illumination allows for viewing microscopic specimens through a 10x wide-field eyepiece with 4x, 10x, and 40x(S) DIN objective lenses on a round floating stage that can be moved in any direction with a built-in condensing lens and spring-loaded stage clips. The microscope has coaxial focusing for both the coarse and fine focus knobs that are on the same axis. The fine focus knob is mounted on the outside of the coarse focus knob allowing easier adjustment of focus for the user without diverting one's attention from the prepared slide.

### **T-17012C/T-17012C-230**

The monocular CoreScope 2 compound microscope with COOL LIGHT™ illumination allows for viewing microscopic specimens through a 10x wide-field eyepiece with 4x, 10x, 40x(S), and 100x(S) DIN objective lenses on a mechanical stage with spring-loaded stage clips, an adjustable light dimmer and a built-in condensing lens. The microscope has coaxial focusing for both the coarse and fine focus knobs that are on the same axis. The fine focus knob is mounted on the outside of the coarse knob allowing easier adjustment of focus for the user without diverting one's attention from the prepared slide.

### **T-17021C/T-17021C-230**

The dual view CoreScope 2 compound microscope with COOL LIGHT™ illumination allows two people to look at a specimen through two (2) 10x wide-field eyepieces at the same time or connect a camera to one eyepiece to display on an interactive white board/projector/computer. One eyepiece has a diopter, so the second user can adjust the ring to focus their vision, compensating for the differences in vision between the two users. This microscope allows for viewing microscopic specimens through 4x, 10x, and 40x(S) DIN objective lenses on a round floating stage that can be moved in any direction with a built-in condensing lens and spring-loaded stage clips. The microscope has coaxial focusing for both the coarse and fine focus knobs that are on the same axis. The fine focus knob is mounted on the outside of the coarse focus knob allowing easier adjustment of focus for the user without diverting one's attention from the prepared slide.

### **T-17031C/T-17031C-230**

The binocular CoreScope 2 compound microscope with COOL LIGHT™ illumination allows for viewing microscopic specimens with both eyes through two (2) 10x wide-field eyepieces at 4x, 10x, 40x(S), and 100x(S) DIN objective lenses on a mechanical stage with spring-loaded stage clips, an adjustable light dimmer, and a built-in condensing lens. The left and right eyepiece has a diopter to allow the user to focus the left eye once the right eyepiece is in focus. Adjusting the diopter allows for the difference in vision between the users two eyes. The microscope has coaxial focusing for both the coarse and fine focus knobs that are on the same axis. The fine focus knob is mounted on the outside of the coarse focus knob allowing easier adjustment of focus for the user without diverting one's attention from the prepared slide.

# Specifications

Product configuration		T-12011C	T-12021C
<b>Stand/Frame</b>			
SC601C	PrepScope 2 - Coarse focus stand 3 hole nose piece	X	X
SC1002C	CoreScope 2 - Coarse and fine focus stand 3 hole nose piece		
SC1022C	CoreScope 2 - Coarse and fine focus stand 4 hole nose piece		
<b>Standard Features</b>			
	Charger Docking Area	X	X
	Built-in Handle	X	X
	Green Battery™	X	X
	Cordless Rechargeable	X	X
	COOL LIGHT™ illumination	X	X
	3/4 size Microscope	X	X
	3 hole reversed nose piece	X	X
	4 hole nose piece		
<b>Heads</b>			
SC1002MH	Monocular Head with 10x eyepiece Student Proofed	X	
SC1002DH	Dual View Head 10x eyepieces Student Proofed		X
SC1002BH	Binocular Head with 10x eyepieces Student Proofed (slide)		
SC1002CMH	Monocular Head with built in digital 1.3 megapixel camera		
<b>Stage</b>			
SC601SS	Prep/Core Standard Stage with 5 hole disc Diaphragm	X	X
SC1001FS	Prep/Core Floating Stage with built in Condensing Lens		
SC1001MS	Prep/Core Mechanical Stage with Abbe Condenser		
<b>Detail Individual Configurations</b>			
<b>Eyepieces</b>			
SC100EP5	5x		
SC100EP10	10X	X	X
SC100EP15	15x		
SC100EP20	20x		
<b>Objectives</b>			
SC1001OB4	4x	X	X
SC1001OB10	10x	X	X
SC1001OB40	40x	X	X
SC1001OB60	60x		
SC1001OB100	100x		
<b>Optional</b>			
SCGN061	Multicharger 2		
KAVCOVER	Dust Cover		
	AV NET		

Product configuration		T-17011C	T-17021C	T-17031C	T-17012C
<b>Stand/Frame</b>					
SC601C	PrepScope 2 - Coarse focus stand 3 hole nose piece				
SC1002C	CoreScope 2 - Coarse and fine focus stand 3 hole nose piece	X	X		
SC1022C	CoreScope 2 - Coarse and fine focus stand 4 hole nose piece			X	X
<b>Standard Features</b>					
	Charger Docking Area	X	X	X	X
	Built-in Handle	X	X	X	X
	Green Battery™	X	X	X	X
	Cordless Rechargeable	X	X	X	X
	COOL LIGHT™ illumination	X	X	X	X
	3/4 size Microscope	X	X	X	X
	3 hole reversed nose piece	X	X		
	4 hole nose piece			X	X
<b>Heads</b>					
SC1002MH	Monocular Head with 10x eyepiece Student Proofed	X			X
SC1002DH	Dual View Head 10x eyepieces Student Proofed		X		
SC1002BH	Binocular Head with 10x eyepieces Student Proofed (slide)			X	
SC1002CMH	Monocular Head with built in digital 1.3 megapixel camera				
<b>Stage</b>					
SC601SS	Prep/Core Standard Stage with 5 hole disc Diaphragm				
SC1001FS	Prep/Core Floating Stage with built in Condensing Lens	X	X		
SC1001MS	Prep/Core Mechanical Stage with Abbe Condenser			X	X
<b>Detail Individual Configurations</b>					
<b>Eyepieces</b>					
SC100EP5	5x				
SC100EP10	10X	X	X	X	X
SC100EP15	15x				
SC100EP20	20x				
<b>Objectives</b>					
SC1001OB4	4x	X	X	X	X
SC1001OB10	10x	X	X	X	X
SC1001OB40	40x	X	X	X	X
SC1001OB60	60x				
SC1001OB100	100x			X	X
<b>Optional</b>					
SCGN061	Multicharger 2				
KAVCOVER	Dust Cover				
	AV NET				

## Troubleshooting

This section provides many useful tips on how to solve common problems while setting up or using the PrepScope 2/CoreScope 2:

I can't see an image. I only see a partial image.

- Check to see if the power supply is plugged into an outlet or charged if using cordless.
- Check to see if the LED lights are turned on by pushing the power switch on the back of the microscope.
- Turn the disc diaphragm to allow more light on the prepared slide.
- Check to see if the dimmer switch is turned to allow the intensity of light to increase.
- Check to see if the objective lens is clicked into place.

It is difficult to get an image in focus.

- Adjust the coarse focus knobs slowly.
- Change the objective lens until you hear it click in place.
- Adjust the eyepieces and the diopter slowly until you see one focused image.
- Check to see if there has been damage to the objective lenses or eyepiece(s). If the lens/eyepiece is dirty, use lens paper and distilled water to rub gently to clean.

**NOTE:** Never rub the lens/eyepiece when it is dry. This can cause static charge that will attract dirt.





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