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Megapixel Digital Comprehensive Scope 2 (USB 2.0)

Instruction Manual

T-19541

T-19641

Thank you for purchasing Megapixel Digital Comprehensive Scope 2. This is a high quality microscope comes with a built-in 1.3 megapixel (CMOS) camera which will allow you to record single images, and time-lapse movies and movies to your computer using the USB 2.0 connection. Utilizing your computer's projection connection (usually a VGA connection) images can simultaneously be projected onto a screen, LCD or Plasma Monitor or to a DVR for presentation to a larger audience. Combined with Ken-A-Vision's unique Applied Vision™ Software, you have purchased a powerful and uniquely outstanding product for microscopy. The software will also allow Network streaming, so that images may be easily shared.

Specifications

Ken-A-Vision Product #	T-19541	T-19641
1.3 Megapixel CMOS Camera	X	X
Resolution - Full Screen Imaging 1280 x 1040	X	X
USB 2.0 Connection	X	X
Applied Vision™ Software	X	X
Head Type	MONOCULAR	BINOCULAR
10x Widefield Eyepiece(s) with pointer	X	X
Dioptr on one Eye tub	X	X
Objectives (DIN) 4x, 10x, 40x, 100xR	X	X
Coarse/fine Focal Adjustment	X	X
Reverse Nosepiece - easy slide insertion, manipulation	X	X
Abbé Condenser with Iris Diaphragm	X	X
Mechanical Stage (sub-stage) X-Y	X	X
Ken-A-Vision Cool Lighting Patented LED bright light	X	X
Dimmer (Rheostat) - easy adjustment transmitted light	X	X
Carrying handle	X	X
Cordless Microscope charger; storage compartment	X	X
Comprehensive 2 Microscope (Cordless)	X	X

Microscope Preparation

Carefully unpack your microscope from the packing carton.

Using the charging adapter provided, in order to charge the batteries of the microscope itself, plug the pronged end into your electrical source and the round end into the "5V DC Plug" at the bottom rear of the microscope unit. The base of the Ken-A-Vision Comprehensive Scope 2 microscope is a cordless unit, which once charged will operate for up to 40 hours on one charge. The batteries should immediately be charged to ensure longevity of use.

NOTE: It is the property of batteries to 'leak' charge over time. **ALWAYS Store Unit Charged** after any use over six hours. Storage for a long period of time of a discharged unit may result in the inability of the batteries being recharged and then needing replacement. Care of batteries will give them a long life span.

While charging the unit (or later):

- Make sure all eyepieces are in place.
- Carefully check that the objective lenses are firmly screwed into the nosepiece. (DO NOT OVERTIGHTEN).
- Check the fine and coarse focus 'tension'. The knobs are oversized and were designed for ergonomic ease of gripping. Both knobs should turn easily to change focus.
- The stage should not drift or slip down on its own, at any time.
- Check the stage stop safety feature. The stage stop is a thumb screw with a lock nut found just behind the stage. To check the stop, first place a prepared slide in position for viewing. Move the coarse focus until the object and stage are as close together as they can be. Look at the slide and turn the 40x objective into place. This objective should be very close to the slide, but not touching. If objective lens does not fit over the top of a standard, cover slip covered slide, then stage stop is out of adjustment.
- Turn on microscope; be sure dimmer (rheostat) changes the amount of light coming from the illuminator.

Microscope itself should now be ready for use.

Camera Preparation

Plug the narrower end of the USB 2.0 cord into the back of the camera body. Plug the wider end of the USB 2.0 cord into the USB port of your computer.

Follow instructions for installing Applied Vision™ Software onto your computer. Once software is loaded, click on the Applied Vision Icon on your desk top and you should see an image from the microscope camera. If no picture first be sure you have turned on the light of the microscope and both

ends of the USB cord are attached. If either were not true, you may have to 're-boot' the Applied Vision™ Software to activate the camera.

The camera receives its power from the USB connection, there is no power cord. The camera draws NO power from the batteries or microscope charger. Therefore the environmental carbon 'footprint' of the camera itself is zero, since its source of power is the computer. The computer does have an environmental carbon 'footprint', but even this is very minimal, and the camera is not increasing the computer 'footprint'.

Accessories

If you are interested in purchasing accessories or replacement parts for your T-19541 or T-19641, visit the Ken-A-Vision Web site, <http://store.kenavision.com/catalog/> or contact your local Ken-A-Vision Dealer.



Ken-A-Vision reserves the right to make design improvements and other changes in accordance with the latest technology. There is no obligation to make changes in products already manufactured. Patents Pending Copyright 2009 Ken-A-Vision Corporation.



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