

# AmScope 40X-1600X Clinical Laboratory Trinocular Microscope

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Presented to  
Stanton Independent School District  
Department of Sciences  
Stanton, Texas

Presented by  
Straub Corporation  
Stanton, Texas

April 8, 2013



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Stanton Independent School District  
School Board Members  
200 North College Street  
Stanton, Texas 79782  
(432) 756-2244

Straub Corporation  
Raymond L Straub Jr., P.G.  
P.O. Box 192  
Stanton, Texas 79782  
(432) 756-3489

Distinguished Members of the Board,

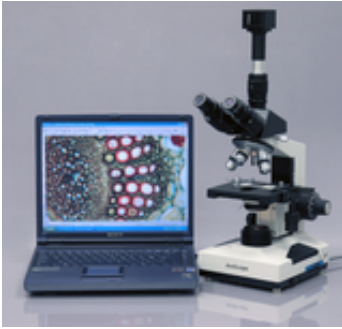
Straub Corporation realizes the importance of education, especially a strong emphasis in language arts, mathematics, and science. We also realize the fiscal constraints of providing the necessary and required elements for all areas of education. As a result, sometimes, sacrifices have to be made on necessary but perhaps more extravagant equipment. With a desire to help provide our future young scientists with the tools they need to succeed, we at Straub Corporation would like to present the Stanton Independent School District, Department of Sciences, this new AmScope 40X-1600X Clinical Laboratory Trinocular Microscope with reference slides.

It is our desire that our educators in the Stanton Independent School District, grades K-8 will be able to utilize this equipment in their presentation of materials. We hope that it will aid educators in helping students to meet and exceed the new rigorous state curriculum guidelines and testing criteria, specifically in the sciences in elementary and junior high in Texas.

We appreciate the teaching enthusiasm of Mrs. Charise VanCuren, who originally brought to our attention the need for advanced scientific equipment in the elementary and junior high classrooms.

Thank you,

  
Raymond L Straub Jr., P.G.



## 40X–1600X Lab Clinic Vet Trinocular Microscope with USB Digital Camera

### Model T490A-P

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This digital microscopy system includes a T490A trinocular microscope and a 640x480 pixel USB2.0 color digital camera. It is a perfect laboratory instrument for clinics, Vets, Doctors, and professional students.

The T490A features a unique "simul-focal" optical system with an adjustable trinocular port to enable well-focused clear images on your PC or video screen while simultaneously obtaining sharp, focused images through the eyepieces. Most trinocular microscopes allow you to view either through the trinocular port or the eyepieces only, forcing you to switch between the two. Since these trinocular ports are not "simul-focal" with the rest of the microscope optical system, you have to re-focus the microscope after each switch. The T490A, however, erases this step by providing "simul-focal" viewing. Especially handy for teaching demonstrations, clinical examinations and laboratory applications, the "simul-focal" feature allows your students or colleagues to view clear images simultaneously while you work through the eyepieces. In addition, the T490A's industry standard 23mm photo port can be converted into a C-Mount port by attaching the included C-mount adapter, allowing you to attach most microscope digital cameras and video systems on the market.

The T490A includes a 30-degree inclined 360-degree swiveling, compensation-free trinocular head, a 3-D mechanical stage, and an intensity-variable halogen illumination system. The USB2.0 digital camera offers 640x480 pixel resolution and is compatible with Windows 2000/XP/Vista/7. Its built-in reduction lens enables the same field of view images on your PC screen as those seen through the eyepieces (20x). With life-time free upgrading, the multi-functional user-friendly software included allows you to preview live images, record videos, capture still pictures, edit captures, or save them in BMP, TIFF, JPG, PICT, PTL and other formats very easily, as well as conduct length, angle, area, and other measurements. This microscopy package is great for teaching or training Demonstration. Made by the same OEM supplier that provides optical instruments for Leica, Zeiss, Nikon and Olympus, it arrives brand new in a factory sealed box and retails for more than \$1,800.

### Features:

- "Simul-focal" Optical System Allows Simultaneous Viewing Through the Photo Port and Eyepieces
- Adjustable Parfocal Trinocular Port
- Industry Standard 23mm Photo Port and C-mount Port
- High Quality 640x480 Pixel USB2.0 Color Digital Camera
- Both Captures Microscope Images and Streams Live Video on Your PC Screen
- Displays 640x480 Pixel Real-time Clear Images with High Resolution
- Saves still images in BMP, TIFF, JPG, PICT, PTL and other formats
- Measures lengths, angles, areas and etc. across images
- Edits images on your computer in a manner similar to PhotoShop
- User-friendly software compatible with Windows 2000/XP/Vista/7
- Life-time free software upgrading
- Quick and easy USB2.0 connection
- 30-Degree Inclined, 360-Degree Swiveling Compensation Free Trinocular Head
- Photo/Video Capability with Adjustable 23mm Photo Mount for "Simul-Focal" Image System
- Large 3-D Double Layer Mechanical Stage with Stain Resistant Finish
- Low-Position Coaxial Stage Movement Control Knobs
- Coaxial Coarse & Fine Focusing with CA Knob Tension Control

- Fully Coated Optical System with High Resolution
- Eight Magnification Settings: 40X-64X-100X-160X-400X-640X-1000X-1600X
- Upward Stage Stopper to Protect Slides and Objectives
- Abbe Condenser with Iris Diaphragm & Filters
- Rack and Pinion Adjustment for Condenser
- Built-in Halogen Illumination System with Variable Intensity
- Dual Focusing Control Knobs
- Full Optical Glass Elements
- Precise Ground Glass Lenses
- All Metal Mechanical Components.
- Adjustable Interpupillary Distance
- Adjustable Diopter on Ocular
- Solid Metal Frame Construction with Stain Resistant Enamel Finish
- CE and GS Approvals
- Excellent Five (5) Year Factory Warranty

### **Specifications:**

- Nosepiece: quadruple
- Mechanical Tube Length: 6-5/16" (160mm)
- Head: 360-degree swiveling compensation free trinocular head inclined at 30-degree
- Eyepieces: WF10X and P16X
- Achromatic Objectives: 4X, 10X, 40X (spring), 100X (spring, oil)
- Stage Dimensions: 5-1/2"x 5-1/2" (140x140mm)
- Stage Traveling Range: 2-15/16"x 1-3/4" (75x45mm)
- Focusing Range: 1-3/16" (30mm)
- Division of Fine Focusing: 0.0000787" (0.002mm)
- Abbe Condenser: NA=1.25 with rack and pinion focusing control
- Illumination: 6V/20W halogen bulb
- Power Supply: 110V (220V version available), CE & GS certified
- Accessories: 6V/20W spare halogen bulb, bottle of immersion oil, blue, green & yellow filters
- Microscope Dimensions: 12" x 9" x 16"
- Weight: 20 lbs

### **Packing List:**

- One Trinocular Compensation-Free Head with 23mm Adjustable Photo Port and C-Mount Adapter
- One Microscope Body with Frame, Base and Halogen Illumination System
- Four High Quality DIN Objectives, 4X, 10X, 40X and 100X
- Two Pairs of Widefield Eyepieces, WF10X and P16X
- Three Color Filters
- One Dust Cover
- One Power Cord
- One 6V/20W Spare Halogen Bulb
- One Spare Fuse
- Immersion Oil
- User's Manual
- One 640x480 USB2.0 Microscope Digital Camera
- Three Mounting Adapters
- One USB Cable
- One CD with Driver, Software and User's Instructions

### **Optional Accessories:**

- [Optional WF10X Eyepiece with Reticle for measurement](#)
- [Optional WF20X Eyepiece for the Extra Magnification Powers: 80X, 200X, 800X & 2000X](#)
- [Optional 20X DIN Objective for Extra Magnification Settings: 200X & 320X](#)

- [Optional 60X DIN Objective for Extra Magnification Settings: 600X & 960X](#)
- [Optional 1.3M USB2 Digital Camera for PC Display](#)
- [Optional 3.0M USB2 Digital Camera for PC Display](#)
- [Optional 5.0M USB2 Digital Camera for PC Display](#)
- [Optional 8.0M USB2 Digital Camera for PC Display](#)
- [Optional 9.1M USB2 Digital Camera for PC Display](#)
- [Optional Dry Darkfield Condenser](#)
- [Optional Oil Darkfield Condenser](#)
- [Optional Phase Contrast Kit](#)
- [Optional Turret Brightfield & Darkfield Phase Contrast Kit](#)
- [Optional Temperature Control Stage Warmer](#)
- [Optional Blank Slides & Coverslips](#)
- [Optional Prepared Slide Sets](#)
- [Optional Halogen Illuminating Bulb](#)
- [Optional Aluminum Carrying Case](#)
- [Optional Hard Wood Storage Case](#)







