

### Trinocular Microscope, Model # SMAPRO52X Series



#### FEATURES:

- Stereo and digital view simultaneously
- Clear image and rich colors
- Fast responding time
- Various output formats
- Magnification continuously adjustable
- Digital data recording and transferring
- Various eyepieces and objective lenses

#### APPLICATIONS:

- Inspection
- Monitoring
- Training
- Digital data recording

#### DESCRIPTION:

**SMAPRO52X series trinocular microscopes** are the ultimate optical tools for microelectronics and many other industries that involve small parts handling and manufacturing. They integrate the features of stereo and digital microscope in one product. Therefore, one can view stereo and digital images of the objects simultaneously. Model **SMAPRO52X series trinocular microscopes** consist of a trinocular microscope body, two 10x eyepieces, one 0.5x objective lens, a CCD camera, a standard stereo microscope boom stand and a 60 piece LED microscope ring light. The liquid crystal display monitor or TV receiver is not included, which allows customer to choose per his/her own preference.

**SMAPRO52X series trinocular microscopes** deliver unbeatable optical performance for product inspection, operator training and production flow monitoring. In addition, while model **SMAPRO52U** can take still digital photos and mini movies for record keeping and documentation, model **SMAPRO52V** can bring two different scene or level images to one display for comparison. This function enhances the inspection process dramatically.

#### SPECIFICATIONS:

Name	Parameters
Microscope Ring Light Input Voltage	100 to 240 VAC/+12VDC
Microscope Ring Light	60 piece LED type, model SW-LIT-L60
Focus Range	5.9" (150 mm) minimum
Magnification Range	0.6x to 5x adjustable
Eye Pieces Distance	1.9 to 3.0" (48 to 75 mm) adjustable

**SPECIFICATIONS (continued)**

Name	Specifications
Optional Eye Piece Available	10x, 15x, 20x, 25x
Optional Objective Lens Available	0.5x, 0.75x, 1.0x, 1.5x, 2.0x
View Angle Range	60 to 90° adjustable
Video Output Format	See below for details.
Stereo Microscope Boom Stand (W x D)	15" x 12" (127mm x 305mm)
Shipping Weight	16 Lbs (7.2 Kg)

Name	SMAPRO52N	SMAPRO52U	SMAPRO52V
Video Format	NTSC	USB	VGA
Audio Format	FM-Mono	USB	N/A
Need Computer?	No	Yes	No
Computer Specifications	N/A	CPU 2.6G, RAM 512M Windows XP or above	N/A
Resolutions	520 Lines	2.0 Mega Pixels	1.3 Mega Pixels
Display Resolution*	720 Dpi	Up to 1600*1200	Up to 1024*768
Can Take Photo/Video?	No	Yes	No
Frames/Sec	Instantaneous	30F/S for 640*480 Pixels	45F/S for 640*480 Pixels
Can Perform Sector Display?	No	No	Yes
Freeze Photo?	N/A	Yes	Yes
Power Input	110 VAC/+12 VDC	USB	110 VAC/+5 VDC

**Note:**

- Higher resolution will slow down the frames refresh speeds. For example, the frames per second of **SMAPRO52U** will decrease to 15 frames per second if display resolution is set at 1280\*1024.
- Additional specifications of possible combinations of various eyepiece and object lens can be found in page 15 of this catalog.