



Tools for
Advancing
Innovation™

Digital Microscope

Selection Guide



Advantages of Digital Microscopes

Ultra Sharp Digital Magnification

Microscope technology has rapidly advanced over the years, today's microscopes can magnify much smaller objects. Digital microscopy camera technology enables you to inspect any object, small or large, in ultra sharp digital magnification. With digital microscopes, lenses and positioning are getting increasingly better. Although, it is not as vivid as 3 dimensional imagery like stereo microscopes offer the 2 dimensional image being projected onto monitors is becoming extremely close with new technology. Accessories like tilt tables and LED lighting help the 2D image become more vivid and 3D.

USB and HDMI Outputs

Digital microscopes take the technology even further with microscope cameras and the integration of USB capabilities. Live snapshots can now be taken and saved to an inserted USB memory stick or the internal storage of the microscope for quick access. Saving an image to internal storage makes it easy to access for later inspection or to share the inspection images with others not in the lab or office.

Ergonomically Designed for Ease of Use

Working with digital microscopes can reduce overall inspection time. With the image being projected onto a monitor there is no more neck or eye strain from bending down and looking through the binocular lenses, this gives ease to long term usage. Having the image be magnified on a screen also allows for multiple viewers at the same time which better collaboration and teaching techniques.

Versatile Accessories

Most digital microscopes come with a variety of accessories to better each inspection by project. Accessories can range from different attachable mounts to creating a variety of angles and working distance with different table pieces as well as, LED lighting accessories to minimize shadows and hidden elements to different tables for placement below the microscope to help focusing and catching the object at different views.



Digital VS Stereo

The Breakdown

	Digital Microscope	Stereo Zoom Microscope
Ergonomic	Yes	No
3D Image	No	Yes
Image Depth	No	Yes
Image Capture	Yes	Selected Few
Measure	Yes	Selected Few
Price Range	\$216 - 4,995	\$1,276 - 4,348

SharpVue

Inspection Systems

SharpVue PLUS

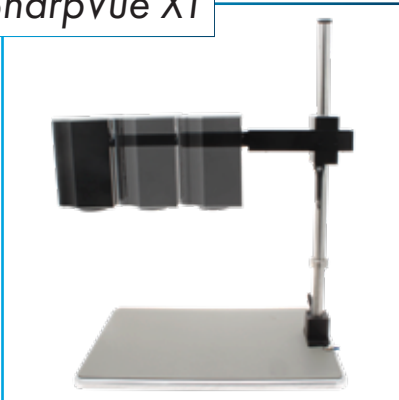


Item #26700-136

- Magnification: 30x optical and 300x digital
- Ultra Sharp picture quality
- ESD safe
- Built in LEDs with on/off switch
- Fixed working distance of 9 inches
- Auto focus camera within range
- HDMI and USB port to save images straight to drive *no computer required*
- IR remote for on screen settings

BEST FOR: visual inspection of circuit boards, analysis of seeds and grains, automotive rework, inspection of metal parts and cutting tools, pharmaceutical lab work, forensics and clinical applications and more.

SharpVue XT



Item #26700-137

- Magnification: 30x optical and 300x digital
- Ultra Sharp picture quality
- ESD safe
- Large base 11.5" x 17.7"
- Adjustable 6" - 16.5" horizontal and up to 22" vertical positioning
- Auto focus camera within range
- HDMI and USB port to save images straight to drive no computer required
- IR remote for on screen settings

BEST FOR: visual inspection of circuit boards, analysis of seeds and grains, automotive rework, inspection of metal parts and cutting tools, pharmaceutical lab work, forensics and clinical applications and more.

SharpVue Accessories :



SharpVue Tilt Table #26700-135-TTB

- 360° of tilt area
- Tilts up to 45°
- ESD Safe



Replacement Remote Control #26700-135-RC

- In case of loss or damage of remote we sell ones separately for the SharpVue PLUS and XT



SharpVue 4D Lens #26700-135-4D

- Extends magnification to 2x-52x optical and up to 580x digital



SharpVue XT Gliding Stage #26700-135-XYTB

- Smooth gliding table for controlled movement
- Can be moved in increments for precise measuring
- ESD Safe



LED Dual Gooseneck Spotlight Illuminator #26537

- External light source
- Provides bright and even lighting
- 6500k cool light LED illumination
- Versatile adjustable illumination



22" LCD Monitor #26700-406

- 22" LD monitor
- 1080p HD, HDMI inputs

Auto Focus Inspection Systems

AutoFlex



Item #26700-121-PRO

- Superior optics: 7x-70x magnification at a 6 inch working distance
- Achieve instant auto focus – no need to adjust the focus of the lens
- Ultimate flexibility: 18 inch flexible arm with a 360 ball joint provides limitless positioning options
- Crystal clear viewing: 22 inch 1080p monitor
- No computer required for image processing
- LED ring light with 96 ultra-bright, adjustable LEDs
- Eliminates the fatigue and eye strain associated with frequent microscope use

Just The Cam :

Mighty Cam PRO



#26100-258

- 1080p Full HD Imaging at 60 FPS
- USB+HDMI Outputs And SD Card Port
- Built-in measurement software - No PC required
- Advanced measurement software included for computer connectivity
- Achieve instant auto focus
- Enhances productivity - eliminates eye strain and body fatigue
- Save high resolution image/video files directly to SD card



Aven also offers many different Mighty Cam PRO systems..
To explore our Mighty Cam PRO bundles visit our website www.aventools.com



Cyclops

Digital Microscopes

Cyclops HDMI



Item #26700-401

- Magnification ranges up to 132x on a 21.5" HD monitor.
- 2-megapixel sensor provides operators with exceptionally crisp, high resolution images.
- Articulating Arm Stands available in 17-inch and 12-inch models.
- 10x Objective lens available for purchase offering up to 960x magnification.
- Autofocus within range
- IR remote control
- HDMI output to allow connection to HD monitor *no computer required*

BEST FOR: laboratory use, Industrial Inspection, quality control, life sciences, and green technology

Cyclops 2.0



Item #26700-422

- Magnification 13x-140x
- Continuous collaboration
- Autofocus within range
- New and improved software and camera sensor
- New dual screen mode using HDMI and USB sensor
- 30 LED ring light
- IR remote control
- HDMI output to allow connection to HD monitor *no computer required*

BEST FOR: laboratory use, Industrial Inspection, quality control, life sciences, and green technology



Cyclops Accessories :



18" Flex Arm
#26800B-558

- 360° Swivel head and magnetic base
- Tilt, rotate and position
- 1/4" Screw mount



Cyclops Objective Lens 4x w/ Polarizer
#26700-400-PL01

- Helps reduce glare and reflection
- 4x Magnification



Articulating Arm
#26700-400-AAS

- 15.5" post 20.5" articulating arm
- Ball joint rotates camera 360°



Cyclops 4x Long Focus Lens
#26700-400-L-4XLF

- 4x Long Lens offers higher magnification at the same working distance



Dual Flexible LED Gooseneck Attachment
#26700-400-GN04

- Designed to be used with Articulating Arm ^^
- Two adjustable LED Lamps
- Provides ultra bright illumination where needed



Cyclops Objective Lens 4x
#26700-400-L4X

- Replacement lens to increase magnification 4x



Cyclops Laser Pointer
#26700-400-GN02

- Screws at base of cyclops stand
- Flexible gooseneck arm
- Highlights specific areas of your inspection



Cyclops Objective Lens 10x
#26700-135-TTB

- Optional lens addition to increase magnification 10x

Click here to further explore
Avens Cyclops Systems

Mighty Scope

Digital Microscopes

MightyScope HD



Item #26700-230

- Magnification 3x-270x optical and up to 540x digital
- Portable / hand-held
- HDMI output connects directly to HD monitor *no computer required*
- Built in LED lighting
- Customize with various stands and lighting arrangements
- EZ image software

BEST FOR: engineers, scientists, doctors, Labtech's, forensic examiners, educators and more

MightyScope 5M

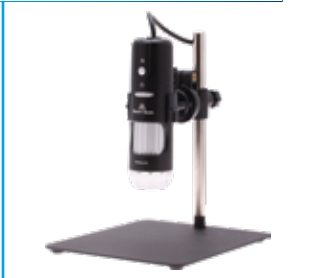


Item #26700-209

- Magnification 10x-50x optical and up to 200x digital
- Portable / hand-held
- Easy plug-and-play USB connection
- Built in LED lighting
- Customize with various stands and lighting arrangements
- EZ image software

BEST FOR: engineers, scientists, doctors, Labtech's, forensic examiners, educators and more

5M w/polarizer

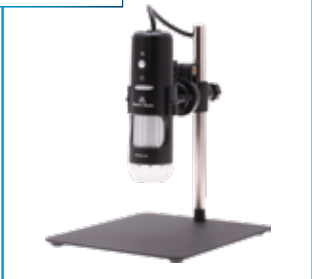


Item #26700-209-PLR

- Magnification 10x-50x optical and up to 200x digital
- Included polarizer to help reduce glare, hot spots, and enhance contrast
- Portable / hand-held
- Easy plug-and-play USB connection
- Built in LED lighting
- Customize with various stands and lighting arrangements
- EZ image software

BEST FOR: engineers, scientists, doctors, Labtech's, forensic examiners, educators and more

NIR 5M



Item #26700-207

- Magnification 10x-50x optical and up to 200x digital
- Included polarizer to help reduce glare, hot spots, and enhance contrast
- Portable / hand-held
- Easy plug-and-play USB connection
- 6 built in LED lights operating at Near Infra-Red frequencies, 850nm
- Customize with various stands and lighting arrangements
- EZ image software

BEST FOR: law enforcement forensics, biomedical tissue analysis, pharmaceutical/chemical component differentiation and the inspection and documentation of fine arts and antiquities

Mighty Scopes Continued..

See Next Page For
MightyScope Accessories >>>

500x 1.3M



Item #26700-204

- Fixed magnification of 500x
- 0-3mm working distance
- Portable / hand-held
- Easy plug-and-play USB connection
- Built in LED lighting
- Customize with various stands and lighting arrangements
- EZ image software

BEST FOR: engineers, scientists, doctors, Labtech's, forensic examiners, educators and more

MightyScope 1.3M



Item #26700-200

- Magnification 10x-50x optical and up to 200x digital
- Portable / hand-held
- Easy plug-and-play USB connection
- Built in LED lighting
- Customize with various stands and lighting arrangements
- EZ image software

BEST FOR: engineers, scientists, doctors, Labtech's, forensic examiners, educators and more

1.3M w/polarizer



Item #26700-200-PLR

- Magnification 10x-50x optical and up to 200x digital
- Included polarizer to help reduce glare, hot spots, and enhance contrast
- Portable / hand-held
- Easy plug-and-play USB connection
- Built in LED lighting
- Customize with various stands and lighting arrangements
- EZ image software

BEST FOR: engineers, scientists, doctors, Labtech's, forensic examiners, educators and more

Ultraviolet 1.3M



Item #26700-205

- Magnification 10x-50x optical and up to 200x digital
- Included polarizer to help reduce glare, hot spots, and enhance contrast
- Portable / hand-held
- Easy plug-and-play USB connection
- 6 built in UV LED lights operating at 405nm
- Customize with various stands and lighting arrangements
- EZ image software

BEST FOR: engineers, scientists, doctors, Labtech's, forensic examiners, educators and more

Mighty Scope Accessories :



Mighty Scope 3D Stand With LED's
#26700-312-LED
- 360 flex swivel arm
- Built in Gooseneck LED light



Mighty Scope Dual View Stand
#26700-215
- Dual View stand allows you to move two
Mighty Scopes for viewing the same object
from different angles.



Mighty Scope Stand W/Fine Adjustment
#26700-214
- Single articulating arm allows left to right, up and
down, angle and tilt movement



Mighty Scope Flex Stand
#26700-212
- Flex gooseneck arm
- Stand eliminates vibration and shake features
tilt and angle adjustment



Mighty Scope 5M Polarizer
#26700-217
- Reduces glare and hot spots while enhancing
contrast
Not recommended for 500x Mighty Scope



Mighty Scope Standard Stand
#26700-211
- Tilt and angle adjustment
- Eliminates vibration and shake features



Mighty Scope Cradle Stand
#26700-213
- Allows hand free viewing at fixed working distance
- Stackable adapters allow quick changes in
magnification and working distance
Works with all Mighty Scopes except 500x model



Mighty Scope 1.3M Polarizer
#26700-216
- Reduces glare and hot spots while enhancing
contrast
Not recommended for 500x Mighty Scope



Digital Microscope

Selection Guide

	Item #	Magnification Optical	Working Distance	Signal Output	Image Capture
Mighty Scopes					
Mighty Scope 5 M	26700-209	10x-50x	8.5mm-112mm	USB	With Software
Mighty Scope 5 M w/polarizer	26700-209 PLR	10x-50x	8.5mm-112mm	USB	With Software
Mighty Scope NIR 5 M	26700-207	10x-50x	8.5mm-112mm	USB	With Software
Mighty Scope 1.3 M	26700-200	10x-50x	8.5mm-112mm	USB	With Software
Mighty Scope 1.3 M w/polarizer	26700-200-PLR	10x-50x	8.5mm-112mm	USB	With Software
Mighty Scope Ultraviolet 1.3 M	26700-205	10x-50x	8.5mm-112mm	USB	With Software
Might Scope HD	26700-230	3x-270x	12mm - 184mm	HDMI	With optional image capture box
Cyclops					
Cyclops HDMI	26700-401	12x to 132x	228.6 mm	HDMI or USB	With optional image capture box
Cyclops 2.0	26700-422	13x-140x	22mm-214mm	HDMI or USB	With MicroSD Card or via software
SharpVue					
SharpVue PLUS	26700-136	30x	288.6 mm *Fixed*	Display port & USB	With USB drive or via software
SharpVue XT	26700-137	30x	228.8 mm	Display port & USB	With USB drive or via software
Auto Focus Systems					
Auto Flex	26700-121-PRO	7-70x	152.4 mm	HDMI or USB	With SD Card



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