



Digital Microscope

Selection Guide



Tools for
Advancing
Innovation™

Advantages of Digital Microscopes



Ultra Sharp Digital Magnification

Microscope technology has rapidly advanced over the years. Today's digital microscopes can magnify smaller objects better than ever before. 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 becoming increasingly better. Although it is not as vivid as the 3 dimensional imagery stereo microscopes offer, the 2 dimensional image that is projected onto monitors has become very comparable with the advancement of technology. Accessories like tilt tables and LED lighting help the 2D image on screen become more vivid and appear more 3 dimensional.

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 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 binocular lenses, giving ease to long term usage.

Having the image magnified onto a screen also allows multiple viewers at the same time which helps improve collaboration and teaching techniques.



Digital vs Stereo

The Breakdown



Versatile Accessories

Most digital microscopes come with a variety of accessories to enhance inspection for specific projects. Accessories can range from different attachable mounts to creating a variety of angles and working distances with different table pieces. LED lighting accessories also minimizes shadows and hidden elements below the microscope to help with focusing and catching the object at different views.

Features	Digital Microscope	Stereo Zoom Microscope
Ergonomic	✓	
3D Image		✓
Image Depth		✓
Image Capture	✓	Selected Few
Measure	✓	Selected Few
Price Range	\$414 - \$4,370	\$2,380 - \$6,460

MicroVue 2.0

Sharper Imaging • Smarter Inspection



- Large 13.3" screen
31% more viewing
area than the original
MicroVue
- Coaxial coarse
and fine focusing
on the stand.
- Save image/video files
to USB storage device
• Connect to your PC
via USB
- HDMI output for external
monitor viewing

Aven's MicroVue 2.0 Digital Microscope is a compact, all-in-one inspection system designed for precision and ease of use. It delivers a magnification range of 20.7× – 133.4× on a built-in 13.3" HD monitor, providing clear, comfortable viewing without the need for external displays.

- Built-in 13.3" monitor for ergonomic viewing -31% more screen area than the original MicroVue
- 20.7×-133.4× magnification on the built-in monitor without optional lenses
- Easy-swap magnetic LED ring light
- Optional UV LED ring light available
- Sector control to activate specific LED quadrants
- HDMI output for external monitor viewing
- Built-in measurement capabilities
- Save images and video to a USB storage device or MicroSD card
- Compact design saves valuable bench space
- 16" track post provides exceptional working distance
- Fine and coarse focus knobs for rapid positioning and precise focus control
- Compatible with Aven boom stands or articulating arm stands using the optional MicroVue Arbor accessory



LED ring light connects
magnetically - no extra
cables or power supply



LED Ring light
with quadrant
control



Independent ring
light adjustment
knob



Heat vents on
both sides of the
unit



26700-141-RLLED
Magnetic right light



2x
26700-140-L20X
2.0x Lens



0.5x
26700-140-L05X
0.5x Lens



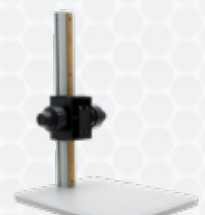
26700-141-RLUV
Magnetic UV (365-375nm) ring
light available



26700-141-3DA
The 360 Viewer rotates to give
a 35 degree angled view



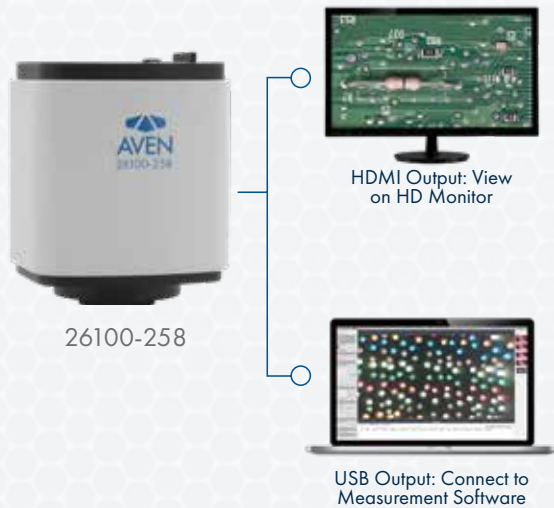
26700-141-3DA
The 360 Viewer rotates to give
a 35 degree angled view



26700-141-STND
MicroVue 2.0 stand

Mighty Cam Pro

Auto Focus Inspection System



Mighty Cam Pro

- 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



Mighty Cam Pro Systems

Mighty Cam Pro on Compact Articulating Arm Stand

- 7x - 70x magnification at a 152.4 mm (6") working distance
- Compact articulating arm stand saves bench space
- Table clamp easily attaches to the side of your workbench
- Raise, lower, and rotate the microscope



26800B-714

Mighty Cam Pro on Ultra Glide Boom Stand

- 7x - 70x magnification at a 152.4 mm (6") working distance
- Scan over large objects with the Ultra Glide Stand
- Wide range zoom lens with adjustable iris, zoom and focus
- Focus mount with LED ring light



26800B-716

Mighty Cam Pro on Double Arm Boom Stand and Table Clamp

- 7x - 70x magnification at a 152.4 mm (6") working distance
- Table clamp easily attaches to the side of your workbench
- Focus mount with LED ring light
- Wide range zoom lens with adjustable iris, zoom and focus



26800B-715

Mighty Cam Pro [7x-70x] Macro Lens w/ Post Stand

- Auto focus camera features HDMI & USB outputs
- 7x - 70x magnification at a 6" working distance
- Includes Aven's Focus Mount with built-in LED ring light
- Heavy duty post stand accommodates a large variety of parts



258-207-570

Mighty Cam Pro [7x-70x] Macro Lens w/ Double Arm Boom Stand

- Auto focus camera features HDMI & USB outputs
- 7x - 70x magnification at a 6" working distance
- Includes Aven's Focus Mount with built-in LED ring light
- Double arm boom stand provides smooth horizontal movement



258-209-534

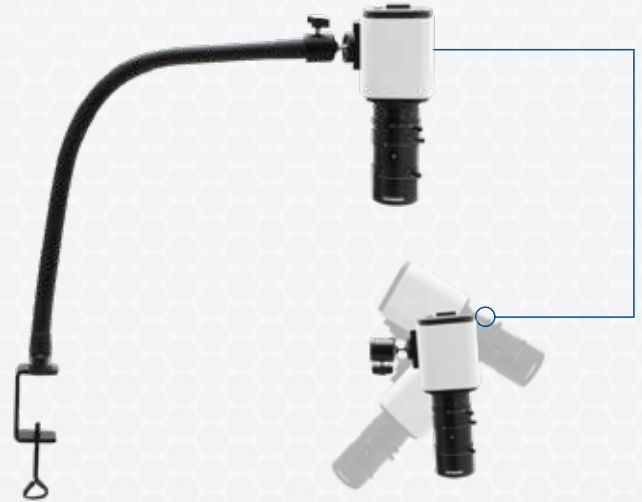
AutoFlex

Digital Microscope Mighty Cam Pro Auto Focus



AutoFlex

- 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



26700-121-PRO

Mighty Cam Pro [28.8x-384x] Micro Lens w/ Post Stand

- 57.6x - 384x (28.8x - 192x when using the 0.5x objective lens)
- Auto focus camera features HDMI & USB outputs
- Includes LED ring light with 96 ultrabright adjustable LEDs
- Heavy duty post stand accommodates a large variety of parts



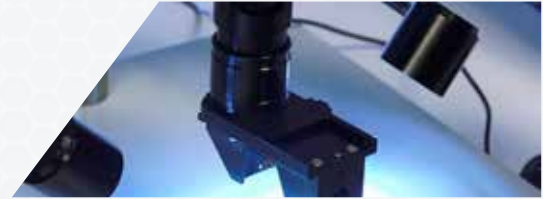
26700-109-PRO

Aven offers many different Mighty Cam PRO systems!
To explore our Mighty Cam PRO bundles visit our website

www.aventools.com

3D Viewer Systems

Digital Microscopes w/ 3D Viewer



26700-151-C05-259-506

Mighty Cam ES on Track Stand [22x - 147x]

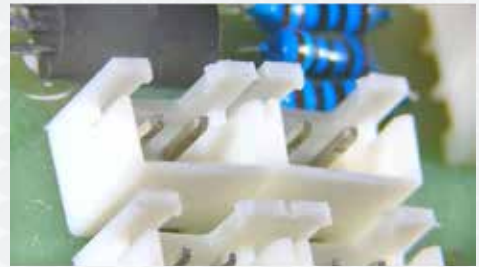
- 0.6x to 4x Zoom magnification
- Detented Lens for High Accuracy Measurement
- HD camera with both HDMI and USB outputs with Advanced Measurement Software
- 3D viewing with included attachment
- Track Stand with Large Base (adjustable overhead & back light)
- Save high resolution image/video files directly to microSD card
- 1080p Full HD Output



26700-151-C05-259-570

Mighty Cam ES on Post Stand w/ Goose-neck LEDs [22x - 147x]

- 0.6x to 4x Zoom magnification
- Detented Lens for High Accuracy Measurement
- HD camera with both HDMI and USB outputs with Advanced Measurement Software
- 3D viewing with included attachment
- Heavy-duty post stand
- Flexible gooseneck LEDs with brightness adjustment
- LEDs can be positioned where needed for optimal illumination



Mighty Cam ES

Streamlined USB + HDMI Camera



26100-259

Mighty Cam ES Mighty Cam ES w/ USB + HDMI Outputs & SD Card Port



- Streamlined camera designed for efficient inspection
- USB + HDMI outputs - view on an HD monitor or from your PC
- SD Card (save images and video files)
- Compatible with C C/S Mount lenses and trinocular microscopes
- 1/4-20" screw mount adapter - mounts to nearly any camera stand
- Advanced measurement software included for use in PC mode

Mighty Cam ES Systems



Mighty Cam ES [7x-70x] Macro Lens w/ Double Arm Boom Stand #258-209-534-ES

- 7x - 70x magnification at a 6 inch working distance
- Includes Aven's Focus Mount with built-in LED ring light
- LED Ring Light is built into the focus mount to ensure that it is secure and will not come loose
- Double Arm Boom Stand (easily move across a specimen)



Mighty Cam ES [7x-70x] Macro Lens w/ Post Stand #258-207-570-ES

- 7x - 70x magnification at a 6 inch working distance
- Includes Aven's Focus mount with built-in LED ring light
- LED Ring Light is built into the focus mount to ensure that it is secure and will not come loose



Mighty Cam ES [28.8x-384x] Micro Lens w/ Standard Stand #26700-109-ES

- 57.6x - 384x (28.8x - 192x when using the 0.5x objective lens)
- Includes heavy duty post stand to accommodate a large variety of parts
- Includes an LED ring light that provides uniformity & shadow free illumination



Mighty Cam ES [3x-43x] Macro Lens w/ Post Stand #26700-108-ES

- 3x - 43x magnification
- Includes heavy duty post stand to accommodate a large variety of parts
- Includes an LED ring light that provides uniformity & shadow free illumination



Mighty Cam ES [7x-70x] Macro Lens w/ FlexArm Stand #26700-121-ES

- 7x - 70x magnification at a 6 inch working distance
- 18 inch flexible arm with a 360 ball joint provides limitless positioning options
- Includes an LED ring light with 96 ultra-bright, adjustable LEDs

Mighty Scope v2

Digital Microscope



26700-218



- 10x to 200x~ magnification
- USB cable plugs into any computer to save, process and share images
- Compatible with Mac and Windows
- Fine focus stand - adjust the screen focus in small increments
- Brightness wheel controls 8 LEDs
- Ergonomic design allows comfortable use in either hand



Polarizer Attachment for Mighty Scope v2
#26700-219

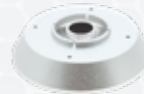
Mighty Scope Bundles & Accessories



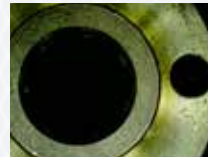
Mighty Scope v2 w/ Diffuser

Item #26700-218-DFS

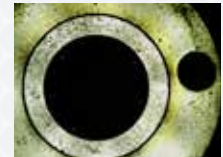
- The diffuser can be attached to the Mighty Scope to evenly spread light for shadow-free illumination on shiny objects



Diffuser Attachment for Mighty Scope v2
#26700-218-DIFF



With Diffuser



Without Diffuser



Mighty Scope v2 w/ Polarizer

Item #26700-218-PLR

- This polarizer helps to reduce glare and hot spots from highly reflective surfaces while also enhancing contrast



With Polarizer



Without Polarizer

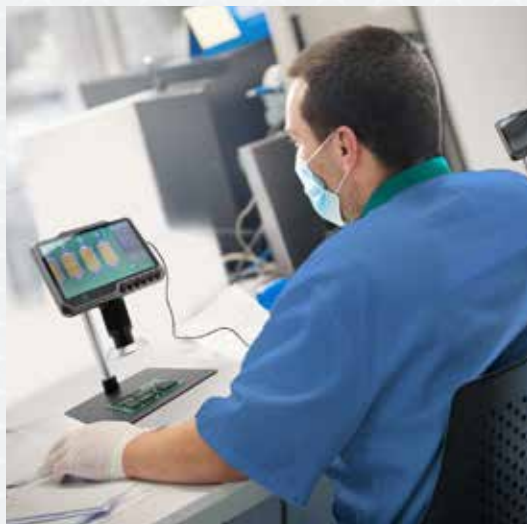
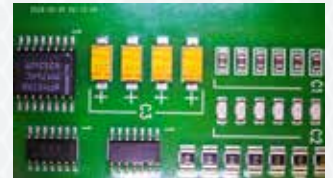
ClearVue 2.0 Digital Microscope



26700-221

Digital Microscope (15×/60×) 8" HR display Screen

- 8" high-resolution display (1280 × 800) with an ergonomic design for comfortable viewing
- Fixed-focus dual magnification (15×/60×) for observing a wide range of objects
- Detects objects as small as 8 μm (micrometer)
- One-touch photo and video capture with storage on a MicroSD card (4 GB–256 GB)
- Quick-access photo, video, freeze, and playback functions for simple operation
- USB 2.0 connectivity for use as a card reader or webcam, with support for video sharing
- Includes LED diffuser attachment
- Adjustable image settings, including white balance, exposure, sharpness, saturation, and contrast



Includes 2550 mAh 18650 rechargeable battery provides up to 2.5 hours of portable operation

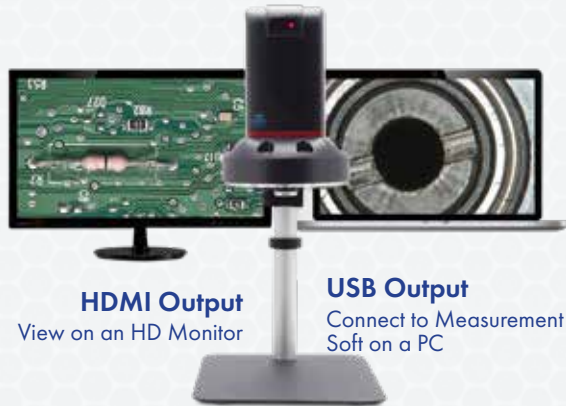
USB connection to a PC for file transfer, image viewing, and data management



HDMI output for connection to an external monitor, displaying images at up to 180× magnification based on a 24" monitor

Cyclops

Digital Microscope



Cyclops 4K

- Real Time Imaging in 4K (3840 x 2160 pixels)
- 13x - 140x Magnification (Based on a 24" monitor)
- Working Distance: 0.86" - 8.42" (22 mm - 214 mm)
- MicroSD Card Slot (Save images and video files)
- Dual viewing modes (HDMI and Windows PC)
- Focus (Manual & auto focus)
- PC Software (Image/video capture, measure, annotate, and more!)

Cyclops HDMI

- 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.



- Auto focus 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 Accessories



Cyclops 4x Long Focus Lens
#26700-400-L-4XLF
- 4x Long Lens offers higher magnification at the same working distance



Cyclops Objective Lens 4x
#26700-400-L4X
- Replacement lens to increase magnification 4x



Cyclops Objective Lens 4x w/ Polarizer
#26700-400-PL01
- Helps reduce glare and reflection
- 4x Magnification



Cyclops Objective Lens 10x
#26700-400-L10X
- Optional lens addition to increase magnification 10x



18" Flex Arm
#26800B-558
- 360° Swivel head and magnetic base
- Tilt, rotate and position
- 1/4" Screw mount



Articulating Arm
#26800B-553
- 17.7" Post 16.3" articulating arm
- Heavy Duty Clamp



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Digital Microscope Table

Product	Magnification	Software	USB Output	HDMI Output	Built-in Screen	Image/Video Capture
MicroVue 2.0	20.7x - 133.4x	Internal Software	For USB mouse Flash Drive & PC Connection	✓	✓	Via Software/ USB Storage
Mighty Cam Pro	N/A	Internal Software/ Capture Software	✓	✓		Via Software/ SD Card
Mighty Cam ES	N/A	Internal Software/ Capture Software	✓	✓		Via Software/ SD Card
Mighty Scope v2	10x-50x Optical 200x Digital	MicroViewer Plus	✓			Via Software
Clear Vue 2.0	15x - 60x	Internal Software	✓	✓	✓	Via Software/ MicroSD card
Cyclops HDMI	13x - 132x	N/A		✓		No
Cyclops 4K	13x - 140x	Connect Measurment	✓	✓		Via Software

Contact US

 aventools.com

 info@aventools.com

 734-973-0099

 4330 Varsity Drive Ann Arbor, MI 48108

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