



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	✓	Requires Trinocular Microscope
Measure	✓	Requires Trinocular Microscope
Price Range	\$414 - \$6,370	\$2,380 - \$6,495

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 sharp images 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
- 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



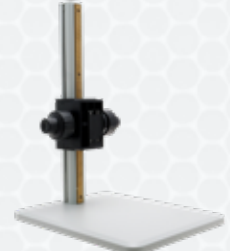
26700-141-RLUV
Magnetic UV (365-375nm) ring light available



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



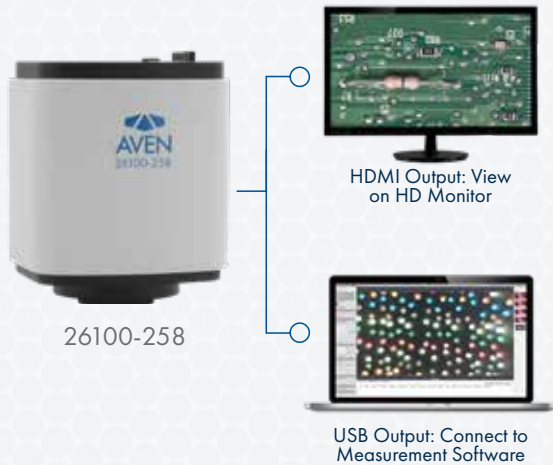
26700-140-M32
Adapter and arbor for boom stands and arm stands



26700-141-STND
MicroVue 2.0 stand

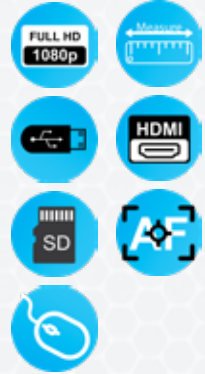
Mighty Cam Pro

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" 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



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



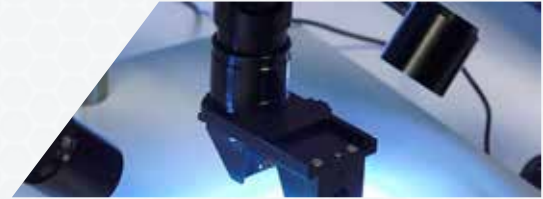
26700-109-PRO

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]

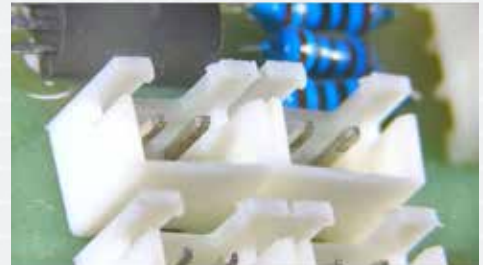
- 0.6x to 4x Zoom magnification
- Detented Lens for High Accuracy Measurement
- HD camera with both HDMI and USB outputs with Advanced Measurement Software
- 3D viewing with included attachment
- Track Stand with Large Base (adjustable overhead & back light)
- Save high resolution image/video files directly 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 Scope v2

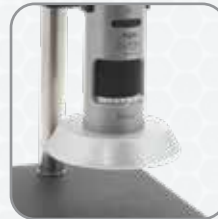
Digital Microscope



Mighty Scope Bundles & Accessories



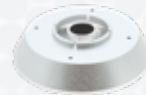
26700-218



26700-218-DFS

Mighty Scope v2 w/ Diffuser

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

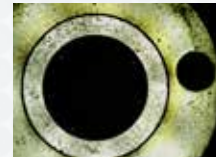


#26700-218-DIFF

Diffuser Attachment for Mighty Scope v2



With Diffuser



Without Diffuser



26700-219

Polarizer Attachment for Mighty Scope v2



26700-218-PLR

Mighty Scope v2 w/ Polarizer

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



With Polarizer



Without Polarizer

Mighty Scope ClearVue

All-In-One Digital Microscope



ClearVue

- Compact All-in-one system
- 8x-25x Magnification
- 1080p Full HD Imaging at 60 FPS
- Rechargeable Battery
- HDMI Output for additional monitor viewing
- ezImageX3 software included
- Enhances productivity - eliminates eye strain and body fatigue
- 5" Built-in HD screen
- Save high resolution image/video files directly to microSD card
- 1080p Full HD Output



26700-220-MNT

HDMI Output: View on HD Monitor



USB Output: Connect to Measurement Software



26700-220-505

ClearVue

w/ Dual Gooseneck LEDs & Back-light

- Compact All-in-one system
- Flexible LED Illumination
- Dual 14.5" Gooseneck LEDs (ideal when reflections from shiny objects need to be eliminated)
- Back-light (ideal for observing transparent objects)
- 8x-25x Magnification
- 1080p Full HD Imaging at 60 FPS
- Rechargeable Battery
- HDMI Output for additional monitor viewing
- ezImageX3 software included
- Enhances productivity - eliminates eye strain and body fatigue
- 5" Built-in HD screen
- Save high resolution image/video files directly to microSD card
- 1080p Full HD Output

ClearVue

Accessories



26700-220-STN

Post Stand For Mighty Scope ClearVue

- 9" Post stand with an 8.6" x 7" base
- Features fine focus adjustment for precise focusing
- Can be adjusted to inspect objects large and small



26700-220-559

ClearVue on 34" Spring Balanced Arm w/ Table Clamp

- The arm can be raised, lowered, and tilted as needed
- Allows the ClearVue to be swiveled out of the way when not in use



26700-220-557

ClearVue on 18" Flex Arm Stand w/ Table Clamp

- Can be flexed and bent to any position
- At the end of the stand is a 360 ball joint with a screw lock providing 360 degrees of rotation



26700-220-558

ClearVue on 18" FlexArm Stand w/ Magnetic Base

- Can be flexed and bent to any position
- At the end of the stand is a 360 ball joint with a screw lock providing 360 degrees of rotation
- 3" Magnetic base can be mounted to metal surfaces



26700-220-559WB

ClearVue on Adjustable Spring Balanced Arm w/ Weighted Base

- Can be raised, lowered and tilted as needed
- Allows the ClearVue to be swiveled out of the way when not in use
- Can be placed anywhere on the work surface



26800B-479

Compact Gliding Stage X/Y/R

- Compact and Convenient
- The stage smoothly glides horizontally and vertically
- The rotating stage provides 360 degrees of rotation

ClearVue (Optional Configurations)

The Mighty Scope ClearVue can be configured with optional stands to increase working distance, flexibility, and enhance your workspace



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



26700-400-L-4XLF

Cyclops 4x Long Focus Lens

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



26700-400-L4X

Cyclops Objective Lens 4x

- Replacement lens to increase magnification 4x



26700-400-PL01

Cyclops Objective Lens 4x w/ Polarizer

- Helps reduce glare and reflection
- 4x Magnification



26700-400-L10X

Cyclops Objective Lens 10x

- Optional lens addition to increase magnification 10x



26800B-558

18" Flex Arm

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



26800B-553

Articulating Arm

- 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	Can connect to a PC for USB. Flash Drive and USB Mouse.	✓	✓	USB or MicroSD
Mighty Cam Pro	N/A	Internal Software/ Capture Software	✓	✓		Via Software/ SD Card
Mighty Cam USB	N/A	Capture Software	✓			Via Software
Mighty Cam ES	N/A	Internal Software/ Capture Software	✓	✓		Via Software/ SD Card
Cyclops 4K	13x - 140x	Connect Measurment	✓	✓		Via Software
Cyclops HDMI	13x - 132x	N/A		✓		No
Mighty Scope v2	10x-50x Optical 200x Digital	MicroViewer Plus	✓			Via Software
Mighty Scope Clear Vue	8x - 25x	Internal Software/ ezImageX3	✓	✓	✓	Via Software/ MicroSD card

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