v-0222-3

**Medical Device**

Cutters

Magnifiers

**Quality Assurance**

Inspection

Pliers

**Electronics**

Tweezers

**Micro Assembly**

Magnifying Lamps
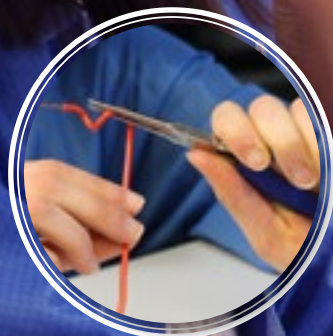
*Advancing Innovation for 40 Years*
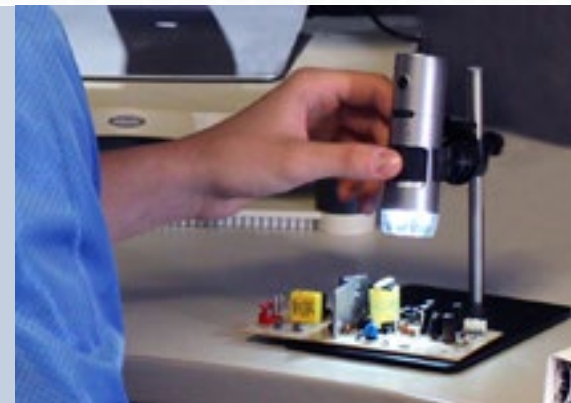
# NEW PRODUCTS!

## Mighty Scope v2
### *Small but Mighty*

- 10x - 200x~ Magnification (based on a 24" monitor)
- USB Plug & Play
- Microviewer Plus Software optimized for the Mighty Scope v2

**SEE ON PAGE: 3**

## UV Magnifier
### *Hand-Held Magnifier w/ UV & White LEDs*

- 18 White LEDs with two intensity levels (4 watt)
- 26 UV LEDS (8 Watt)
- 5 Diopter high quality glass lens & 12 diopter spot lens

**SEE ON PAGE: 15**

## Mighty Vue Inspector
### *Magnifying Lamp w/ Built-in Camera*

- View images through the magnifying lamp and external monitor
- View/Save images on a micro SD Card
- Frosted diffuser with color temperature controls

**SEE ON PAGE: 19**

# Table of Contents

## Microscopes

## Magnifying Lamps

## Hand Tools

**Visit our website to learn more!**

*For up-to-date pricing, visit AvenTools.com*

AVEN
EST. 1983
*Tools for Advancing Innovation*™

# Mighty Scope v2

Digital Microscope

# Small, but *Mighty*

In a fast-moving production environment, it is crucial to be able to inspect, document and share with ease. The Mighty Scope is your own personal digital inspection system that goes anywhere you do. All you need is a laptop or computer with a USB port. It could just be a quick spot check on a part for compliance or the need to capture and document a defect with notes. This simple and powerful scope can do it all!

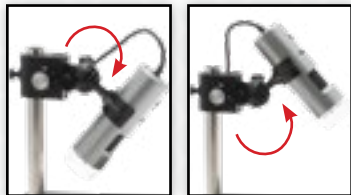**Plug & Play**
Connect to PC via USB

**Up to 200x**
Digital Magnification
**10-50x**
Optical Magnification
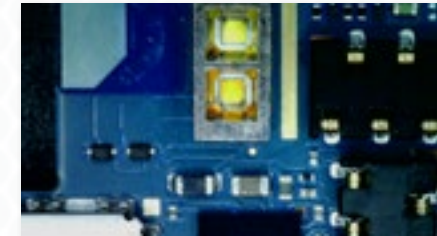
**Adjustable Illumination**
Built-in 8 white-light LEDs

**MicroViewer Plus Software**
Inspect, measure, capture images/ videos & more

**Adjustable Focus Mount**
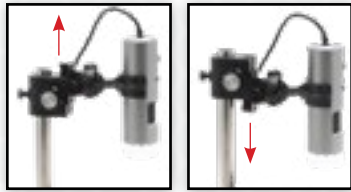
High Magnification, Exceptional Clarity

**Easy Plug-and-Play USB Connection to PC w/ Included Software**

8 White-light Adjustable LEDs

Learn more about the **Mighty Scope v2!**

Great for a Wide Range of Applications
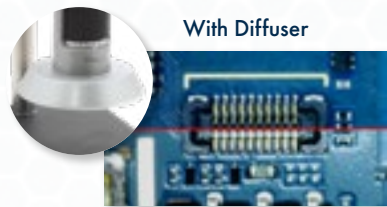
With Diffuser

Without Diffuser

**Optional Diffuser**
26700-218-DIFF

The diffuser provides soft & even illumination for shiny and reflective parts

With Polarizer

Without Polarizer

**Optional Polarizer**
26700-219

The polarizer reduces glare and hot spots while enhancing contrast

## Specifications

| Model Number | 26700-218 | | | |
|---|---|---|---|---|
| **Magnification** | 10x - 200x~ | | | |
| **Resolution** | 5MP, 2592 x 1944 | | | |
| **Working Distance** | **10x:** 112mm | **20x:** 42mm | **30x:** 19mm | **40x:** 8.5mm |
| **Illumination** | 8 White-light adjustable LEDs | | | |
| **Output** | USB | | | |
| **Price** | $355.00 | | | |

# Versatile. Compact. Clear.

Whether on a production floor to aid in assembly or in a machine shop to quickly examine a part and capture an image, the Mighty Scope ClearVue can do it all - without the eye strain of frequent microscope use. This all-in-one scope features a built-in screen and includes all the functions required for inspection applications such as image capture, grid-lines, HDMI output and rechargeable battery for cordless operation. This system can also be connected to a PC for use with our ezImageX3 software. A new addition to the reputable Mighty Scope family of products, used by industries ranging from museums to jet engine manufacturers.

**Full HD**
1080p 60FPS
5" Built-in HD Screen

**Rechargeable Battery**
Operate Without a Power Supply

**SD Card Included**
Save Images & Videos

**ezImageX3 Software Included**
Measure, Share and Annotate

Capture HD Images/Videos to an SD Card

**HDMI Output: View on HD Monitor**

**USB Output: Connect to Measurement Software**

USB Mode - ezImageX3 Software Included

HDMI Mode - Ideal for Demonstrations

## Optional Configurations

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

With Diffuser

Without Diffuser

## Optional Diffuser

26700-220-DIFF

The diffuser provides soft & even illumination for shiny and reflective parts

**Learn more about the Mighty Scope ClearVue!**

## Specifications

| Model Number | 26700-220-MNT | |
|---|---|---|
| **Magnification** | 8x - 25x (built-in monitor) | 40x - 120x (based on a 24" external monitor) |
| **Working Distance** | 45mm - 95mm | |
| **Interface** | Mini USB - Type A/HDMI | |
| **Software** | ezImageX3 | |
| **Price** | $769.00 | |

# Mighty Scope Clearvue

Digital Microscope

# Cyclops 3.0
## Digital Microscope

### Over Engineered, Not Overpriced

Sometimes you just need real time magnification to complete a process, other times you need to measure, analyze, and document. Finding an inspection unit that does all this without breaking the bank is what we designed the Cyclops 3.0 to do. The price point, large working distance and live HDMI image make this unit ideal for production floors, large and small.

Should you need to analyze or document an image, the built-in USB output connects to your PC, preventing the down time of switching to a new system for these features. Everything you want is in one affordable unit with the Cyclops 3.0.

**Learn more about the Cyclops 3.0!**

**HDMI Output: View on HD Monitor**

**USB Output: Connect to Measurement Software**

### Key Features

- Dual Outputs: HDMI and PC Modes
- Advanced measurement software included for PC Mode (via download)
- Crystal-clear 1080p Full HD
- USB 3.0 Output
- 13x-140x Magnification (based on a 24" monitor)

**Website:** AvenTools.com          **Email:** info@aventools.com          **Phone:** 734-973-0099

Capture Stunning Image and Video Files



Control the Cyclops' features such as focus and lighting with the infrared remote control
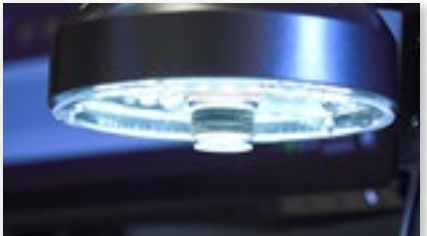


Adjustable LED Illumination

## Specifications

| | |
|---|---|
| **Model Number** | 26700-423 |
| **Magnification** | 13x - 140x (based on a 24" monitor) |
| **Field Of View** | 40mm - 3.8mm |
| **Software** | • Image capture software provided with Cyclops includes measurement and editing tools.<br>• For PC cam use, the software offers Compare mode, Measurement mode and Device Control mode. |
| **Output** | HDMI + USB 3.0 1080p Full HD |
| **Price** | $1,335.00 |

# MicroVue™
## Digital Microscope

# Inspection Simplified

Viewing small parts or components often meant putting a complicated high magnification system together, piece by piece. While these systems can be highly effective, they often come with a hefty price tag and require an intricate assembly. A high quality but affordable, All-In-One, Plug and Play option was needed in the marketplace.

We answered that need with the Aven MicroVue: An easy-to-use digital microscope with a built-in monitor, which gives you a crystal-clear view of extra small parts at high magnification. The MicroVue also comes with all the features you would expect in an All-In-One system, like HDMI output, image capture to USB, and on-screen measurement.

**Compact & User Friendly**
**All-In-One System**

**High Magnification**
**Up To 110x***

**Built-in Screen**
**1080p Resolution**

**Measure & Save Images**
**Integrated Software**

Exceptional Clarity
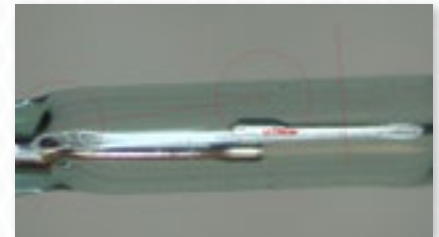
Integrated Measurement Software

HDMI - view on a larger monitor

### Optional 360 Viewer
26700-140-3DA
The 360 Viewer rotates to give a 35 degree angled view

**Learn more about the MicroVue!**

## Specifications

| Model Number | 26700-140 | |
|---|---|---|
| **Magnification** | 17x - 110x (built-in monitor) | 31.9x - 204.8x (based on a 21.5" external monitor) |
| **Field Of View** | 18.5*10.5-2.8*1.5 | |
| **Image/Video Capture** | 1920 x 1080 jpg / mpg | |
| **Software** | Integrated software with measurement tools, image/video capture, and screen adjustment settings | |
| **Output** | HDMI 1080p Full HD | |
| **Price** | $2,094.75 | |

# Ultimate **FLEX**ibility

Inspection requirements change as your processes and parts evolve. Having a world class vision system that easily changes with your needs keeps your operation running uninterrupted, with minimal down time. AutoFlex allows you to change out key components such as lenses and lighting without the burden of replacing an entire system. Superior HD image quality, built in measurement and image capture, adaptable lighting and exceptional optics make this the most versatile and efficient vision system for your production floor or in your lab.

| Instant Auto Focus | Superior Optics | SD Card Included | Advanced Software |
|---|---|---|---|
| No Need to Adjust the Focus of the Lens | 7x-70x Magnification | Save images & videos | Measure & Report |
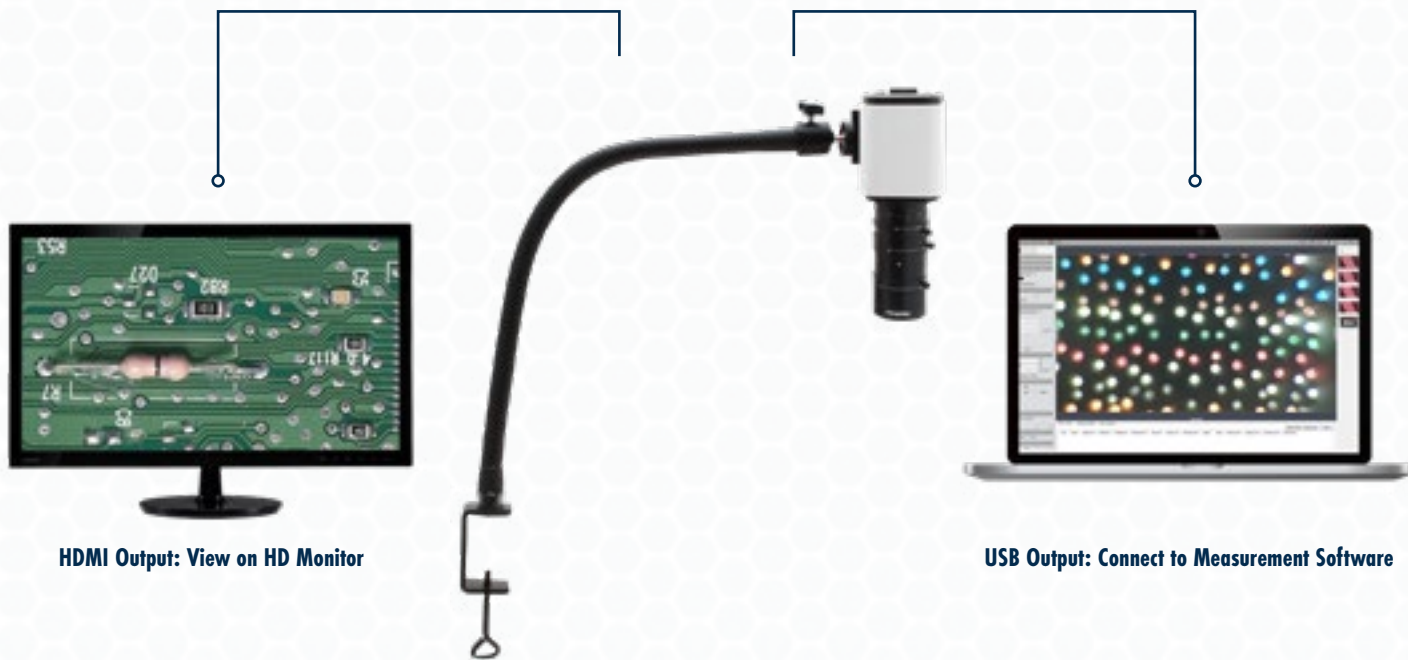
Perfect Color Reproduction

Flexible and Easy to Maneuver
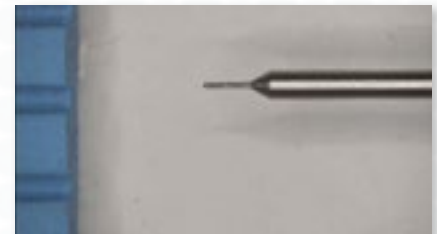
Real Time Depth of Field Fusion

**HDMI Output: View on HD Monitor**

**USB Output: Connect to Measurement Software**

### Learn more about the AutoFlex!

## Specifications

| Model Number | 26700-121-PRO |
|---|---|
| Magnification | 7x - 70x (based on a 22" monitor) |
| Resolution | 2MP, 1920 x 1080 |
| Software | • Integrated Measurement System: Powerful Measurement Functions and a Simple Calibration Tool<br>• Software For PC: Auto Focus Fine Tuning, Efficient Measurement, Attribute Editing and more |
| Output | HDMI + USB (For use with a PC or an HD monitor) |
| Price | 2,415.64 |

AutoFlex
Digital Microscope

# Stereo Zoom Microscopes

## Microscope Quality Matters to Your Process

Every stage of your process is important and tasks done under a microscope can play a critical role in keeping your operation running efficiently. If a microscope does not meet expectations, your entire process can come to a halt. This costs you time and money. That is why Aven Stereo Microscopes are built to a higher standard. Virtually greaseless, the knobs will not slip over time, the single lens design will prevent double vision, and custom cut prisms allow for a straight light path giving you a crisp, clear image throughout the life of the scope.

**Straight Light Path**

**Grease-less Nylon Gears**

**Ideal Prism Installations**

**Uni-body Construction**

**Single Screw Gear**
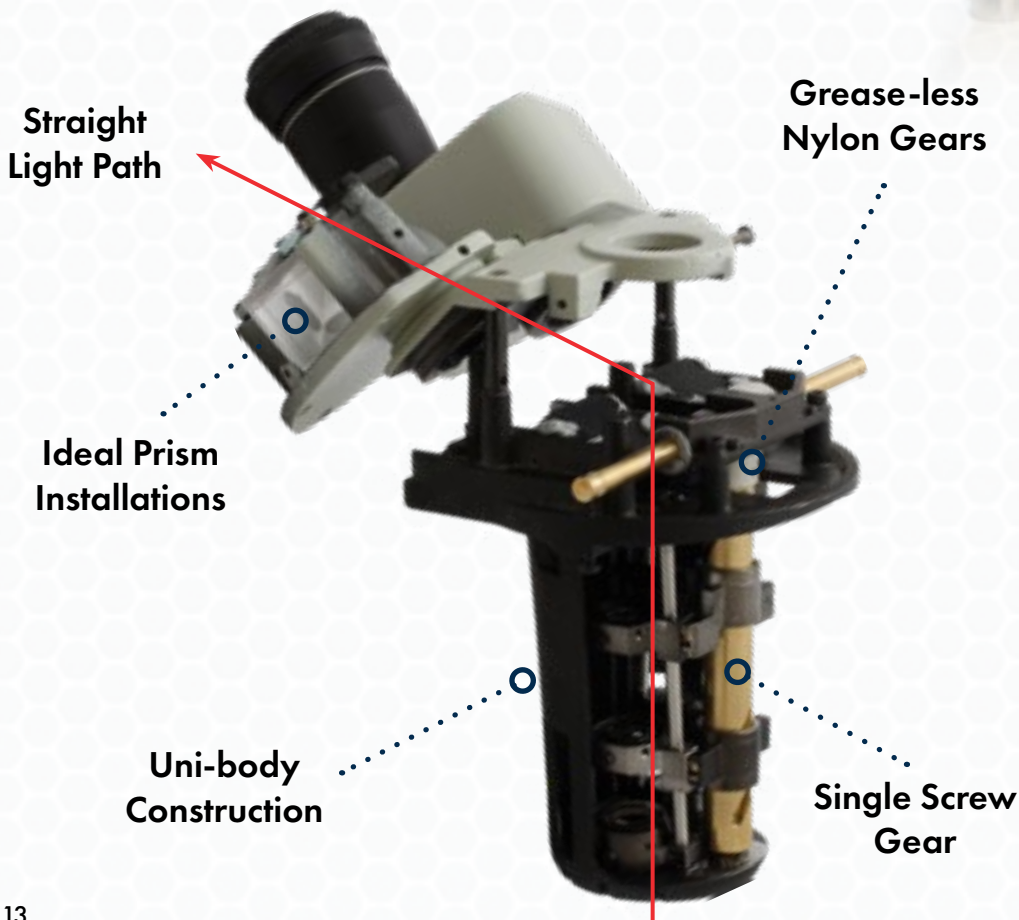
### Binocular Microscope

Starting at:
$920.93

### Trinocular Microscope

Starting at:
$2,080.00

## Trinocular Microscope w/
# Mighty Cam Eidos 5M

Aven's Mighty Cam Eidos 5 mega-pixel camera with a built in 11.6-inch screen can be attached to a trinocular microscope or video lens with a C or CS mount. The camera features a 5M Sony sensor that provides stunning high-quality images for you to view on the built in 11.6" HD monitor. This eliminates the eye strain and body fatigue associated with frequent optical microscope use.

**Starting at:**
**$4,104.01**

## Trinocular Microscope w/
# Mighty Cam Pro

True trinocular microscope providing crisp clear 3D images, long working distance and a wide field of view. Includes Aven's Mighty Cam Pro, a USB+HDMI auto focus camera. View live images on an HD monitor or on a computer via the included Mosaic software. The camera also features an SD card slot for capturing images without a PC.

**Starting at:**
**$4,624.19**

# Wide View UV Magnifier

Hand-Held Magnifier with Ultraviolet and White LEDs

# Unmatched Functionality

As inspection processes become more demanding, even the simplest tools such as hand-held magnifiers need to become more versatile and modernized. The Wide-View UV Magnifier was designed to meet the function and performance standards for today's applications. Featuring both White and UV LEDs, this magnifier is ideal for standard inspection or examining objects that fluoresce such as circuit boards, money, documents etc.

The crystal-clear rectangular lens offers a wide viewing area at 2.25x magnification, with a 1" spot lens providing 4x magnification. The ESD Safe build ensures that static buildup will not reach any sensitive components below the magnifier. Features a rechargeable battery for hours of uninterrupted use.

**5 Diopter High Quality Glass Lens**
Additional 12 diopter spot lens

**26 UV LEDs**
18 White LEDs (two intensity levels)

**Long LED Life**
White LEDs (36,000 + Hours)
UV LEDs (30,000 + Hours)

**Rechargeable Battery**
UV LEDs: 2 Hours
White LEDs: Up to 6 hours
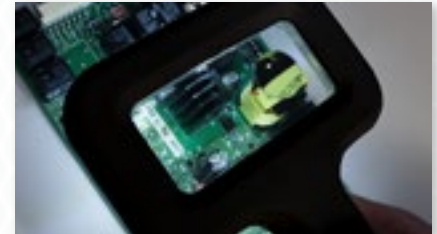

18 Bright White LEDs w/ Two Intensity Levels


26 UV LEDs


Portable & Convenient

**Professional Inspection**

**Education**

**Reading**

**Home Use**

**Collecting**

ESD Safe

Learn more about our Hand-Held Magnifiers!

## Specifications

| Model Number | 26060 | |
|---|---|---|
| Magnification | 5 Diopter (2.25x) high quality glass lens | 12 Diopter (4x) spot lens |
| Lens Dimensions | 93mm x 43mm (3.7" x 1.7") Main lens | 25mm (1") Spot diopter lens |
| LEDs | 18 White LEDs (6500k) | 26 UV LEDs (365nm) |
| Battery | 4000 mAh Rechargeable lithium ion battery | |
| Price | $195.00 | |

# The Light You Want, Built to Last

Magnifying lamps can be found anywhere, from hobbyist benches to medical device manufacturer assembly floors. Each application is unique and the right lighting can be critical for your process. The Mighty Vue Pro features a large rectangular lens providing a wide viewing area, with adjustable lighting controls that allow users to customize the LED brightness and color temperature from white to a soft amber illumination. The lamp is durable and built to last, and unlike other magnifying lamps in its class, the Mighty Vue Pro lamps feature a fully enclosed arm free of pinch hazards and exposed springs.

**Crystal-Clear Viewing**
7.5" x 6.2" Extra-wide glass lens

**Energy Efficient LEDs**
Minimum 20,000 hours of LED life

**Heavy-Duty Desk Clamp**
Easy attachment to desks & bench-tops

**Fully Covered Spring Arm**
Stays set in any position w/o pinch hazards

**Model Number:**
26505-LED-XL3

**Model Number:**
26505-ESL-XL5

**Model Numbers:**
26505-ESL-XL3-UV
&
26505-ESL-XL5-UV
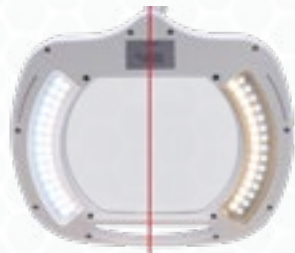

Crystal-Clear 7.5" x 6.2" Glass Lens


Lamp Provides up to a 36" (914mm) Reach


Adjustable 360° Swivel Lamp Head

**Learn more about the Mighty Vue Pro!**

## Specifications

| Model Number | 26505-LED-XL3 | 26505-ESL-XL5 | 26505-ESL-XL3-UV | 26505-ESL-XL5-UV |
|---|---|---|---|---|
| Diopter | 3 Diopter (1.75x) | 5 Diopter (2.25x) | 3 Diopter (1.75x) | 5 Diopter (2.25x) |
| Illumination | 30 Cool LEDs (6500K) 30 Warm LEDs (3500K) | 30 Cool LEDs (6500K) 30 Warm LEDs (3500K) | 48 Cool LEDs (6500K) 30 UV LEDs (400nm) | 48 Cool LEDs (6500K) 30 UV LEDs (400nm) |
| ESD Safe | | ✓ | ✓ | ✓ |
| Reach | Up to 36" (914 mm) | Up to 36" (914 mm) | Up to 36" (914 mm) | Up to 36" (914 mm) |
| Price | $227.26 | $264.02 | $356.19 | $358.52 |

**Website:** AvenTools.com     **Email:** info@aventools.com     **Phone:** 734-973-0099

# Mighty Vue Pro

Magnifying Lamp

# Mighty Vue Inspector
Magnifying Lamp w/ Built-in Camera

*Patent Pending*

# Re-imagine Your Magnifying Lamp

Magnifying lamps have been a staple in factories, labs, and on individual work benches for years – remaining largely unchanged in functionality. And while innovations in stereo zoom microscopes have made cameras a common feature, the Magnifying Lamp has been overlooked... Until now.
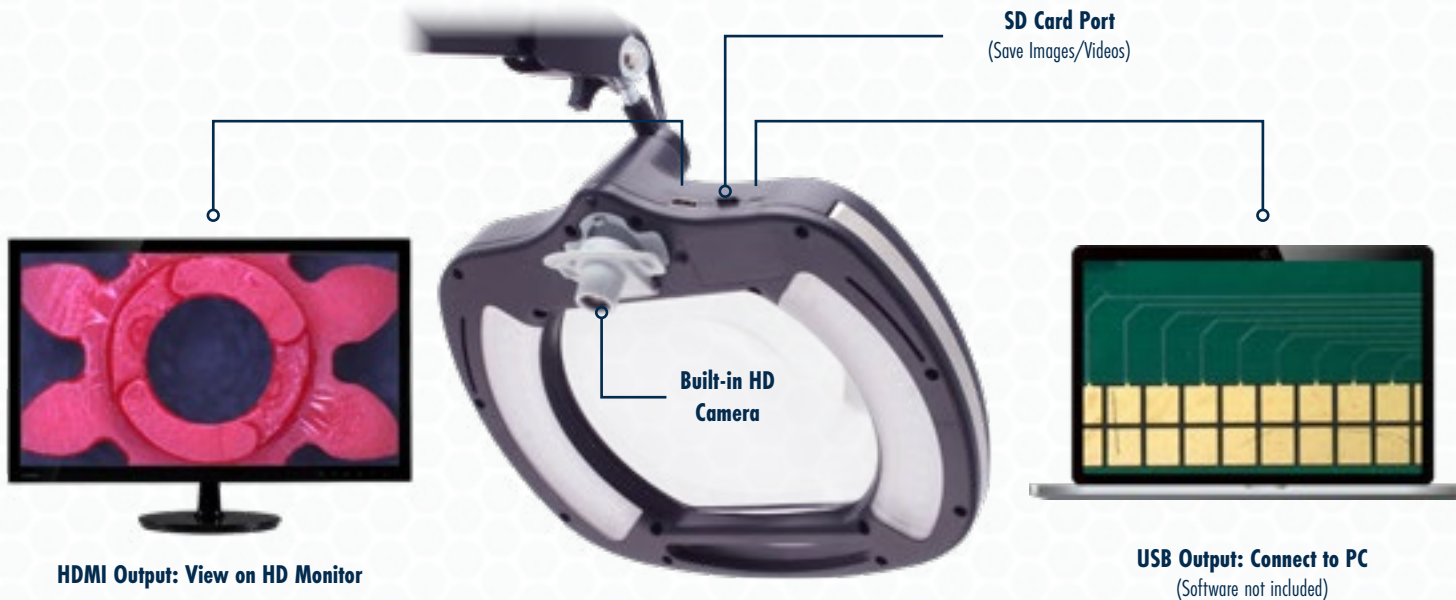
The Mighty Vue Inspector is a magnifying lamp and camera inspection system in one self-contained unit – allowing you to view the image directly on an HDMI monitor, capture and store images on the included microSD Card, and even connect to your PC for viewing or relocating saved images, and additional software features.

**Built-in Camera** — View on an HD Monitor

**USB Output** — Connect to your PC

**Micro SD Card** — Capture images and videos

**Glass Lens** — Crystal-clear viewing

**SD Card Port**
(Save Images/Videos)

**Built-in HD Camera**

**HDMI Output: View on HD Monitor**

**USB Output: Connect to PC**
(Software not included)

Inspect through a Monitor & Magnifying Lens

Frosted Diffuser w/ Color Temperature Controls

Tilt the camera to adjust the image on screen to your desired angle

## 5 Diopter
*(ESD Safe)*

**Learn more about the Mighty Vue Inspector!**

## 3 Diopter

## Specifications

| Model Number | 5 Diopter ESD Safe (Black): 26512-CAM | 3 Diopter (White): 26510-CAM |
|---|---|---|
| **Magnification** | 5 Diopter Version (Black): 2.25x | 3 Diopter Version (White): 1.75x |
| **Reach** | Up to 36" (914 mm) | |
| **Illumination** | 30 High Intensity 6500K (Cool) LEDs 30 High Intensity 3500K (Warm) LEDs | |
| **Output** | HDMI + USB | |
| **Price** | 5 Diopter ESD Safe (Black): $695.00 | 3 Diopter (White): $670.00 |

# Additional Magnifying Lamps From Aven

## In-X

- Interchangeable Lenses: No tools required
- Capable of 2.25x - 4.75x magnification with the optional lenses
- Ultra-bright LEDs with brightness intensity adjustment

**Starting at $187.10**

## ProVue

- 5" Round glass lens
- Crystal-clear viewing
- Adjustable ultra-bright LED illumination

**Starting at $133.63**

## OptiVue

- Compact & Convenient: 4" 5-Diopter glass lens and 11" flexible gooseneck arm
- Crystal-clear glass lens
- 36 High intensity energy saving SMD LEDs
- Features weighted base for lamp stability

**Starting at $106.28**

**Learn more about our magnifying lamps!**

# Cutters & Pliers

## Accu-Cut
### Cutters

- **Premium-Grade**
- Screw-Joint Construction
- ESD Safe Ergonomic Grips
- Dual Leaf Springs
- Forged Carbon Steel Cutting Heads Provide 63-65 HRC

**Starting at: $24.25**

## technik™
### Cutters & Pliers

- **Professional Grade**
- Induction Hardened Jaws
- Dual Leaf Springs
- ESD Safe Cushioned Grips
- Made from 400 Series Stainless Steel

**Starting at: $16.17**

## NIPTEC
### Cutters

- **Industrial-Grade**
- Lap and Rivet Joint Construction
- Compact Ergonomic Design with ESD Safe Grips
- Carbon Steel Narrow Cutting Heads Provide 56-58 HRC

**Starting at: $7.91**

# Accu-Cut

Premium Grade Cutters

# Precise Cut, Comfortable Grip, Exceptional Value

While precision cutters may look like simple tools, they require a specialized hand-finishing process for optimal performance. And because cutters are often used for extended periods of time, it is important to ensure that they are comfortable and responsive.

The Accu-Cut Cutter series is the culmination of our effort to provide a precise cut, comfortable ESD Safe grips, and responsive action to reduce hand fatigue. All at tremendous value, with an industry leading return on investment.

## ESD Safe Grips
Protects against electrostatic discharge

## Forged Steel Cutter Heads
Cutting edges have a hardness of 63 - 65 HRC

## Screw Joint Construction
Cutting edges stay in perfect alignment

## Ergonomic Design
Provides comfort, increasing productivity

**Dual Leaf Spring Release**
Reduces hand fatigue

**Screw Joint Construction**
Cutting edges stay in perfect alignment

**Forged Steel Blades**
Flush and Semi-Flush cutting finishes available

**ESD Safe Comfort Grips**
Comfortable for all hand sizes

### Flush

### Semi-Flush

### Learn more about our Accu-Cut Cutters!

## Specifications

| Model | Accu-Cut |
|---|---|
| Material | Forged Steel, Induction Hardened Blades |
| HRC Rating | 63 - 65 HRC |
| ESD Resistivity | $10^{10}$ per square inch |
| Price | Starting at $24.25 |

# Precision Tweezers

## Blu-Tek

Starting at: $12.50

- Stainless Steel Titanium PVD Infusion Process
- Scratch and Corrosion Resistant
- *Designed for Laboratory & Microscopy*

## Titanium

- Light Weight, Non-Magnetic
- ESD Safe
- *Designed for Precision Assembly*

Starting at: $32.61

## Technik

- Anti-Magnetic, Anti-Acid
- Stainless Steel
- *Designed for Laboratory & Microscopy*

Starting at: $6.16

## Artis

- Angled Bend: Reduces Hand Fatigue
- Stainless Steel, ESD Safe
- *Designed for Laboratory & Microscopy*

Starting at: $11.83

## E-Z Pik

- Color Coated to Easily Identify Tip Pattern
- 304 Stainless Steel: Anti Acid, Anti-Magnetic
- *Designed for Precision Assembly*

Starting at: $6.66

# Specialty Precision Tweezers

**Starting at: $19.58**

## Comfort Grip

- ESD Safe Cushioned Grips
- Stainless Steel
- *Designed for Precision Assembly*

**Starting at: $42.72**

## Carbofib

- ESD Safe, Non-scratching Polyetheretherketone Tips Reinforced w/ Carbon Fiber
- Chemical & Heat Resistant
- *Designed for Precision Assembly & Laboratory*

**Starting at: $38.43**

## Cutting

- Carbon Steel
- *Designed to Cut Soft Metal Wires*

## Plastic

- Wear & Heat Resistant
- *Designed for General Assembly Microscopy*

**Starting at: $3.00**

**Learn more about our tweezers!**

**40 AVEN** | Tools for Advancing Innovation™

EST. 1983

# Celebrating 40 Years of Advancing Innovation

In 1983, when Mike Shahpurwala and Bakir Kanpurwala started this business in Bakir's basement, it was hard to imagine that Aven would evolve from a jewelry tool supplier to a brand recognized for its innovation throughout multiple industries.

In honor of Aven's 40th anniversary, we would like to take a moment to express our sincerest gratitude and appreciation. The support from our customers and business partners have made this milestone possible and we thank you for choosing Aven.

Sincerely,
The Aven Family

**1983**
Aven Tools is founded

**1985**
Aven Faceting Machine

**1991**
Carbo Fib Tweezers Introduced

**1999**
Aven Introduces Stereo Microscopes

**2007**
ViewPoint 600 Video Inspection System

**2011**
Aven ZipScope USB Digital Microscope

**2014**
The First Cyclops Digital Microscope is introduced

**2017**
Mighty Cam Eidos - 5M Camera w/ Integrated 11.6" Monitor

**2020**
Mighty Vue Pro ESD Safe Magnifying Lamp with UV/White LEDs

1983    1987    1997    2005    2009    2013    2015    2018    2023

1985    1991    1999    2007    2011    2014    2017    2020

**1983**
Aven Begins Offering a Variety of Pliers, Cutters, and Tweezers

**1987**
Double Clamp & Magnifier

**1997**
Aven Introduces Magnifying Lamps

**2005**
The First Mighty Scope is Introduced

**2009**
iVue & iScope Digital Microscope

**2013**
Mighty Vue Magnifying Lamp

**2015**
Sirrus LED Task Lights

**2018**
In-X Interchangeable Magnifying Lamp

**2023**
Mighty Vue Inspector (*magnifying lamp with built-in camera*)