



Product **Line**

High performance precision tools and optical inspection systems for Industrial, Scientific and Research applications



zipSCOPE
CONFIGURATIONS

10-200x

10-120x Wireless



MIGHTY SCOPE
CONFIGURATIONS

10-200x

10-200x w/Polarizer

500x

UV

Near Infrared



Digital Microscopes

Digital image capture, storage and manipulation is ushering in a new age in microscopy. Digital microscopes provide you a broader range of functionality, flexibility and portability, expanding your capabilities beyond the traditional optical laboratory microscope.



MICROSCOPES
FEATURES

Large selection of bodies and accessories

Create your own system on our website

Online Web-Ex demos and technical assistance

Microscopes

Our Stereo Microscopes and Stereo Zoom Microscopes are manufactured exclusively for Aven by Carton Optical of Japan. Over the past 40 years, Carton Optical has built a reputation for providing **the very best** in optical performance and durability. Aven Stereo Zoom Microscopes are clearly the superior choice.



VIDEO INSPECTION
FEATURES

Macro Systems

Micro Systems

Create your own system on our website

Video Inspection

Aven offers a variety of Video Inspection Systems ideal for inspection of a wide range of objects such as integrated circuits, solder joints, surface analysis, quality control, laboratory inspection, defect analysis, semiconductor inspection, metrology, biomedical imaging, or assembly applications where an easy to view, sharp and true-to-life magnified image is required. A wide range of adapters & auxiliary lenses, cameras, lighting options, video capture cards, and stands are available to provide a custom solution.



- DIGITAL CAMERAS**
FEATURES
- USB with Image Capture and Measurement Software
 - VGA, VGA with SD Card, VGA with SD Card and Measurement Software
 - USB with built in screen and SD Card



Digital Cameras

for Microscopy & Video Inspection

Our digital cameras are available with CCD (charge coupled device) or CMOS (Complementary Metal Oxide Semiconductor) sensors in various resolutions. We recommend these cameras for applications where you need to capture images for further analysis or record keeping. Digital Cameras provide higher resolutions than analog cameras. Available in various configurations to meet your specific applications.

- ILLUMINATION**
FEATURES
- Fluorescent
 - LED
 - Fiber Optic



Illumination

for Microscopy & Video Inspection

Aven carries a variety of lighting options. Fluorescent ring lights are designed for applications requiring a high quality illuminator. White LED ring lights are designed to be used with standard microscopes and video lenses, they provide a stable bright light at a very low temperature. Fiber optic illuminators are often referred to as "cold light" illuminators because they provide high intensity focused light without the heat typically associated with high intensity lamps.



- SHOP MICROSCOPES AND MAGNIFIERS**
FEATURES
- Pocket microscopes with LED Light
 - Eye Loupes with LED light
 - Loupes with scales for measurement and inspection
 - Headband Magnifiers

Shop Microscopes & Magnifiers

We offer a variety of shop microscopes and magnifiers for surface inspection and quality control.

- TASK LIGHTS**
FEATURES
- Fluorescent Lighting
 - LED Lighting



- MAGNIFYING LAMPS**
FEATURES
- Spring Balanced Arms
 - LED Lighting
 - Fluorescent Lighting
 - 3 and 5 Diopter magnification

Magnifying Lamps & Task Lights

Quality magnifying lamps and Task Lights designed for demanding professionals. Models available with fluorescent and LED lighting. Magnifying Lamps come in 3 and 5 diopter versions.



- | PLIERS & CUTTERS
FEATURES |
|------------------------------|
| Different Cutting Edges |
| Hard Wire Cutter |
| Specialty Pliers |

Precision Pliers & Cutters

We offer a large selection of precision pliers and cutters to fit your budget and specific requirements. Cutters available in carbon and stainless steel with razor flush, flush and semi-flush cutting edges. Hard wire cutters available for cutting fine stainless steel, nitinol and nickel wires. Pliers with handcrafted jaws for precision assembly and forming. Specialty pliers: Parallel Action, Stainless Steel Vice Grips, Neiji Saurus for removing rusty screws.



- | TWEEZERS
FEATURES |
|---|
| Precision for microelectronics and micro assembly |
| Regular and with cushion comfort grips |
| Ceramic Teflon Coated Plastic Regular ESD safe Brass, anti-sparking Titanium E-Z Pick Colored |
| General Purpose |

Tweezers

Aven offers you one of the largest selection of tweezers in the industry. In this section you will find tweezers you need to meet your specific application. Tweezers are offered in a variety of materials, configurations and quality grades.



- | SMART TWEEZERS & PEN METER
FEATURES |
|---|
| Quickly test circuit boards |
| Compact, lightweight |
| Comfort Grips |
| Now Available - Rechargeable Smart Tweezers |

Smart Tweezers & Pen Meter

Surface mount devices are usually tiny and without wire leads, making it much more difficult to test and identify SMD than conventional components. Smart tweezers and Pen meter gives users an easy way to sort and evaluate loose components and to perform on-board measurements and debugging.



- | PRECISION SCREWDRIVERS
FEATURES |
|---|
| Available in sets and individual sizes |
| Also available with ceramic blades |
| Duplex component handle designed for rapid rotation and greater comfort |
| Fast turning swivel caps |

Precision Screwdrivers

Precision Screwdrivers are designed for working with electronics, precision components and small parts assembly.



**PRECISION
KNIVES & BLADES**
FEATURES

- Stainless Steel and Carbon Blades
- Variety of knife handles
- Available in sets



Precision Knives & Blades

Designed for precise cutting. Aven also carries a variety of blades in stainless steel and carbon and knife handles to choose from. Sets are also available.

**HEMOSTATS
& PROBES**
FEATURES

- Stainless Steel
- Variety of sizes



SCISSORS
FEATURES

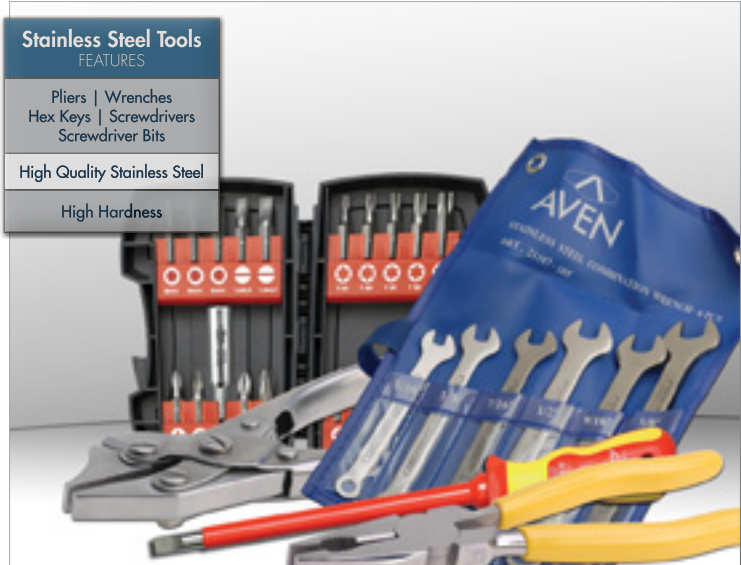
- Ceramic | Stainless Steel
- Specialty Versions

Scissors, Hemostats & Probes

Scissors are available in ceramic and stainless steel with special scissors available for cutting nylon kevlar fiber, leather, coaxial cable and other difficult to cut materials. Aven also offers a line of stainless steel probes for soldering and desoldering, and hemostats in stainless steel in a variety of sizes.

Stainless Steel Tools
FEATURES

- Pliers | Wrenches
- Hex Keys | Screwdrivers
- Screwdriver Bits
- High Quality Stainless Steel
- High Hardness



Stainless Steel Tools

Ideal for critical applications in Pharmaceutical Processing, Biotech, Medical Device Manufacturing, Clean Rooms, Food Processing, Aerospace and Chemical Industries, Offshore and environmental engineering, and etc.



Bench Top Accessories

Aven offers a variety of bench top accessories from; Smoke Absorbers Static Eliminator, ESD Safe Brushes, Solder Pots, Desoldering Pumps and Desoldering Wick.



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