

# Bender Associates, Inc.

Over 30 years of dependable service  
5030 S Mill Ave Suite C2  
Tempe, AZ 85282  
(480)820-0900  
www.benderassoc.com



**Microscopes** for the semiconductor, metallurgical, geological, medical research, clinical fields, dissection stereos, forensic comparison, XYZ Toolmaker's measurement and many more!  
Besides the manufacturers listed below, we also deal with **Nikon, Olympus, Leica and Zeiss.**



## ACCU-SCOPE

Biomedical life science, clinical, education, research and industrial stereo microscopes. Very economically priced.



## LABOMED

Education, clinical, laboratory, asbestos, industrial and stereo microscopes. Medical surgical microscopes for ENT, OB/GYN, dental and eye care.



## MEIJI

Biomedical, clinical, education, asbestos, industrial and stereo microscopes. Digital and HD 1080P imaging cameras with measurement software. XYZ Measuring microscopes.



## MOTIC

Educational, clinical, biomedical, asbestos, industrial & stereo microscopes. Digital microscopes and cameras. Wireless WiFi cameras. PSM-1000 Prober microscope with SLWD objectives. Digital high resolution histology and pathology slide scanners.



## NAVITAR

Ultra high resolution RESOLV4K Zoom, high magnification 12X Zoom & Zoom 6000, fixed magnification Precise Eye, motorization lens options. CCTV, macro, large format, high speed & bi-telecentric lenses. Custom optical design and consultation.



## SCIENSCOPE

Macro & Micro HD 1080P Video Inspection Systems. Industrial stereo microscopes with many stand options. Video Measurement Systems & VCMMs. X-Ray Inspection Tools.



## SEIWA OPTICAL

PS-888 Prober microscopes with Super Long Working Distance objectives for brightfield, NIR, IR, UV and DUV. Modus 12Z Digital microscope & IR-2200 infrared microscope & objectives. Infrared thermal imaging cameras including CMOS NIR and InGaAs NIR.



## UNITRON

Upright inverted industrial metallurgical & stereo microscopes. Digital and Excelis HD 1080P cameras and measurement software. Rollscopes and Comparison forensic microscopes. OMNI and Inspex HD 1080P Digital Imaging Systems.



## VISION ENGINEERING

Mantis & Lynx Optical Instruments with 3D viewing screens. EVO Cam and VisionZ2 HD 1080P Digital Inspection Systems. Non-Contact Measurement systems with viewing screens.

Bender Associates, Inc. is a leading supplier of Optical Microscopy, Digital Imaging, Measurement, Security Identification and Access Control products.

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## Digital Scientific Cameras & Measurement Software



### LUMENERA

INFINITY microscope cameras with CMOS, CCD, Full HD, and Pixel Shifting  
Research-Grade, high-sensitivity cameras - high dynamic range and low noise  
Advanced scientific cameras for low-light fluorescence and electro-physiology  
High performance USB 3.0 cameras with advanced Sony un-cooled sensors  
New USB 3.0 cameras with Sony Pregius sensors – soon to be released



### JENOPTIK

Revolutionary Gryphax USB 3.0 cameras with extra-wide scientific CMOS sensors for high resolution imaging with wide fields-of-view.

Advanced Gryphax imaging software with continuous updates.  
ProgRes series of USB 2.0 cameras with fast frame rate sensors.



### QIMAGING

Color and monochrome cameras for advanced scientific imaging.  
CCD and sCMOS Cameras, for fluorescence imaging  
Retiga LUMO for bioluminescence and Retiga ELECTRO for electrophysiology  
CCD USB 3.0 cameras for imaging, documentation and publishing

## Image Analysis & Measurement Software



### MEDIA CYBERNETICS

Image-Pro Premier and Image-Pro Insight 2D software  
Imaging tools for Live Extended Depth of Focus and Live Tiling  
Image-Pro Premier 3D software for 3-dimensional image files  
AutoQuant X3 Deconvolution software with 2D and 3D algorithms  
Image-Pro Plus Legacy software



### VISION X

VisionGauge Standard, Motorized and OnLine programmable softwares  
Wide Field-of View High Resolution Telecentric measurement tools  
Cartesian Measurement Systems for large format products  
High-Accuracy High Speed Automated AOI Systems

## Automation & Motorization



### PRIOR SCIENTIFIC

Biomedical & Industrial motorized stages  
ProScan & OptiScan motorized stages and focus drives  
ProZ stands with motorized Z columns and stages  
NanoScanZ Piezo stage  
Lumen metal-halide and LED illuminators for fluorescence  
Micromanipulators, high-speed filter wheels and shutters  
Well plate and microscope slide automated handlers

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## SEMPRES

Manual & motorized stages for Zeiss, Olympus, Nikon, Leica and more  
Motorized focus drives  
Measuring stages  
Custom microscope stands



## LUDL ELECTRONIC PRODUCTS

BioPrecision & BioPoint motorized stages  
Piezo-Z stage inserts  
Semiconductor motorized stages  
Dual-arm robotic wafer handlers

## Metrology & Measurement



## MITUTOYO

World's largest metrology company with a full catalog of hand tools and automated measurement tools  
Finescope prober microscopes with super long working distance objectives  
Objectives for brightfield, darkfield, NIR, NUV and laser microscopes  
Measurement Microscopes with high resolution linear scales or micrometers  
Automated Video CMMS and other high-tech metrology tools



## BOECKELER

High resolution digital micrometers & positioners  
Linear Measuring Systems with Microcode II Digital Readouts  
Digital Linear Gauges and Dial Indicators  
VIA Video Measuring Systems & Crossline Generators  
JV Series Video, Marker & Comparator Generators



## HEIDENHAIN & ACU-RITE



Linear Encoders & Digital Readouts  
Angular/Rotary Encoders & DROs  
Digital Length Gauges & DROs  
Quadra-Chek Digital Readouts for 2D & 3D geometric measurement  
Quadra-Check retrofits for comparators & CMMs

## Lighting for Microscopy & Machine Vision



## Dolan-Jenner

Leading fiberoptics manufacturer for over 50 years  
Ringlights, goosenecks and flexible cables for microscopy  
Numerous designs for machine vision illumination  
Diffuse On-Axis, Back Light and Line Light fiberoptics  
LED, quartz-halogen & metal halide light sources  
LED light source retrofits for quartz-halogen  
Custom and Quartz fiberoptics for UV and IR illumination

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## TechniQuip

Industrial, medical and machine vision illumination systems  
Standard and custom fiberoptics for microscopy and machine vision  
LED and quartz-halogen light sources  
LED Ringlights in many intensities and sizes  
Fiber optic ringlights, goosenecks and flexible cables for microscopy  
Custom and OEM illumination and fiberoptics



## ScopeLED

LED illumination for microscopy  
B Series lamphouses for brightfield, darkfield. Polarized light & Nomarski DIC  
F Series lamphouse for fluorescence at different wavelengths  
G Series light sources for fiberoptics  
Retrofits for quartz-halogen, mercury and metal halide arc light sources



## 89 North

LED and metal-halide illumination for microscopy and research  
LM-75 PhotoFluor lamphouse for mercury illumination replacement  
Advanced imaging and illumination products for research and OEM



## Excelitas

LED and Metal-halide light sources for microscopy  
X-Cite light sources for mercury and Xenon illumination replacement  
Industrial scientific, medical, dental and surgical illumination systems  
Advanced X-Cite LED light sources for fluorescence

## Digital & HD 1080P Cameras & Measurement Software

Spot Imaging (Diagnostic Instruments)

Unitron & AccuScope Excelis HD 1080P

Motic Moticam

PixelLINK

Sciencescope HD 1080P

Dage-MTI

dPic Imaging

Hitachi

Sentech

SONY

Toshiba

Allied Vision (Prosilica)

FLIR (Point Grey)

## LENSES

Navitar

Excelis (Qioptiq & Optem)

Tamron

## FILTERS & FLUORESCENCE

Chroma Technology

Midwest Optical

Omega Optical

## LIGHTING FOR MICROSCOPY & MACHINE VISION - LED, FIBEROPTIC & FLUORESCENT

CoolLED

Fiberoptics Technology

SCHOTT

StockerYale fluorescent

Volpi USA

Advanced Illumination

CCS America

Microscan (Nerlite products)

## BULBS

Ushio

Osram-Sylvania

Phillips

GE

Eiko

## COMPARATORS (Profile Projectors)

Mitutoyo

ST Industries (Scherr-Tumico)

## BORESCOPES

Titan Tool

Scope Technology

## VIBRATION ISOLATION SYSTEMS

TMC

Kinetic Systems

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