



**SharpVue**  
PRECISION. TECHNOLOGY.  
A Division of AVEN Incorporated

# Meet Your Next Optical Inspection System



All-in-one **iVue** and **iScope**

# iVue

## Advanced Video Inspection System

### JUST PLUG AND GO

#### Practical Features

- 12-inch adjustable monitor
- On-screen measurement in varied orientations
- Simple image capture directly from screen to USB stick or internal hard drive
- Touch-screen virtual keyboard for annotation
- 3-megapixel high resolution camera built in
- 3-quadrant LED lighting system built in
- Laser pointer to easily find location on viewed object
- VGA output for projector or larger monitor
- LAN (Ethernet) connectivity
- Wireless Internet capability

#### Valuable Benefits

- No need for laptop, camera, light source, stand, software
- No training required – help menus accessible on screen
- Reduce inspection time
- Improve efficiency and productivity
- Share images easily
- Ease vision fatigue
- Small footprint – major reduction of bench space
- Readily portable – just unplug and carry

### SELF-CONTAINED CONVENIENCE

Innovative breakthrough greatly enhances optical inspection and digital image capture capabilities with ready-to-use simplicity. The iVue is a free-standing, easily moved system with no compatibility concerns.

Unique | Precise | Compact

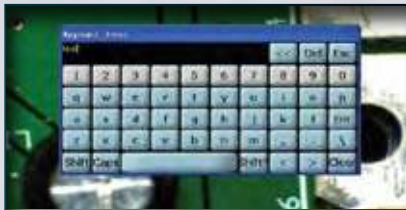


# Fully Integrated Systems Ready to Use

## COMPARE YOUR OLD EQUIPMENT

DOES YOUR OPTICAL INSPECTION SYSTEM OFFER PLUG-AND-PLAY EASE? IVUE AND ISCOPE DO.  
CAN YOU ELIMINATE MULTIPLE DEVICES AND CABLES CROWDING YOUR BENCH? IVUE AND ISCOPE USERS DO.  
DO YOU SQUINT AT A SMALL, DISTANT SCREEN OR HUNCH OVER AWKWARDLY? IVUE AND ISCOPE USERS DON'T.

### Integrated, pre-assembled ease



#### Virtual Keyboard

- Add text and symbols with on-screen keys
- Capture images by just touching 'Grab' and 'Save'
- If preferred, simply plug your keyboard and mouse into USB port



#### Annotation

- Touch-screen display creates moveable, fully customizable text boxes
- Users select font, size and color to annotate captured images
- Arrows and lines are added and manipulated easily



#### Measurement

- Precise distances between points or geometries are calculated quickly on screen
- Saved measurements appear on captured images
- Snap feature finds corners and edges
- Other advanced measurements are standard or available with iGauge software upgrade

## SHARPVUE USERS GAIN 21<sup>ST</sup> CENTURY EDGE

Speed | Top Quality | Accuracy

### Inspection

- Check welds, tubes, hoses, precision parts and other manufactured products in Quality Control lab or on assembly floor
- Detect and document gaps, hairline cracks, fractures or other microscopic defects

### Analysis

- Data capture and immediate team collaboration via networked units
- Document material and process conformance
- Database archive for continuous quality improvement, documentation and ISO certification

### Research

- Evaluation of prototypes
- Medical and pathology lab work
- Scientific studies and cataloging
- Law enforcement investigations

### Education

- Presentation slides
- Illustrations for training manuals, scholarly publications, academic use
- Lecture demonstrations using VGA display on a projector or large monitor



# iScope

## Microscope and Video Inspection

NO EXTRA SOFTWARE /  
OR HARDWARE

### Practical Features

- Full three-dimensional microscopic inspection at eye level
- 12-inch monitor – tilting screen, adjustable height
- On-screen measurement and zoom -- varied orientations
- Easy image capture from screen to USB stick or hard drive
- Custom annotation via virtual keyboard on screen
- 3-megapixel high resolution camera built in
- 4-quadrant LED lighting system built in
- Operating software included
- Laser pointer tool
- VGA output for projection clarity on monitor
- LAN (Ethernet) connectivity for instant collaboration
- Wi-Fi card included for emailing images

### Valuable Benefits

- No separate equipment or software necessary
- No training – help menus accessible on screen
- Reduce inspection time
- Gain productivity and efficiency
- Share images easily via email or networked iScopes
- Eye-level viewing eases vision, back and neck fatigue
- Compact footprint – major reduction of bench disarray
- Readily portable – just unplug and move single unit



### SOPHISTICATED FUNCTIONALITY

Self-contained digital invention consolidates 3D microscopic viewing with image capture, on-screen keyboard, patented lighting system and network viewing capability. Plug-and-play unit avoids workbench disarray, user strains and multiple connections.



**3-D capability:** Viewer that attaches easily to the iScope uses a mirror angled at 45 degrees to deliver images with three-dimensional effect.

Unequaled | Powerful | Adaptable

# Exclusive Lighting Technology



## LED SYSTEM IS UNIQUE

Microscopic inspection illumination with precision, intensity and flexibility assures clear, crisp images. Long-life LED system, patented by SharpVue, is available only on iVue and iScope.

## ADVANTAGES

- ▣ Angle and height adjustments provide optimal image clarity
- ▣ Quadrant controls allow custom-lighting of area needed (3 sectors on iVue, 4 on iScope)
- ▣ Laser pointer shows exact location of defect or other spot on viewed object
- ▣ Each quadrant can be adjusted by height and on horizontal plane
- ▣ Brightness controls add flexibility

Innovative | Precise | Adaptable

# Virtual Keyboard Speeds Annotation



## ADD NOTES WITH FINGERTIP EASE

It's simple to post measurements, comments, job numbers, dates or other references directly onto captured images. Touch-screen technology puts the ability at your fingertips, literally.

## ADVANTAGES

- ▣ Insert moveable, fully customizable text boxes from on-screen menu
- ▣ Pointers and illustrative lines are dropped in and adjusted handily
- ▣ Select font, size, color and other variables, just as when creating any document
- ▣ Pressure-response virtual keyboard also allows image sharing

Convenient | Flexible | Intuitive

## ENGINEERED AND BUILT WITH PRIDE IN THE USA

Our digital inspection technology is designed and manufactured in America.



Quality and experience are paramount when evaluating precision instruments.

SharpVue, located in the high-tech corridor of Ann Arbor, Michigan, is a division of Aven Incorporated -- an electronics innovator and provider of advanced visual inspection systems since 1983.

Specifications	iVue	iScope
Microscope Magnification	---	10x – 44x
Screen Magnification	3.2x – 31.3x	38x – 168x
Screen / Monitor Size	12"	12"
Display Resolution	1024 x 786	1024 x 786
Focus	Manual	Manual
Working Distance	6"	3.54"
Camera	3MP 1/2" CMOS	3MP 1/2" CMOS
Field of View @ min. mag	92.2 x 74.6 x 56.4 (D x H x V)	23 (Scope)
Field of View @ max. mag	9.6 x 7.8 x 5.9 (D x H x V)	5.2 (Scope)
Camera Viewing Angle	45° – 90°	90°
Capture Image to USB Stick	BUILT-IN	BUILT-IN
USB Image Capture/Transfer	BUILT-IN	BUILT-IN
Capture Software	BUILT-IN	BUILT-IN
VGA Out to Monitor	YES	YES
On-Screen Annotation	YES	YES
E-Mail Image Directly	YES	YES
Laser Pointer	YES	YES
On-Screen Measure Grids	YES	YES
On-Screen Digital Zoom	YES	YES
Lighting Options	3-quadrant LED	4-quadrant LED



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LEARN MORE ABOUT  
OUR PRECISION TECHNOLOGY:

Watch short videos at [www.sharpvue.com](http://www.sharpvue.com)

4595 Platt Road, Ann Arbor, MI 48108

Phone: 734-973-0099

Fax: 734-973-0097

Email: [sales@sharpvue.com](mailto:sales@sharpvue.com)