SCIENSCOPE
We Sell Solutions

DIGITAL
INSPECTION

All-One
VersaCam
Mac3
SmartCam-Ultra
SmartCam-Ultra AF

Scienscope International at a Glance

Eddy Lin founded Scienscope in 1995 to meet the growing need for reliable and affordable general-purpose optical and video inspection solutions for the electronics and PCB industries. Surface Mount Technology was a new concept. At that time, inspection=magnifier, and Eddy realized a demand for more magnification for inspection and rework. The name Scienscope consists of two words, Scientific and microscope.

"My educational background is in optical system design, leading microscope, and telescope. So I chose the Stereo zoom microscope as the suitable solution for SMT because this scope provides a 3D image through a range of magnifications, perfect for the new market demand. "

The company began with basic stereo zoom microscopes used for SMT inspection and reworking circuit boards and electromechanical assemblies with a commitment to quality, value, and support. Over the past 26 years, Scienscope has become a complete inspection solution provider. Offering offline and inline X-Ray systems, Video coordinate measurement systems, Video inspection systems, and microscopes to meet various applications and manufacturing quality requirements.

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Designed to make your quality inspection and documentation processes as easy

ALL-ONE 4K DIGITAL CAMERA
CC-SMART-A1-4K

The NEW 4K All-One Camera from Scienscope is THE advanced all-in-one inspection solution—all you need to inspect or convert any optical microscope system into a powerful digital inspection tool. The 4K All-One(AO) includes internal software-controlled optics, integrated image processing and capture software, measuring tools with an onscreen magnification display, integrated LED lighting, and a mounting adapter. Experience full 4K image quality with no image delay. Measure anything using the onboard field-of-view measuring tools, DXF overlay, or multi-line generator. Export your measurement data and images with measured objects!
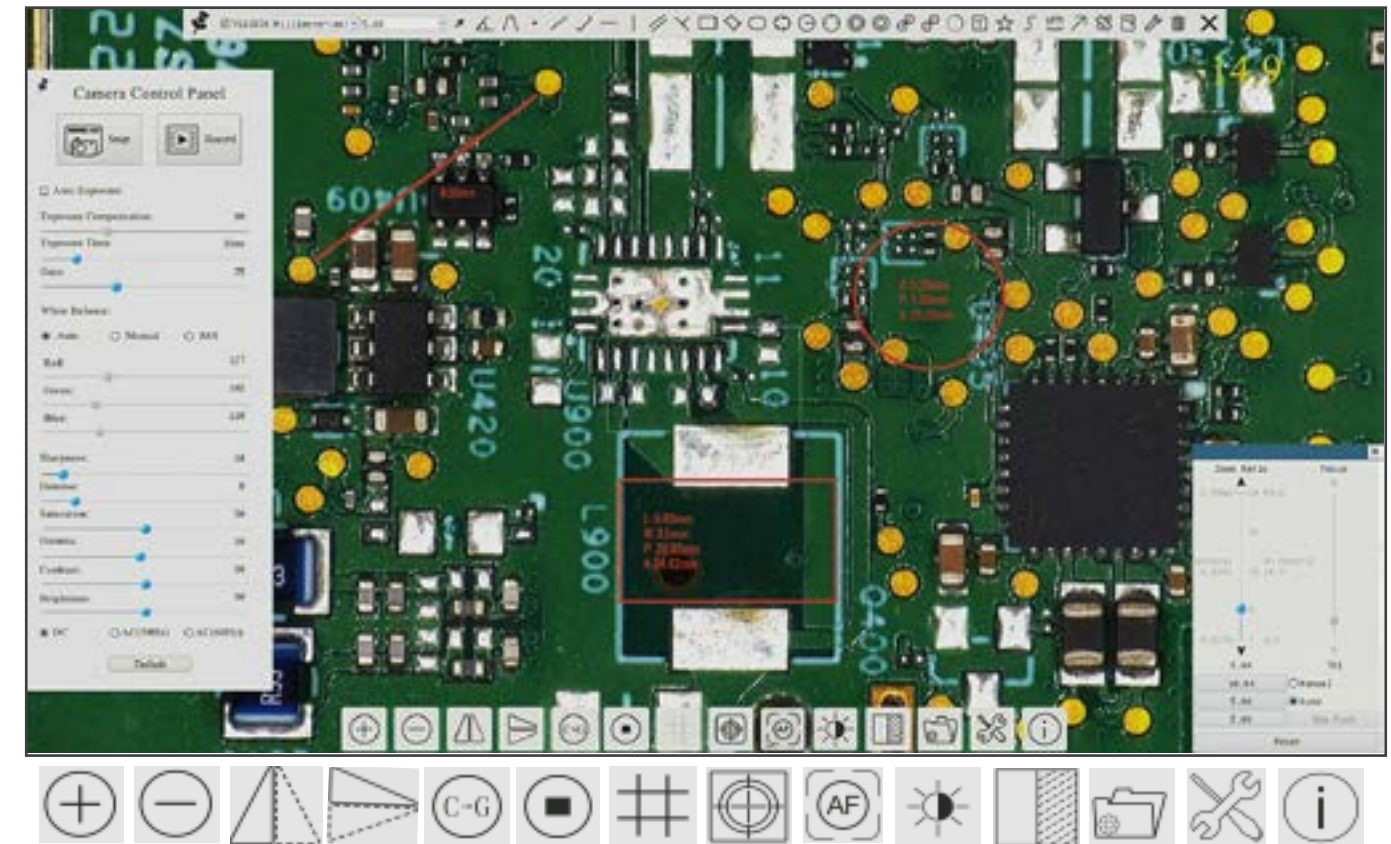
ALL-ONE CAMERA OVERVIEW & FEATURES

- Optics consist of 5 groups with 16 elements, offering a 20X zoom ratio and up to 90X magnification.
- Motorized Zoom / Auto and manual focus
- 192mm standard working distance with 150-195mm depth of field
- Removable/Integrated LED ring light
- 76mm diameter adapter bracket and ¼" 20 mounting thread for mounting
- Sony 1/2.8" 4K Starvis CMOS
- 4K/1080P @30FPS auto switching according to monitor resolution
- SD card/USB flash drive stores image and video capture, support local preview/playback
- 4K HDMI/USB/ETH/WiFi multiple video outputs
- Embedded mouse control panel, Measurement Toolbar, Comprehensive Control Toolbar, Auto-focus, and zoom control panel
- Onscreen magnification display

ALL-ONE INTEGRATED SOFTWARE FEATURES

- Image and video capture to SD card or USB Flash drive
- Split-screen live image/captured image comparison
- Image and video gallery / Image and video review
- Wireless mouse control

Integrated Software with Convieniently Located Control Bar

Icon	Function		Icon	Function
⊕	Digital Zoom / Increase Magnification		AF	Auto Focus/ Optical Zoom Menu
⊖	Digital Zoom / Decrease Magnification			Side-by-Side Live/Captured Image Comparison
	Flip Image Horizontal			File Explorer/Gallery/ SD Card Management
	Mirror Image Vertical		✕	Settings
■	Freeze Image / Unfreeze Image Toggle		#	Digital Line Generator
i	Software Info		C-G	Color to Black and White Toggle

HD   CMOS   HDMI   USB   SD

ALL-ONE DIGITAL INSPECTION SYSTEMS

MAC-PK1-A1-4K

- Features NEW All-One 4K UHD Camera with integrated optics (80x Max) and integrated diffused LED ring light and mounting adapter
- Integrated diffused LED ring light
- Mounting adapter
- SD or USB card capture
- Includes 23" HD LCD monitor
- Capture software

MAC-PK3-A1-4K

- Features NEW All-One 4K UHD Camera with integrated optics (80x Max) and integrated diffused LED ring light and mounting adapter
- Integrated diffused LED ring light
- Mounting adapter
- SD or USB card capture
- Includes 23" HD LCD monitor
- Capture software
- Heavy duty articulating arm stand

MAC-PK5S-A1-4K

- Features NEW All-One 4K UHD Camera with integrated optics (80x Max) and integrated diffused LED ring light and mounting adapter
- Integrated diffused LED ring light
- Mounting adapter
- SD or USB card capture
- Includes 23" HD LCD monitor
- Capture software

MAC-PK5D-A1-4K

- Features NEW All-One 4K UHD Camera with integrated optics (80x Max) and integrated diffused LED ring light and mounting adapter
- Integrated diffused LED ring light
- Mounting adapter
- SD or USB card capture
- Includes 23" HD LCD monitor
- Capture software
- Dual arm boom stand

ALL-ONE INSPECTION SYSTEM SPECIFICATIONS

ALL-ONE OPTICAL SPECIFICATIONS

Working Distance (mm)	156mm - 196mm
Zoom Range	0,028x to 0.56x
MTF (lp/mm)	160mm
Distortion	0.5%
FOV@1.0X (mm)	200mm X 112.5mm
FOV@20X (mm)	10mm x 5.6mm

ALL-ONE LED LIGHT SPECIFICATIONS

LED	8 CREE XP-E2 @ 137 Lumen each
Color	White
Power	3V/ 3A
Inner Dia (mm)	50mm
Out Dia (mm)	76mm

ALL-ONE CAMERA SPECIFICATIONS

Sensor & Size (mm)	Sony IMS462LQR-C1/2.8" (5.57mm X 3.13mm)
Pixel (µm)	1.45x 1.45
G Sensitivity Dark Signal	300mv/0.13 with 1/30s
FPS/Resolution	30@3840*2160(HDMI)
Binning	1x1 Plan
Exposure	0.04ms ~ 1000ms

ALL-ONE DIGITAL CAMERA
CC-SMART-A1

The All-One Camera is an advanced all-in-one inspection solution—all you need to inspect or convert a microscope system into a powerful digital inspection tool. All-One(AO) includes internally controlled optics, integrated image processing and capture software, with an onscreen magnification display, integrated LED lighting, and a mounting adapter.

Experience full HD image quality with no image delay-the perfect solution for those wishing to digitize and simplify their inspection process.
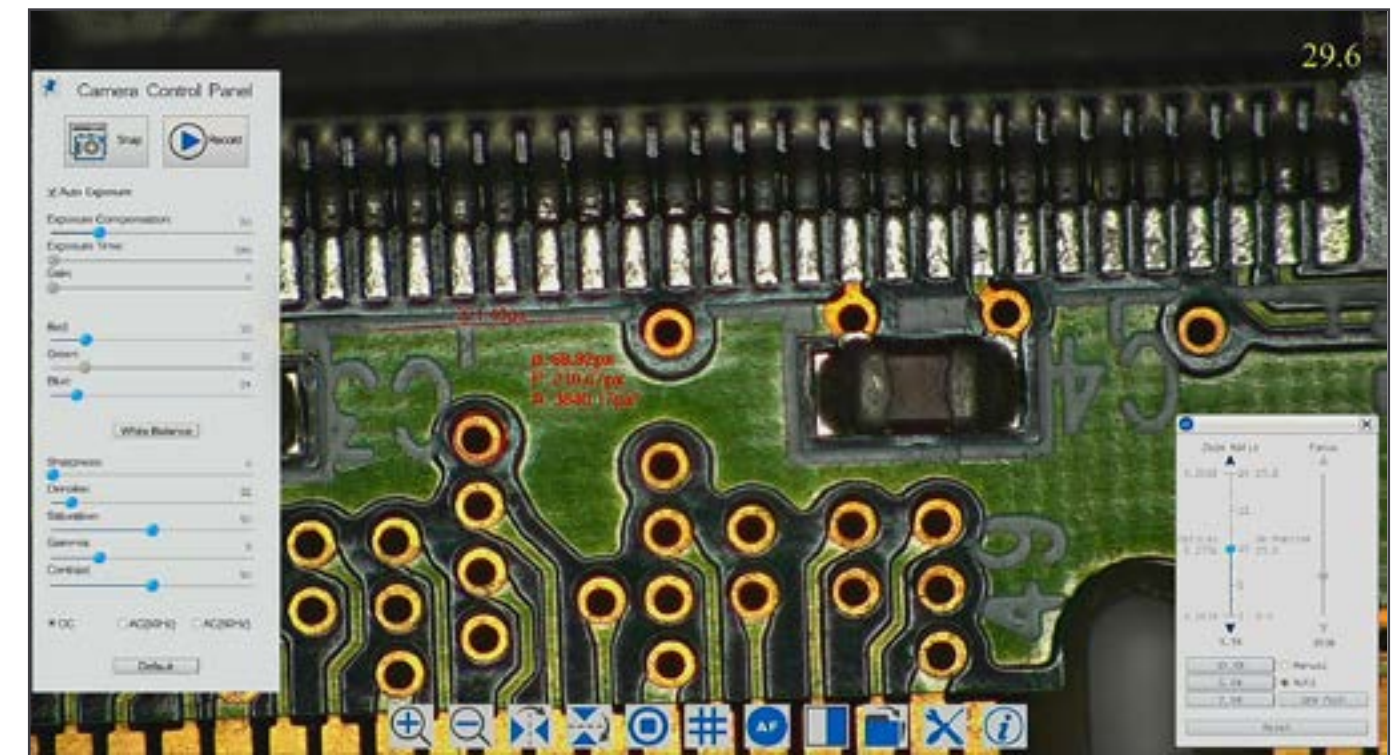
They are ergonomically designed, allowing for less operator fatigue and improved production efficiency—simple, fast, high-quality inspection. Ideal for repair, rework assembly, and quality control in any manufacturing industry.

ALL-ONE CAMERA OVERVIEW & FEATURES

- Optics include five groups of 16 elements with a 20X zoom ratio. Up to 50x magnification
- Motorized Zoom
- Auto and manual focus
- 195mm standard working distance with 156-196mm depth of field
- Field of view 200mm x 112.5mm at low magnification. Field of view 10mm x 5.6mm at high magnification
- Removable/Integrated LED ring light
- 76mm diameter adapter bracket and ¼" 20 mounting thread for mounting
- Sony 1/2.8" 1080P CMOS with a high signal-to-noise ratio
- Output HDMI to monitor with 1080P@60FPS
- SD card storage for 1080P pictures and video
- Embedded mouse control panel, Comprehensive Control Toolbar, Auto-focus, and zoom control panel
- Onscreen magnification display

ALL-ONE INTEGRATED SOFTWARE FEATURES

- Image and video capture to SD card or USB Flash drive
- Split-screen live image/captured image comparison
- Image and video gallery / Image and video review
- Wireless mouse control

Integrated Software with Convieniently Located Control Bar

Digital Zoom / Increase Magnification

Digital Zoom / Decrease Magnification

Flip Image Horizontal

Mirror Image Vertical

Freeze Image / Unfreeze Image Toggle

Auto Focus/ Optical Zoom Menu

Side-by-Side Live/Captured Image Comparison

File Explorer/Gallery/ SD Card Management

Settings

Digital Line Generator

ALL-ONE DIGITAL INSPECTION SYSTEMS

ALL-ONE INSPECTION SYSTEM SPECIFICATIONS

MAC-PK1-A1

- Features NEW 1080p HDMI/USB All-One camera with inrgrated optics (50x Max)
- Integrated diffused LED ring light
- Mounting adapter
- SD or USB card capture
- Includes 23" HD LCD monitor
- Capture software

MAC-PK3-A1

- Features NEW 1080p HDMI/USB All-One camera with integrated optics (50x Max)
- Integrated diffused LED ring light
- Mounting adapter
- SD or USB card capture
- Includes 23" HD LCD monitor
- Capture software
- Heavy duty articulating arm stand

MAC-PK5S-A1

- Features NEW 1080p HDMI/USB All-One camera with integrated optics (50x Max)
- Integrated diffused LED ring light
- Mounting adapter
- SD or USB card capture
- Includes 23" HD LCD monitor
- Capture software

MAC-PK5D-A1

- Features NEW 1080p HDMI/USB All-One camera with integrated optics (50x Max)
- Integrated diffused LED ring light
- Mounting adapter
- SD or USB card capture
- Includes 23" HD LCD monitor
- Capture software
- Dual arm boom stand

ALL-ONE OPTICAL SPECIFICATIONS

Working Distance (mm)	156 - 196mm
Zoom Range	0,028x to 0.56x
MTF (lp/mm)	160mm
Distortion	0.5%
FOV@1.0X (mm)	200mm X 112.5mm
FOV@20X (mm)	10mm x 5.6mm

ALL-ONE LED LIGHT SPECIFICATIONS

LED	8 CREE XP-E2 @ 137 Lumen each
Color	White
Power	3V/ 3A
Inner Dia (mm)	50mm
Out Dia (mm)	76mm

ALL-ONE CAMERA SPECIFICATIONS

Sensor & Size (mm)	Sony IMS462LQR-C1/2.8" (5.57mm X 3.13mm)
Pixel (µm)	2.9 x 2.9
G Sensitivity Dark Signal	921 mv with 1/30s and 0.15 mv with 1/30s
FPS/Resolution	60FPS @ 1920x1080
Binning	1x1
Exposure	0.06ms ~ 918ms

VERSA CAM

CC-HDMI-CD2

Our industry-standard Macro video/digital inspection systems now feature the powerful Versa-Cam. The Versa-Cam can be used as a "live image" HD (1080p) camera connected to a monitor using an HDMI cable or as a USB 2.0 camera with a USB cable connected to any computer or Windows Tablet. Now the choice between live HD monitor inspection and high-resolution USB camera capture and annotation is made at the camera...not between cameras.
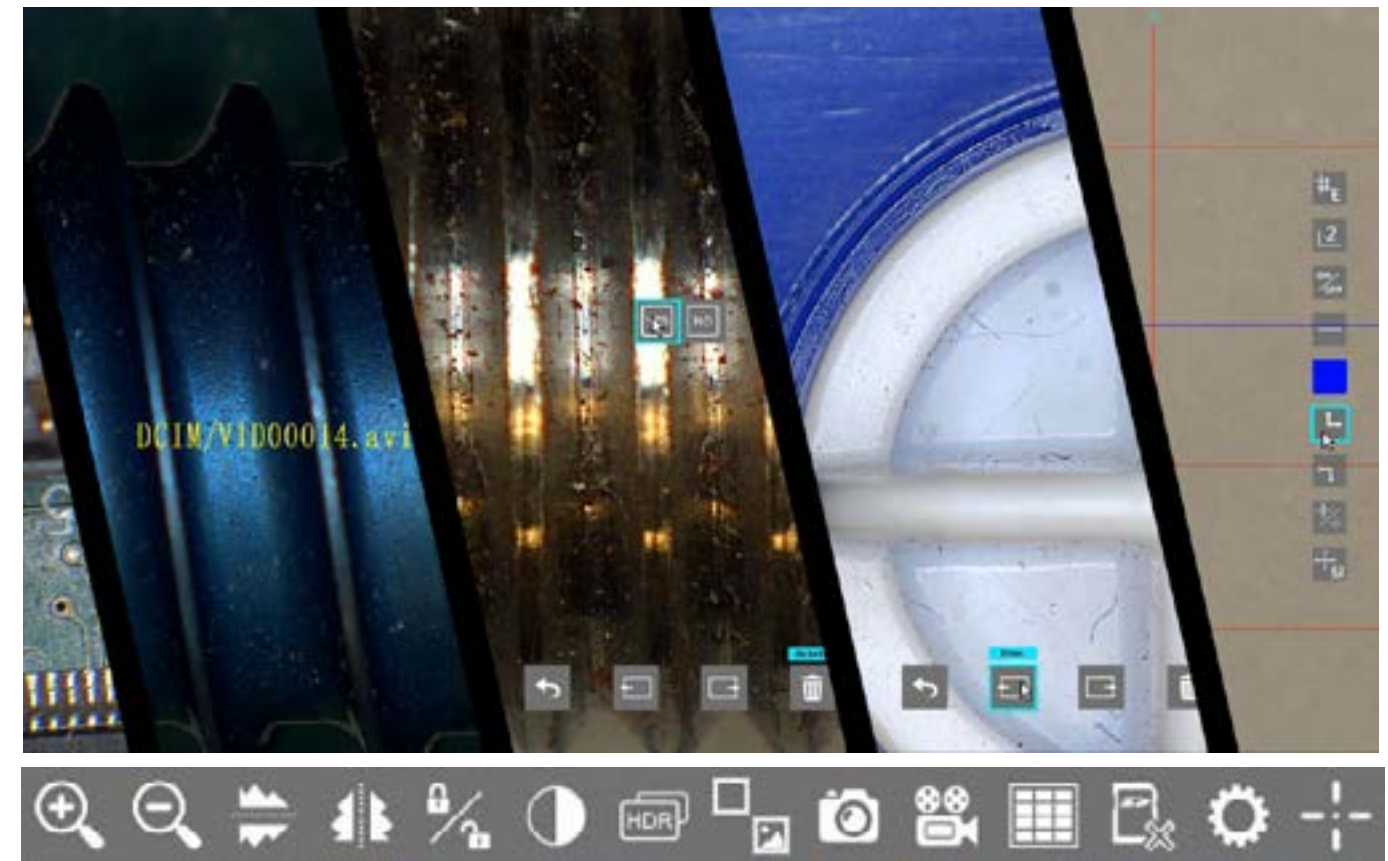
HD/ HDMI MODE FEATURES

- 1080p (1920 x 1080) HD images @ 60fps
- Onscreen control bar and setting menu
- Image and video capture to SD card
- Split-screen live image | Capture image comparison (picture-to-picture)
- Image and video gallery/ Image and video review
- Vertical and horizontal line generator
- Save line generator configurations
- Wireless mouse support and control

USB 2.0 MODE FEATURES

- 2 Mega-pixel resolution
- Image and Video capture w/Windows 10 camera app
- Email, Save, or Print software
- Image and video capture with the included software
- Annotation and drawing tools on live or captured images
- Send images directly to the local file location or network
- Time and date stamp images
- Includes DirectShow drivers
- Upgrade software with FOV measurements tools

VERSA-CAM (CC-HDMI-CD2) | SPECIFICATIONS

Image Sensor	1/2.86 Inch Panasonic FULL HD 2.0 Megapixel	Freeze Image	Yes
Effective Pixels	1920 X 1080	HDR	Yes
Frame Rate	60fps	Edge Enhancements/ Sharpening	Yes
Definition	More than 1200 lines	SD card slot	Up to 32GB SD Card
Housing	Aluminum/ Plastic	Crosshair	Multi-Color, small or large
White Balance	Automatic/Manual/Continous	Horizontal/ Vertical lines	Multi-Color, two lines for each *(Position can be adjusted)*
Brightness Control	Automatic/Manual/Continous	Noise Reduction	Support
Color	R/G/B adjustable	HDMI	1080p
Edge Enhancement	Yes	USB	USB 2.0
OSD:	Yes, In HDMI mode		

Integrated Software with Convieniently Located Control Bar

- ⊕ **Digital Zoom / Increase Magnification**
- ⊖ **Digital Zoom / Decrease Magnification**
- **Flip Image Horizontal**
- **Mirror Image Vertical**
- **Freeze Image / Unfreeze Image Toggle**
- **Color to Black and White Toggle**
- **High Dynamic Range Toggle**
- **Side-by-Side Live/Captured Image Comparison**
- **Still Image Capture**
- **Video Capture**
- **Gallery / Image Preview / SD Card Management**
- **Clear SD Card and SD Format**
- **Settings Menu**
- **Integrated Video Caliper and Crosshair**

VERSACAM MACRO DIGITAL INSPECTRION SYSTEMS

MAC-PK1-R3

- MACRO video zoom optics (up to 65x magnification with 8" working distance)
- Extended post stand
- NEW high-intensity LED ring light with polarizer (IL-LED-R3)
- NEW 1080p HDMI/USB camera (Includes SD card, HDMI cable, USB cable, and mouse)
- 23" HD LCD monitor

MAC-PK1-E2D

- MACRO video zoom optics (up to 65x magnification with 8" working distance)
- Extended post stand
- Diffused compact LED ring light (IL-LED-E2D)
- Features NEW 1080p HDMI/USB camera (Includes SD card, HDMI cable, USB cable, and mouse)
- 23" HD LCD monitor
- Capture software

MAC-PK3-R3

- MACRO video zoom optics (up to 65x magnification with 8" working distance)
- HEAVY DUTY articulating arm with 15" vertical post
- NEW high-intensity LED ring light with polarizer (IL-LED-R3)
- Features NEW 1080p HDMI/USB camera (Includes SD card, HDMI cable, USB cable, and mouse)
- 23" HD LCD monitor

MAC-PK3-E2D

- MACRO video zoom optics (up to 65x magnification with 8" working distance)
- HEAVY DUTY articulating arm with 15" vertical post
- Diffused compact LED ring light (IL-LED-E2D)
- Features NEW 1080p HDMI/USB camera (Includes SD card, HDMI cable, USB cable, and mouse)
- 23" HD LCD monitor

VERSACAM MACRO DIGITAL INSPECTRION SYSTEMS

MAC-PK5D-R3

- MACRO video zoom optics (up to 65x magnification with 8" working distance)
- Dual arm boom stand
- NEW high-intensity LED ring light with polarizer (IL-LED-R3)
- Features NEW 1080p HDMI/USB camera (Includes SD card, HDMI cable, USB cable, and mouse)
- 23" HD LCD monitor

MAC-PK5D-E2D

- MACRO video zoom optics (up to 65x magnification with 8" working distance)
- Dual arm boom stand
- Diffused compact LED ring light (IL-LED-E2D)
- Features NEW 1080p HDMI/USB camera (Includes SD card, HDMI cable, USB cable, and mouse)
- 23" HD LCD monitor
- Capture software.

MAC-PK1-E1Q

- MACRO video zoom optics (up to 90x magnification with 8" working distance)
- Extended post stand
- Quadrant-controlled LED ring light
- Features NEW 1080p HDMI/USB camera (Includes SD card, HDMI cable, USB cable, and mouse)
- 23" HD LCD monitor

MAC-PK3-E1Q

- MACRO video zoom optics (up to 90x magnification with 8" working distance)
- HEAVY DUTY articulating arm with 15" vertical post
- Quadrant-controlled LED ring light
- Features NEW 1080p HDMI/USB camera (Includes SD card, HDMI cable, USB cable, and mouse)
- 23" HD LCD monitor

MAC-PK5D-E1Q

- MACRO video zoom optics (up to 90x magnification with 8" working distance)
- Dual arm boom stand
- Quadrant-controlled LED ring light
- Features NEW 1080p HDMI/USB camera (Includes SD card, HDMI cable, USB cable, and mouse)
- 23" HD LCD monitor

MAC3 CAMERA & MONITOR

CC-CMC-12H

The New MAC3 Camera (Part number: CC-CMC-12H) from Scienscope is an all-in-one camera with an integrated monitor and software. The MAC3 Camera can be used as a "live image" HD (1080p) camera or as a USB 2.0 camera with a USB cable connected to any computer or Windows Tablet. The Camera can be connected to any microscope or optical system with a C mount so you can instantly upgrade your system. With a monitor mounted directly to the Camera, a limited workspace is never a problem, and your ergonomics will also improve.
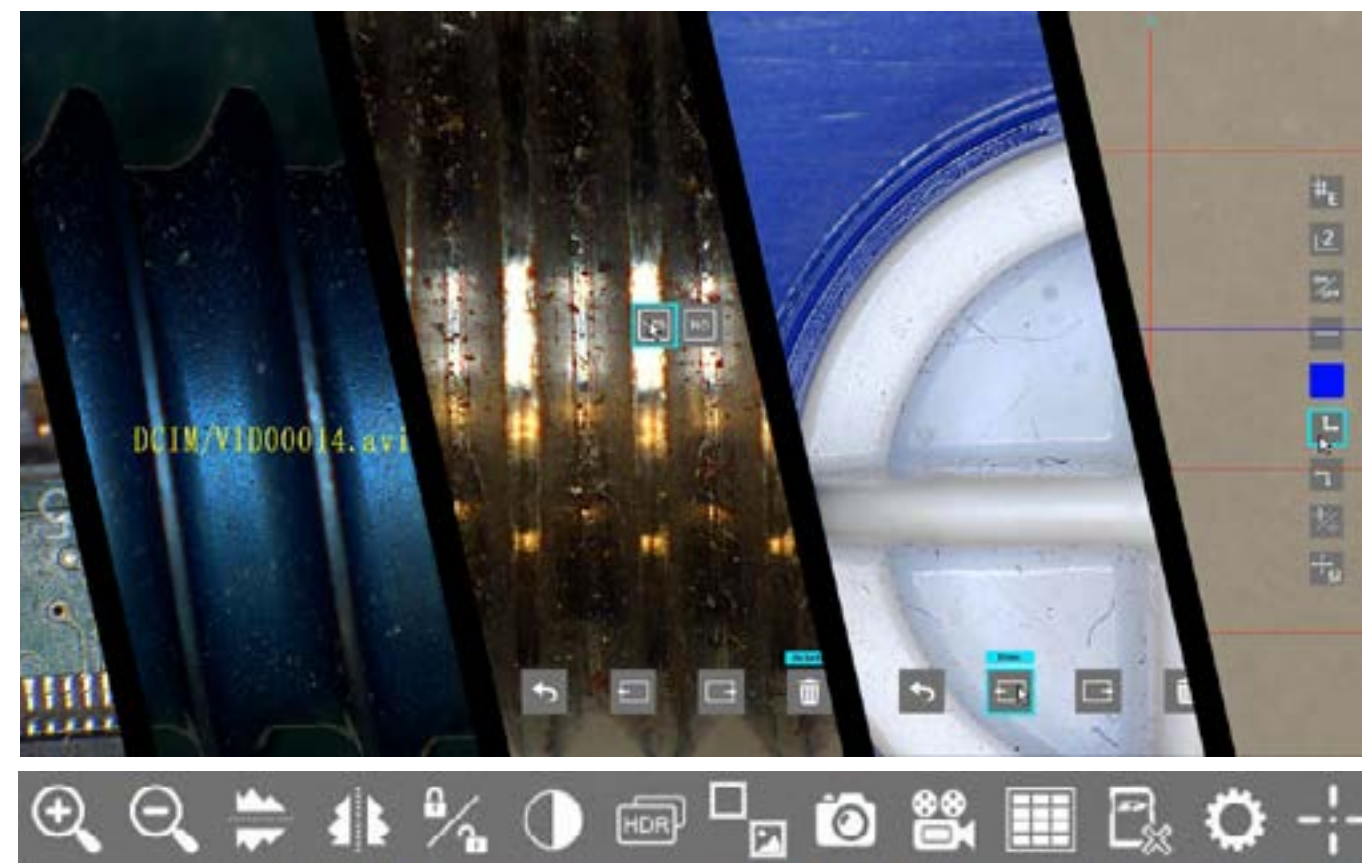
HDMI MODE FEATURES

- 1080p (1920 x 1080) HD images @ 60fps
- Onscreen control bar and setting menu
- Image and video capture to SD card
- Split-screen live image | Capture image comparison (picture-to-picture)
- Image and video gallery/ Image and video review
- Vertical and horizontal line generator
- Save line generator configurations
- Wireless mouse support and control

USB 2.0 MODE FEATURES

- 2 Mega-pixel resolution
- Image and Video capture w/Windows 10 camera app
- Email, Save, or Print software
- Image and video capture with the included software
- Annotation and drawing tools on live or captured images
- Send images directly to the local file location or network
- Time and date stamp images
- Includes DirectShow drivers
- Upgrade software with FOV measurements tools

MAC3 CAMERA (CC-HDMI-12H) | SPECIFICATIONS

Image Sensor	1/2.86 Inch Panasonic FULL HD 2.0 Megapixel	Freeze Image	Yes
Effective Pixels	1920 X 1080	HDR	Yes
Frame Rate	60fps	Edge Enhancements/ Sharpening	Yes
Definition	More than 1200 lines	SD card slot	Up to 32GB SD Card
Housing	Aluminum/ Plastic	Crosshair	Multi-Color, small or large
White Balance	Automatic/Manual/Continous	Horizontal/ Vertical lines	Multi-Color, two lines for each *(Position can be adjusted)*
Brightness Control	Automatic/Manual/Continous	Noise Reduction	Support
Color	R/G/B adjustable	HDMI	1080p
Edge Enhancement	Yes	USB	USB 2.0
OSD:	Yes, In HDMI mode		

Integrated Software with Convieniently Located Control Bar

- Digital Zoom / Increase Magnification
- Digital Zoom / Decrease Magnification
- Flip Image Horizontal
- Mirror Image Vertical
- Freeze Image / Unfreeze Image Toggle
- Color to Black and White Toggle
- High Dynamic Range Toggle

- Side-by-Side Live/Captured Image Comparison
- Still Image Capture
- Video Capture
- Gallery / Image Preview / SD Card Management
- Clear SD Card and SD Format
- Settings Menu
- Integrated Video Caliper and Crosshair

MAC3 ERGONOMIC INSPECTION SYSTEMS

MAC3-PK1-R3

- MACRO video zoom optics (up to 40x magnification with 8" working distance)
- Extended post stand
- 1080p HD camera and 12" LCD monitor combination
- NEW high-intensity LED ring light with polarizer (IL-LED-R3)
- All systems include a camera/monitor combo with an 8GB SD card, wireless mouse, USB cable, power supply, and Image capture software

MAC3-PK1-E2D

- MACRO video zoom optics (up to 40x magnification with 8" working distance)
- Extended post stand
- 1080p HD camera and 12" LCD monitor combination
- Diffused compact LED ring light. (IL-LED-E2D)
- All systems include a camera/monitor combo with an 8GB SD card, wireless mouse, USB cable, power supply, and Image capture software

MAC3-PK3-R3

- MACRO video zoom optics (up to 40x magnification with 8" working distance)
- Heavy duty articulating arm with vertical post and clamp
- 1080p HD camera and 12" LCD monitor
- NEW high-intensity LED ring light with polarizer (IL-LED-R3)
- All systems include a camera/monitor combo with an 8GB SD card, wireless mouse, USB cable, power supply, and Image capture software

MAC3-PK3-E2D

- MACRO video zoom optics (up to 40x magnification with 8" working distance)
- Heavy duty articulating arm with vertical post and clamp
- 1080p HD camera and 12" LCD monitor combination
- Diffused compact LED ring light. (IL-LED-E2D)
- All systems include a camera/monitor combo with an 8GB SD card, wireless mouse, USB cable, power supply, and Image capture software

MAC3-PK5D-R3

- MACRO video zoom optics (up to 40x magnification with 8" working distance)
- Dual arm boom stand
- 1080p HD camera and 12" LCD monitor
- NEW high-intensity LED ring light with polarizer (IL-LED-R3)
- All systems include a camera/monitor combo with an 8GB SD card, wireless mouse, USB cable, power supply, and Image capture software

MAC3-PK5S-R3

- MACRO video zoom optics (up to 40x magnification with 8" working distance)
- Single arm boom stand
- 1080p HD camera and 12" LCD monitor combination
- NEW high-intensity LED ring light with polarizer (IL-LED-R3)
- All systems include a camera/monitor combo with an 8GB SD card, wireless mouse, USB cable, power supply, and Image capture software

MAC3-PK5D-E2D

- MACRO video zoom optics (up to 40x magnification with 8" working distance)
- Dual arm boom stand
- 1080p HD camera and 12" LCD monitor combination
- Diffused compact LED ring light (IL-LED-E2D)
- All systems include a camera/monitor combo with an 8GB SD card, wireless mouse, USB cable, power supply, and image capture software

MAC3-PK5S-E2D

- MACRO video zoom optics (up to 40x magnification with 8" working distance)
- Single arm boom stand
- 1080p HD camera and 12" LCD monitor combination
- Diffused compact LED ring light (IL-LED-E2D)
- All systems include a camera/monitor combo with an 8GB SD card, wireless mouse, USB cable, power supply, and image capture software

MAC3-PK3-E1Q

- MACRO video zoom optics (up to 40x magnification with 8" working distance)
- Heavy duty articulating arm with vertical post and clamp
- 1080p HD camera and 12" LCD monitor combination
- Quadrant-controlled LED ring light
- All systems include a camera/monitor combo with an 8GB SD card, wireless mouse, USB cable, power supply, and image capture software

MAC3-PK5D-E1Q

- MACRO video zoom optics (up to 65x magnification with 8" working distance)
- Dual arm boom stand
- NEW high-intensity LED ring light with polarizer (IL-LED-R3)
- Features NEW 1080p HDMI/USB camera (Includes SD card, HDMI cable, USB cable, and mouse)
- 23" HD LCD monitor
- Capture software

MAC3-PK5S-E1Q

- MACRO video zoom optics (up to 40x magnification with 8" working distance)
- Single arm boom stand
- 1080p HD camera and 12" LCD monitor combination
- Quadrant-controlled LED ring light
- All systems include a camera/monitor combo with an 8GB SD card, wireless mouse, USB cable, power supply, and image capture software

SmartCam Ultra

CC-SMART-4K-AF

The SmartCam-Ultra AF from Scienscope is our most advanced 4k resolution camera. It features a vivid 4K image to a live monitor (HDMI) or 8.2 Megapixel image via USB 3.0 and WiFi to a computer. Includes a host of onboard image processing and measurement tools accessible using a mouse connected to the camera via its onboard software. Capture images to SD card, USB Flash drive, USB 3.0, and WiFi. Measure anything using the onboard field-of-view measuring tools, DXF overlay, or multi-line generator. Export your measurement data and images with measured objects!
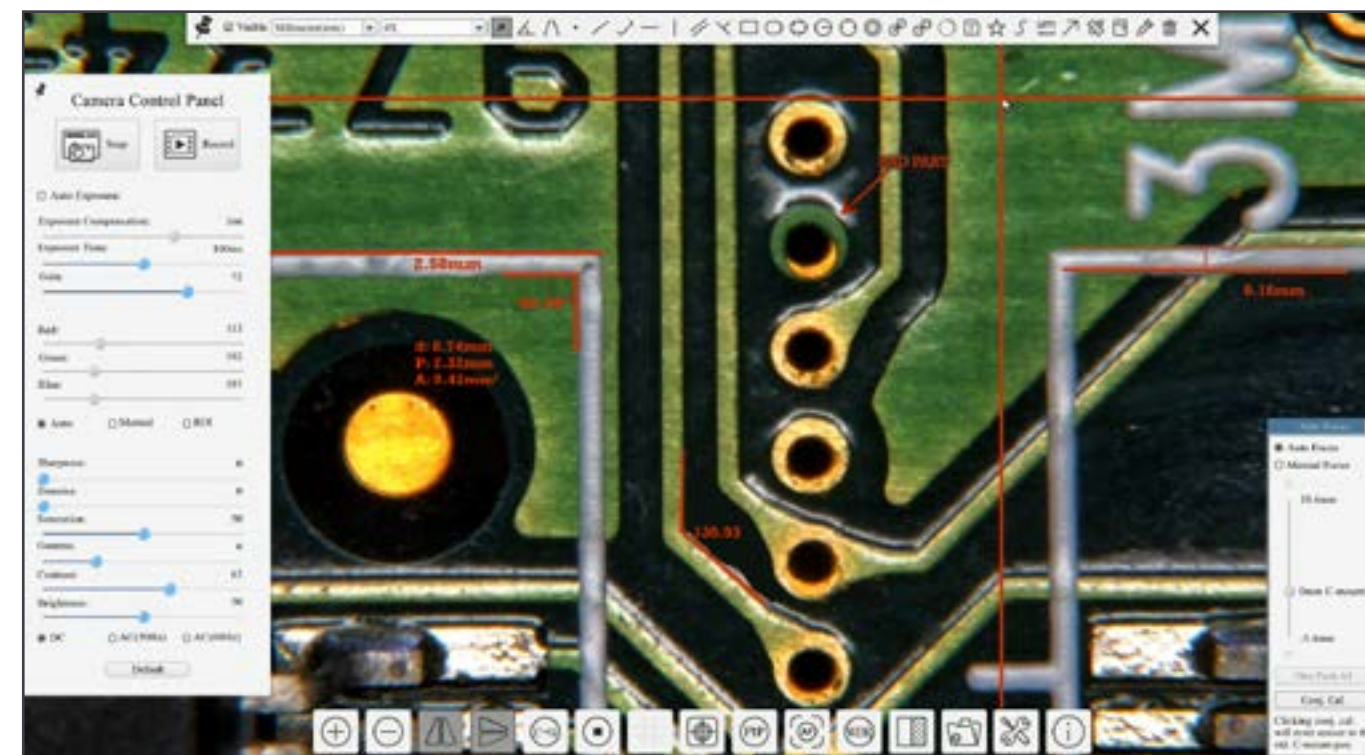
HDMI MODE FEATURES

- Auto-Focus
- Live measurement and annotation tools
- Image and video capture to SD card or USB Flash drive
- Split-screen live image/captured image comparison
- Image and video gallery / Image and video review
- Export measurement data to an SD card or USB Flash
- Wireless mouse control

USB 3.0/WIFI MODE FEATURES

- Image and video capture using Windows 10 camera app
- Measure and annotate using included WiFi and USB 2.0 software
- Image and video capture using the included software
- Directly email or print images
- Export measurement data

SmartCam-Ultra AF (CC-SMART-4K-AF) | SPECIFICATIONS

Image Sensor	Sony IMX334© 1/1.8"(7.68x4.32)	Freeze Image	Yes
Effective Pixels	30@3840*2160(HDMI) 20@3840*2160(USB)	HDR	Yes
Frame Rate	30fps	Edge Enhancements/ Sharpening	Yes
Definition	4200 lines	SD card slot	Up to 32GB SD Card
Housing	Aluminum	Crosshair	Multi-Color, small or large
White Balance	Automatic/Manual/Continous	Horizontal/ Vertical lines	Multi-Color, two lines for each (Position can be adjusted)
Brightness Control	Automatic/Manual/Continous	Noise Reduction	Support
Color	R/G/B adjustable	HDMI	1080p
Edge Enhancement	Yes	USB	USB 3.0
OSD	Yes, In HDMI mode		

Integrated Software with Convieniently Located Control Bar

⊕	Digital Zoom / Increase Magnification	⊙	Side-by-Side Live/Captured Image Comparison
⊖	Digital Zoom / Decrease Magnification	PIP	Still Image Capture
▷	Flip Image Horizontal	AF	Auto Focus / Optical Zoom
△	Mirror Image Vertical	WDR	Gallery / Image Preview / SD Card Management
⊶	Color to Black and White Toggle		Side-by-Side Live/Captured Image Comparison
■	Freeze Image/ Unfreeze Image Toggle		File Explorer
▦	Digital Line Generator	✖	Settings
		ⓘ	Software Info

SmartCam-Ultra AutoFocus Macro Inpsection Systems

MAC-PK1-4KSC-R3-AF

- MACRO video zoom optics (up to 65x magnification with 8" working distance)
- Extended post stand
- NEW high-intensity LED ring light with polarizer (IL-LED-R3)
- Features NEW 4K HDMI SMARTCAM w/ Autofocus (Includes SD card and mouse)
- 26" 4k/UHD LED monitor

MAC-PK1-4KSC-E2D-AF

- MACRO video zoom optics (up to 65x magnification with 8" working distance)
- Extended post stand
- Diffused compact LED ring light (IL-LED-E2D)
- Features NEW 4K HDMI SMARTCAM (Includes SD card and mouse)
- 26" 4k/UHD LED monitor
- Calibration target included

MAC-PK5D-4KSC-R3-AF

- MACRO video zoom optics (up to 65x magnification with 8" working distance)
- Dual arm boom stand
- NEW high-intensity LED ring light with polarizer (IL-LED-R3)
- Features NEW 4K HDMI SMARTCAM w/ Autofocus (Includes SD card and mouse)
- 26" 4k/UHD LED monitor

MAC-PK5D-4KSC-E2D-AF

- MACRO video zoom optics (up to 65x magnification with 8" working distance)
- Dual arm boom stand with diffused compact LED ring light (IL-LED-E2D)
- Features NEW 4K HDMI SMARTCAM w/ Autofocus (Includes SD card and mouse)
- 26" 4k/UHD LED monitor

SmartCam-Ultra AutoFocus Micro Inpsection Systems

MZ7A-PK2-4KSC-AF

- MZ7A Micro-Zoom video zoom optics (0.5x video coupler, zoom body)
- Dual illuminated LED track stand with course and fine focus
- Features NEW 4K HDMI SMARTCAM w/ Autofocus (Includes SD card and mouse)
- 26" 4k/UHD LED monitor
- Calibration target included

MZ7A-PK5D-4KSC-R3-AF

- MZ7A Micro-Zoom video zoom optics (0.5x video coupler, zoom body)
- Dual arm boom stand
- NEW high-intensity LED ring light with polarizer (IL-LED-R3)
- Features NEW 4K HDMI SMARTCAM w/ Autofocus (Includes SD card and mouse)
- 26" 4k/UHD LED monitor
- Calibration target included

MZ7A-PK5D-4KSC-E2D-AF

- MZ7A Micro-Zoom video zoom optics (0.5x video coupler, zoom body)
- Dual arm boom stand
- Diffused compact LED ring light (IL-LED-E2D)
- Features NEW 4K HDMI SMARTCAM w/ Autofocus (Includes SD card and mouse)
- 26" 4k/UHD LED monitor

SmartCam 4K
CC-SMART-4K

Experience the future of imaging with Scienscope's Smart-Cam-4K, the pinnacle of 4K resolution cameras. Unleash stunning 4K visuals on your HDMI monitor or grab crisp 8.2 Megapixel shots via USB 3.0. Dive into a world of image mastery with onboard processing and mouse-driven measurement tools. Save your creations on SD cards, USB Flash drives, and USB 2.0. Precision measurement awaits with field-of-view tools, DXF overlay, and multi-line generation. Export your data and images, showcasing your measured wonders!
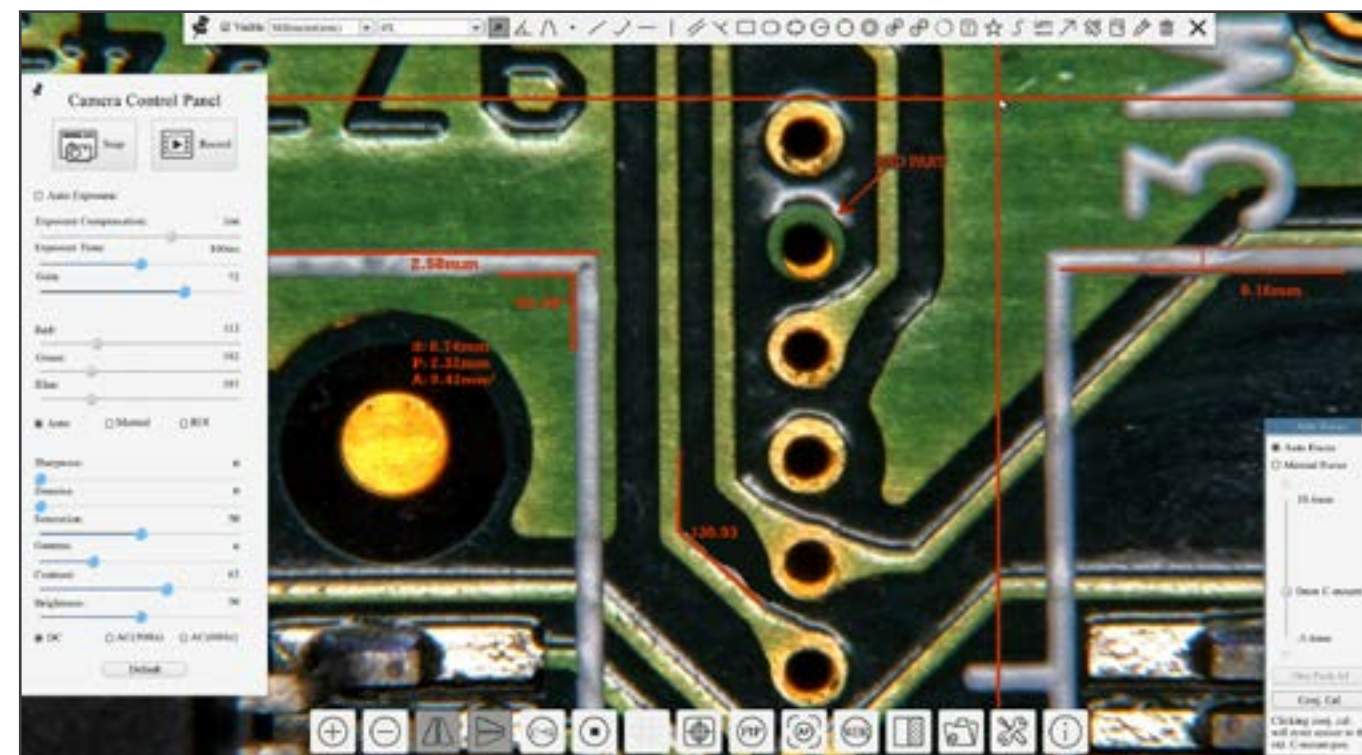
HDMI MODE FEATURES

- Live measurement and annotation tools
- Image and video capture to SD card or USB Flash drive
- Split-screen live image/captured image comparison
- Image and video gallery / Image and video review
- Export measurement data to an SD card or USB Flash
- Wireless mouse control

USB 2.0 MODE FEATURES

- Image and video capture using Windows 10 camera app
- Measure and annotate using included WiFi and USB 2.0 software
- Image and video capture using the included software
- Directly email or print images
- Export measurement data

SmartCam-Ultra (CC-SMART-4K) | SPECIFICATIONS

Image Sensor	Sony IMX334© 1/1.8"(7.68x4.32)	Freeze Image	Yes
Effective Pixels	30@3840*2160(HDMI) 20@3840*2160(USB)	HDR	Yes
Frame Rate	30fps	Edge Enhancements/ Sharpening	Yes
Definition	4200 lines	SD card slot	Up to 32GB SD Card
Housing	Aluminum	Crosshair	Multi-Color, small or large
White Balance	Automatic/Manual/Continous	Horizontal/ Vertical lines	Multi-Color, two lines for each *(Position can be adjusted)*
Brightness Control	Automatic/Manual/Continous	Noise Reduction	Support
Color	R/G/B adjustable	HDMI	1080p
Edge Enhancement	Yes	USB	USB 2.0
OSD	Yes, In HDMI mode		

Integrated Software with Convieniently Located Control Bar

- ⊕ **Digital Zoom / Increase Magnification**
- ⊖ **Digital Zoom / Decrease Magnification**
- ▷ **Flip Image Horizontal**
- △ **Mirror Image Vertical**
- (c→G) **Color to Black and White Toggle**
- ■ **Freeze Image/ Unfreeze Image Toggle**
- ⊞ **Digital Line Generator**

- ⊕ **Side-by-Side Live/Captured Image Comparison**
- (PIP) **Still Image Capture**
- (AF) **Auto Focus/ Optical Zoom Menu**
- (WDR) **Gallery / Image Preview / SD Card Management**
- ▨ **Side-by-Side Live/ Captured Image Comparison**
- 🗀 **File Explorer**
- ✕ **Settings**
- (i) **Software Info**

SmartCam 4K Macro Inspecttion Systems

MAC-PK1-4KSC-R3

- MACRO video zoom optics (up to 65x magnification with 8" working distance)
- Extended post stand
- NEW high-intensity LED ring light with polarizer (IL-LED-R3)
- Features NEW 4K HDMI SMARTCAM (Includes SD card and mouse)
- 26" 4k/UHD LED monitor
- Calibration target included

MAC-PK1-4KSC-E2D

- MACRO video zoom optics (up to 65x magnification with 8" working distance)
- Extended post stand
- Diffused compact LED ring light (IL-LED-E2D)
- Features NEW 4K HDMI SMARTCAM (Includes SD card and mouse)
- 26" 4k/UHD LED monitor
- Calibration target included

MAC-PK5D-4KSC-R3

- MACRO video zoom optics (up to 65x magnification with 8" working distance)
- Dual arm boom stand
- NEW high-intensity LED ring light with polarizer (IL-LED-R3)
- Features NEW 4K HDMI SMARTCAM (Includes SD card and mouse)
- 26" 4k/UHD LED monitor
- Calibration target included

MAC-PK5D-4KSC-E2D

- MACRO video zoom optics (up to 65x magnification with 8" working distance)
- Dual arm boom stand with diffused compact LED ring light (IL-LED-E2D)
- Features NEW 4K HDMI SMARTCAM (Includes SD card and mouse)
- 26" 4k/UHD LED monitor
- Calibration target included

SmartCam 4K Micro Inspection Systems

MZ7A-PK2-4KSC

- MZ7A Micro-Zoom video zoom optics (0.5x video coupler, zoom body)
- Dual illuminated LED track stand with the course and fine focus
- Features 4K SmartCam (Includes SD card and mouse)
- 26" 4k/UHD LED monitor
- Calibration target included.

MZ7A-PK5D-4KSC-R3

- MZ7A Micro-Zoom video zoom optics (0.5x video coupler, zoom body)
- Dual arm boom stand
- NEW high-intensity LED ring light with polarizer (IL-LED-R3)
- Features 4K SmartCam (Includes SD card and mouse)
- 26" 4k/UHD LED monitor
- Calibration target included

MZ7A-PK5D-4KSC-E2D

- MZ7A Micro-Zoom video zoom optics (0.5x video coupler, zoom body)
- Dual arm boom stand
- Diffused compact LED ring light (IL-LED-E2D)
- Features 4K SmartCam (Includes SD card and mouse)
- 26" 4k/UHD LED monitor
- Calibration target included

MZ7A MICRO ZOOM OPTICS

Scienscope's MZ7A Micro-Zoom lens is a modular zoom lens system that can be configured to fit nearly any application. Choose from a diverse assortment of video couplers, accessory optics, and a coaxial lighting option.

A magnification range of 6x-1200x offers incredible versatility, high contrast images, and vivid colors.
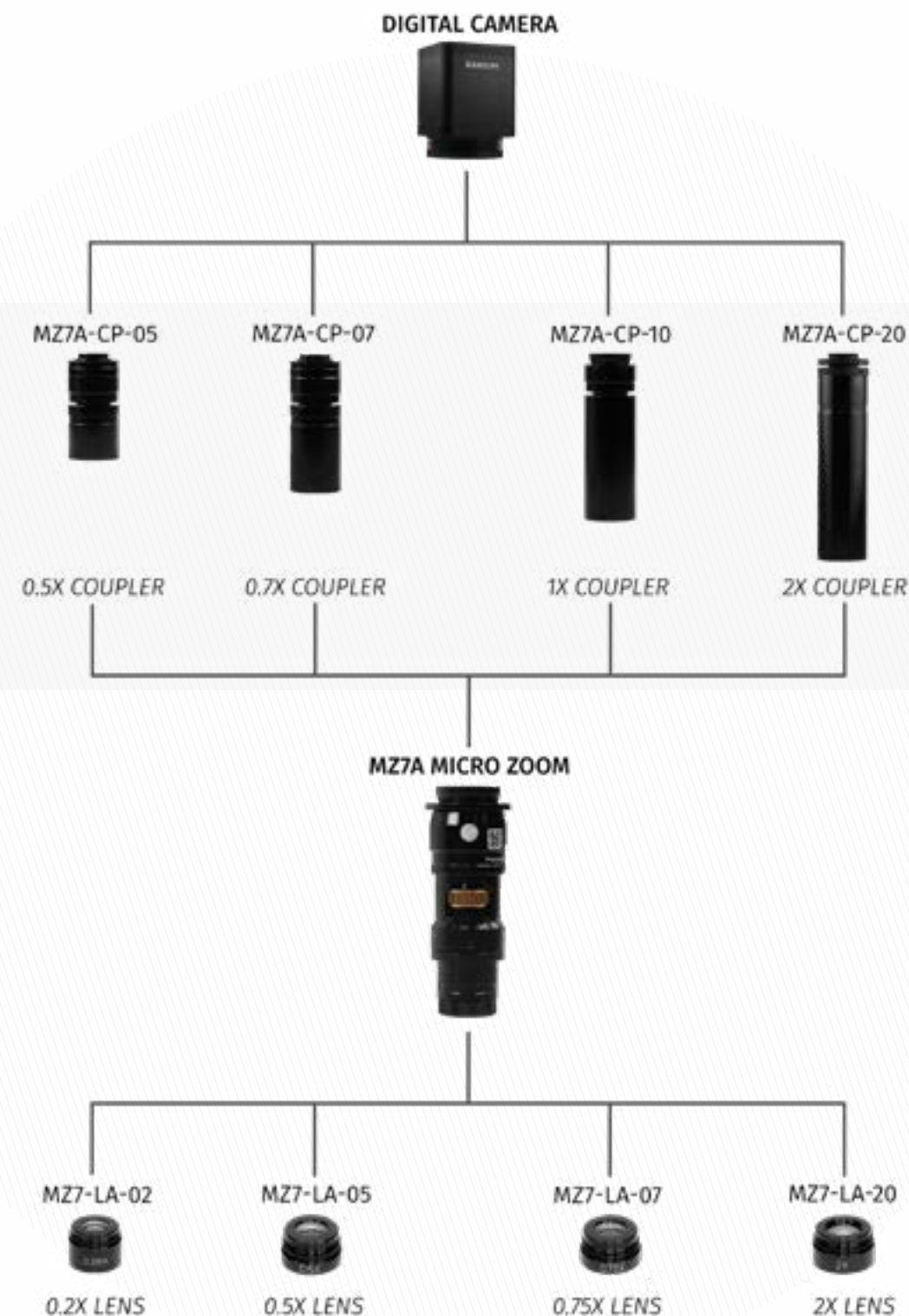
FEATURES

- Zoom Range 6X to 1200X
- Variable Working Distance
- High Numerical Aperture
- Coaxial Lighting Available

MZ7A MICRO ZOOM VIDEO SPECIFICATIONS BASED ON 23" MONITOR

Auxiliary Lense		Video Coupler			
		0.5X	**0.67X**	**1X**	**2X**
0.25X	MAG	6.1X -39.3X	8.2X - 52.6X	12.2X - 78.6X	24.4X - 157.2X
	FOV (mm):	91.4 - 14.2	68.2 - 10.6	45.7 - 7.1	22.9 - 3.6
	WD (mm):	302	302	302	302
0.5X	MAG	12.2X - 78.6X	16.4X - 105.3X	24.4X - 157.2X	48.9X - 314.3X
	FOV (mm):	45.7- 7.1	34.1 - 5.3	22.8 - 3.6	11.4 - 1.7
	WD (mm):	176	176	176	176
0.75X	MAG	18.3 - 117.9X	24.6X - 157.9X	36.7X - 253.7X	73.3X - 471.5X
	FOV (mm):	30.5 - 4.5	22.7 - 3.5	15.2 - 2.4	7.6 - 1.2
	WD (mm):	117	117	117	117
1X	MAG	24.4X - 157.2X	32.8X - 210.6X	48.9X - 314.3X	97.8X - 628.7X
	FOV (mm):	22.8 - 3.6	17.1 - 2.7	11.4 - 1.8	57. - 0.9
	WD (mm):	96	96	96	96
2X	MAG	48.9X - 314.3X	65.5X - 421.2X	97.8X - 628.7X	195.6X - 1257.3X
	FOV (mm):	11.4 -1.8	8.5 - 1.3	5.7 - 0.9	2.8 - 0.4
	WD (mm):	35	35	35	35

MZ7A MICRO ZOOM CONFIGURATION CHART

DIGITAL CAMERA

MZ7A-CP-05 — 0.5X COUPLER
MZ7A-CP-07 — 0.7X COUPLER
MZ7A-CP-10 — 1X COUPLER
MZ7A-CP-20 — 2X COUPLER

MZ7A MICRO ZOOM

MZ7-LA-02 — 0.2X LENS
MZ7-LA-05 — 0.5X LENS
MZ7-LA-07 — 0.75X LENS
MZ7-LA-20 — 2X LENS

NAVITAR ZOOM 7000 MACRO LENS

The Zoom 7000 offers unsurpassed clarity and parfocal zoom capabilities with a versatile close-focusing macro video lens that is specifically designed to be used in applications where objects are over 1" in diameter. It offers unsurpassed clarity and parfocal zoom capabilities. It is compatible with cameras 2/3" or smaller.

The Navitar® Zoom 7000 is ideal for quality assurance, biomedical imaging, or assembly applications where an easy-to-view, sharp, and true-to-life magnified image of your product can mean the difference between a shippable, top-quality end product and a costly manufacturing failure.

FEATURES

- Up to 90X with 23" Monitor
- Up to 54mm FOV at 10" WD
- High Depth of Field
- Manual Iris

MACRO ZOOM (CC-97-LN1) SPECS BASED ON 12" MONITOR

Working Distance		MAG	FOV
4.5" WD	High	60x	4.75mm
7.75" WD	High	30x	8.8mm
	Low	10x	25mm
8" WD	High	28x	9mm
	Low	9.75x	25.5mm
9" WD	High	24.5x	10.75mm
	Low	8.75x	30mm
10" WD	High	21.5x	11.8mm
	Low	7.75x	33.75mm

MACRO ZOOM (CC-97-LN1) SPECS BASED ON 23" MONITOR

Working Distance		MAG	FOV
5.5" WD	High	90x	5mm
	Low	20x	23mm
7" WD	High	64x	8mm
	Low	13x	34mm
8" WD	High	55x	9.5mm
	Low	11.5x	43mm
9" WD	High	47x	10.5mm
	Low	10x	48mm
10" WD	High	42x	12mm
	Low	9x	54mm

COMPUTAR MACRO ZOOM

Computar Manual Zoom Lenses provide manual adjustment of focal length, iris, and focus. For use where a variable angle of view is required. Primary applications for this lens include inspection, machine vision, and robotics.

1/2" 13-130mm 10X Close-up Manual Zoom, Manual Iris (C-Mount)

FEATURES

- Up to 60x magnification with a ½" sensor camera
- Up to 4" of FOV at 12" of working distance
- Iris, objective control (zoom), and focus built-in
- All optical adjustments lockable with set screws

COMPUTAR MACRO ZOOM (CC-97-LN1C) SPECS

Model No.	MLH-10X	Effective Lense	Front	Ø30mm
Max. Magnification	0.084mm - 0.84mm	Aperture	Rear	Ø6.6mm
Max. Aperture Ratio	1:5.6	Back Focal Length		23.29
Max. Image Format	6.4mm X 4.8mm (Ø8mm)	Flange Back Length		
Operation Range	Iris	F5.6 - F32C	Mount		C-Mount
	Focus	0.15m - 0.45m	Filter Size		M46 P = 0.75mm
			Dimensions		Ø48mm x 98.5mm
Control	Iris	Manual	Weight		260g
	Focus	Manual			
	Zoom	Manual			

Object Size (1/2 type CCD)	Working	152.4mm (6")	92.2mm - 9.6mm (D) 74.6mm - 7.8mm (H) 56.4mm - 5.9mm(V)
	Distance	457.2mm (18")	349.4mm - 34.6mm(D) 279.2mhm - 28.0mm(H) 208.8mm - 21.2mm(V)
Object Size (1/3 type CCD)	Working	152.4mm (6")	70.1mm - 7.3mm (D) 56.4mm - 5.9mm(H) 42.4mm - 4.4mm(V)
	Distance	457.2mm (18")	261.6mm - 26.4m(D) 208.8mm - 21.2mm(H) 156.2mm - 16.0mm(V)
Object Size (1/4 type CCD)	Working	152.4mm (6")	53.0mm - 5.6mm(D) 42.4mm - 4.4mm(H) 31.8mm - 3.4mm(V)
	Distance	457.2mm (18")	208.8mm - 21.2mm(D) 156.2mm - 16.0mm(H) 117.0mm - 12.0mm(V)

Angle of View	D	1/2 Type	21.6° - 4.5°	1/3 type	17.0° - 3.3°	1/4 type	13.0° - 2.5°
	H		18.0° - 3.6°		13.8° - 2.7°		10.6° - 2.0°
	V		13.8° - 2.7°		10.6° - 2.0°		8.0° - 1.5°
Operating Temperature		-20°C +50°C					

SMT PRODUCTION SOLUTIONS FOR THE ELECTRONIC INDUSTRY

Component Management Systems

Optical Inspection Systems

X-Ray Inspection Systems