VERSACAM
1080P HD MACRO DIGITAL INSPECTION SYSTEMS

VERSACAM (CC-HDMI-CD2)

The new Versa-Cam from Scienscope is the next step in the evolution of our powerful line of digital HD cameras for microscopy. 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 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.

Camera Overview

- Full Toolbar w/ Camera Controls
- 1080p Resolution
- HDMI 60FPS and USB 30FPS
- 2.8µm / 2.8µm Pixel Size
- 1080P/Sony IMX236(C) Sensor Sized at 1/2.8" (5.38x3.02)
- DC 12V/2A Adaptor
- Compatible Displays: 19"+
- Weight of 0.47 kg (1.0lbs)
- Exposure of 0.1ms-999ms
- Dimensions of 78mm (3.07") x 70mm (2.76") x 92mm (3.62")
**System Overview**

**FEATURING**
- Macro Zoom Technology
- 1080p HD 60fps
- Imbedded camera control software
- Capture images and video to SD card
- Fast auto and manual exposure
- Full 1080p 60 fps frame rates
- Connect, view, and control via WiFi
- ROI white balance
- Real-time color adjustments
- Digital zoom
- Image Comparison
- Choice of stands and lighting

**VersaCam (CC-HDMI-CD2) | Camera Specifications**

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>Image sensor</td>
<td>1/2.86 Inch Panasonic FULL HD 2.0 Megapixel</td>
</tr>
<tr>
<td>Effective pixels</td>
<td>1920 x 1080</td>
</tr>
<tr>
<td>Frame rate</td>
<td>60fps</td>
</tr>
<tr>
<td>Definition</td>
<td>More than 1200 lines</td>
</tr>
<tr>
<td>Housing</td>
<td>Aluminum</td>
</tr>
<tr>
<td>White balance</td>
<td>Automatic/Manual/Continuous</td>
</tr>
<tr>
<td>Brightness control</td>
<td>Automatic/Manual/Continuous</td>
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<tr>
<td>Color</td>
<td>R/G/B adjustable</td>
</tr>
<tr>
<td>Edge enhancement</td>
<td>Yes, in HDMI mode</td>
</tr>
<tr>
<td>Edge enhancements</td>
<td>Yes, Sharpening</td>
</tr>
<tr>
<td>Freeze image</td>
<td>Yes</td>
</tr>
<tr>
<td>HDR</td>
<td>Yes</td>
</tr>
<tr>
<td>Cross hair</td>
<td>Multi-color, small or large</td>
</tr>
<tr>
<td>Horizontal/Vertical Lines</td>
<td>Multi-color, two lines per each</td>
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<tr>
<td>Noise Reduction</td>
<td>Support</td>
</tr>
<tr>
<td>SD card size</td>
<td>Support up to 32GB SD card</td>
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<tr>
<td>HDMI</td>
<td>1080p</td>
</tr>
<tr>
<td>USB</td>
<td>USB 2.0</td>
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</tbody>
</table>

**APPLICATIONS**

**Electronics**

Capable of a remarkably large field of view or IPC spec magnification (Up to 60x), the MAC3 system makes electronics inspection a more comfortable and efficient process. If you need to document your work, images or video can be captured with one click of the mouse and stored to a removable SD card. You can also rework or repair in comfort with an ergonomically placed monitor (No eyepieces!) and easy to

**Medical Devices**

Whether you are inspecting catheters, stents, pacemakers or surgical implements, medical devices require 100% inspection with the utmost possible scrutiny. Inspect, document, and compare with ease and confidence. Use the integrated side-by-side capture to live image comparison feature to be certain that you are seeing is a defect.

**Macro Documentation**

Macro photography is extreme close-up photography, usually of very small subjects, in which the size of the subject in the photograph is greater than life size. The Macro Systems with Versa-CAM makes macro biological or industrial image capture and observation simple. With easy to control optics, lighting, and camera functions macro photography for education or industry is a snap.
The Scienscope CC-97-LN Macro Zoom Lens with Close-up lens is perfect for a detailed inspection view. With crisp and clear imagery, this lens is bound to meet your macro inspection needs. The Macro Zoom lens 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. The Macro Zoom lens has the most Depth of Field and Field of View available from a video lens with all adjustment at your fingertips such as zoom, focus, and iris control. Our Macro Zoom lens is designed for large filed of views, large range of working distance, and large depth of field applications. Range from 7” - 12” of working distance with a close-up/cover lens and from 11” to infinity without the close-up/cover lens. Up to 61.9X magnification.

**SPECIFICATIONS**

<table>
<thead>
<tr>
<th>Working Distance</th>
<th>MAG</th>
<th>FOV (MM)</th>
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<tbody>
<tr>
<td>5”WD</td>
<td>High</td>
<td>98x</td>
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<td></td>
<td>Low</td>
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<td>7”WD</td>
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<td>8”WD</td>
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<td>10”WD</td>
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<td>Low</td>
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</table>

- Back Focal Length: 24.28
- EFL (mm): 18-108
- Exit Pupil Position: 238.60
- Field Angle: 1/2 (HxV) Wide 19° 59’ x 15° 06’ / Tele 3° 23’ x 2° 55’
- Filter Diameter: Ø52 P=0.75
- Focus Control: Manual
- Focusing range from front of lens (m): 0.13 - inf.
- Format: 2/3”
- F Stop: 2.5-Close
- Iris Control: Manual
- Mount: C
- Object Area (mm): at M.O.D. (HxV) 1/2”Wide 183 x 142 / Tele 31 x 24
- Weight: (g) 595
- Zoom Control: Manual
Software Overview

The versa-cam comes loaded with a full suite of simple and powerful image enhancement, capture, comparison, and memory management tools. Anyone can learn to use the camera to its full capability within minutes!

Image Management And Display Gallery
Quickly scan through previously saved image and video captures. The image gallery allows for quick image pull-up and the ability to sort and delete images no longer needed.

Split Screen Image View Display Option
Quickly and easily compare a previously captured images to a live image. Excellent when used as a pass/fail tool or for training. Use the system to capture images of defects that you want your operators to avoid and compare.

Image Processing And Enhancements Tools
The HDR or High Dynamic Range feature will help you find that tricky defect by quickly toggling to a high contrast data mode or back to a bright, clean, high gain mode.

Video Control Panel
Use the region of interest tool to make inspection easy. Click around the screen to automatically focus on any unfocused area of interest to bring it into sharp view. Includes controllable auto focus menu.

Easy To Use Comparative Measurement Grid Tools
Use the built in video caliper to perform comparative measurements or use them as a quick and easy gauging tool.
## ALL DIGITAL VERSA CAM SYSTEMS

### PACKAGES

<table>
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<tr>
<th>PACKAGE #</th>
<th>3B-BM2-DD</th>
<th>3B-BM2-RO</th>
<th>3B-CL2-FX</th>
<th>SP-76-18</th>
<th>IL-LED-R3</th>
<th>IL-LED-E2D</th>
<th>IL-LED-EIQ</th>
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### MOUNTING & STANDS

* **FOCUS MOUNTS**
  Required on all boom arm and articulating arm stands

- SB-AB-SZ Microscope Focus Mount
- SB-BM2-RO Gliding Boom Stand
- SB-BM2-DD Dual Boom Stand
- SP-76-18 Extended Post Stand
- SB-CL2-FX Heavy Duty Articulating Stand

### LIGHTING

- IL-LED-R3 Polarized LED Light
- IL-LED-R2D Diffused LED Dome Light
- IL-LED-E2D Diffused Compact LED Ring Light
- IL-LED-EIQ Quadrant Controlled LED Ring Light
**MAC-PK1-R3**

MACRO video zoom optics on an extended post stand with 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) with 23” HD LCD monitor and capture software.

**STAND**
- SP-76-18 Ergo-Post Table Top Stand

**LIGHTING**
- IL-LED-R3 Polarized LED Light

**CAMERA**
- CC-HDMI-CD2 1080p HD Versa Camera

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**MAC-PK3-DM**

MACRO video zoom optics on HEAVY DUTY articulating arm with 15” vertical post with NEW diffused LED dome light (IL-LED-R2D). Features NEW 1080p HDMI/USB camera (Includes SD card, HDMI cable, USB cable and mouse) with 23” HD LCD monitor and capture software.

**STAND**
- SB-CL2-FX Heavy Duty Articulating

**LIGHTING**
- IL-LED-R2D Diffused LED Dome Light

**CAMERA**
- CC-HDMI-CD2 1080p HD Versa Camera

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**MAC-PK5-E2D**

MACRO video zoom optics on gliding arm boom stand with diffused compact LED ring light (IL-LED-E2D). Features NEW 1080p HDMI/USB camera (Includes SD card, HDMI cable, USB cable and mouse) with 23” HD LCD monitor and capture software.

**STAND**
- SB-BM2-R0 Gliding Arm Stand

**LIGHTING**
- IL-LED-E2D Diffused Compact LED

**CAMERA**
- CC-HDMI-CD2 1080p HD Versa Camera

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**MAC-PK5D-E1Q**

MACRO video zoom optics on dual arm boom stand with quadrant controlled LED ring light. Features NEW 1080p HDMI/USB camera (Includes SD card, HDMI cable, USB cable and mouse) with 23” HD LCD monitor and capture software.

**STAND**
- SB-BM2-D0 Dual Arm Stand

**LIGHTING**
- IL-LED-E1Q Quadrant Controlled LED

**CAMERA**
- CC-HDMI-CD2 1080p HD Versa Camera