

Our vision is your great advantage



The **Suba**Scope Ultimate 4k

Industrial digital Microscope

SubaScope Ultimate 4k

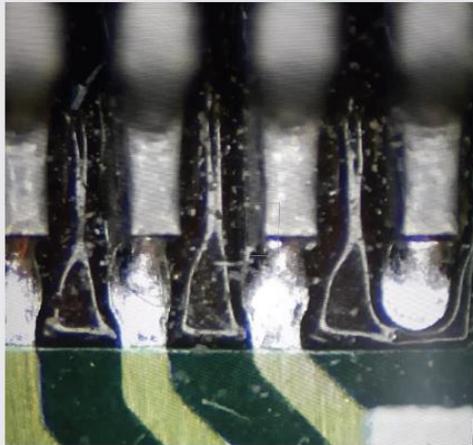
SubaScope Ultimate 4k 360 deg view

The Digital auto focusing microscope with zoom of up to 190x with 24" monitor, mouse-controlled auto focus region, measurement software, digital comparison of still picture to live picture and many more software features

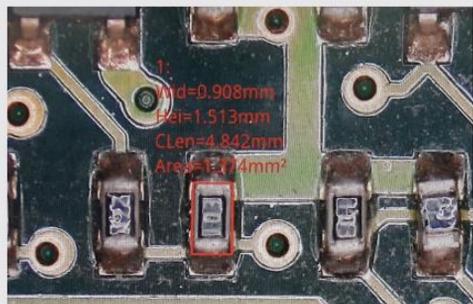
High-Precision Optics

SubaScope Ultimate 4k

A digital auto-focusing microscope designed in Australia through the combination of local manufacturing and overseas components. The SubaScope Ultimate 4k Vision is a microscope with features that rival mid-range microscopes, such as full high definition auto focus and 3A image processing technology which provides clear photos in crisp colours.



Up to 190x high magnification range with 24" monitor



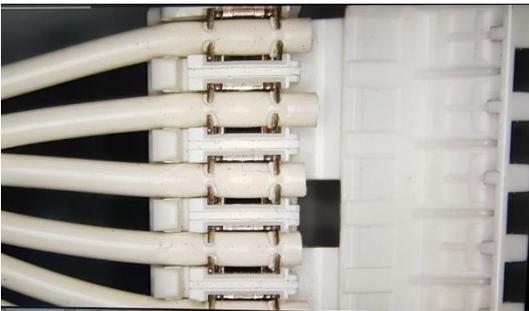
Real-time measuring function

While it is designed with use-friendliness in mind, individual settings can also be changed through an easy to use interface via wireless mouse. In addition, the dual arm system stand provides increased versatility due to its multi axis. It also comes with shock absorb technology which reduces external vibrations and provides a better-quality image processing at a higher magnification. It is a unit designed for the entry level market without compromising on quality, providing outstanding quality and performance value for money.

STANDARD FEATURES

- Australia's first full 4k definition digital microscope with USB
- Auto-Focus feature
- Up to 190x high magnification range with 24" monitor
- Image and video capturing function
- USB connectivity to transfer photos/videos
- PC software with various features
- Adjustable ring light
- Table with shock absorbers and adjustable arms
- Measurement software
- Wireless Mouse operated Auto Focus Region
- Digital comparison of still picture and live picture
- New enhanced software and GUI
- New features and functions

Auto-focus

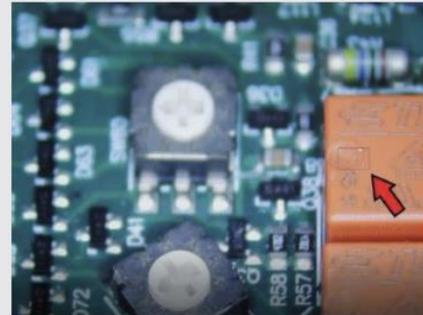
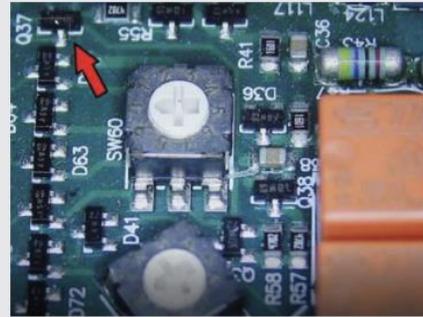


ENHANCED AUTO-FOCUS CAPABILITIES

Enhanced capabilities with integrated control of adjustable focal point with a click of the mouse to help save time and unnecessary orientation of the object itself. When adjusting the magnification and inspecting at objects with different heights, the scope height does not need to be adjusted as the auto-focus takes care of this.

This enhanced auto-focusing feature facilitates real-time precise measuring function within specific parameters which allows for elimination of delays.

Always have your subject sharply focused with the automatic auto-focusing feature to help achieve speed and accuracy in visual inspections.



Easily change focal point by clicking with the provided mouse in the desired target without the need to manually move the inspected area with your hands



Automatically focus on what is inside the small rectangle ROI (region of interest) on the middle of the screen

I SubaScope Ultimate 4k



SubaScope Ultimate 4k 360 deg vision



SubaScope Ultimate 4k

LENS SPECIFICATIONS

Angled 30°

Vertical Straight

Magnification range

10 – 190x using 24" monitor

Standard (C-Mount)

10 – 190x using 24" monitor

With 0.5 lens

5 – 95x using 24" monitor

Working Distance (1)

42 mm

95 mm

190 mm

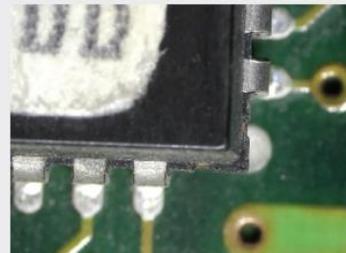
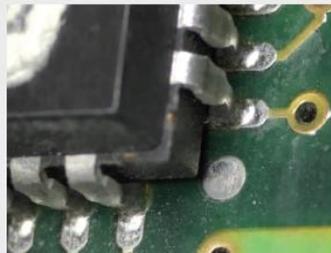
Working area @
min & max magnification
(approx.)

19 x 10,5 mm / 2,7 x 1,5 mm

19 x 10,5 mm / 2,7 x 1,5 mm

43 x 24 mm / 6,5 x 3,5 mm

Selected component
of sample PCB

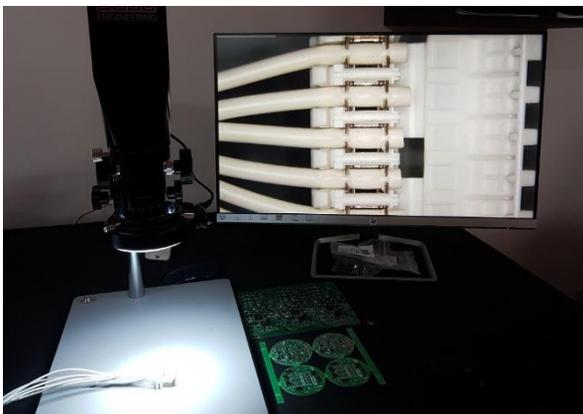
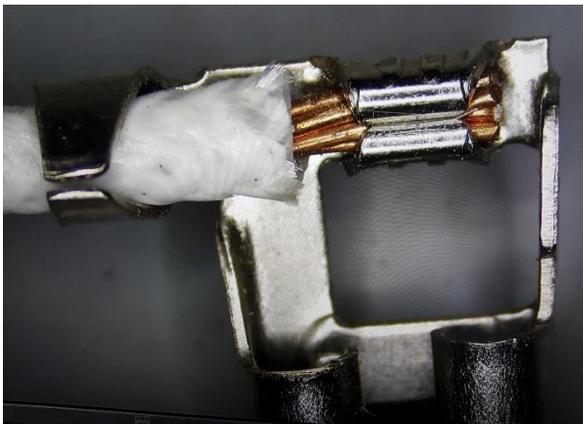


(1) The working distance is the measurement from the bottom of the lens to the top of the inspected object or component

Technical Specifications

SPECIFICATION

Image sensor	Colour CMOS
Pixel size	2 x 2 micron
Menu	Fully digital GUI design
Method of Operation	Bluetooth mouse and Keyboard
Lens interface	CS-type
Power DC	DC 12V
Output method	HDMI / USB / WiFi
White Balance	Auto / Manual / One-push control
Exposure	Auto / Manual
Display	4K (8mp 3840 x 2160)
Scanning method	60fps @ 4k under HDMI 30fps @ 3840 x 2160 under USB
Shutter speed	1/50s (1/60s) ~ 1/10000s
Operating temperature	0°C ~ 50°C
Magnification range	190x using 24" Monitor
Saving function	Supports U disk / PC



C-MOUNT LENS

Working distance	95 mm
Zoom ratio	6 : 5 : 1
Magnification	0.7 – 4.5x (approx. 10 – 190x on display)

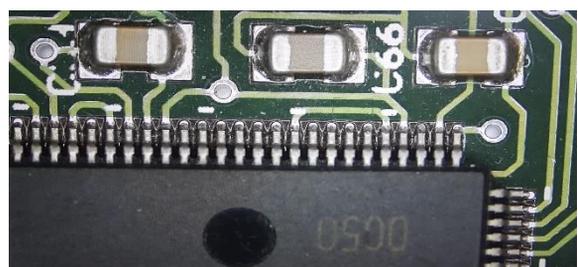
LED RING LIGHT

No. of LED	144 white
Lifespan	100,000 hours
Illumination	Intense & focused shadow-free
Brightness	0-100% adjustable
Power input	100 - 240V, 50 - 60Hz
Compatibility (diameter)	30 mm - 63 mm

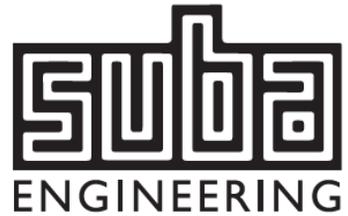
DUAL ARM SYSTEM STAND

Weight	3.5 kg
Rotation radius	Multi-axis rotation
Focusing holder	Standard size fitted with steel gears

- This stand has a dual arm system with a counterweight on the end of the arm of your microscope. This allows more stability compared with a common type of boom stand.
- The multi-axis rotation feature allows this boom stand to locate your microscope head to almost any position or angle. This can be a great advantage when you have a hard-to-see location such as inspecting and searching for solder joint issues on circuit boards.
- Easy large-sized focusing knobs on both sides of the focusing holder.



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PACKAGE CONTENTS

Each **Suba**Scope Ultimate 4k comes packed with:

- Fully integrated camera
- Metal bracket
- Adjustable counterbalanced arm
- 144 LED ring light and external 2 arm LED spot lights
- USB 3.0 connection
- Wireless mouse
- 0.5x reduction lens
- Measurement calibration slide

Optional 360° Vision
Monitor and additional lens are sold separately.

Specification is subject to change without notice.
Please consult factory for specifics.

Our more than 35 years of experience and understanding of your needs in this challenging market will help you to reduce manufacturing cost and increase the first pass yield. At Suba we have the passion and motivation as well as the most comprehensive range of products in our industry. 80% of our turn-over comes from repeat business, demonstrating the combination of our customers' positive experiences with our appreciation of their ongoing trust in us.

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