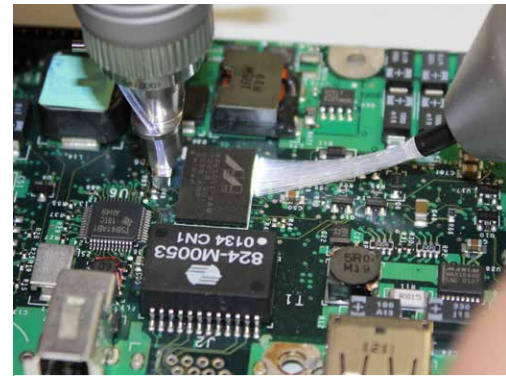
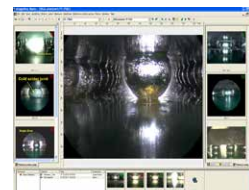




MOBILE SCOPE



Inspection of a micro-BGA



ImageDoc inspection software



QFP solder joints – taken with the MACROZOOM optical head

# Ersa MOBILE SCOPE

## Solder joint inspection in the twinkling of an eye.

The Ersas MOBILE SCOPE is a compact and handy, portable video microscope to inspect solder joints in electronics production environments. The device has been designed for optical inspection and digital image recording including measurements of solder joints on Ball Grid Array (BGA),  $\mu$ BGA, CSP and Flip-Chip packages. The Ersas MOBILE SCOPE is suitable to inspect PCB lands, solder paste prints or in general for the optical inspection of components on printed circuit boards in Surface Mount Technology (SMT) or in Trough Hole Technology (THT). The device can be used in quality control, production, laboratories or R&D departments.

The compact Ersas MOBILE SCOPE connects with a PC or any portable computer via an USB interface and is ready for operation within minutes in any location. By means of high-quality BGA optical heads, components with hidden solder joints can easily be inspected, a MACROZOOM lens allows topview surface inspection in various magnifications. All optical heads are plugged onto the high-resolution digital color camera hand piece with a „Quick Snap“ connection. Changing the optical heads in accordance to the inspection task is a matter of seconds. Long-life and very bright controllable LED lights are integrated in the optical heads and provide optimal illumination of the solder joints. In BGA inspection an additional LED brush light is essential for backlight illumination or to light up very hidden and hard to reach areas. Consequently, soldering errors can be detected quickly and easily with the Ersas MOBILE SCOPE. The included and proven ImageDoc inspection software not only displays the live images but also offers the operator various possibilities for documentation and analysis of the inspection results.

Extensive accessories allow the operator to compose his individual Ersas MOBILE SCOPE inspection system according to his needs. The practical aluminium case for the Ersas MOBILE SCOPE offers both safe storage of the inspection items and transportation of the system to any location wherever it is needed.

### Technical highlights:

- High-resolution USB camera
- Exchangeable high-quality lenses
- Optional 0° optical head (80x)
- Integrated, adjustable LED lighting
- Optional LED fiber optic lighting
- Stand units and further accessories
- ImageDoc Basic or ImageDoc EXP software for both beginners and advanced operators
- Recording, measurement and reporting functions
- Mobile application

**Technical Data:**

Order No.	Description	Technical Data	Part
0VSST080	<b>Stand</b> with Z-axis micrometer adjustment; integrated fibre optics and camera cables	W x H x D: ~ 500 x 400 x 520 mm Total weight ~ 5 kg Antistatic surface, includes 1,000 mm coated fibre optic cable with gooseneck	
0VSCA060	<b>Basic camera unit, digital</b>	1/3" N-MOS solid state color image sensor 2,592 (H) x 1,944 (V) pixels (5.0 MP), USB 2.0 interface L x W x H: 114 x 36 x 51 mm (without cable)	
0VSSE060-90K	<b>BGA lens, 90° optical head</b> for BGA inspection, pitch 1.27 mm	Magnification: 25x up to 350x Focusing range: 0.3 up to 40 mm Field of view (FoV): 1.0 up to 20 mm Footprint: 0.8 x 6.0 mm	
0VSSE060-90KS	<b>BGA lens small, 90° optical head</b> for BGA inspection in populated areas, pitch 1.0 mm	Magnification: 25x up to 350x Focusing range: 0.3 up to 40 mm Field of view (FoV): 1.0 up to 20 mm Footprint: 0.8 x 6.0 mm	
0VSSE060-90KUS	<b>BGA lens ultra small, 90° optical head</b> for inspection of ultra-small BGAs or Flip Chips with pitches <1.0 mm in extremely dense populations	Magnification: 25x up to 350x Focusing range: 0.2 up to 40 mm Field of view (FoV): 1.0 up to 20 mm Footprint: 0.4 x 3.4 mm	
0VSSE060-MZ80	<b>MACROZOOM lens 80x, with LED</b> for top-view inspection	Magnification: 8x up to ~80x Focusing range: ~5 mm up to 200 mm Field of view (FoV): ~5 up to 45 mm 43 (L) x 19 (Ø) mm (85 x 35 mm max. incl. telescopic support)	
0VSID300	<b>ImageDoc Basic 3.X inspection software</b>	Standard software package (included in the scope of delivery)	
0VSID300L	<b>ImageDoc EXP 3.X inspection software</b>	Software upgrade to the professional ImageDoc EXP inspection software	
0VSLC100	<b>Lens cleaning kit</b>	Cleaning cloth, papers and liquid	
3ZT00214	<b>Cleaning tip (ERSASCOPE)</b>		
0VSL030	<b>LED brush light</b>	Illumination: 64 x Ø 0.250 mm plastic optical grade fibres, dimensions: Ø 26 x 250 mm (max. 40 x 250 mm)	
0VSCA060A	<b>Dekstop holder for camera unit</b>		

**Ersa MOBILE SCOPE sales kits:**

Content	Order No.	0VSSC060VK1	0VSSC060VK2	0VSSC060VK3
Basic camera unit, digital		1x	1x	1x
BGA lens, 90° optical head (0VSSE060-90K)		1x	--	1x
MACROZOOM lens 80x with LED light		--	1x	1x
LED brush light with dimmer		1x	--	1x
Desktop holder for camera unit		1x	--	1x
Operating manual		1x	1x	1x
ImageDoc Basic (inspection software)		1x	1x	1x
Aluminium case for Ersa MOBILE SCOPE		--	--	1x



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