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TECHNOLOGY GROUP

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Find the *Kurtz Ersa ERSASCOPE 1* at our website: ***Click HERE***

DATA

ERSASCOPE 1

The Award Winning Original BGA & SMD Optical Inspection System



To see is to survive ! **– Only by being capable of seeing process problems, you will be able to react in order to correct them and assure quality!**

The Award winning & patented original ERSASCOPE is now designed for all purpose lead free PCB inspection. Greatly reduced in price due to the large numbers sold, this system is now more accessible to many users as a standard PCB microscope. The ERSASCOPE1 will be not only critical as a BGA inspection system, but will also provide the 90° and side view images of SMDs required to inspect to IPC standards.

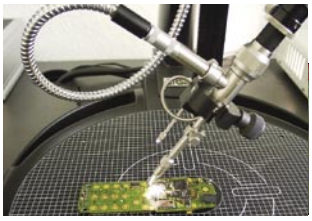
The ERSASCOPE 1 optical unit provides clear images of hidden solder joints underneath SMDs, eg. BGAs, PLCCs, etc. Powerful illumination of the inspection area by means of an adjustable halogen light source has further been optimized. The optically and mechanically coupled front- and back light effectively illuminate the hidden solder joints. The robust optical head is of an outstanding quality and is fully protected in stainless steel housing for use in a production environment. Breaking of the robust prism is nearly impossible!

The system is equipped with a sturdy antistatic X-Y inspection table to make inspection, precise, quick and flexible. Large PCBS can also be easily handled by moving the table to an optimal position.

For top view inspection, the ERSASCOPE 1 can either be easily angled from 0° to 90°, or can be equipped with two optional optics: MAGNISCOPE optic for 0° magnification up to 350 x, or the MACROZOOM (7-70X) lens with fibre ring light. The new optional FLEXSCOPE, flexible Mini-Endoscope (ø 0,4 mm) extends the product portfolio.

The ERSASCOPE 1 system can be upgraded with the Upgrade kit XL for inspection of large PCBs. Alternatively ERSA provides the ERSASCOPE 2 upgrade kit with its innovative exchangeable inspection heads for Flip Chip and CSP, as well as a superior light management system.

ERSA provides three software packages to complement the ERSASCOPE1 inspection hardware. IDView Image Explorer, ImageDoc Basic 1.3 and ImageDoc EXP 2.0 can be selected for visualization, analysis and documentation of the inspection results. ImageDoc EXP offers the worldwide largest soldering process data bank with more than 450MB text, reference images, videos and problem solution proposals.



ERSASCOPE1 allows for 0° to 90° surface inspection with high magnification images

ERSA product range

Soldering tools

NEW DIMENSION

- Soldering / desoldering stations
- SMD-Equipment
- Accessories

PROFI-LINE

- Hand soldering tools
- Battery-powered / gas soldering irons
- Solder baths
- Special tools

BGA/SMT-Rework

- IR Rework Center
- Placing systems
- Reflow process camera

CLEAN-AIR

Soldering systems

- Wave soldering machines
- Reflow soldering machines
- Selective soldering machines
- Process optimization software

Inspection systems

- ERSASCOPE *1*
- ERSASCOPE *2*
- ImageDoc Software

Other services

- Know-how seminars
- In-House trainings
- Test soldering
- Installation and maintenance assistance
- Process support

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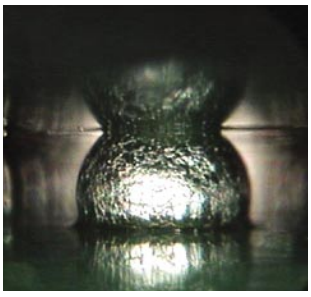
ERSASCOPE 1

A Lead Free First Article Inspection Requirement!

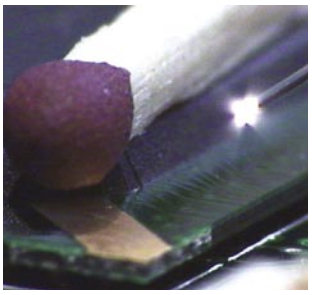
System Information		order number
ERSASCOPE 1 System, consisting of		**0VSSC090P**
Inspection System 	ERSASCOPE stand, complete	0VSST200
	Light fibre	0VSLL090
	ERSA CCD Inspection camera, PAL	0VSCA100P
	ERSASCOPE optical unit Footprint 1,5 x 4,5 mm	0VSSE100
	TV-adapter	0VSTV100
	dimensions (W x H x D): ~ 500 x 400 x 520 mm total weight ~ 4,6 kg surface: antistatic power supply: supply voltage: 90 - 264 V~ , 50 / 60 Hz output voltage: 12 V - / 1,3 A	
Light Source	Halogen ligth source, adjustable	0VSLS090
	dimensions (W x H x D): ~ 168 x 120 x 268 mm power supply: 220 V - 240 V~, 50 Hz, 190 W or 100 V - 120 V~, 60 Hz, 190 W weight: ~1,7 kg	
Inspection Table	X-Y-Inspection table, antistatic with 4 support columns	0VSXY090
	dimension: ø 320 mm weight: ~ 3 kg	
Options		
 	**Upgrade kit XL** incl. antistatic XL table (600 x 700 mm), telescopic arm, optic holder, and light extender	**0VSUP3XL**
	ERSASOPE 2 Upgrade kit complete	**0VSSC500VK**
	MAGNISCOPE for top view inspection (up to 350x)	0VSMS100
	MACROZOOM lens for top view inspection (7-70x)	0VSMZ100
	fibre ring light for MACROZOOM	0VSFR100
	holder MACROZOOM	0VSMZ100H
	FLEXSCOPE, flexible Mini-Endoscope (ø 0.4 mm), with holder	0VSFS200
	Calibration scale	0VSRM100
	Dust cover	0VSSH100
	Lens cleaning kit	0VSLC100
	Storage case	3VP00640
Software 	IDView Image Explorer with frame grabber - Image Visualization & Browser Software	0VSID100
	ImageDoc Basic 1.3 with frame grabber - General Inspection Software	0VSID130
	ImageDoc EXP 2.0 Software with frame grabber - Multimedia Professional Inspection Software	0VSID200

Monitor Recommendation:

The ERSASCOPE 1 system is equipped with a high quality CCD- Camera. The unit can be connected directly to any colour video monitor or the signal can be displayed on a PC monitor by use of a frame grabber card. Best image quality will be achieved with high resolution colour tube monitors (CRT) (horizontal resolution ≥ 460 TV lines). PC systems with DVI (Digital Visual Interface) will depict brilliant images, too. A black/ white monitor is not suited for this application.



ERSASCOPE 1, image of BGA solder joint.



The new FLEXSCOPE-flexible mini endoscope with a diameter of only 0.40 mm!

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