

OPTILIA FLEXIA BGA



OPTILIA Flexia BGA Inspection System



BGA lens matrix:

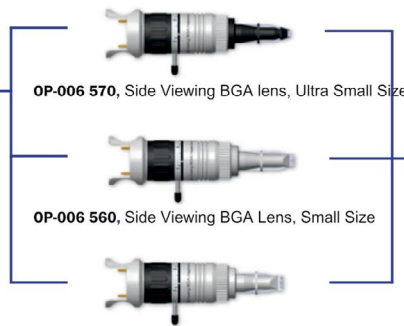
Video Microscopes

BGA lenses

Optical Probes

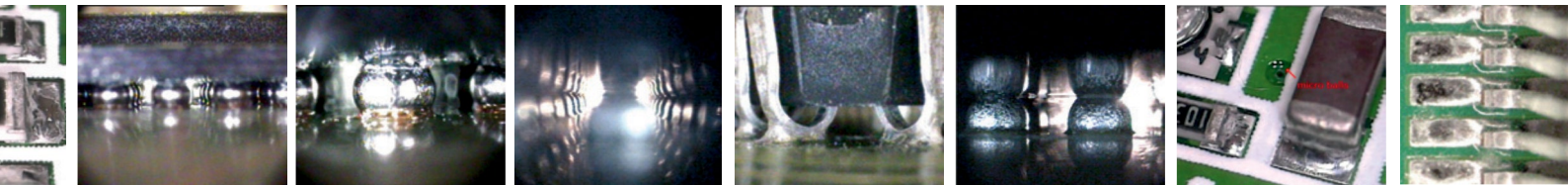


- OP-019 197**, Flexia Definition Digital 5Mp camera, HM
- OP-019 191**, Flexia Definition Digital 5.0Mp camera
- OP-019 152**, Flexia Definition Analogue PAL, HM
- OP-019 001**, Flexia Definition Analogue PAL



* Items can also be ordered as spare parts

Empowering your Vision



OPTILIA Flexia BGA Specifications



Information

State of the art optical inspection system with 5.0 MP digital camera and tiny high resolution side-viewing optical probes for fast and crisp inspection of solder joints of BGA, mBGA, CSP and Flip-Chip SMDs. Exchange the BGA Lens with the 1-100x Varifocal Lens and convert your system to a high resolution Video Microscope for top-side Inspection of assembled PCBs, solders, pads, scores, components, etc.

ESD-PROTECTION

Flexia video and digital microscopes are designed to comply with the requirements of electronics manufacturer regarding flexibility, image quality, time and cost effectiveness. Flexia is ESD-protected and EPA approved according to EN and IEC standards.

MOBILE AND STATIONARY CONFIGURABLE

Flexia BGA is compact, modular and ergonomically designed. The equipment weights only 200 gram including its BGA lens and the built-in LED illumination. Optilia BGA microscopes can be operated mobile in one-hand or be mounted on Standard size or XL size XYZ-system stands. A wide range of extra accessories are available to meet your specific optical inspection requirements and needs.

MODULAR OPTICAL SYSTEM

Flexia BGA Inspection Systems are modular and configurable. Standard BGA system contains Flexia Definition 5.0 MP camera microscope with software, side viewing BGA lens with small size optical probe, built-in front and background LED illumination with electronic dimmer, 1-100x varifocal top inspection lens and specially designed focusing stand.



Specifications

BGA Optical Probes	Low Aperture	Small Size	Ultra Small Size
Magnification*	~ 280x – 5x	~ 350x – 25x	~ 350x – 25x
Focusing range	~ 0.5 – 100 mm	~ 0.3 – 40 mm	~ 0.2 – 40 mm
Field of View	~ 1.2 – 50 mm	~ 1.0 – 20 mm	~ 1.0 – 20 mm
Required free Working Area**	~ 1.2 - 2.2 mm	~ 1.0 - 1.5 mm	~ 0.6 - 0.8 mm
Thickness of optical probe	2.2 mm	1.5 mm	0.8 mm
Width of optical probe	7.1 mm	6.0 mm	3.4 mm
Foot print of optical probe	0.8x7.1 mm	0.8x6.0 mm	0.4x3.4 mm
Weight	10 gr	10 gr	10 gr
	* Attached to Flexia Definition HM	** Minimum required free area depends on surrounding component heights	
Digital Video Microscope			
Image Sensor	Colour 5.0 mega pixel 2592(H) x1944 (V) USB2.0 interface		
Storage environment	-10° to +60° C, Max 98% RH, non-condensing		
Operating environment	0° to +45° C, Max 95% RH, non-condensing		

Optipix Lite, image view, capture and basic on-screen measurement software

By focusing on user friendliness, Optilia has developed this basic software to enable users to document and capture images. The software is Microsoft Windows based and takes little resources from the hosting computer. Different camera systems and microscopes can be connected and defined. Such device can easily be chosen and images be captured. Location of storage of results is defined by the user according to his/her preference.



Product No. OP-006 120