Inverted emission microscope C10506-07

iPHEMOS-MP

The iPHEMOS™, Now Future Proofed

The iPHEMOS™-MPX is a high-resolution emission microscope that pinpoints failure locations in semiconductor devices by detecting the weak light emissions and heat emissions caused by defects.

New laser scan system supports from static to dynamic analysis

Possible to support multiple analyses with one unit.

Applicable light sources; 1.3 μm, 1.1 μm, 532 nm





High accuracy stage designed for 5 nm SoC electrical failure analysis

Optical stage with linear scales improves position accuracy.

	iPHEMOS™-MP	iPHEMOS™-MPX
Resolution	XY axis 0.1 μm Z axis 0.16 μm	XYZ axis 0.05 µm
Repeat accuracy	±4 μm	XY axis ±2 μm Z axis ±1 μm

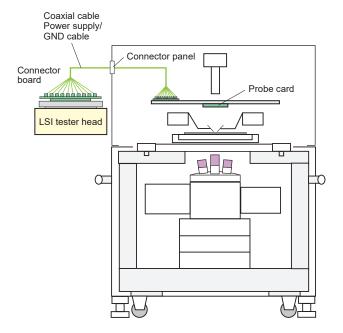
Semi-auto prober

Die to die index movement and probing are available by a semi-auto prober with wafer mapping software, which improves analysis efficiency, and save time.





Example of connection to the LSI tester



Dimensions / Weight / Utility

Dimensions / Weight

Main unit	Dimensions (mm) *1	1654 (W) ×1541 (H) × 1200 (D)
	Weight *2	Approx. 1100 kg
System rack	Dimensions (mm) *1	880 (W) × 1841.5 (H) ×715 (D)
	Weight	Approx. 300 kg
Operation desk *3	Dimensions (mm) *1	1200 (W) × 700 (H) × 700 (D)
	Weight	Approx. 45 kg

- *1 Excluding projecting parts
 *2 Include a sample stage
 *3 Option

Utility

Line voltage	Single phase 200 V to 240 V
Power consumption	Approx. 3300 VA
Vacuum	80 kPa or more
Compressed air *1	0.5 MPa to 0.7 MPa

^{*1} Include a regulato

LASER SAFETY

The iPHEMOS™-MPX is Class 1 laser product. Hamamatsu Photonics classifies laser diodes, and provides appropriate safety measures and labels according to the classification as required for manufacturers according to IEC 60825-1. When using this product, follow all safety measures according to the IEC.





Description Label (Sample)

Our failure analysis systems keep evolving to deliver more accurate and comfortable analysis.

We keep on developing the performance of failure analysis system PHEMOS®-X, iPHEMOS™-MPX.

We move forward on enhancing products with customers even after releasing the system.

Failure analysis system continues to evolve with the aim of making analysis more sensitive and comfortable.





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