

Your new business partner for RoHS, Halogen free, ELV applications



MESA-50



X-RAY FLUORESCENCE ANALYZER

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HORIBA Groperatin
Integrate
Managem
System

Oxidate

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HORIBA has been selling our XGT-WR series of EDXRF analyzers worldwide for many years to provide screening measurements of samples containing hazardous elements such as Pb, Cd, Cr, Hg, Br for RoHS, ELV, and Cl for halogen-free applications.

XGT systems are used daily throughout the world.

HORIBA has now developed the new MESA-50 EDXRF analyzer, based on our vast experience with customer requirements and knowledge. MESA-50 provides user friendly operation and excellent performance. MESA-50 includes three analysis diameters, suitable for every sample, from thin cables and electronic parts to bulk samples. The unique combination of SDD (Silicon Drift Detector) and DPP (Digital Pulse Processor) changes the landscape of EDXRF analysis.

HORIBA's new MESA-50 supports ecological procurement; it contributes not only to EU RoHS and ELV compliance testing, but also regulatory work for many other countries.



Outstanding 5S Technology



Speedy

- SDD (Silicon Drift Detector) drastically reduces measurement times, and provides increased sensitivity, for true high throughput analysis.
- 2. Small
- Portable, small footprint and light weight
- Internal battery power supply
- Simple
- Reduces routine maintenance work (LN2 free operation)
- No need for vacuum pumps
- Intuitive simple measurement process for all material types
- 4. Smart
- English/Japanese/Chinese user interfaces
- Excel® data management tool

5. Safe

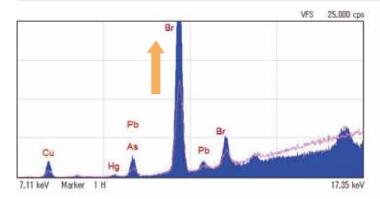
No worry about X-ray leakage



MESA-50



MESA-50 optics



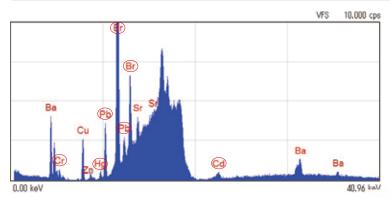
Blue: MESA-50 φ1.2 mm, Red: Previous model (XGT-1000WR φ1.2 mm)

MESA-50 with SDD can:

- 1) Increase spectrum intensity and resolution
- 2) Decrease background

Compact optical design makes MESA-50 a portable instrument. The small X-ray generator with low power consumption permits the battery powered mode.

Better performance with special filters

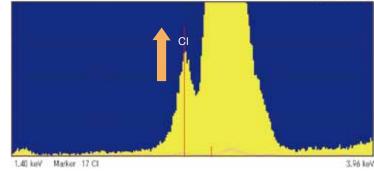


4 filters are included; a unique filter allows seven hazardous elements to be detected simultaneously including Pb, Cd, Hg, Cr, Br, Sb and As.

Blue: MESA-50 φ1.2 mm

The X-ray tube target material is optimized for high sensitivity CI analysis.

The MESA-50 doesn't require a vacuum pump for Cl measurement.



Yellow: MESA-50 φ 3 mm, Red: Previous model (XGT-1700WR φ 3 mm)

3 size collimators

φ1.2 mm, 3 mm, 7 mm (Automatic switching)

Operator can select the most suitable collimator size. The precise analysis area is displayed on the optical image. The small 1.2 mm beam means that operators can simply analyze individual cables, without needing to line up multiple cables to cover the X-ray beam area.



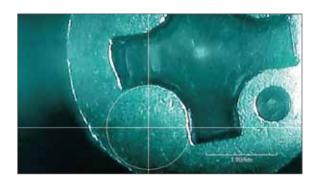


8,000 cps

Simple operation, excellent support tools

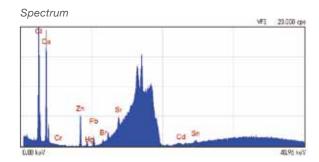
1. Position the sample

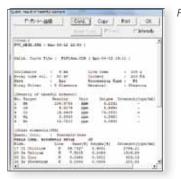
The clear optical image from the CCD camera allows easy positioning of the sample. The visualized measurement point is shown on the CCD image.



3. Display of spectrum and calculation result

Automatic display of quantitative results (concentration & 3 sigma) after measurement.



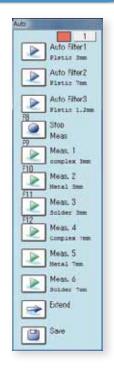


Result

2. Click the measurement button

Optimized measurement conditions for each material type are assigned to each measurement button (maximum 18 buttons). One click starts the measurement.

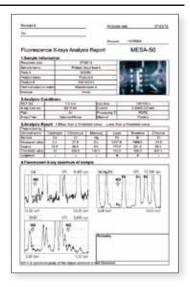
Operator does not need to set conditions each time, and no filter switching is necessary, thus minimizing possible operator error. Customized measurement buttons can be created, with original settings.



4. Excel® data management software and report format

Automatically transfer to Excel® with one button click. If internal administration values are registered, OK/NG (No Good) judgments (results vs threshold values) are performed.

Measurement report is also made with one button click.



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Portable! Small size and battery system



Less than One Cubic Foot!

Size: 208(W) x 294(L) x 205(H) mm

Weight: 12 kg

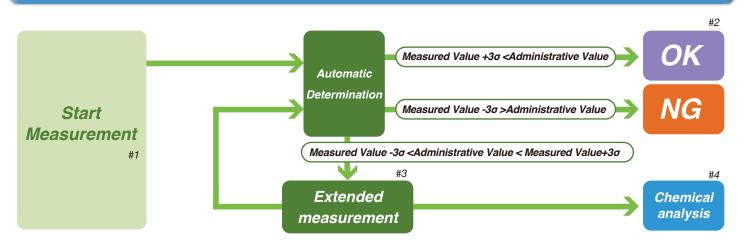
Battery System

MESA-50 has its internal battery, whose life is up to 6 hours.



Option: Lightweight carrying case

Automatic measurement time extension



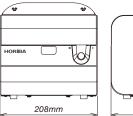
This function automatically sets up the optimum measurement time, based on judgment of results according to administrative values for the harmful element concentrations.

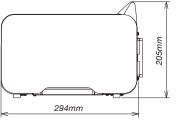
- #1 Measurement time varies with concentration of harmful element and material type of sample
- #2 The measurement will be terminated when OK or NG can be determined
- #3 If NG, set extended measurement time and repeat number (1-9 times)
- #4 Chemical analysis such as ICP would be recommended if it's impossible to determine OK/NG after maximum repeat measurement is finished at #2.

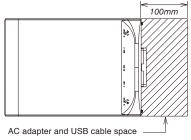
MESA-50 specification

	Principle	Energy dispersive X-ray fluorescence spectrometry				
Basic items	Target application	RoHS, ELV, Halogen-Free				
Dasic items	Measurement Elements	13AI - 92U				
	Sample types	Solid, Liquid, Powder				
	X-ray tube	Max 50kV, 0.2mA				
X-ray generator	X-ray analysis diameter	1.2mm, 3mm, 7mm (Automatic switching)				
	X-ray primary filter	4 types (Automatic switching)				
Detector	Туре	SDD (Silicon Drift Detector)				
Detector	Signal processor	DPP (Digital Pulse Processor)				
Sample chamber	Atmosphere	Air				
Sample chamber	Sample imaging	CCD camera				
Utility	Operation	PC (Windows®7)				
Othlity	Power supply	AC adapter (100-240V, 50/60Hz), battery				
Software	Analysis Function	Multilayer Film FPM (Optional), Sb/As analysis (Optional)				

Dimensional outline







Installation example



Options & Consumables











Disposable cell Tr

Cell window

Lightweight carrying case



POWER

CHARGE

ERROR



Dedicated analyzers for WEEE/RoHS

MESA-50K

X-RAY FLUORESCENCE ANALYZER



Chamber size: $460(W) \times 360(D) \times 150(H) \text{ mm}$

Big Chamber



Chamber size: $350(W) \times 400(D) \times 40(H) \text{ mm}$



XGT-5200WR

X-RAY ANALYTICAL MICROSCOPE

Please read the operation manual before using this product to assure safe and proper handling of the product.

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