





MESA-SO

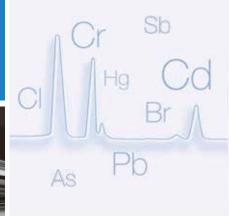
X-ray Fluorescence Analyzer











Your business partner for RoHS, Halogen free, ELV applications



Touchand

HORIBA's XGT-WR series of EDXRF analyzers provide screening measurements of samples containing hazardous elements such as Pb, Cd, Cr, Hg, Br for RoHS, ELV, and Cl for halogen-free applications. They are deployed worldwide.

Our MESA-50 EDXRF analyzer is based on our vast experience with customer requirements and knowledge.

MESA-50 provides user friendly operation and excellent performance and 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 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



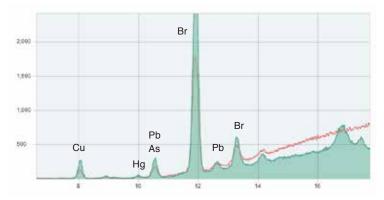
- Speedy
- SDD (Silicon Drift Detector) drastically reduces measurement times, and provides increased sensitivity, for true high throughput analysis.
- 2. Small
- Portable, small footprint and light weight
- Internal battery power supply
- 3. Simple
- Reduces routine maintenance work (LN2 free operation)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

5. Safe

No worry about X-ray leakage

FCC: MESA-50

MESA-50 optics



MESA-50 with SDD can:

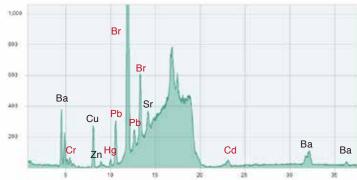
- 1) Increase spectrum intensity and resolution
- 2) Decrease background

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

Green: MESA-50 Φ1.2mm

Red: Previous model XGT-1000WR ϕ 1.2mm

Better performance with special filters

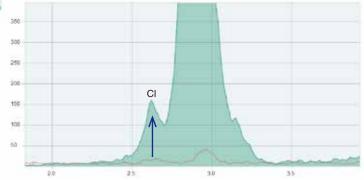


4 filters are included; a unique filter allows seven hazardous elements to be detected simultaneously including Pb, Cd, Hg, Cr, Br, Sb and As.

Green: MESA-50 ϕ 1.2mm

The X-ray tube target material is optimized for high sensitivity CI analysis. The MESA-50 does not require a vacuum pump for CI measurement.

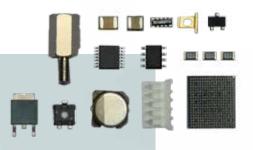
Red: Previous model XGT-1700WR ϕ 1.2mm

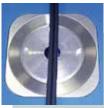


3 size collimators

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

Users 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.

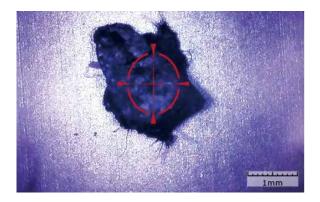




Simple operation, excellent support tools

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.

Spectrum Market Market

Result

County Statement	Committee	Directions.	: Netprent.	manual softest.
76	1194.7 ppm	57.5 spm	Section 1	FFW
Cd	940.9 2011	120.0 (000		771
(C)	158.3 april	267.6 pm	CHL	179
Hg	8 Tapm	47.2 sam	OK.	peu.
Br	3.8 apm	14.5 apm	OK:	me
Distances.	Contractor	Time Syrus	Arteres	Manuscratted .
Se.	944002 959	\$1000 MPS		FFW
.44	3.5874 w/64	\$ 8295 w/rs.		99%
Co	3.0126 w/fb	2 0 150 w/%		PPM
Bit .	9.3355 95%	0.010x w/w		New .
4	62714 67%	82330 vm		1976
fe	-0.0113 eth-	83111 are		FFE
10	8:0027 w/m-	1200149		PPM
14	8.0008 arts	1.3010 w/h		17%

2. Click the measurement button

One-click starts the measurement for RoHS. The software selects suitable measurement condition and parameter every matrix automatically. The user does not need to set conditions each time, and no filter switching is necessary, thus minimizing possible operator error. Customized measurement buttons (recipe) can be created, with original settings.

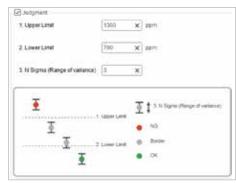


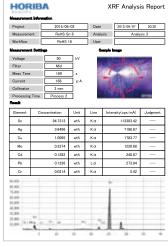


4. Results & report format

Measurement reports can be saved in Excel®, Word®, or a PDF format. If internal administration values are registered, OK/NG (No

Good)/Border judgments (results vs threshold values) are performed.





Portable! Small size and battery system



Less than One Cubic Foot!

Size: 208(W) x 294(D) x 205(H) mm Weight: 12 kg

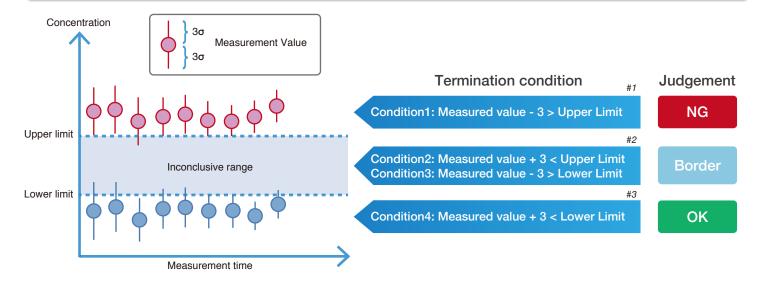
Battery System

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



Option: Lightweight carrying case (Example)

Automatic judgement and measurement termination



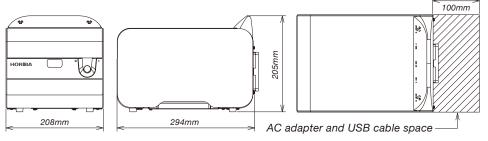
- #1. At the time when at least one of focused element is satisfied with condition1 for two times in a row.
- #2. At the time when at least one of focused element is satisfied with condition2 and all focused elements are satisfied with condition3 for two times in a row.
- #3. At the time when all focused elements are satisfied with condition4 for two times in a row.

MESA-50 specification

Basic items	Principle	Energy-dispersive X-ray fluorescence spectrometry	
	Target application	RoHS, ELV, Halogen-Free	
	Measurement elements	Al (13) - U (92)	
	Sample types	Solids, Liquids, Powders	
X-ray generator	X-ray tube	Max 50 kV, 0.2 mA	
	X-ray analysis diameter	1.2 mm, 3 mm, 7 mm (Automatic switching)	
	X-ray primary filter	4 types (Automatic switching)	
Detector	Туре	SDD (Silicon Drift Detector)	
	Signal processor	DPP (Digital Pulse Processor)	
Sample chamber	Atmosphere	Air	
Sample chambel	Sample imaging	CCD camera	
Utility	Operation	PC (Windows [®] 10)	
	Power supplies	AC adapter (100-240V, 50/60Hz), battery	
Software	Analysis function	Multilayer Film FPM (Optional)	

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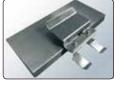
Dimensional outline



Installation example



Options & Consumables











Cell window

Transmission X-ray film

Cell frame

Cable fixing jig

Disposable cell



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



XGT-9000

 μ XRF ANALYTICAL MICROSCOPE



Chamber size: $450(W) \times 500(D) \times 80(H) \text{ mm}$



The HORIBA Group adopts IMS (Integrated Management System) which integrates Quality Management System ISO9001, Environmental Management System IS014001, and Occupational Health and Safety Management System ISO45001.
We have now integrated Business Continuity Management System ISO22301 in order to provide our products and services in a stable manner, even in emergencies.

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

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