

EDX-2911B ROHS analyzer



Application industry

- Electronic and electrical RoHS
- Testing alloy manufacturing RoHS testing
- Coating and plating RoHS calibration test
- RoHS testing of plastics and plastic parts
- Various harmful element detection fields
- Alloy composition analysis
- Coating thickness analysis

RoHS analysis expert

- Non-destructive, fast and accurate detection,
- High precision, high resolution, high reliability,
- Humanized interface, convenient operation, high-definition camera

Technical Parameters

- Sample chamber size: 340mm x 386mm x 150mm
- Instrument size: 580mm x 445mm x 385mm
- Instrument weight: 45kg

Instrument environment requirements

- Ambient temperature: 10°C~30°C
- Relative humidity: 35%-70%
- Power supply requirements : AC220V+5V, 50/60Hz
- There are no high-power electromagnetic and vibration interference sources nearby
- Humidity conditions: 40%-70% (no condensation)
- Rated power : 100W

Advantages and features

- High resolution, HD camera, convenient operation ;
- Non-destructive, fast and accurate detection, humanized interface ;
- European heart, Chinese sentiment - all European and American core technologies and original parts, with prices based on China's national conditions ;
- Easy to use, one-click operation, RoHS analysis results of each element ;
- The body structure is compact and strong, and the appearance is very beautiful, suitable for placement in exhibition rooms ;
- Accurate results of the chemical composition of the sample can be obtained within seconds of pressing the button ;
- Using PC and software, you can quickly and easily create inspection result certificates for samples ;
- Camera and in-cabin lighting system can check the test position of the sample in real time, so that you can know it well ;
- Analyzer test data can be downloaded and uploaded, and network test results are easy to view and share ;
- Reliable power overcurrent and short-circuit protection, reliably ensuring user safety ;
- Automatic control testing system to reliably ensure customer use ;
- Application industry ;

ROHS and halogen-free detection												
Element	Pb	Cd	Cr	Cl	Hg	Br	As	Sb	Ba	S	Zn	Sn
Ec681k	98	137	100	800	23.7	770	29.1	99	0.0028	630	1250	86

Coating thickness detection											
Test frequency	1	2	3	4	5	6	7	8	9	10	11
Zn (um)	1.0368	1.0297	1.0338	1.0356	1.0370	1.0380	1.0322	1.0345	1.0316	1.0291	1.0291

Yellow steel grade and standard value test number grade													
Brand	CU	Pb	Al	Fe	Bi	Sb	P	Mn	Ni	Sn	As	Cd	Zn
HPb59-1	57.62	1.31	0.22	0.39	0.0028	0.0098	0.019	0.0017	0.11	0.23	0.0028	0.0017	REM

The application case

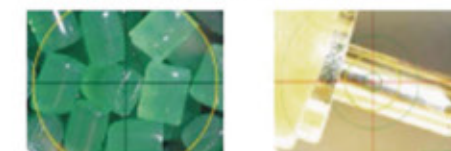
"Detection Method for Toxic and Hazardous Substances in Electronic Information Products" (hereinafter referred to as "Detection Method", standard number is SJ/T 11365-2006) limits the testing methods for harmful elements in RoHS requirements, among which x-ray fluorescence spectroscopy As one of the fastest and most convenient methods, XRF was developed as a rapid screening method. X-ray fluorescence spectrometry (XRF) can be used to detect (Pb), mercury (Hg), (Cd), chromium (Cr) and bromine (Br) The corresponding standard samples of the five elements are accurately tested. However, the results obtained by the principle of base XRF are only the content of elements. That is to say, if this screening test obtains the content of chromium (Cr) or bromine (Br), even if they exceed the standard, it does not represent the harmful substance CrV 1) With the inhibitors PBB and PBDE) extremely bad, this test result (containing) is only a necessary condition but not a sufficient condition for containing the corresponding hazardous substances. This is the reason why there is no basis for judging the unqualified limits of these two hazardous substances in the limit value table.

- Equipped with measurement of RoHS/ELV target elements
- Standardly equipped with measurement conditions for cadmium, lead, mercury, chromium, bromine, and chlorine (built-in standard curve)
- When measuring foreign matter or measuring samples containing multiple parts, using the sample observation camera allows you to easily set the analysis position while observing the camera image.



Sample observation function

When measuring foreign matter or measuring samples containing multiple parts, using the sample observation camera allows you to easily set the analysis position while observing the camera image.



原装进口探测器

Instrument performance and configuration

- Analysis range : lppm to 100%
- Accuracy RSD: ≤ 0.05%, Ag≥90%
- Test the physical state of the sample : solid, powder, liquid
- Light tube voltage : 5KV-50KV/optional imported light tube
- Gaole power supply : 0~50KV
- Light pipe flow : OuA~1000uA
- Camera : hd camera
- Collimator/filter automatic switching system
- Amptek detector Si-Pin imported from the United States
- Resolution : 144±5eV
- Multichannel analyzer : DMCP
- Test time : 30see-100see
- RoHS analysis common elements : Pb, Hg, Br, Cr, Cl, Cd, Ba, Sb, As...etc.
- Common elements in alloy analysis: Ti, V, Cr, Mn, Fe, Co, Ni, Cu, Zn, Se, Nb, Zr, Mo, Pd, Ag, Sn, Sb, Ta, Hf, Re, W, Pb, Bi, Ru etc.
- More than ten elements can be analyzed at the same time, and five layers of coatings can be analyzed
- Analysis software Spec-FP qualitative analysis software

The main test substances in RoHS requirements are as follows:

Restricted substances	Limit content
(Hg)	1000ppm
(Cr VI)	1000ppm
(Cd)	100ppm
(Pb)	1000ppm
(Cl)	900ppm
(PBBs)	1000ppm
(PBDEs)	1000ppm