

Rapid | Accurate | Non-destructive



# Thick 8000

Plating Thickness Analyzer

# Thick 8000

## X-ray Fluorescence Spectrometer

Rapid | Accurate | Non-destructive



Thick 8000  
Plating Thickness Analyzer

Thick 8000 Plating Thickness X-Ray Fluorescence Spectrometer is specifically designed plating thickness measurement. Skyray Microspot technology utilises a 3D movable platform, two HD cameras and 8 automatic collimators to achieve precise analysis with spot size as small as 0.1 mm.

### Features

- Excellent sample observation system
- Advanced image identification
- Built-in SNE (Signal to Noise Enhancer)
- Intelligent Plating-thickness software
- Large area high resolution detector
- Four automatic micro-focus collimators
- One-click operation

### Technical Specifications

Measurable elements: from Sulfur to Uranium

Stability: 0.1%

Repeatability: 0.1

Plating Thickness: within 20  $\mu\text{m}$

SDD Detector: 135 eV resolution

Test time: 60-100s

Sample Observation: two industrial  
HD Cameras

Collimator: 0.1 mm, 0.2 mm, 0.3 mm

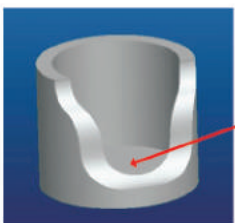
Size: 69 cm x 57 cm x 66 cm

Chamber size: 52 cm x 40 cm x 15 cm

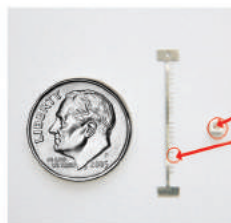
Ambient temperature: 15-30°C

Minimum sample size: within 0.1 mm

Power: AC 220V  $\pm$  5V  
AC 110V  $\pm$  5V



Thick 8000 can analyze samples of different shapes and sizes

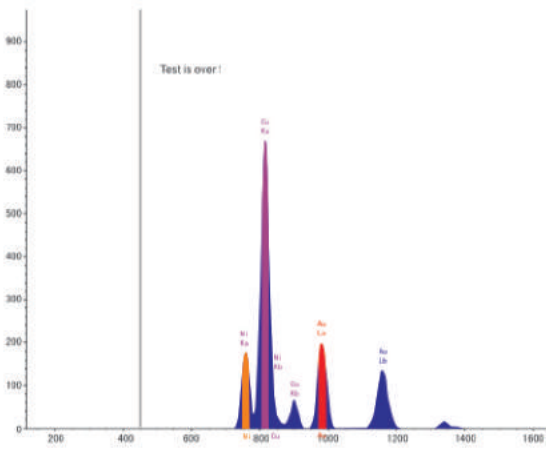


Micro collimator technology allows test spot as small as 0.1 mm

# Thick 8000

## X-ray Fluorescence Spectrometer

### Plating Thickness Analysis Software



Test Spectrogram of Thick 8000



### Test Data- Au-Cu Plating

Repeatability Test Results	
Times	Thick8000
1	0.042
2	0.043
3	0.043
4	0.0412
5	0.0429
6	0.0436
7	0.0427
8	0.0425
9	0.0416
10	0.0432
11	0.0422
Mean Value	0.0425
Standard Deviation	0.0007
Relative Standard Deviation	1.6994%
Max - Min	0.0024

Test time: 30-100 seconds

# Skyray Instruments



Skyray Instruments USA, Inc  
1717 N. Akard Street, Ste 2520  
Dallas, Texas, 75201 USA

+1 972 638 9035  
[www.skyrayinstruments.com](http://www.skyrayinstruments.com)  
[sales@skyrayinstruments.com](mailto:sales@skyrayinstruments.com)

• Spectroscopy • Chromatography • Mass Spectrometry

Skyray Instruments specializes in the R&D, manufacturing and sales of analytical and measuring instruments in Spectroscopy, Chromatography and Mass Spectrometry fields. Our Products include X-ray Fluorescence Spectrometry, Atomic Absorption Spectrometry, Gas Chromatography, Inductively Coupled Plasma Spectrometry, Mass Spectrometry and many others

Skyray has been providing customers around the world with reliable and affordable Scientific Instruments for more than 20 years