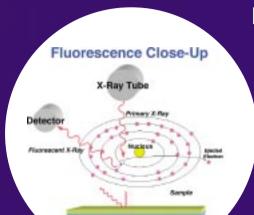


# CMI900 from Oxford Instruments for analysis of: Multi-layer Coating Thickness & Composition • Alloy ID & Chemistry • Plating Solution

## **Oxford Instruments**

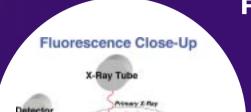
proven XRF expertise worldwide

- 35 years XRF experience
- 25 years in coating measurement
- 15 years in XRF coating thickness measurement
- world-wide sales and support network
- extensive portfolio of analytical instrumentation



# How does the CMI900 use fluorescence?

- X-Ray tube provides bombardment of excitation photons to the sample
- secondary, or fluoresced
- The X-Ray's intensity determines the thickness and/or composition



# What is X-Ray Fluorescence?

Fluorescence is a process in which an atom or a molecule absorbs a photon of certain energy and releases another photon of lower energy



- Detector measures the

## **Long-term Stability**

• Spec-Cal – single click of the mouse will check the system performance and selfcorrect, if necessary

# **CMI900** – High performance XRF spectrometer

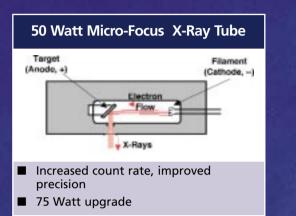
### Accuracy

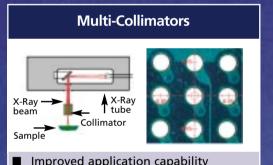
- Empirical calibrations highest accuracy
- FP Model easy calibrations
- Certified Standards ensures traceability
- A2LA approved lab guaranteed integrity
- Re-certification of Standards service commitment

### **Precision**

- Laser Focus repeatable sample presentation
- High Countrate good precision
- 75 Watt upgrade best precision
- Thermal compensation measures the system temperature and corrects for changes that could cause drift

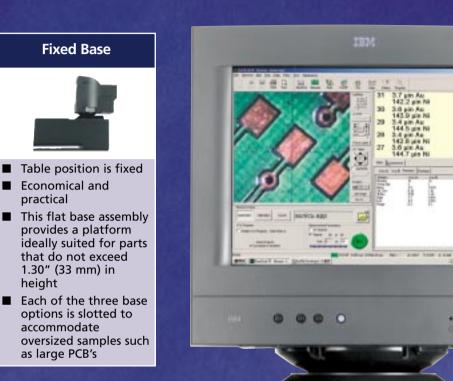
# **Innovative** technology



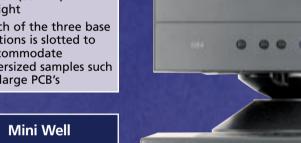


- Optimize the balance between count rate and spot sizes Various size of round and rectangular collimators are available Up to 6 collimators can be installed
- **Laser Focus** ■ Single click starts the Z-axis scan Automatically finds the correct Z-axis coordinate at the focal distance set

# **Table options**

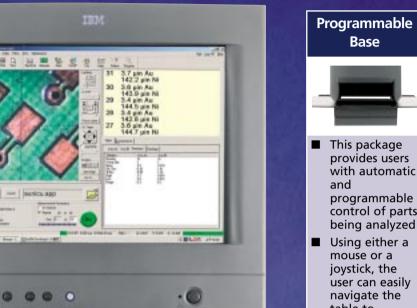


CM1900



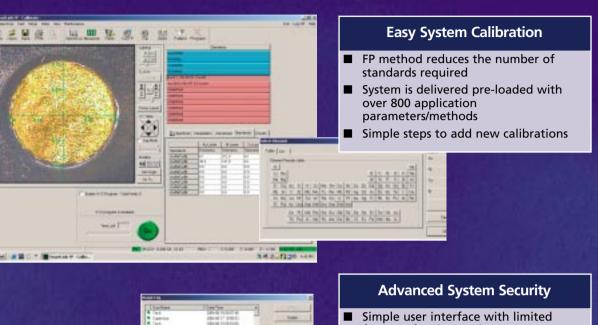


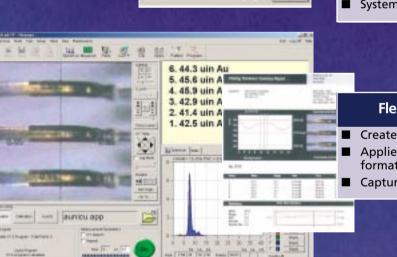
base platform Adjustable in one inch increments, this rackstyled chamber can accommodate parts up to 6.30"(160 mm) in



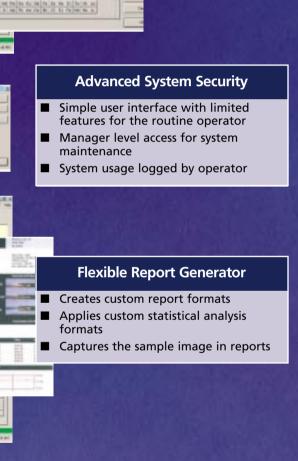
mouse or a joystick, the user can easily navigate the position the inspected to the precise point the user wants to measure

- Standard table size is 22" (56mm) (D) x 24" (60mm)
- Travel is 7" x 7" (152.4 mm) x (177.8 mm)









■ English - Chinese (Traditional) Japanese - Korean - French - German

Seven Languages

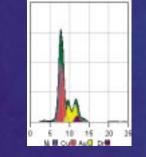
CMI900 from Oxford Instruments Fast, Productive, Cost Effective Analysis



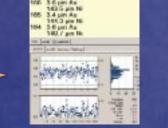


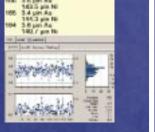
Results as easy as 1 - 2 - 3

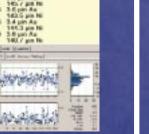
2 Point and click to obtain spectrum result



**3** Create result summaries









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Part no: OIA/098/A/0704

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