CMI730®

Coating thickness measurement system

Control your plating/coating process with the most advanced bench-top system that we have ever designed

Ergonomic design, a large backlit LCD display, and Oxford Instruments' technology and experience have been brought together to produce the **CMI**730. This easy-to-use microprocessor driven instrument delivers precise measurements at the touch of a button. Specially designed to handle the needs of platers, coaters, and quality professionals, the **CMI**730 was built to withstand even the most hostile work environments.The **CMI**730 combines ease-of-use with high inspections productivity and accuracy with a display that is clearly visible from several feet away and from virtually any angle. The **CMI**730 provides high tech solutions for non-destructive coating/plating thickness measurement for both non-magnetic coatings over magnetic substrates, non-conductive coatings over conductive substrates, and electroplated nickel over magnetic substrates. Oxford Instruments offers a worldwide network of support and service. Like all our instruments, the **CMI**730 is backed by our guarantee of superior service before and after you order.

- Platers: Zn, Cd, Ni, Cu etc
- Coaters: Paint, Powder and Anodize
- Quality: Ideal for incoming inspection of coated or plated parts

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Measurement Probe Information

Probes are required with all **CMI**730 Series systems. Despite their size and simple appearance, probes are high precision electromechanical assemblies that play a critical role in your ability to measure parts accurately. The Oxford Instruments Support team will help you select the probe that will measure your application. Factors involved in probe selection are type of coating, thickness of coating, size of part, and shape of part. Optional probe guides provide precision control.

Probe Guide (optional)

Eddy Current Mode	Range	Magnetic Mode	Range
Non-Conductive on Conductive	0-40.0 mils (0-1000 µm)	Non-Magnetic on Magnetic Steel	0-50.0 mils (0-1250 µm)
Zinc on Steel	0-1.50 mils (0-37.5 µm)		
Cadmium on Steel	0-1.50 mils (0-37.5 µm)	Electroplated Nickel on Non-Magnetic	0-5.00 mils (0-125 µm)
Copper on Steel	0-1.50 mils (0-37.5 µm)		
Nickel on Steel (electroplated)	0-3.00 mils (0-75.0 µm)		

Specifications:

Magnetic Induction: Conforms to methods ASTM B499 & B530, DIN 50981, ISO 2178 and BS 5411 Parts 9 & 11

Eddy Current: Conforms to methods ASTM B244 & B259, DIN 50984, ISO 2360 and BS 5411 Part 3

Memory: 8000 bytes, non volatile

Accuracy: ± 1% ± 0.1 µm referred to reference standards

Outputs: Parallel printer port and RS232 serial port

Unit Conversions: Select from mils, µm, µin, mm, in., or % as units for display

Weight: 6 Lbs. (2.79 kg)

Dimensions: (W) 11.5" (29.21 cm) x (D) 10.5" (26.67 cm) x (H) 5.5" (13.97 cm)

Display: Large LCD 480(H) x 320 (V) pixels, backlit, wide angle view

Statistics: Mean, high and low, standard deviation, % deviation and CPK

Charts: Histogram, trend, x-Bar and r

Call Sales Support for more information regarding the **CMI**730. **CMI**730 instruments comply with ISO/IEC Guide 25 requirements. Multiple Security Levels

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