

SCOPEX PILOT COATING THICKNESS ANALYZER



The ScopeX PILOT Coating Thickness Analyzer uses a top-down analysis approach, featuring advanced Multi-FP algorithm software, microlight aggregation technology, and a high-sensitivity zoom distance measurement device. This setup enables swift, precise, and non-destructive testing on surfaces that are uneven, irregular, or minuscule.

Analyzing coating thickness has become a vital aspect of the processing industry and quality inspection in surface engineering. It serves as a crucial method to ensure products meet quality standards. To globalize products, specific requirements regarding coating thickness are mandated for exports and foreign-related projects.

Addressing challenges in controlling product quality during surface treatment processes and screening in the coating sector is easily manageable with the ScopeX PILOT Coating Thickness Analyzer. It finds extensive application in industries such as jewelry, electroplating, automotive, hardware, bathroom fixtures, aerospace, electronic semiconductor, and more.

>5 layers

Number of testable coating layers

Multi-collimator

Multiple collimators are optional and flexible

NDT

No damage or effect on the performance of tested objects Application Advantages

APPLICATIONS

ScopeX PILOT Coating Thickness Analyzer – Fasteners

Fasteners

ScopeX PILOT Coating Thickness Analyzer – Small Hardware Parts

Small Hardware Parts

ScopeX PILOT Coating Thickness Analyzer – Jewelry

Jewelry

ScopeX PILOT Coating Thickness Analyzer – Auto Parts

Auto Parts

ScopeX PILOT Coating Thickness Analyzer – Printed Circuit Boards

Printed Circuit Boards

ScopeX PILOT Coating Thickness Analyzer – Electronic Components

Electronic Components

FEATURES

Optional microfocal X-ray device

Capable of easily and accurately analyzing diverse tiny samples.

Multi-collimator / filters

The software can either optionally select multiple filters and collimators or automatically switch to the optimal combination. This greatly boosts the instrument's versatility, enabling flexible analysis of parts of varying sizes.

Down-to-top design

Measure from bottom to top without requiring specific focusing. Attain efficient measurement of coating samples.

NDT(Non-destructive testing)

XRF analysis is non-destructive to samples, ensuring safety even for sensitive materials.

Zoom device

Various specially shaped concave parts can be tested, with the measurement range of groove depth extending from 0 to 30 mm.

High-precision manual X-Y platform

Furnished with a high-precision manual X-Y platform, featuring an accuracy of up to 25 μm, facilitating more convenient micro-area measurements.

One-touch measurement

The instrument features intuitive and intelligent analysis software, ensuring ease of operation. Testing samples requires no training; simply click "Start Test", and results are available within seconds.

TECHNICAL SPECIFICATIONS

Range of element	Al(13)-Fm(100)
Analysis of the layer number of	5 layers (4 layers + substrate) each layer can analyze 10 elements, composition analysis can analyze up to 25 elements
X-ray tube	50 W (50 kV, 1mA) micro-focused tungsten palladium ray tube (target material is optional)
The detector	Si-Pin detector, high sensitivity SDD detector(optional)
Collimator	Φ3optional
The camera	High resolution CMOS color camera, 5 megapixels
Manual sample XY platform	Moving range□ 50x50 mm
Filter	Fixed primary filter, multi-filter(optional)
Sample room size	320×480×130mm□ W×D×H□

Dimension	330×580×360mm□ W×D×H□
Weight	40KG
Power supply	AC 220V±5V 50Hz (110V also available)
Rated power	150W



Torontech Inc.

251 Consumers Road, Suite 1200
Toronto, Ontario, M2J 4R3, Canada 🇨🇦

Phone: +1 416 368 2721 | Fax: +1 416 981 7652
Email: info@torontech.com

Torontech, LLC

601 Brickell Key Drive, Suite 700
Miami, FL 33131, USA 🇺🇸

Toll-Free: 1-866-383-7919
Email: sales@torontech.com

Torontech ME FZE

Meydan Grandstand, 6th Floor,
Meydan Road, Nad Al Sheba,
Dubai-261440, UAE 🇦🇪

Phone: +971 488 19252
Email: me@torontech.com

