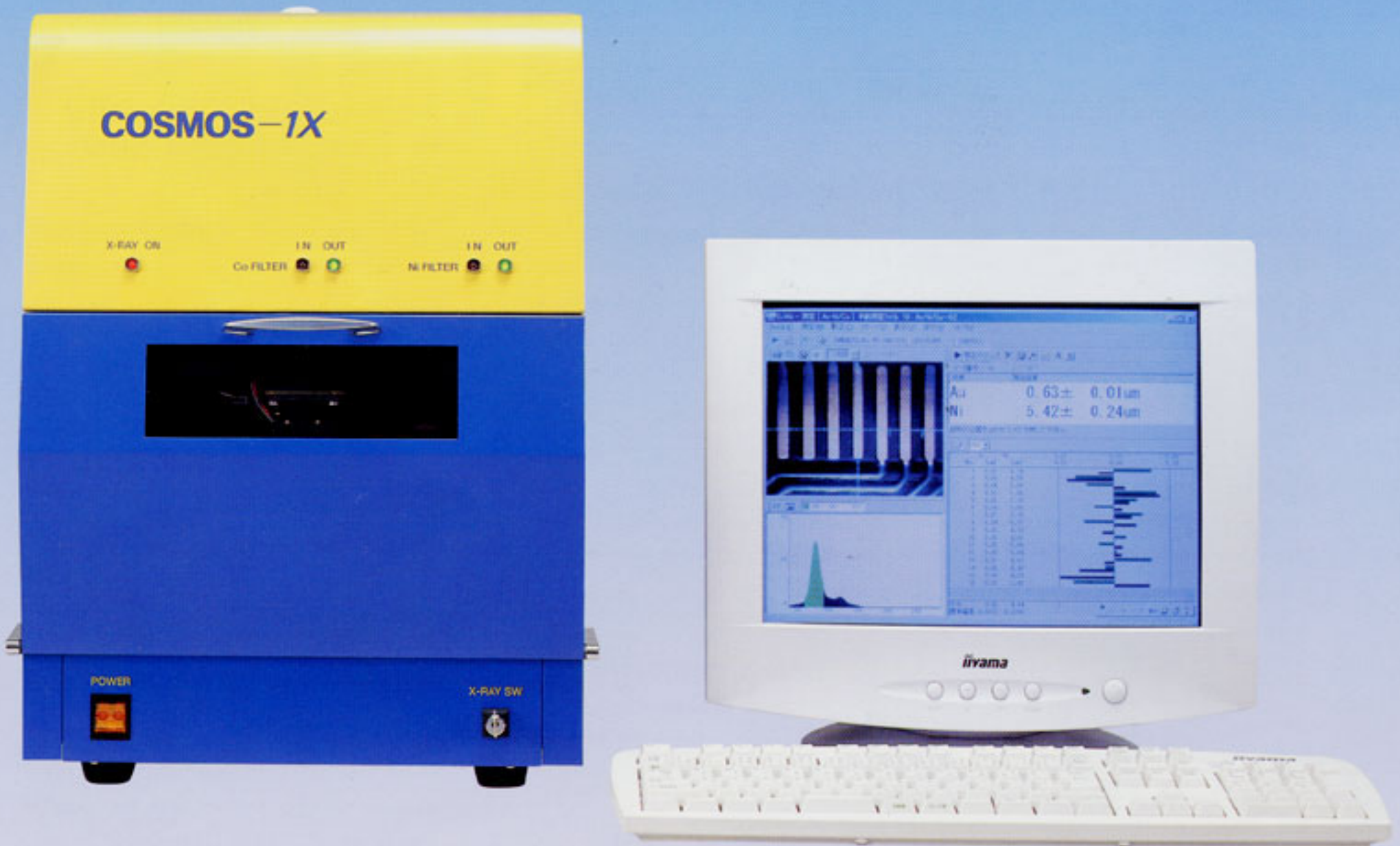


*X-Ray Fluorescence Coating
Thickness Tester*

COSMOS-1X



株式会社 電 測

ELEC FINE INSTRUMENTS CO., LTD.



Setting appropriate and the best measurement condition for test samples.
(Obtain accurate measurement value)

Double-filter System

In addition to numerical filter, a mechanical filter has been introduced which allows testing under the best conditions with extremely accurate results.

Built-in five kinds of collimators

Minimum size collimator is 0.1 ϕ mm which allows measurements on microscopic part of the sample.

Standard:

0.1, 0.2, 0.5, 1.0, 2.0

optional:

0.05, 0.1, 0.2, 0.3, 0.5 or

0.05 \times 0.5, 0.1, 0.2, 0.3, 0.5

Superior Indication Function
(MS-WINDOWS SYSTEM)

IBM/PC Compatible

IBM / PC compatible PC system allows direct use of various application soft of MS-Windows.

Visual Monitor Indication of Measuring position

Irradiated part is displayed on the Windows screen. Screen size changes automatically according to the size of using collimator.

Multi-channel system

Multi-channel system obtains spectrum analysis with much higher speed
(Processing speed is appx.2-3 sec.)

Substantial Capacity of DataProcess and Operation

Substantial Report Function

MS-WINDOWS application soft makes for the display of the actual area of measurement on the screen and easy completion of various reporting tasks. Multi-task function enables data process operation including reporting tasks while measuring operation is under way.

Reliable Maintenance System

Self-check & X-ray tube maintenance function

With the self-check function, troubleshooting is simple, clear and immediate. Used time of X-ray tube can be shown together with its durable term for better maintenance.

COMBINATION OF COATING/BASE

BASE	COAT-ING	Au	Ag	Sn	Rh	Cd	Cr	Co	Cu	Ni	Fe	Zn	Pb	Pd	Pt	Sn-Pb	BASE	COAT-ING	Au	Ag	Sn	Rh	Cd	Cr	Co	Cu	Ni	Fe	Zn	Pb	Pd	Pt	Sn-Pb	
Au		○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	Pt		○	○	○	○	○	○	○	○	○	○	○	○	○	○		
Ag		○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	Al		○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	
Sn		○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	C		○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	
Rh		○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	Ga		○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	
Cd		○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	Ge		○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	
Cr		○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	Mg		○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
Co		○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	Mn		○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
Cu		○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	Mo		○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
Ni		○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	Si		○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
Fe		○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	Ti		○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
Zn		○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	SUS 304		○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
Pb		○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	Brass		○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
Pd		○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	Plastic		○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○

○→can measure X→can't measure △→can measure conditionally ▲→When Filter used,can measure —→doubled combination (can't measure)
NOTE:PLEASE CONSULT US FOR OTHER COMBINATIONS. We reserve the right to alter specifications without notice. For further information,please call or write:

Specifications

Chamber	Size (mm)		362 (W) X 425 (D) X 486 (H)
	Weight (kg)		44.2
Measurement table	Operation method		Manual table
	Size (mm)		170 (W) X 100 (D)
	Movement length	X (mm)	70
		Y (mm)	70
Z (mm)		50	
Test item (sample)	Max.Height (mm)		45
	Max.Weight (kg)		3
Personal computer	Main part (mm)		180 (W) X 420 (D) X 360 (H)
	Monitor (mm)		360 (W) X 420 (D) X 370 (H)
Printer		(mm)	500 (W) X 250 (D) X 350 (H)
Power supply	Voltage (V)		AC100±10
	Cycle (Hz)		50/60
	Voltampere (VA)		700

X-ray source	Immersed in oil, compact size Infinitesimal x - ray tube Target : Tungsten Tube voltage 50KV Tube current variable 1.2mA	Measurement function	Single layer plating thickness test Two-layer plating thickness test Three-layer plating thickness test Alloy coating thickness and composition simultaneously Spectrum measurement set	Correction function	Correction for base material			
Irradiation	Irradiates vertically from above		Measurable object	Atomic number 22(Ti)~82(Pb) Also for atomic number less than 21, measurable by absorption method	Data process function	Indication of statistics values : mean, standard deviation, max. & min. value, range, Cp, Cpk Histogram		
Detector	Proportional counter tube					Indication of measurement data profile Indication of measurement data Indication of \bar{x} -R Output mode set		
Collimator	Five sizes (automatic change system) 0.1, 0.2, 0.5, 1.0, 2.0 ϕ mm (option: 0.05 X 0.5, 0.05 ϕ)	Measurement range				Atomic No.22~24:0.2~Approx.20 μ m Atomic No.25~40:0.1~Approx.30 μ m Atomic No.41~51:0.2~Approx.70 μ m Atomic No.52~82:0.2~Approx.10 μ m	Safety features	Power supply key switch for X-ray Failsafe function
Filter	Automatically changes numeric and mechanical filters (Ni and Co) filter		Calibration curve	Indicates calibration curve automatically Multi-point calibration	Other function			Password function Maintenance adjustment of apparatus
Test sample	CCD color camera							
Computer	PC / AT compatible 15-inch color monitor							
Printer	Inkjet printer							

As models change, manufacturer reserves the right to change specifications without notice.

Note: It is mandatory that this instrument be reported to the Labor Standards Inspection Office.

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