

FISCHERSCOPE® X-Ray XAN® 120



The right tool for precious metals and jewelry analysis

The new FISCHERSCOPE® X-Ray XAN 120 is a modern tabletop x-ray spectrometer (EDXRF). It is optimized for fast, non-destructive analysis of jewelry, precious metals in general, yellow and white gold, platinum and silver, rhodium, coins and all jewelry alloys and coatings. The XAN 120 is accurate, safe and easy to use, robust and maintenance free. In addition, it meets the requirements of DIN ISO 3497 and ASTM B 568.

The high-resolution silicon PIN detector combined with a fast signal processing achieves extreme precision and very low detection limits. In a matter of seconds, all elements in the range of Chlorine (17) to Uranium (92) are determined accurately.

Whether you want to measure known samples or determine unknown materials, the XAN 120 with the exceptional Fischer WinFTM operating software is the right choice. Either using the new and improved fundamental parameter standardless method or standards based – the result is always fast and exact.

To simplify sample placement, the x-ray source and the high resolution silicon PIN detector are arranged in the base of the XAN 120 which uses an upwards measurement technique. The integrated video-microscope with cross hair, beam indicator, spot illumination and magnification make sample placement and spot determination quick and easy. There is no need to adjust a table or sample stage – just place and measure.

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Long-term stability and outstanding precision – better than 1‰ for gold – are benefits of the XAN 120. In addition, the necessity for re-calibration is significantly reduced thus saving time, effort and cost of ownership.

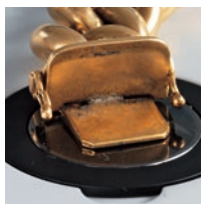


Measured results are displayed in karat, ‰ or weight %, and easily printed out as customized reports. Excellent ergonomics, easy operation and fast calculation of the measurement best describe the XAN 120.



Usage is safe and easy – for experienced staff as well as for employees with little training. There is no need for a special laboratory room for the XAN 120.

If you need an outstanding, accurate and reliable tool – the XAN 120 is the right choice.



WinFTM® Evaluation Software for PC

The advanced Fischer WinFTM software comes all inclusive – complete, easy to use and without any need for additional modules or upgrades.

- Operation of the x-ray unit
- Control of the entire measuring process
- Advanced fundamental parameter method for standard-free measurements
- Standard based measurements, calibration with certified standards
- Material analysis of composition and coating thickness
- Automatic element peak identification
- Indication of values as karat, wt% or ‰
- Reporting tool for customized reports

Specification

Intended use	Energy dispersive x-ray fluorescence spectrometer (EDXRF), according to DIN ISO 3497 and ASTM B 568
Element range	Chlorine Cl (17) to Uranium U (92)
Precision	≤1 ‰ (≤0,1 wt %) for Gold Au (79)
X-ray tube	Standard tungsten tube, thermally stabilized for extended life and stability
High voltage	Three steps 30 kV, 40 kV, 50 kV for optimized jewellery detection
Aperture (collimator)	Ø 2 mm, (optional: Ø 1 mm)
X-ray detector	Silicon PIN detector, peltier-cooled
Signal processor	Fast pulse processor
Video microscope	High-resolution color CCD video camera. Top view on measurement spot along x-ray beam axis. Precise cross hair, spot illumination, true size spot indicator
Video zoom factor	34x .. 184x (optical: 34x .. 46x; digital 1x, 2x, 3x, 4x)

Technical Data

Line voltage	AC 115 V or AC 230 V 50 Hz / 60 Hz
Power consumption	max. 120 W (XAN 120 without evaluation PC)
Dimensions	380 x 570 x 340 [mm]
Weight	≤ 42 kg
Chamber	318 x 509 x 29 .. 86 [mm]

Helmut Fischer GmbH Institut für Elektronik und Messtechnik, 71069 Sindelfingen, **Germany**, Tel. +49 (0) 70 31 / 3 03 - 0, mail@helmut-fischer.de
Fischer Instrumentation (G.B.) Ltd., Lymington/Hampshire SO41 8JD, **England**, Tel. +44 (0) 15 90 68 41 00, mail@fischergb.co.uk
Fischer Technology, Inc., Windsor, CT 06095, **USA**, Tel. +1 860 683 0781, info@fischer-technology.com

Sole Agent for Helmut Fischer GmbH Institut für Elektronik und Messtechnik, Germany:

Helmut Fischer AG, CH-6331 Hünenberg, **Switzerland**, Tel. +41 (0) 41 785 08 00, switzerland@helmutfischer.com

Branch Offices of Helmut Fischer AG, Switzerland:

Fischer Instrumentation Electronique, 78180 Montigny le Bretonneux, **France**, Tel. +33 1 30 58 00 58, france@helmutfischer.com

Helmut Fischer S.R.L., Tecnica di Misura, 20128 Milano, **Italy**, Tel. +39 0 22 55 26 26, italy@helmutfischer.com

Fischer Instruments, S.A., 08018 Barcelona, **Spain**, Tel. +34 9 33 09 79 16, spain@helmutfischer.com

Helmut Fischer Meettechnik B.V., 5627 GB Eindhoven, **The Netherlands**, Tel. +31 (0)40 248 22 55, netherlands@helmutfischer.com

Fischer Instruments K.K., Saitama-ken 340-0012, **Japan**, Tel. +81 4 89 29 34 55, japan@helmutfischer.com

Fischer Instrumentation (Far East) Ltd., Kwai Chung, N.T., **Hong Kong**, Tel. +852 24 20 11 00, hongkong@helmutfischer.com

Fischer Instrumentation (S) Pte Ltd., Singapore 118529, **Singapore**, Tel. +65 62 76 67 76, singapore@helmutfischer.com

Nantong Fischer Instrumentation Ltd., Shanghai 200333, **P.R. China**, Tel. +86 21 32 51 31 31, china@helmutfischer.com

Fischer Measurement Technologies (India) Pvt. Ltd., Pune 411036, **India**, Tel. +91 20 26 82 20 65, india@helmutfischer.com

www.helmut-fischer.com

