



Innovator In Spectroscopy Equipment

EDXRF2219



**ENERGY DISPERSIVE X-
RAY FLUORESCENCE
MODEL EDXRF2219**

www.cfp.co.ir



CATALOG



SPECTROMETER



FREE DOWNLOAD

Description

The EDXRF2219 from Control Farayand Pasargad (CFP) is a fast, cost-effective and non-destructive device tuned for accurate analysis of jewelry, coins and precious metals especially for gold and gold alloys. Based on x-ray assay technique, EDXRF2219 determines the accurate percentage of gold (in Karat) available in the sample. The device is capable of determining the elemental

composition of all gold alloys, platinum group metals and silver alloys. Furthermore, the instrument is well suited for determining gold coating on the other materials. The measuring process is fully non-destructive and leave the chemical and physical properties of sample intact. EDXRF2219 is specially designed to meet all requirements of the analysis systems used in jewelry retail store and jewelry manufactory.



Specifications

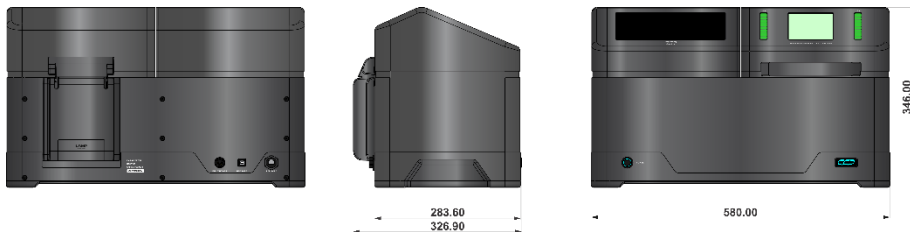
Unit: EDXRF2219			
Type	ENERGY DISPERSIVE X-RAY FLUORESCENCE		
Version	Ti to U	Cl to U	Mg to U
Input(s)			
Power connector	DC adaptor, max.41W		
Output(s)			
USB port	USB port for communication and services		
LAN port	LAN port for communication		
Control(s)			
Power key	Press the power key to turn ON or OFF device		
Touch screen display	Setting configure via touch screen display (set and read all data)		
Indicator(s)			
Power	Power on indicator		
Alarm indicator	Easily visible super bright LED indicator (red: X-ray ON, green: X-ray OFF)		
Logo	CFP logo indicator		
Display			
Type	Full color IPS LCD		
Size	10.1", 1280 × 800 pixels		
Performance			
Vacuum	No	No	Air
Measuring time	Typically 10 - 120sec		
Energy resolution	FWHM < 200eV @ Fe, 5.89 keV		
Repeatability	< 1% for gold, measurement time 60 sec		
Accuracy	0.5 percent for gold		
Detector			
X-ray	Si-PIN		
Window	25μm thick dura beryllium		
Source			
Tube type	Metal - ceramic		
Cathode type	Ag, W, Rh		
Cathode select	general application, cadmium and RoHS analysis ,light element analysis		
Focal spot size	~ 0.5 mm for zero measurement distance		
Aperture (Collimator)	Fixed with 1mm diameter		
Sample Alignment			
Sample positioning	Manually		
Camera	High resolution CCD color camera		
Zoom factor	Digital 1x, 2x, 4x		
Sample Stage			
Design type	Fixed stage		
Maximum sample weight	5 kg		
Maximum sample placement area	310 × 320mm²		
Data Acquisition and Analysis			
OS	Windows 7 or higher versions		
Software	EDXRF2219 (SOFTWARE)		
Measurement/Spectrum			
High voltage	0 - 50kV		
Beam current	0 – 100μA		
Measurement spot diameter	2mm		

Application

- Silver analysis
- On-line inspection
- Academic research
- Platinum group analysis
- Laboratory and quality control
- Coating thickness applications
- Elemental gold and gold alloy analysis



Electrical, Mechanical and Environmental

Unit: EDXRF2219	
Type	ENERGY DISPERSIVE X-RAY FLUORESCENCE
Version	Version1 (standard)
Electrical	
Power required	AC - 220V - 50Hz
Physical	
Dimensions	350mm x 400mm x 285mm (L x W x H)
Weight	30kg
Mechanical	 Unit: mm
	EDXRF2219
Environmental	

Storage temperature	0°C to 50°C
Operating temperature	10°C to 45°C

Software and user interface

Device GUI

The EDXRF2219 can be used standalone using the companion 10.1" touch screen display.

PC software

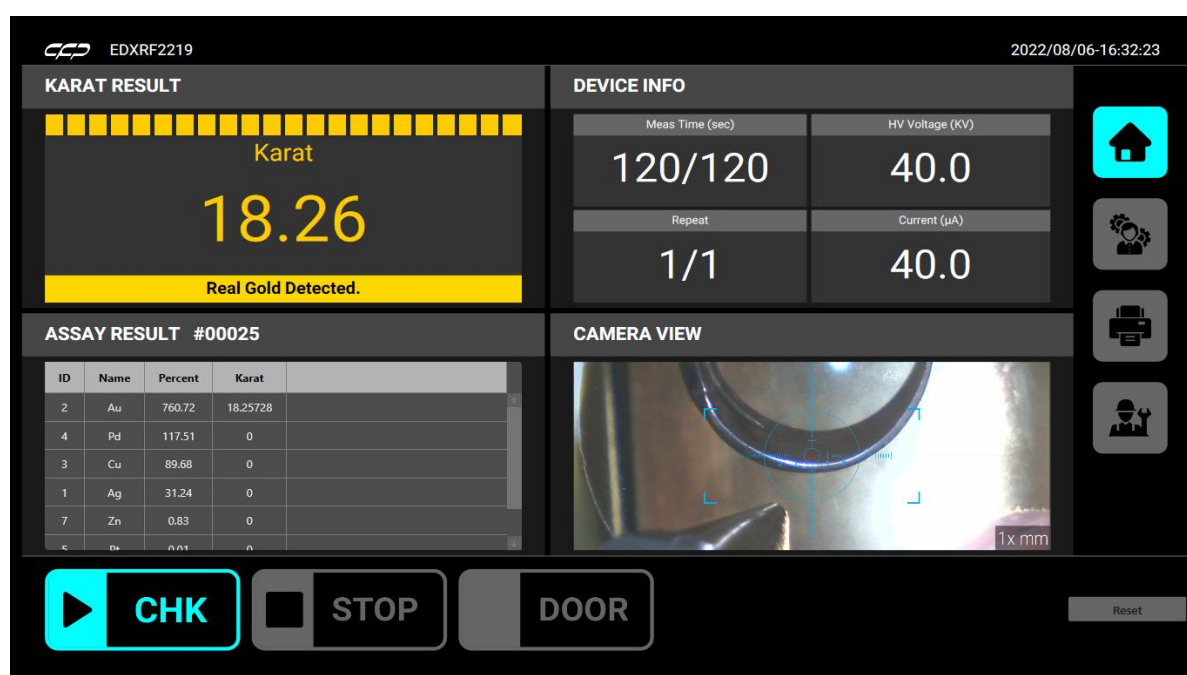
EDXRF2219 (SOFTWARE)

Input /Output (using supplied EDXRF2219 software)

USB

Data Output formats

CSV, MCA



Main window

Ordering info

EDXRF2219 version 1 (Ti to U):

Part #	Image	Description
EDXRF2219 main		Karat meter main part that includes source (Silver cathode with metal-ceramic tube), Si-PIN detector, high voltage unit and multi-channel analyzer. Analysis Ti to U.
ACCE2219001		User guide CD (1 Pack)
ACCE2219002		Wooden case with inserted foam
ACCE2219003*		Guaranty (one year)
ACCE2219012		Power cable

EDXRF2219 version 2 (Cl to U):

Part #	Image	Description
EDXRF2219 main		Karat meter main part that includes source (Silver cathode with metal-ceramic tube), Si-PIN detector, high voltage unit and multi-channel analyzer. Analysis Cl to U.
ACCE2219001		User guide CD (1 Pack)
ACCE2219002		Wooden case with inserted foam

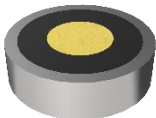
ACCE2219003*		Guaranty (one year)
ACCE2219012		Power cable

EDXRF2219 version 3 (Mg to U):

Part #	Image	Description
EDXRF2219 main		Karat meter main part that includes source (Silver cathode with metal-ceramic tube), Si-PIN detector, high voltage unit and multi-channel analyzer. Analysis Mg to U.
ACCE2219001		User guide CD (1 Pack)
ACCE2219002		Wooden case with inserted foam
ACCE2219003*		Guaranty (one year)
ACCE2219012		Power cable

* We fully support our products. We guarantee your satisfaction in the quality of our product by providing a complete one-year warranty covering any defect of workmanship, material and design. If our product do not work correctly, we will provide complete repair and/or replacement services. For guaranty conditions, please refer to device manual document (EDXRF2219- Manual)

Optional accessories and services

Part #	Image	Description
ACCE2918004		Installation
ACCE2918005		Training
ACCE2918006**		Re-Calibration (Interval) services. 1year factory maintenance suggested, not required.
ACCE2918013		Calibration check reference coin
ACCE2918010		USB cable for connecting EDXRF2219 to the PC
ACCE2918011		Printer cable

** The proper maintenance & calibration of your instruments is critical to ensure correct performance & accuracy. For Re-calibration (Intervals) services, please call CFP company (021- 57416072)





Innovator in Spectroscopy Equipment



Control Farayand Pasargad, No1, 33 salon, 48rd St, Ehsani rad St,
Engelab St, Ahmadabad Mostoufi Rd, Azadegan Highway, P.O Box
3313193714, Tehran 3313193685, I.R. Iran



+98 (21) 57 41 60 73

w w w . c f p . c o . i r