



OCEAN King India

Home of Quality Products

BARACUDA EXF7900D



Product name and model introduction

Product name and model: (Ocean) energy dispersive x-ray fluorescence spectrometer---BARACUDA EXF7900D

Manufacture: Ocean

Real picture of the BARACUDA

Recyclers *

Refiners * QC

Department * Cash-for-gold

XRF for Non-destructive precious metals analysis

Contact Address :

Ocean King International
6213/B, St. No.-4, Hargobind Nagar,
Ludhiana, India 141008.

Sales and Support:

Tel : +91-161-5049059, 2222471

Email: info@oceankingindia.com, amitsood24@gmail.com

website: www.oceankingindia.com, www.goldtester.co



OCEAN King India

Home of Quality Products

OCEAN BARACUDA EXF7900D

1.4 Working environment

Temperature: 15-30°C Humidity: 30%~70% Power supply: AC 220V ±10%

1.5 Features and advantages

Specifications Composition range 1ppm to 100 % Repeatability RSD≤0.05% Au≥90% Sample type Solid, powders, liquid Elements of interests Au, Ag, Pt, Pd, Ru, Rh, W, Os, Ir, etc. Basic metals Cr, Mn, Fe, Co, Ni, Cu, Zn, Cd, Sn, Pb, etc. Tube voltage 5KV ~ 50KV HV unit 0 ~ 50KV Spellman(USA) Tube current 0μA ~ 1000μA HD camera OCEAN-DMCP Sample chamber Dimensions 310*280*60 (mm) Test time 30sec ~ 100sec Software OCEAN-FP Instrument dimensions 380*372*362 (mm) Instrument weight 31Kg

2. Hardware configurations

2.1 Peltier cooling Si-Pin semiconductor detector.

2.1.1 The latest Si-pin detector with the resolution 149±5ev. 2.1.2 The amplifier: The collected signal by detector are amplified

2.2 The x-ray source

2.2.1 X-ray tube with filament current limit: 1mA 2.2.2. The 50 watts x-ray tube is a consumable part

2.3 High voltage device

2.3.1 Voltage output limit: 50kV 2.3.2 The minimum controllable adjustment is 5kV. 2.3.3 Overvoltage protection function

2.4 Multi channel analyzer (MCA)

2.4.1 The collected analog signal is converted to digital signal. 2.4.2 Maximum channels: 4096

2.4.3 Equipped with SES processor

2.5 Optical path filter module

2.5.1 It is designed to decrease the interference and lost of the x-ray optical path. 2.5.2 Integrated collimator and filter module.

2.6 Auto load of the calibration curves

Calibration curves can be automatic chose by the program based on the sample type.

Introduction

Qualitative and quantitative analysis for Jewelry/ Karat Identification The energy dispersive X-ray fluorescence spectrometer (EDXRF) technique is one of the most versatile and popular analytical methods for the elemental analysis of Precious metals and karat identification. Elements from Sodium to Uranium can be analyzed in a short period of time with high accuracy, precision and reliability.

The virtue of its simplicity, non-destructive, speed, affordability and reliability are clearly advantageous over traditional wet chemistry (fire assay for example) and other spectroscopic methods. Modern technological developments have also helped to include EDXRF into standard test methods for Jewelry application. The BARACUDA EXF7900Dis mature enough to establish clear qualitative and quantitative characterization of the gold value as well as Karat grade. The optimized excellent performance of BARACUDA EXF7900

Densures it is the best solution for your analytical requirements weather you buy gold, sell or

Contact Address :

Ocean King International
6213/B, St. No.-4, Hargobind Nagar,
Ludhiana, India 141008.

Sales and Support:

Tel : +91-161-5049059, 2222471

Email: info@oceankingindia.com, amitsood24@gmail.com

website: www.oceankingindia.com, www.goldtester.co



OCEAN King India

Home of Quality Products

produce jewelry, fabricate metal or recycle scrap metal

Analysis, user-friendly interface Easy to analyze composition and karat results with one push of a button, accurate chemistry and karat results within seconds Designed to be compact,

Taking up minimum desktop space. An attractive design suitable for the showroom floor. Quick certificate results with PC software. Interior lighting and camera allows continuous sample viewing for utmost customer security

Easy access to the test results by uploading and downloading to the network X-ray safe protection secures the whole operation process

Performance index :

1. Instrumentation: EDX7900D
2. Measurement parameter:

Tube voltage	Tube current	Filter	Collimator	Test time
40kV	600uA	Al	1mm	100s

1. Maximum layers: 5
2. Detection limit of coating thickness : 0.01µm
3. Precision: from top layer to bottom layer

1st layer ±5%
 2ed layer ±10%
 3rd layer ±20

1. Plastic base material coated with metal can also be measured.
2. The penetration depth of EDXRF with 50 watts x-ray tube.

Penetration depth		
Coating	Base	Thickness (µm)
Al	Cu	0-100.0
Cd	Fe	0-60.0
Cu	Al	0-30.0
Cu	Fe	0-30.0
Cu	Plastic	0-30.0
Au	Ceramic	0-8.0
Au	Cu/Ni	0-8.0
Pb	Cu/Ni	0-15.0
Ni	Al	0-20.0
Ni	Ceramic	0-20.0

Contact Address :

Ocean King International
 6213/B, St. No.-4, Hargobind Nagar,
 Ludhiana, India 141008.

Sales and Support:

Tel : +91-161-5049059, 2222471
 Email: info@oceankingindia.com, amitsood24@gmail.com
 website: www.oceankingindia.com, www.goldtester.co



OCEAN King India

Home of Quality Products

Ni	Cu	0-20.0
Ni	Fe	0-20.0
Pd	Ni	0-40.0
Pd-Ni	Ni	0-20.0
Pt	Ti	0-8.0
Rh	Cu/Ni	0-50.0
Ag	Cu/Ni	0-50.0
Sn	Al	0-60.0
Sn	Cu/Ni	0-60.0
Sn-Pb	Cu/Ni	0-25.0
Zn	Fe	0-40.0

standard samples

Pure silver sample.

5. Warranty and after-sale service

On-site installation and training is available.

One year warranty is offered after the first installation.

The lifetime service is provided to all our products.

Free software upgrade can be downloaded from our website.

Contact Address :

Ocean King International
6213/B, St. No.-4, Hargobind Nagar,
Ludhiana, India 141008.

Sales and Support:

Tel : +91-161-5049059, 2222471

Email: info@oceankingindia.com, amitsood24@gmail.com
website: www.oceankingindia.com, www.goldtester.co