



ULTRA-LITE MAGNUM®

Applications

Materials Characterization and Identification (XRF)

- Metal and alloy sorting
- Mining and geology
- Environmental analysis
- Lead in paint
- Regulatory (RoHS/WEEE)
- Art and archeometry
- R&D

X-ray Imaging

- Medical R&D, small animal imaging
- Security
- Radiographic inspection

The Moxtek® ULTRA-LITE MAGNUM® (50kV 4W) is our smallest and lightest x-ray tube source available and high voltage power supply on the market designed specifically for the handheld XRF instruments. The performance, reliability, and low cost of ownership make it a perfect choice for a state-of-the-art handheld instrument.

Features	Benefits
Small, compact design	Close coupling of detector/source
Lightweight	Reduces weight of the XRF instrument
Stable output across all high voltage settings	High precision of measurements, low detection limits
Rh target and high emission current at low kV's	Improved light element detection limits and precision
High x-ray output	Short sampling time
Small spot size	Small sampling area on the sample

Mechanical Specifications

Tube type: Metal-ceramic

Operating Temperature: -10° to +60° C

Storage Temperature: -30° to +85° C

Cooling: Conduction

Weight: 250g (typical)

Available Targets: W, Rh, Ag, Pd, Mo

X-ray Tube Characteristics

HV Polarity: Grounded anode

High Voltage: -4 to -50kV

Beam Current: 5 to 200µA

Total Power: 4 watts

Focal Spot: 500 to 800µm FWHM (typical)

Window: Beryllium

Input Power: 6-18 VDC

RoHS Compliant: RoHS3

Standard Warranty: 1 year or 2000 operating hours

