



60kV 12W Tube

Applications

X-ray Imaging

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

Materials Characterization and Identification (XRF and XRD)

- XRF
 - Elemental composition
- XRD
 - Powder diffraction
 - Residual stress

The Moxtek® MAGPRO 60kV 12W x-ray source is designed for the portable and benchtop XRF and XRD instruments. Small spot size makes it a good choice for x-ray imaging applications.

Features	Benefits
Small, compact design	Close coupling of detector/ source
Lightweight	Portable, easy to integrate
Stable output	High precision of measurements, low detection limits
Rh target and high emission current	Improved light element analysis
W target and 60kV capabilities	Improved heavy element analysis
High x-ray output	Short sampling time
Small spot size	Possible coupling with optics, good image resolution

Specifications

Tube type: Metal-ceramic

Operating Temperature°: -10° to +65° C

Storage Temperature°: -40° to +80° C

Cooling: Forced air

Weight: ~700g

Available Targets: W, Rh, Ag, Cr, Cu, Mo

HV Polarity: Grounded anode

High Voltage Potential: 4 to 60kV

Beam Current: 5 to 1000µA

Maximum Power: 12 watts

Focal spot size: Typical ~400µm

Window: Beryllium

Input Power: 24 VDC

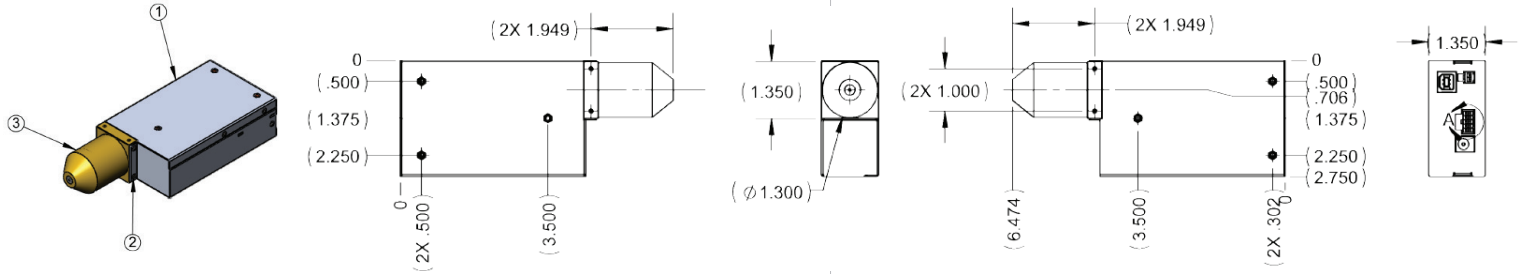
Standard Warranty: One year

Please contact Moxtek for price and delivery information

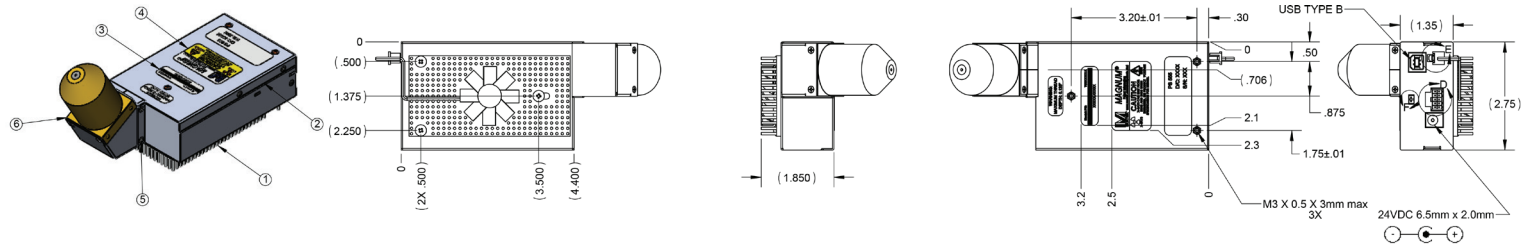


12W MAGPRO Mechanical Drawings

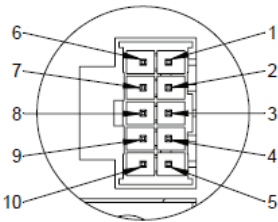
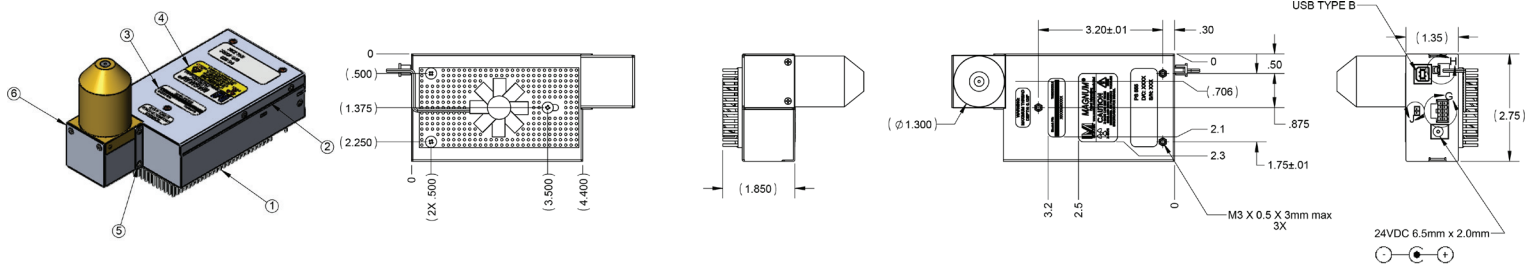
Straight



60°



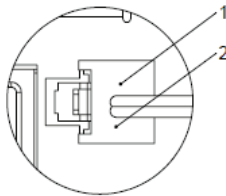
90°



DETAIL A
SCALE 2 : 1

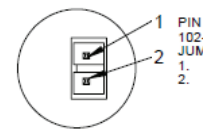
PIN ASSIGNMENTS FOR SAMTEC
IPL-105-01-L-D-RA-K 10 PIN CONNECTOR:

1. HV ENABLE
2. FILAMENT READY
3. HV CONTROL
4. HV MONITOR
5. CURRENT CONTROL
6. CURRENT MONITOR
7. GROUND
8. GROUND
9. FILAMENT ENABLE
10. INPUT VOLTAGE



PIN ASSIGNMENTS FOR
2 PIN ACCESSORY FAN
POWER CONNECTOR:

1. +12 V POWER (RED)
2. GROUND (BLK)



PIN ASSIGNMENTS FOR SAMTEC TSM-
102-01-L-SH 2 PIN DIGITAL INTERLOCK
JUMPER CONNECTOR:

1. INTERLOCK SEND(NC)
2. INTERLOCK RECEIVE(GND)

Pin assignments are the same for each configuration.



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