

Atomlab™ 960 Thyroid Uptake System



- ◆ Unique Positioning LED for accurate thyroid centering- A first in Thyroid Uptake System design
- ◆ Distance measurement rod with incremental markings (detector-to-patient)
- ◆ All-in-one flat panel PC with solid state hard drive running Windows® Operating System
- ◆ Count rate: 150,000 cps
- ◆ Extremely intuitive menus follow conventionally established nuclear medicine procedures
- ◆ Innovative multi-axis and height adjustable arm for easy patient positioning of seated or supine patients
- ◆ Calibration/Constancy fixture for simple and automated calibration
- ◆ Convenient storage locations for Neck Phantom and Calibration/Constancy Fixture
- ◆ 1024-channel/multi-channel analyzer
- ◆ Software programs for Thyroid Uptake, Wipe Test, Quality Assurance, Manual MCA and Bioassay
- ◆ Smart cable management
- ◆ Optional: DICOM Interface

*Web Training
available at NO charge
call for details*

Specifications:

Medical Spectrometer Hardware:

All-In-One Flat Panel PC:

15.6" Color Touchscreen, Windows® Operating System, Solid State Hard Drive, Ethernet, USB, Video/Audio Out, Built-In Speakers and Color Printer

Multi-Channel Analyzer:

Channels: 1024
Spectral Resolution: FWHM 8%
Count Rate: (Maximum) 150,000 cps for Tc-99m
Count Rate Stability: 99%
Gross Count Rate Linearity: Within 5% up to 150,000 cps
Pulse Height Linearity: Within 2% (independent of detector)
Detector High Voltage Adjustment: Automatic adjustment for both probe and well; uses 10 µCi Cs-137 as the calibration source
Power: Low voltage transformer with hospital grade power cord & plug
Line Voltage: 120 VAC, 60 Hz, 2 AMP circuit breaker
230 VAC, 50 Hz, 1 AMP circuit breaker

Medical Spectrometer Software:

Radionuclides:

Factory Programmed: Au-198, Ba-133, Ba-133 (well), Co-57, Co-57(w), Co-58(w), Co-60, Cr-51, Cs-137, Fe-59, F-18, Ga-67, Hg-197, I-123, I-125, I-131, In-111, Ir-192, K-42, Lu-177, Na-24, Ra-223, Pd-103, Se-75, Sr-85, Tc-99m, Tc-99m(w), Tc-99m/Tl-201, Tl-201, Yb-169, wide window

User Set: Unlimited user defined isotopes, setting ROI, half life, name, efficiency and range

Other Hardware:

Probe: 2" x 2" NaI (TI) integral line scintillation detector

Uptake Stand:

Dimensions:
Arm down and retracted: 34" L x 26" W x 55" H
Maximum Height: 60"
Maximum Length: Arm Extended: 61"
Collimated Shield: Flat field collimator meeting IAEA specs
Positioning: Distance bar and positioning light
Arm: Counterbalanced, two section arm, moves 24.5" vertically and extends 31" horizontally from stand's vertical column
Casters: 4" Total locking
Weight: 280 lb
Combined weight with Well Counter: 330 lb
Power: Low voltage transformer with hospital grade power cord and plug
Line Voltage: 120 VAC, 60 Hz, 2 AMP circuit breaker
230 VAC, 50 Hz, 1 AMP circuit breaker

Warranty:

Two year - US Only

Optional Well Counter (187-602):

Detector: 2" x 2" NaI(Tl) integral line scintillation detector with a .75" diameter x 1.44" deep well

Lead Shielding:

1" thick
Cover: .125" thick
Weight: 50 lb

Optional Lead Shield for Well Counter (187-603):

Lead Shielding: 1" thick
Weight: 69 lb
Certification: ETL Listed to AAMI Std. ES 60601-1 3rd Edition and CAN/CSA C22.2 No. 60601-1 and IEC 60601-1 and CE marked



187-600

Atomlab 960 Thyroid Uptake System, 120 VAC, Mobile, PC Includes: All-In-One Flat Panel PC, 15.6" Color Touchscreen, Windows Operating System, Solid State Hard Drive, Ethernet, USB, Video/Audio Out, Built-In Speakers, Color Printer, 1024 Channel Multi-Channel Analyzer, 2" x 2" Tube Assembly, and Mobile Support Stand

Optional Accessories:

187-602

Well Counter, 1" lead (includes cover and calibration fixture)

187-603

Lead Shield for Well Counter, 1" lead

006-350

Wipe Test Kits, 1.75" dia, 500/pkg

043-365

Thyroid Uptake Neck Phantom

063-139

Cs-137 0.1 µCi Rod Source, Calibrated

101-103

Cs-137 10 µCi Check Source, Uncalibrated 1" dia x .25" thick

187-146

Atomlab 960 DICOM Software