

Captus® 3000 Portable Thyroid Uptake System

The new portable Captus® 3000 provides significantly improved portability and maneuverability. This lightweight module is easy to move and position. The stand can also be quickly disassembled into four lightweight sections for easy handling and transport to another site. It can be quickly reassembled in only a few minutes. The portable system provides enhanced range of motion for patients on a gurney, chair or standing.

The portable system includes all of the well known Captus® 3000 software modules.

The thyroid uptake module provides flexible protocols, including decay corrected dose, standard capsule measurement, aliquot correction and multiple capsule factor. Reports include detailed count information and calculated percent uptake. Results which exceed predefined normal ranges will be flagged.

Bioassay module stores individual efficiencies for bioassay geometry, multiple measurements for each staff member and flags values above preset trigger levels.

Fully automated quality assurance program using Cs-137 and Eu-152 rod sources provided with system. QA includes full system calibration, Zero offset, energy resolution, energy linearity, efficiency calculations, constancy, chi-squared and MDA functions.

1024 channel user friendly Multi-Channel Analyzer provides automatic and manual ROI selection, ability to use stored auto-calibration setup, or manually adjust zero, gain and voltage. Spectra can be saved and retrieved for comparison. An isotope library with data for over 90 isotopes is included. All MCA adjustments are software controlled.

Timed Activity Analysis module enables automatic timed measurements with decay corrected results in either graphical or numeric display.

Wipe test functions include menu driven format and automatic isotope identification feature. Wipes may be grouped for convenience. Values above preset trigger levels will be flagged.

Lab test features include I-125 and Cr-51 Blood Volume protocols. Red Blood Cell Survival for Cr-51 results are decay corrected with report options for graphical or numeric representation.

System also provides data storage and retrieval, archive and export features. Both summary and individual detail reports are available for each module.

Optional Dicom interface pulls patient information from information systems network and sends reports back to PACS.



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Hardware Features

- 2 inch diameter flat NaI detector
- Collimator designed to meet ANSI N44.3
- Laptop computer
- External MCA card with USB interface
- Protection isolation transformer
- Unique tip proof design
- Articulating spring arm, with 3 adjustable joints
- Range of motion for gurney, chair or standing positions
- Portable stand for easy transport
- Disassembles into four lightweight sections
- Two locking wheels
- Can be assembled in less than 10 minutes
- Includes Cs-137 and Eu-152 reference sources
- Meets all applicable safety standards

Patient Data Screen

Count Patient Screen

Multichannel Analyzer Board:

- 1024 Channels
- Software Controlled
- Maximum count rate, 100,000 cps
- Differential Linearity <2% over top 98% of channels
- Integral Linearity <1% over top 98% of channels
- Automatic and manual ROIs
- Presets for live time, real time and total counts
- Automatic peak finding algorithm
- Automatic and manual calibration features
- Timed activity analysis features

Well Counter Option:

- 2 inch diameter drilled well NaI detector (Well is 1.5 in. deep by 0.7 in. dia)
- 1 inch lead shielding, including top cap
- Brass liner to absorb scatter
- Weight 70 lbs (32 kg)
- Approx. Shipping Dimensions and Weights, Not Assembled:
 - Box 1: 15" H x 10" W x 10" D (38 x 25 x 25 cm), Weight: 50 lb. (23 kg)
 - Box 2: 15" H x 10" W x 10" D (38 x 25 x 25 cm), Weight: 27 lb. (12 kg)

Dimensions:

- Height: 47" H x 30" W x 40" D (119 cm x 76 cm x 102 cm)
- Weight 120 lb. (55 kg) (without well counter)
- Weight 190 lb. (87 kg) with well counter
- Shipping Dimensions, Assembled: 56" H x 33" W x 47" D (142 x 84 119 cm)
- Approx. Shipping Weight 260 lb. (117 kg)
- Approx. Shipping Dimensions and Weights, Not Assembled:
 - Box 1 (Collimator & Vertical Tube) : 30" H x 10" W x 10" D (76 x 25 x 25 cm), Weight: 45 lb. (21 kg)
 - Box 2 (Base): 32" H x 16" W x 30" D (81 x 41 x 76 cm), Weight: 55 lb. (25 kg)
 - Box 3 (Electronics, Handles, Spring Arms): 45" H x 20" W x 10" D (114 x 51 x 25 cm), Weight: 50 lb. (23 kg)
 - Box 4 (Lead Weights): 6 1/4" H x 6 1/4" W x 11" D (16 x 16 x 28 cm), Weight: 43 lb. (20 kg)

Captus® 3000 Portable System Stand, Laptop & Printer..... 5430-2130
 Well Counter 5430-2132

Optional Accessories

ALERT Software Upgrade..... 0960-0177
 Custom Protocol..... 0960-0152
 Cap-DICOM™ Software..... 5450-0003
 Wipe Samples 5420-0086
 Neck Phantom 5230-0038
 Rod Source Holder 7315-1850