With the Captus® 3000 Thyroid Uptake System, performing thyroid uptake measurements have never been easier.

The Captus® 3000 comes equipped with a “Quick Start-Up” feature that walks the user through all program setup functions. The feature will have you performing patient studies in no time, and also serves as a training tool for additional users. The software program provides fast, dedicated modules for Thyroid Uptake, Wipe Tests, Schilling Test, Blood Volume, RBC Survival and Bio-Assay.

QA is automated with a new Minimum Detectable Activity Function. Constancy, Calibration and Chi Square functions are all easy to perform. System calibration is simple and automatic on the Captus® 3000 with the use of Cs-137 and Eu-152 reference sources. The reference sources are included with the system.

Captus® 3000 Reports:

The Multi-Channel Analyzer is very user friendly. ROI’s can be selected from a convenient menu of isotopes with pre-defined regions, or, the user can define them. Protocols can be defined for real time, live time or acquired counts. Results are reported with full spectrum counts, and counts by region of interest. All results can be saved in the database or exported to a spreadsheet.

In this module, multiple TU protocols can be established utilizing I-123, I-131 or Tc-99m. The protocols can use a standard capsule method or allow the system to perform an automatic decay correction to the administered dose. The system will store detailed patient demographics, physician data and administered dose data. There is no limit to the number of uptakes that can be performed, and the results will be reported with detailed count information and automatic percentage uptake calculations.

- 360° Articulating Spring Arm
- 1024 Multichannel Analyzer Allows Measurements of energies up to 2 MeV, and has Isotope Selection Library with Over 90 Pre-Loaded Isotopes and Adjustable ROI’s
- Software has Thyroid Uptake, Wipe Testing, Bioassay, Schillings, Blood Volume and RBC Survival Functionality Built In
- Wipe Test Module Allows Flexibility of Pre-Defined or User Groupings
- Automated QC Functions Include Energy Calibration, Constancy, X2 and MDA
- Improved Data Storage, Archive and Reporting Functions
- Includes Cs-137 and Eu-152 Reference Standards
- “Quick Start” User Menu

Thyroid Uptake Stand Dimensions
- Height: 69” (175.3 cm)
- Width: 28” (71.1 cm)
- Depth: 31” (78.7 cm)
- Weight: 400 lbs (181.8 kg)
  w/optional well: 470 lbs (213.6 kg)

Isolation Transformer Dimensions
- Height: 5.25” (13.3 cm)
- Width: 6.9” (17.5 cm)
- Depth: 4.31” (10.9 cm)

Printer Dimensions
- Height: 8.2” (20.8 cm)
- Width: 17.5” (44.4 cm)
- Depth: 15.3” (38.9 cm)
- Weight: 14.5 lbs (6.6 kg)
Two Detector Input 2” NaI (TI)
• Flat field collimated to meet ANSI N44.3-1973
• Drilled well with 1” lead shielding and brass liner to absorb back scatter (Optional 2” shield available)

Multichannel Analyzer Interface PC Board
• 1024 Channels
• Maximum count rate: 100,000 cps
• ROIs automatic or manual
• Differential Linearity <2% over the top 98% of channels
• Integral Linearity <1% over the top 98% of channels
• Presets live time, real time, total counts
• Automatic peak finding
• Software controlled lower level discriminator

Thyroid Uptake Section allows entry of patient demographics and procedure protocol. The standard may be measured at each uptake or automatically decay-corrected by the software. The number of uptakes performed on patients is user-defined with the software calculating each uptake and storing that information on the computer hard disk or printing it out in report form.

Wipe Testing is state-of-the-art, and with a simple menu-driven format. The system will perform a peak search on each wipe identifying any contamination by peak and by nuclide. The user decides how many wipe locations are entered; there are no location limits. Trigger levels may be selected on a user-specified limit set to flag wipes above a specific activity level. Wipes may be grouped by location.

The Blood Volume section offers both I-125 and Cr-51 methods with step-by-step guidance through the counting procedure and automatic calculation of the results.

Red Blood Cell Survival is an added feature. In the Cr-51 test, the user is provided with graphic and numeric representation of the red-cell half life. There is automatic correction for nuclide decay during the test period.

Bioassay for Staff allows counting of personnel with only one neck count. Staff records, as with other test results, are maintained and archived on the computer hard drive and/or through printed records.

Diagnostics and Tests:
• Quality Assurance Section includes zero adjust, automatic gain adjust, detector energy calibration resolution, chi-square, constancy, MDA, automatic efficiency calculation and storage

Printed Components

Neck Phantom: Item #5230-0038
Wipe Spot Pads (Box of 500): Item #5420-0086
Test Tubes for Wipe Samples (Qt. 100): Item #5420-0087
Table Top Stand: Item #5430-2038
Well Detector (2” Shield): Item #5230-0069
Wall Mount Stand: Item #5430-3095
Drilled Well Crystal: Item #5430-0081

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