Performing Thyroid Uptake measurements has never been easier. The Captus® 3000 combines a software program with the latest PC technology to create a Thyroid Uptake system that is fast, reliable, and extremely easy to use.

The Captus software has been designed to get you up and running in virtually no time at all. The program contains a "Quick-Start" feature that walks the user through all of the initial setup functions. The "Quick-Start" feature also serves as an excellent teaching tool. The Captus 3000 software is a full service program with Thyroid Uptake, Wipe Testing, Bioassay, Schillings, Blood Volume and RBC Survival functionality built in. The Wipe Test module has a feature that allows the flexibility of predefined or user defined groupings. The entire program has "Fly Over" control bars to allow quick access to whatever function is necessary.

QA is of course completely automated and now includes the ability to measure Minimum Detectable Activity. With the use of the two included reference standards (Cs-137 and Eu-152) the system will move from Calibration to Constancy to Chi-square with limited time and effort.

There is a versatile 1024 Multichannel Analyzer (MCA) module that allows measurements of energies up to 2 MeV. The MCA module also has an isotope selection library with over 70 preloaded isotopes and adjustable ROI’s for easily reproducible counting parameters.

As always, the entire system comes with Capintec’s unsurpassed Quality Construction and Customer Service. From Installation and Training to Applications Support just call 800-631-3826 to speak to a Technical Support Specialist.

**Features**
- Thyroid Uptake
- Bioassay
- Lab Tests
- 1024 Multichannel Analyzer
- Flexible pre-defined or user-defined Wipe Test groupings
- Improved data storage, archive and reporting functions
- "Quick Start" menu
- Automated QC functions, including energy calibration, constancy, X2 and MDA
- 360° Articulating Spring Arm

**Specifications**
- Desktop computer system
- MCA interface PC board: 1024 channels.
- Maximum count rate of 100,000 cps.

**Optional Accessories**
- ALERT Software Upgrade .......................... 0960-0177
- Custom Protocol ........................................ 0960-0152
- Cap-DICOM™ Software ............................ 5450-0003
- Neck Phantom ......................................... 5230-0038
- Rod Source Holder .................................... 7315-1850
- Dicom Interface ........................................ 5450-0003
- Test Tubes for Wipe Samples (Qty. 100) ........ 5420-0087
- Wipe Spot Pads (Box of 500) ....................... 5420-0086
- Wall Mount Stand .................................... 5430-3095
- Table Top Stand ...................................... 5430-2038
- Well Detector (2” Shield) ........................ 5430-0069
- Drilled Well Crystal ................................. 5430-0081
Auto Calibration For Well
The Autocalibrate module provides high voltage, zero offset and automatic gain adjustment; as well as a linearity correction and constancy test. Also included in QA are automatic chi-square and MDA calculation selections. Finally, the program has the ability to automatically perform efficiency calculation and storage for various isotopes.

Thyroid Uptake Report
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. Also, there are user defined normal values that will be compared to the uptake results and "flagged" when the results are out of range.

Wipe History
The highly versatile wipe test module will allow users to establish as many locations as needed and to arrange the locations into either pre-defined or user-defined groupings. The program will perform an automatic peak and isotope identification of wipe results in order to advise the user of the type contamination encountered. There are pre-set trigger levels loaded or the user can define their own trigger levels, either way the results will flag any wipe that exceeds a trigger. Finally, the system will maintain a history of wipe results that can be printed as a whole or in part.
Captus® 3000 Reports

MCA Spectrum Report
The Multi-Channel Analyzer is very user friendly. ROI’s can be selected from a convenient menu of isotopes with predefined 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.

Schilling Test Report
In vitro lab test protocols are incorporated into the software; the user has access to Schilling, RBC Survival and both Cr51 and I125 blood volume studies. The program will integrate all patient demographic, physician and dose data and will perform automatic result calculations. By utilizing the report functionality all of the test data can be documented in a hardcopy format (Schilling is displayed) for physician review or for documentation in the patients file.

Staff Bioassay Report
The bioassay allows for the quick and efficient measurement of the staff thyroid burden for I-123, I-125 or I-131. Measurement results can be reported in CPM’s or uCi’s. In order to meet regulatory requirements a cumulative history can be maintained on the computer and/or printed out for a hardcopy record.
Captus® 3000 Upgrade Package
Improve the versatility and capability of your Captus 500, 600, 1000 or 2000…

Capintec has integrated the latest software and hardware to produce our most accurate and efficient Thyroid Uptake and Well Counting system yet, the Captus 3000. If you currently have a Captus 600 or 2000 it can be easily upgraded to a new Captus 3000 and give you all of the exceptional functionality that goes along with it.

The Captus 3000 has a completely redesigned software package, with Quality Assurance, Thyroid Uptakes, Wipe Testing, Bioassay, Multi-Channel Analyzer and Lab Tests (Schilling, RBC Survival, I125 & Cr51 Blood Volumes). All of the functions are easily accessed through “Flyer Over” control bars (no searching for drop-down menus).

The modifications needed and the cost involved in upgrading an older Captus system will vary. Please contact your Capintec sales representative for the specific requirements to upgrade your system.

Captus Upgrade W/ New MCA Card ................................. 5430-0118
Captus Upgrade W/ out New MCA Card .............................. 5430-0119

Captus® 3000 Custom Protocol

Capintec is very excited to introduce our new Custom Protocol Software for the Captus® 3000. The Custom Protocol works in conjunction with your existing Captus® 3000 to turn any user into a programmer.

As Nuclear Medicine moves forward, new and exciting diagnostic studies will be developed. With the Custom Protocol Software, it is remarkably easy to design and execute your own protocol to keep pace with cutting-edge research.

- Perfect for facilities that need to perform repeated protocols that are not widely adopted
- Gives you the flexibility needed to collect almost any type of data required for the study
- Perform simple or complex data analysis
- Create standard reports
- Available for use with all existing and new Captus® 3000 Systems
- Analysis and report generation is performed in Microsoft Excel
- Integration with Excel allows analysis of data and reporting to be at any level of complexity…it is completely user defined

Custom Protocol............................................................... 0960-0152
Captus® 3000 System Configurations

The Captus 3000 is a highly versatile system that can be configured to meet any Nuclear Medicine department’s needs. The standard configuration comes with the mobile stand, the thyroid uptake probe and the drilled crystal well. Optional systems can be equipped with a thyroid probe only, drilled well only, a full tabletop arrangement with well and probe, a modified tabletop with probe or well, or a tabletop system with a wall mounted thyroid probe.

If one of these variations of the Captus 3000 doesn’t meet your needs let us know and we will work with you in creating the most user-friendly and cost effective system for your department.

Captus® 3000 Table Top System with well

Captus® 3000 Wall Mount

CAPTUS-3000 Thyroid Uptake System Stand .............................. 5430-0076
CAPTUS-3000 Thyroid Uptake System Mobile Stand ................. 5430-2130
CAPTUS-3000 Thyroid Uptake & Well Detector ........................ 5430-0077
CAPTUS-3000 Table Top Thyroid Uptake System ..................... 5430-0103
CAPTUS-3000 Table Top Thyroid Uptake System & Well Detector .......................................................... 5430-0087
CAPTUS-3000 Wall Mounted Thyroid Uptake System ............... 5430-0106
CAPTUS-3000 Wall Mounted Thyroid Uptake System & Well Detector .......................................................... 5430-0107
Cap-DICOM™
PACS Compatibility for the Capintec Captus 3000

With Cap-DICOM™, the Capintec Captus® 3000 gains the advantage of DICOM connectivity.

Cap-DICOM™ adds DICOM modality worklist and DICOM export to the Captus® 3000. This solution allows patient information and demographics to be pulled from the Radiology Information System (RIS) or Hospital Information System (HIS), thus, reducing errors and time associated with the manual input of patient information.

Cap-DICOM™ creates a DICOM secondary capture image from information generated during the uptake procedure. The software exports the DICOM image files to a destination DICOM C-Store provider specified by the user. This destination may be a nuclear medicine workstation or PACS.

Features
- Configurable options integrate nuclear medicine into the RIS and PACS environment
- Ability to query the worklist provider by accession number, patient ID, patient name or date
- Intuitive, easy to read user interface to quickly sort and search the worklist
- Ability to correct patient information before exporting
- Ability to review final reports before exporting to a nuclear medicine workstation or PACS

Specifications
- Integrates the Captus® 3000 into a DICOM Radiology Information system and PACS environment
- Supports multiple vendors for nuclear medicine workstations, RIS and PACS systems
- Increases department efficiency and workflow
- Reduces errors associated with the manual input of patient information
- Increases accuracy of patient information in the PACS environment
- Merged uptake reports with thyroid scans can be displayed as a DICOM image
- Improved physician efficiency in interpretation and clinical review of the combined thyroid uptake report and imaging procedure

Cap-DICOM™ Software ................................................................. 5450-0003
ALERT Software Upgrade

In an emergency involving release of radioactive materials, internal contamination due to inhalation is a potential health concern. When a large population is potentially impacted, a critical public health challenge is to provide an initial field screening to rapidly triage and identify individuals with significant amounts of internal contamination. Capintec is proud to announce a measurement solution to this challenge.

Captus® 3000 Alert Software adds this valuable feature to your Captus® 3000 system, providing dual functionality for both routine and emergency requirements. The system can measure and quantify internal organ burden after a radiologic event and perform all standard thyroid uptake, bioassay and MCA functions routinely required in a Nuclear Medicine department. The Emergency Population Screening module records demographic data, calculates BMI values and selects appropriate body type and generates results in mCi intake.

Measurements may be performed at thyroid, outer thigh and back of right lung, and data are currently available for Co-60, Ir-192, Cs-137 and I-131. The software utilizes conversion factors to calculate mCi-intake values from 1 to 30 days after intake. Results will be flagged when user defined trigger levels are exceeded. Those values which exceed limit are displayed in RED, and those under limit are displayed in GREEN. User can modify default measurement protocols as required to accommodate individual variability.

Collimated and shielded detector provides enhanced sensitivity. Can detect 1 ALI (Annual Limit of Intake) up to 30 days after intake within sixty seconds.

The Custom Protocol program supports customized measurements and calculations by integrating predefined measurement screens with Microsoft Excel® for analysis and report generation. This feature is ideal for post event data analysis.

Software Features

- Stores patient demographic data, measurements and calculated results
- Detects one ALI in 60 seconds or less up to 30 days after intake
- Multiple prompts assure user friendly format
- Automatically calculates Body Mass Index (BMI)
- Selects appropriate conversion factors* based on BMI
- Calculates mCi-intake at elapsed time after event
- Data currently available for following categories:
  - Isotopes: Co60, Ir192, Cs137, and I131
  - Organ sites: thyroid, lung, and outer thigh
- Elapsed time: day 1 through day 30 after intake
- Results flagged in RED if values exceed trigger levels

* This product was developed using physical measurements on Capintec’s Captus 3000 and computer modeling data developed at Georgia Institute of Technology with support and research funded by the Centers for Disease Control and Prevention.

Note: Additional ingestion data pending

ALERT Software Upgrade

ALERT Software Upgrade

ALERT Software Upgrade