

CAPINTEC

ec² SOFTWARE

Nuclear Medicine

and Molecular Imaging Solutions

ISO 13485:2016 CERTIFIED

ISSUE 6.0



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Product availability varies by region and is subject to local regulatory approval and distributor arrangements.
Please contact your local representative to confirm availability in your market.

Built for What's Next in Nuclear Medicine

Nuclear medicine is evolving fast. As therapy expands what's possible alongside diagnostics and regulatory demands intensify, you need solutions that keep pace.

From drug owners and developers, to isotope producers and radiopharmacies, to hospitals and clinics — we've got you covered, end to end.

Powering production. Protecting what matters.






Captus® 4000e






0.14uCi
CAPINTEC
CRC-55tW

CAPINTEC
A MIRION MEDICAL COMPANY

Empowering Better, Safer Diagnosis & Treatment

Every dose you calibrate, every patient you position, every source you handle carries risk — to them and to your team. Capintec solutions are designed around that reality, so you can focus on delivering accurate diagnoses and effective therapies without exposure being an afterthought.

DELIVERY, DETECTION & DIAGNOSIS

Tools to help you dose accurately, image confidently, and move patients through care safely

LAB SUPPLIES

Protection built into your everyday workflow

IMAGING QUALITY ASSURANCE

Confidence in every result

Explore Capintec solutions beginning on page 8.

Scan here for more product details and specifications.

ec² SOFTWARE
A MIRION MEDICAL COMPANY

Powering Precision Care

Radiopharmaceuticals move through many hands before they reach a patient — production, distribution, compounding, dosing, imaging. ec² Software connects those handoffs, so drug owners, Contract Manufacturing Organizations (CMOs), radiopharmacies, and clinical teams all have the data and control they need at their stage of the process.

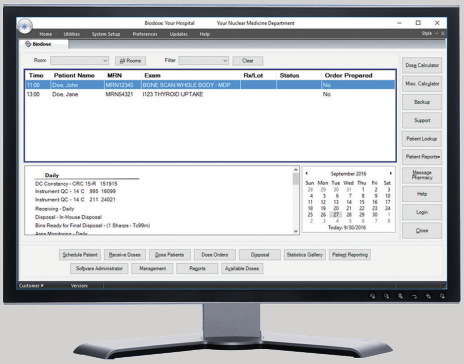
For drug owners or CMOs, that means visibility into where your product is and how it's performing.

For radiopharmacies, that means compliance, quality, and operations under control — without the paperwork burden.

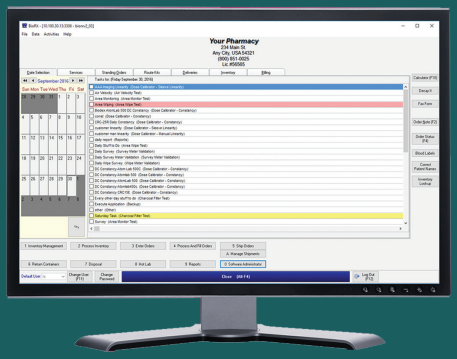
For molecular imaging or nuclear medicine teams, that means the ability to track isotopes, manage your department, and keep systems talking to each other.

Explore ec² solutions beginning on page 42.

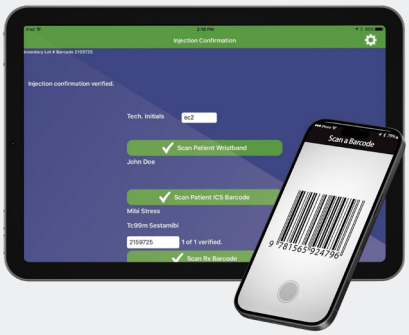
Scan here for more information.








BioPointe
BioPointe
Version: 2.6
by
ec² SOFTWARE
A MIRION MEDICAL COMPANY
ffffffff-e31b-f256-ffff-ffff99d603a9
Expires On:
12/31/2020
Server Message: Device exists.


Injection Confirmation
Injection confirmation verified.
Tech. Initials
ec2
Scan Patient Wristband
John Doe
Scan Patient ICS Barcode
Mibi Stress
Tc99m Sestamibi
2169725
1 of 1 verified.
Scan Rx Barcode
Scan a Barcode

Dose Calibration & Accessories



FOR PET
FOR NUCMED

Dose Calibration

Capintec CRC dose calibrators share a common high-pressure ion chamber platform across the line, from routine hot lab measurement through high-activity isotope production. Every model includes a menu-driven color touch screen, 80+ nuclides with half-lives in memory, and bilingual English/Spanish software. Automated QC, USB/PC communications, and plug-and-play chamber exchange are standard across the family.

CRC®-55tR Dose Calibrator

The speed and accuracy you needed to measure and prepare doses

The CRC-55tR delivers precision dose measurement through a time-tested high-pressure ion chamber capable of up to 6 Ci (222 GBq) Tc-99m/2 Ci (74 GBq) F-18, accessed through a menu-driven color touch screen that is easy to learn. USB/PC communications, flash-drive software upgrades, and plug-and-play chamber capability improve department efficiency. Bilingual English/Spanish software included.

Key Features

- 8 in. color VGA touch screen; 80+ nuclides with half-lives in memory; 28 programmable keys
- Single or optional second plug-and-play chamber; chamber can be placed up to 100 ft from readout unit
- Supports chamber exchange with CRC®-55tPET Dose Calibrator
- Built-in dose calibration, automated QC (constancy and linearity), and self-diagnostics
- Compatible with Nuclear Medicine Management Systems via USB
- Optional printer for full-size NRC records and patient labels for syringes and vials
- USB/PC communications and USB flash drive software upgrades

Specifications

Max Activity	6 Ci (222 GBq) Tc-99m/2 Ci (74 GBq) F-18
Electrometer Accuracy	Better than ±2%
Repeatability	±1% within 24 hrs continuous operation
Console Weight	7.5 lb (3.4 kg)
Chamber Weight	30 lb (13.6 kg)
Power	100–240 VAC, 50/60 Hz

Full specifications and product details available in the CRC-55tR Dose Calibrator data sheet at capintec.com

5130-3234 CRC-55tR Dose Calibrator

Related
5430-0058 Epson Roll Printer
5430-0100 Epson Ticket Printer
7120-1199 CRP-200 Dose Tickets & Labels
5130-2046 CAP-MAC-S® Moly Assay Canister for Syringes
5130-0006 Moly Assay Canister
7300-2059 Chamber Well Insert
7300-2450 Environmental Shield
7300-2058 Vial/Syringe Dipper

Dose Calibration & Accessories



FOR PET
FOR NUCMED

CRC®-55tPET Dose Calibrator

The standard for speed and accuracy in measuring PET isotopes

Combines reduced chamber pressure and increased bias voltage to extend the maximum activity range for high-energy PET isotopes — up to 20 Ci of F-18 and 40 Ci of Tc-99m.

Specifications

Max Activity	20 Ci F-18/40 Ci Tc-99m
Accuracy	Better than ±2%
Chamber Weight	30 lb (13.6 kg)

Full specifications and product details available in the CRC-55tPET Dose Calibrator data sheet at capintec.com

5130-3235 CRC-55tPET Dose Calibrator
5130-2238 CRC-55tPET Multiple Chamber Option

Related
7300-2903 CRC-PS Positron Shield
5430-0058 Epson Roll Printer
5430-0100 Epson Ticket Printer
7120-1199 CRP-200 Dose Tickets & Labels
7300-2059 Chamber Well Insert
7300-2450 Environmental Shield
7300-2058 Vial/Syringe Dipper



FOR PET
FOR NUCMED

CRC®-55tW Dose Calibrator Well Counter

A combination of the CRC®-55tR Dose Calibrator and Well Counter

Combines a high-pressure ion chamber dose calibrator with a NaI drilled-well counter for wipe tests in as little as six seconds at activities as low as 1 nCi.

Specifications

Dose Range	6 Ci Tc-99m/2 Ci F-18
Accuracy	Better than ±2%
Chamber + Well	30 lb + 15.2 lb

Full specifications and product details available in the CRC-55tW Dose Calibrator data sheet at capintec.com

5130-2216 CRC-55tW Dose Calibrator

Related
5420-2072 Auxiliary Shield
5430-0058 Epson Roll Printer
5430-0100 Epson Ticket Printer
7120-1199 CRP-200 Dose Tickets & Labels
7300-2059 Chamber Well Insert
7300-2450 Environmental Shield
7300-2058 Vial/Syringe Dipper



FOR PET
FOR NUCMED

CRC®-77tHR Dose Calibrator

High-activity measurements for isotope production environments

Designed for isotope manufacturing and radiopharmaceutical production, with a maximum activity range of 400 Ci (15 TBq) Tc-99m and 130 Ci (4.8 TBq) F-18. Hardware is radiation-hardened.

Specifications

Max Activity	400 Ci/130 Ci
Console Weight	7.5 lb (3.4 kg)

Full specifications and product details available in the CRC-77tHR Dose Calibrator data sheet at capintec.com

5130-30261 CRC-77tHR Dose Calibrator

Related
7300-2903 Positron Shield
7300-2058 Vial/Syringe Dipper
7300-2059 Chamber Well Insert
5120-2258 Custom Length Vial/Syringe Dipper
5120-2257 Custom Length Chamber Well Insert
5126-2001 Positron Shield Stand

Dose Calibration & Accessories



FOR PET
FOR NUCMED

CRC®-PC Smart Chamber

Network ready with remote connectivity

The CRC-PC Smart Chamber pairs the proven Capintec ionization chamber with a web-based user interface that can be viewed from any networked PC — no dedicated readout unit required. Available in two configurations: the HL model for unit dose hot labs (up to 6 Ci Tc-99m/2 Ci F-18) and the RPh model for radiopharmacies with higher-activity generator and cyclotron yields (up to 72 Ci Tc-99m/20 Ci F-18). Ethernet software upgrades and Power over Ethernet simplify installation.

Key Features

- Remote viewing from any networked PC — direct interface to Nuclear Medicine Management Systems, no readout required
- Two models: HL (hot lab, 6 Ci Tc-99m / 2 Ci F-18) and RPh (pharmacy, 72 Ci Tc-99m / 20 Ci F-18)
- Power over Ethernet (PoE) or USB — minimal cabling
- Automated QC; built-in database for QC, Moly, and user log
- User-adjustable threshold for faster response times
- Plug-and-play chamber; software upgrades via Ethernet
- User manual viewable on PC; small footprint

Specifications

HL Range	6 Ci Tc-99m / 2 Ci F-18
RPh Range	72 Ci Tc-99m / 20 Ci F-18
Electrometer Accuracy	Better than ±2%
Repeatability	±1% within 24 hrs continuous operation
Chamber Weight	39.3 lb (17.8 kg)
Power	100–240 VAC/PoE 48 VDC/USB 5 VDC

Full specifications and product details available in the CRC-PC Smart Chamber data sheet at capintec.com

5130-20253 CRC-PC Smart Chamber HL Chamber
5130-20254 CRC-PC Smart Chamber RPh Chamber

Related
5130-0006 Molly Assay Canister
7300-2450 Environmental Shield
7300-2059 Chamber Well Insert
5130-2046 CAP-MAC-S® Moly Assay Canister for Syringes
7300-2058 Vial/Syringe Dipper

Dose Calibration & Accessories



Moly Assay Canister

Measures Molybdenum Content of Tc-99m

Verifies Mo-99 contamination in Tc-99m vials against NRC/state regulatory limits. Lead canister with wire basket ensures proper vial placement in the ionization chamber. Accommodates all vials up to 30 ml without changing parts or dose calibrator settings. Compatible with all Capintec dose calibrators.

5130-0006 Moly Assay



CAP-MAC-S® Moly Assay Canister for Syringes

Measures Mo-99 in Tc-99m unit doses

Similar to the standard Moly Assay Canister but designed for unit-dose syringes. Verifies Mo-99 contamination in unit doses against NRC/state regulatory limits. Accommodates all syringes up to 30 ml without changing parts or dose calibrator settings.

5130-2046 CAP-MAC-S Moly Assay Canister for Syringes



Vial/Syringe Dipper

Ensures proper placement every time

Designed to hold syringes and vials of all sizes for consistent, accurate placement in the dose calibrator. New shaft material reduces breakage and eliminates attenuation problems with low-energy gamma emissions. Syringe inserts available for tuberculin syringes (1.0 ml).

7300-2058 Vial/Syringe Dipper



Environmental Shield

Nine interlocking lead rings surround chamber

Reduces background radiation more than 10 times. Nine interlocking lead rings with uniform 4 cm wall thickness fit any Capintec CRC dose calibrator with remote ionization chamber. Lead contains 3% antimony for added strength.

Specifications

Weight	310 lb (141 kg)

7300-2450 Environmental Shield



FOR PET

Positron Shield

Provides maximum radiation protection for 511 keV nuclides

Nine sets of 2¼" (6 cm) thick split lead rings provide full shielding of a dose calibrator chamber. Flush-mountable to a work surface or mounted on a table or cabinet.

Specifications

Weight	560 lb (254 kg)

7300-2903 Positron Shield



Chamber Well Insert

Protects chamber well, easily washable with decontaminant

Clear tough plexiglass insert for improved durability and reduced breakage. Dose calibrators are factory-calibrated using this insert — inserts from other suppliers may require new calibration factors for all isotopes.

7300-2059 Chamber Well Insert

Dose Calibration & Accessories



PET Auxiliary Shield

PET auxiliary shield for the CRC-55tW and CAPRAC®-t counter

1.5" thick lead shield on its own supporting base. Fits snugly around the well chamber for a total of 2" shielding. Easily installed or removed as needed.

Specifications

Dimensions	15.625" h × 7.5" w × 6.75" d (39.6 × 19 × 17 cm)
Weight	90 lb (40.8 kg)

5420-2141 PET Auxiliary Shield



Auxiliary Shield

For CAPRAC-t, CRC-55tW counters

Reduces background levels for the CAPRAC Wipe Test/Well Counter NaI detector in high-background locations. Walls and top are 0.5" thick. Hinged top lid with handle for easy removal.

Specifications

Dimensions	9¾" h × 4" w (24.7 × 10.1 cm)
Weight	22 lb (10 kg)

5420-2072 Well Auxiliary Shield



CALICHECK® Linearity Test Kit

Nine interlocking lead rings surround chamber

Reduces background radiation more than 10 times. Nine interlocking lead rings with uniform 4 cm wall thickness fit any Capintec CRC dose calibrator with remote ionization chamber. Lead contains 3% antimony for added strength.

Specifications

Test Time	9¾" h × 4" w (24.7 × 10.1 cm)
Min Activity Simulated	22 lb (10 kg)
Standards	NRC and state compliant

5120-2144 CALICHECK Linearity Kit

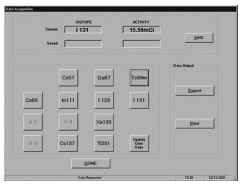


Copper Liner

Eliminates variations in readings when measuring I-123

Eliminates variations in I-123 readings. Receives a standard dipper.

5120-2286 Copper Liner



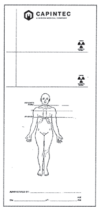
CRC-55t PC Series Communications Software

Fast and easy data acquisition — track, record and store dose calibrator measurements on your PC

Connects CRC-55t (R, W & PET) dose calibrators to a PC via RS-232. Four modes: Acquire and Store, Repetitive Acquisitions (ideal for quarterly linearity tests), Maximum Activity Acquisition, and Excel export. Keeps regulatory compliance records without straining your budget.

0960-0183 PC Communication Software Disc; CRC-55t (R, W & PET)

Dose Calibration & Accessories



CRP-200 Dose Tickets and Labels

Duplicate tickets with peel-off, self-stick labels

One pass through the printer produces two copies per ticket, each with two peel-off labels for patient charts, department log books, and syringe or vial shields. Includes patient diagram for marking injection site, plus fields for name, ID, study, and administrator. Easy-remove adhesive.

7120-1199 CRP & CRC 200 Dose Tickets and Labels 250/pkg
7120-1240 CRP & CRP 200C Dose and Label Tickets 1500/case



Epson Roll Printer

For CAPRAC-t, CRC-55tW, CAPRAC

Graphic output with wipe reports showing peak energy range of nuclides. Black/red ribbon prints wipes exceeding contamination trigger levels in red for fast identification.

CE 0413

5430-0058 Epson Roll Printer

Related
9282-0009 Paper, 12/rolls



Epson Ticket Printer

Allows individual tickets to be positioned easily for printing

Optional printer for CRC dose calibrators and the CAPRAC. Automatically aligns tickets and feeds them out after printing. Compatible with CRP-200 and CRP-700 tickets; standard paper can also be used.

CE

5430-0100 Epson Ticket Printer



Thyroid Uptake Systems



Thyroid Uptake Systems

Reliable thyroid uptake measurement requires more than a detector — it requires a complete system. Capintec's Thyroid Uptake System pairs precision NaI(Tl) detection with automated QA, calibration phantoms, and wipe test supplies for consistent, reproducible results. Optional DICOM connectivity streamlines data flow into hospital RIS/PACS systems, keeping patient records accurate from acquisition through reporting.

Captus® 4000e Thyroid Uptake System

Large touch screen interface, fully integrated DICOM

The Captus 4000e is a comprehensive Nuclear Medicine Measurement System with software modules for thyroid uptake, bioassay, wipe tests, automated QA, and isotope library — all accessed through a large 20" color touch screen on an ergonomically designed mobile stand. A fully integrated optional DICOM interface communicates directly with hospital/radiology information systems for streamlined patient data transfer. Custom protocol is included as standard.

Key Features

- 20" all-in-one touch screen computer (Windows 10); fully automated QA including energy calibration, Chi-square, constancy, and MDA
- Optional DICOM interface for patient data, wipe tests, and QC reports — supports multiple RIS/PACS vendors
- Thyroid uptake (4 protocols, capsule and liquid), wipe tests, bioassay (I-123, I-125, I-131), and custom protocol included
- 1024-channel MCA with automated and manual calibration; preset and user-defined ROI
- Ergonomic articulating arm (34" vertical travel, 220° rotation); four heavy-duty locking swivel casters
- Medical-grade Corian countertop with neck phantom storage and QA source holder
- Reports with full spectrum graphics, saved and printable as PDF

Specifications

Uptake Detector	2.0" dia. NaI(Tl) — flat field collimator (ANSI N44.3, IAEA)
Max Count Rate	200,000 cps at 5%
System Weight	340 lb (154 kg) uptake 410 lb (186 kg) with 1" well shield
Storage Dimensions	56" h × 28" w × 32" d (142 × 71 × 81 cm)
Power	120 VAC 60 Hz 2.6A/230 VAC 50 Hz 1.1A

Full specifications and product details available in the Captus 4000e Thyroid Uptake System data sheet at capintec.com

5430-30151 Captus 4000e Thyroid Uptake System
5430-30152 Captus 4000e Thyroid Uptake System with Well
5430-30154 Captus 4000e Thyroid Uptake and Well Counting System with 2" Well Shielding
5430-00007 Captus 4000e DICOM Interface

Related
5230-0038 Neck Phantom
5420-2164 Well Detector 2" Shield

Thyroid Uptake Systems



Wipe Spot Pads

Soft, highly absorbent cotton pads

Ultra-absorbent cotton wipe pads with card backing for recording location, date, time, activity, and user initials. Adhesive backing allows folding and insertion into a counting test tube. Usable wet or dry. Packed 500 to a box.

006-350 Wipe Test Kits, 1.75" dia., 500/pkg



Captus Neck Phantom

Designed to represent a patient's neck

Clear Lucite phantom with two-part insert for bottle/vial or capsule counting. Etched alignment markings for thyroid probe placement. Positions vertically or horizontally. Meets all requirements for counting a thyroid uptake standard source.

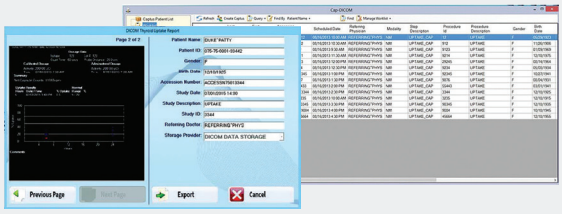
5230-0038 Captus Neck Phantom



Counting Test Tubes

Boxed and oriented in one direction for ease of use. Re-closable box minimizes scratches during storage. Box contains 250 tubes (L: 2.95", OD: 0.47", ID: 0.39").

0670-0016 Counting Tubes, 250/box



Cap-DICOM™ Software for the Captus 4000e

Gain the advantage of DICOM connectivity

Cap-DICOM adds DICOM Modality Worklist (MWL) and DICOM export to the Captus 4000e. Patient information and demographics are pulled directly from the RIS or HIS, reducing manual entry errors and improving Picture Archive and Communication System (PACS) accuracy. Merged uptake reports with thyroid scans can be displayed as a DICOM image for improved physician review. Current Captus 4000e users can upgrade.

Intertek

Key Features

- DICOM Modality Worklist: query by accession number, patient ID, name, or date
- Exports DICOM secondary capture images to a nuclear medicine workstation or PACS
- Supports multiple RIS, PACS, and nuclear medicine workstation vendors
- Correctable patient information before export; final report review before sending
- DICOM Conformance: C-Store User, C-Store Provider, Modality Worklist User

5430-00007 Cap-DICOM® Software – Captus® 4000e

Well Counters & Radio-TLC



Well Counters & Radio-TLC

Fast, accurate wipe testing and sample counting are essential to any radiation safety program. Capintec Well Counters and Radio-TLC solutions combine a NaI drilled-well detector with built-in gamma spectroscopy for rapid, reliable results — meeting all state and NRC wipe test requirements. Supporting shields, liners, and counting tubes round out a complete, ready-to-use counting station.

CAPRAC®-t Wipe Test/Well Counter

Large touch screen interface. Fully integrated DICOM

The CAPRAC-t performs a wipe test in just six seconds (for 1 nCi) using a NaI drilled-well detector, and can serve as a single-well gamma counter in departments without multi-sample changers. A 256-channel pulse-height analyzer enables built-in gamma spectroscopy. User-defined protocols, trigger levels, and counting times are easily set, and results display in cpm, dpm, nCi, cps, dps, or kBq. Automatic background subtraction, self-diagnosis, and lead outer shielding (1.3 cm) are built in.

Key Features

- 6-second wipe test at 1 nCi; NaI drilled-well crystal detector; 256-channel MCA
- User-definable protocols, trigger levels, and counting times; automated well QC (Chi-square and MDA)
- Manual and automatic ROI; direct readouts in cpm, dpm, curies, and becquerels
- Meets all state and NRC wipe test requirements
- Built-in database for test/wipe results and QC; USB and RS-232 communications
- Compatible with nuclear medicine information management systems via USB; optional printer

Specifications

Max Count Rate	100,000 cps
Channels	256
Lead Shielding	0.5" (1.3 cm)
Console Weight	7.5 lb (3.4 kg)
Well Counter Weight	15.2 lb (6.9 kg)
Power	100–240 VAC, 50/60 Hz, 25 W

Full specifications and product details available in the CAPRAC-t Wipe Test/Well Counter data sheet at capintec.com

5430-3136 CAPRAC-t Wipe Test/Well Counter

Related

0975-137R Cs-137 Rod Source
0975-152R Eu-152 Rod Source
7900-0352 Protective Screen Covers
5430-0058 Epson Roll Printer
5420-2141 PET Auxiliary Shield
0670-0016 Test Tubes for Samples (250/package)
9282-0009 Roll Paper
5420-0121 Well Liners (5/package)

Well Counters & Radio-TLC



PET Auxiliary Shield

PET auxiliary shield for the 55tW and CAPRAC-t counter

1.5" thick lead shield on its own supporting base. Fits snugly around the well chamber for a total of 2" shielding. Easily installed or removed as needed.

Specifications

Dimensions	5.625" h × 7.5" w × 6.75" d (39.6 × 19 × 17 cm)
Weight	90 lb (40.8 kg)

5420-2141 PET Auxiliary Shield



CAPRAC Well Liner

Thin plastic liner for use with the CAPRAC-t Wipe Test/Well Counter.

5420-0121 CAPRAC Well Liner, 5/pkg



Counting Test Tubes

Boxed and oriented in one direction for ease of use. Re-closable box minimizes scratches during storage. Box contains 250 tubes (L: 2.95", OD: 0.47", ID: 0.39").

0670-0016 Counting Tubes, 250/box



Explore Product Support Plans

Lung Ventilation Systems & Accessories





Shown with kit# 177-124, sold separately.

Venti-Scan™ IV Radioaerosol Administration System

Self-contained single-use delivery system for Technetium DTPA

The Venti-Scan IV's internal baffle produces an optimal 0.50-micron mean particle size for sharp, single-study lung images. Its contoured filter offers >99.9% trapping efficiency with reduced breathing resistance. The kit auto-locks into the lead-shielded canister with aligned ports, one-step oxygen connection, and push-button disposal — minimizing handling and exposure. Weighs just 8 lb (3.7 kg).

Key Features

- 0.50-micron mean particle size; >99.9% trapping efficiency
- Full top-to-bottom lead shielding; includes IV pole mount
- Auto-locking kit ensures port alignment; one-step O2 connection; push-button disposal
- Includes mouthpiece, contoured filter, nose clip, disposal bag
- Clean-bore straight tubing prevents particle clumping
- Shielded sliding port fits Venti-Pak accessory for ventilator-assisted patients

177-090 Venti-Scan IV
Includes: Shielded canister with IV pole mount

Radioaerosol Convenience Kits™

177-091 Convenience Kit, Venti-Scan IV*
LATEX FREE *Includes: 12" (30.5 cm) tubing, small particle delivery system with mouthpiece, filter, nose clip and disposal bag. All items are latex-free.*

177-092 Convenience Kit, Venti-Scan IV*
LATEX FREE *Includes: 24" (61 cm) tubing, small particle delivery system with mouthpiece, filter, nose clip and disposal bag. All items are latex-free.*

Note: Each kit is sold in multiples of 10 and 25.

Related

177-075 Convenience Kit, Venti-Pak for Venti-Scan IV* (adapter kit for ventilator assisted patients)

Note: Each kit is sold in multiples of 5.

AeroTech™ I Radioaerosol Administration System

The original Cadema Radioaerosol System

The AeroTech I delivers even radioaerosol distribution throughout the lungs, reaching the respiratory bronchioles and alveolar ducts and sacs — enabling multiple views from a single diagnostic study. Shield construction, disposable components, and rapid delivery time minimize radiation exposure and help meet ALARA objectives. Easily adapted for respirator patients using a single accessory tube. Available with standard or small-particle (smaller MMAD) delivery systems.

Key Features

- Even aerosol distribution for high quality imaging and multiple views per study
- Completely portable and respirator-compatible; completely shielded
- Two delivery systems: standard (177-124) and small-particle (177-324) for procedures with delivery time constraints

177-095 AeroTech I Shield

Radioaerosol Convenience Kits™

177-124 Convenience Kit, AeroTech I*
LATEX FREE *Includes 24" (61 cm) tubing, standard nebulizer delivery system with mouthpiece, bacteria filter, nose clip and disposal bag. All items are latex-free.*

177-324 Convenience Kit, AeroTech I with small particle delivery system*
LATEX FREE *Includes 24" (61 cm) tubing, small particle nebulizer delivery system with mouthpiece, bacteria filter, nose clip and disposal bag. All items are latex-free.*

Note: Each kit is sold in multiples of 5.

Related

177-325 Convenience Kit, Venti-Pak for AeroTech I* (adapter kit for ventilator assisted patients)

Note: Each kit is sold in multiples of 5.

*Denotes Single Use Only

Lung Ventilation Systems & Accessories



Pulmonex® II Xenon System

The best choice for safe performance of all regional ventilation studies

The Pulmonex II controls all three study phases — startup, equilibrium imaging, and washout — through a single front-panel valve handle, with a 15-minute timer that initiates all functions and automatically shuts down after patient and system washout. Motor-assisted airflow, two 10-liter breathing bags, and a Litholyme CO_2 absorber provide resistance-free breathing. Two built-in 0.125" lead-shielded charcoal traps with Drierite moisture protection handle ~30–50 studies/month with approximately one year trap life.

Key Features

- Single valve handle controls all three phases; 15-minute auto-shutdown timer
- Resistance-free breathing with 25-liter total capacity; dual 10-liter breathing bags
- Dual built-in charcoal traps (0.125" lead-shielded) rated ~1 year at 30–50 studies/month; easily replaced
- CO_2 absorption via Litholyme; oxygen add-on with single button press
- Disposable bacteriostatic filter prevents system contamination
- Locking casters; large handles; accommodates seated and supine patients
- Xenon Convenience Kit samples included with every system

Specifications

Dimensions	20.5" w × 22" d × 48.5" h (52.1 × 55.9 × 123.2 cm)
Electrical	115 VAC, 1 amp, 50/60 Hz
Motor	12V DC, UL approved
Shipping Weight	375 lb (172.5 kg)
Warranty	1 year parts and labor
Certifications	IEC 60601-1, IEC 60601-1-2 and IEC 60601-1-6 and CAN/CSA 22.2 No. 60601-1

132-503 Xenon System, Pulmonex II, Double-Trap, 115 VAC
Includes: A sampling of disposables required to complete a xenon study. Disposables are packaged individually or in Xenon Convenience Kits.

Related
136-755 Xenon Trap Monitor
150-315 Dispenser, Xenon, Automatic
Includes: 72" Flexible Tubing with Luer-Lock Adapter
130-900 Pulmonex Kit, Free-Breathing Hose
132-504 Protective Cover, Pulmonex II

Replacement
132-319 Charcoal Trap
For any Pulmonex II
132-555 Cartridge, Refillable, Litholyme or Drierite

Lung Ventilation Systems & Accessories



Xenon Trap Monitor

Continuously monitors Pulmonex II trap effluent during a xenon study, meeting compliance requirements in most states. Audible and visual alarms activate when exhaust exceeds 99 pCi/mL. Built-in self-test and background check modes with Cs-137 check source. A 10 µCi Cs-137 check source is required to calibrate the monitor (sold separately).

Specifications

Alarm Threshold	99 pCi/mL
Display	4-digit LED; 4 RGB function LEDs
Lead Shielding	0.5" (1.3 cm)
Power	18V external/115 VAC adapter, UL approved
Weight	5.25 lb (approx. 2.4 kg)
Warranty	1 year

136-755 Monitor, Xenon Trap *Mounts to Pulmonex II Xenon Systems*

Related

101-103 Check Source, Cs-137, 10 µCi *Uncalibrated, 1" dia x .25" thick (2.5 x 64 cm)*



Automatic Xenon Dispenser

Provides quick, accurate xenon delivery directly to the patient

The Automatic Xenon Dispenser easily attaches to the front of the Pulmonex System—no tools required. Simply preload the xenon vial into the supplied plunger and press the dispense button when you're ready to deliver the xenon to the patient.

150-315 Dispenser, Xenon, Automatic *Includes 72" Flexible Tubing with Luer-Lock Adapter*

Replacement

150-317 Tubing, 72" Luer-Lock Adapter, 5/pk



Free-Breathing Pulmonex Hose Kit

When unrestricted breathing is critical

The Free-Breathing Pulmonex Hose Kit features large-bore tubing for minimal breathing resistance. This high-quality kit includes two Clean-Bore hoses, two hose clamps, and a non-rebreathing anesthesia valve compatible with standard disposable bacteria filters and masks.

130-900 Pulmonex Kit, Free-Breathing Hose

Replacement

130-901 Hose, "Clean-Bore" *36" l x 1.125" dia. (91.4 x 2.9 cm)*

130-902 Valve, Anesthesia *Hans Rudolph, non-rebreathing*

130-903 Adapter, Hose *.875" x 1.125" dia. (2.2 x 2.9 cm)*

130-904 Clamp, Hose



Lung Ventilation Systems & Accessories

Xenon Convenience Kits

All-in-one disposable kits containing every component needed for a single xenon study. Available with air-cushioned face mask or mouthpiece, and with Direct Dose Administration (luer-lock, no needle) or standard injection port. Pre-filled Drierite and Litholyme cartridges prolong charcoal trap life by ensuring fresh absorbents for every scan.



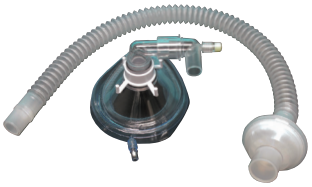
LATEX FREE

Air-Cushioned Face Mask and Direct Dose Administration Adapter

No needle necessary

134-772 Convenience Kit, Face Mask and Administration Adapter*
Includes: Bacteria filter and ultra-flex tubing

Note: Each kit is sold in multiples of 25.



LATEX FREE

Air-Cushioned Face Mask with Luer-Lock Injection Port

132-684 Convenience Kit, Face Mask with Luer-Lock Injection Port*
Includes: Bacteria filter, ultra-flex tubing and 90° luer-lock injection port

Note: Each kit is sold in multiples of 25



LATEX FREE

Air-Cushioned Face Mask with Injection Port

132-690 Convenience Kit, Face Mask with Injection Port*
Includes: Bacteria filter (shown)

132-691 Convenience Kit, Face Mask with Injection Port*
Includes: Bacteria filter and ultra-flex tubing

132-784 Convenience Kit, Face Mask with Injection Port*
Includes: Bacteria filter, ultra-flex tubing, Drierite & Litholyme cartridges

Note: Each kit is sold in multiples of 25.



LATEX FREE

Air-Cushioned Face Mask with Direct Dose Administration

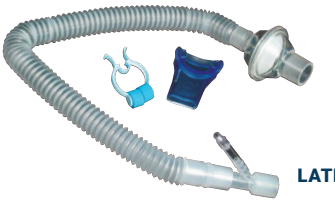
No needle necessary

132-699 Convenience Kit, Face Mask with Direct Dose*
Includes: Bacteria filter

132-692 Convenience Kit, Face Mask with Direct Dose*
Includes: Bacteria filter and ultra-flex tubing

132-793 Convenience Kit, Face Mask with Direct Dose*
Includes: Bacteria filter, ultra-flex tubing, Drierite & Litholyme cartridges

Note: Each kit is sold in multiples of 25.



LATEX FREE

Mouthpiece and Direct Dose Administration, Adapter

No needle necessary

132-770 Convenience Kit, Mouthpiece*
Includes: Bacteria filter and nose clip

132-774 Convenience Kit, Mouthpiece and Administration Adapter*
Includes: Bacteria filter, nose clip and ultra-flex tubing (shown)

132-771 Convenience Kit, Mouthpiece and Administration Adapter*
Includes: Bacteria filter, nose clip, ultra-flex tubing, Drierite & Litholyme cartridges

Note: Each kit is sold in multiples of 25.

*Denotes Single Use Only

Lung Ventilation Systems & Accessories



LATEX FREE

Air-Cushioned Face Mask

Pre-filled air cushion provides a secure, leak-proof seal with adjustable fit and transparent patient monitoring.

132-685 Face Mask without Injection Port, Adult*

Note: Each kit is sold in multiples of 25.



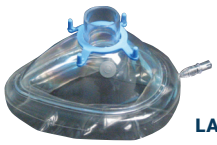
LATEX FREE

Air-Cushioned Face Mask with Direct Dose Administration

Soft air cushion provides comfort with needle-free direct dose administration.

132-695 Face Mask with Injection Port, Adult*

Note: Each kit is sold in multiples of 25.



LATEX FREE

Air-Cushioned Face Mask with Injection Port

Pre-filled air cushion provides a secure fit with transparent monitoring and syringe access.

132-695 Face Mask with Injection Port, Adult*

Note: Each kit is sold in multiples of 25.



LATEX FREE

Face Mask Harness

Soft rubber harness adjusts to any head size and securely holds the mask in place.

139-677 Face Mask Harness



LATEX FREE

Disposable Bacteria/Viral Filter

99.9% bacteria/virus retention filter reduces cross contamination with low breathing resistance.

132-750 Bacterial/Viral Filter*

Note: Each kit is sold in multiples of 25.



LATEX FREE

Corrugated Tubing

Scored and capped every 6" for easy cutting and secure fitting attachment.

139-680 Tubing, Corrugated, 100 ft/roll*



LATEX FREE

Tubing Splice

Connects 22 mm corrugated tubing sections to masks and filters.

130-639 Tubing Splice, 22 mm Male, 10/pkg*



Drierite

Moisture trap for the Pulmonex Xenon System. Color changes from blue/white to pink when saturated.

139-101 Drierite, 1 lb
132-772 Drierite, Disposable Cartridge*



Litholyme

High-efficiency CO_2 absorber helps prevent patient re-breathing and acidosis.

130-019 Litholyme, 1 lb
132-773 Litholyme, Disposable Cartridge*

*Denotes Single Use Only

Shielding & Storage



Pro-Tec™ III Syringe Shield

Lightweight tungsten syringe shield for preparing and administering radiopharmaceuticals. 2 mm thick tungsten barrel reduces Tc-99m exposure by >99%. 5.05-density lead glass window; white reflective interior for improved syringe marking visibility. Safe-T-Lock grips and locks syringe; invert over sharps container and press release button to dispose. Replaceable glass — no gluing required.

007-723	Syringe Shield, 1 cc (BD luer lock)
007-734	Syringe Shield, 1 cc (press fit)
007-755	Syringe Shield, 2.5 cc (HSW)
007-735	Syringe Shield, 3 cc
007-736	Syringe Shield, 5 cc
007-738	Syringe Shield, 10 cc

Replacement

127-734	Syringe Shield Replacement Glass, 1 cc
127-735	Syringe Shield Replacement Glass, 3 cc and 5 cc
127-738	Syringe Shield Replacement Glass, 10 cc

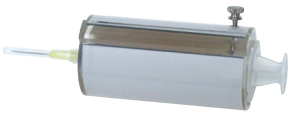


Pro-Tec™ IV Syringe Shield

Moisture absorber – blue and white blend

5.6 high-density lead glass barrel with 360° view and tapered end for complete syringe visibility and faster venipuncture. Reduces Tc-99m exposure by >99%. Safe-T-Lock design; push-button syringe release over sharps container. 5 cc model ideal for Quadramet®.

007-675	Syringe Shield, 3 cc
007-680	Syringe Shield, 5 cc
007-685	Syringe Shield, 10 cc



FOR BETA
FOR ZEVALIN™

Beta Syringe Shield

For syringes containing beta-emitting radiopharmaceuticals (Theranostics/ Therapeutics). Clear plastic barrel attenuates beta; 0.062" embedded lead lining attenuates gamma and bremsstrahlung. Clear viewing window; thumbscrew holds syringe. Suitable for alpha-emitting therapy agents. 20 cc model ideal for theranostics.

Specifications

Shielding	0.062" thick (0.16 cm) lead + clear plastic barrel

007-956	Syringe Shield, Beta, 1 cc
007-957	Syringe Shield, Beta, 10 cc
007-958	Syringe Shield, Beta, 20 cc



FOR PET

511 Dose Drawing Syringe Shield

Same shielding as the 511 C-Tec Syringe Shields. Needle end tungsten disc protects hands during dose drawing. Two pins in end disc secure the shield to the Drawing Station for single-handed dose removal. Tungsten thickness: 0.315".

0665-2017	511 Dose Drawing Syringe Shield 5 cc
0665-2011	511 Dose Drawing Syringe Shield 10 cc
0665-2018	511 Dose Drawing Syringe Shield 20 cc



High Density Lead Glass Syringe Shield

Optically clear 5.6-density lead glass barrel with 360° visibility; >99% Tc-99m reduction. Polymer-tipped barrel resists breaking or scratching. O-ring seal and anti-roll cap for easy syringe insertion.

Accommodates luer and non-luer lock syringes

007-635	Syringe Shield, 3 cc
007-652	Syringe Shield, 5 cc and 6 cc
007-612	Syringe Shield, 10 cc and 12 cc

Shielding & Storage



Dose Drawing Syringe Shield

Lightweight, easy-to-use design

Reduces hand exposure when drawing doses from a shielded vial. Optically clear high-density lead glass barrel with 360° visibility; >99% Tc-99m reduction. O-ring seal; anti-roll cap; polymer shock absorbers at each end. Available with non-replaceable or replaceable glass.

Non-Replaceable Glass

007-661	Syringe Shield, 3 cc
007-663	Syringe Shield, 5 cc and 6 cc
007-665	Syringe Shield, 10 cc and 12 cc

Replaceable Glass

007-691	Syringe Shield, 3 cc
007-693	Syringe Shield, 5 cc and 6 cc
007-695	Syringe Shield, 10 cc and 12 cc

Replacement

127-691	Syringe Shield Replacement Glass, 3 cc
127-693	Syringe Shield Replacement Glass, 5 cc and 6 cc
127-695	Syringe Shield Replacement Glass, 10 cc and 12 cc



FOR PET

Gaard Lock™ PET Syringe Shield

Reduces hand exposure from 511 keV FDG F-18. 0.34" (9 mm) tungsten attenuates FDG F-18 by 88%. High-density (5.6) flush-mounted lead glass window; white reflective interior. Unique flange locking design for faster one-handed handling.

Specifications

Shielding	0.34" (9 mm) tungsten — 88% F-18 attenuation

007-716	Syringe Shield, 3 cc
007-717	Syringe Shield, 5 cc
007-718	Syringe Shield, 10 cc

Replacement

007-974	Glass, Replacement *For 007-716, 007-717, 007-718, 007-961, 007-962, 007-969, 007-973, 007-975 and, 007-980.*



FOR PET

Z-PET Syringe Shield

Extra-thick wall for maximum protection from 511 keV radionuclides. 0.55" (14 mm) tungsten attenuates FDG F-18 by 97%. Accommodates standard 5 cc syringes. Clean with damp non-abrasive cloth and mild detergent.

Specifications

Dimensions	2.75" l × 1.7" dia. (7 × 4.3 cm)
Shielding	0.55" (14 mm) tungsten — 97% F-18 attenuation
Weight	Approx. 3.7 lb (1.7 kg)

007-945	Syringe Shield, Z-PET, 5 cc*

**Z-PET Syringe Shield was conceived by Michael Zimmer, Ph.D.*



Shielding & Storage



FOR PET

Pro-Tec™ PET Syringe Shield

0.34" thick tungsten (88% F-18 attenuation) with 5.6-density flush-mounted lead glass window. White reflective interior; thumbscrew holds syringe firmly.

007-973 Syringe Shield, 3 cc
007-975 Syringe Shield, 5 cc
007-980 Syringe Shield, 10 cc

Replacement
007-974 Glass, Replacement
For 007-716, 007-717, 007-718, 007-961, 007-962, 007-969, 007-973, 007-975 and 007-980.
007-968 Syringe Shield Replacement Screws, 15 pkg



FOR PET

Pro-Tec™ PET/MR Syringe Shield

Non-magnetic MR Conditional (7T) shield for administration of high-energy isotopes in PET/MR environments. 0.34" thick tungsten (88% F-18 attenuation); 5.6-density lead glass window; clearly labeled and engraved as MR Safe. Available in 3 cc and 5 cc.

007-961 Syringe Shield, 3 cc
007-962 Syringe Shield, 5 cc

Replacement
007-974 Glass, Replacement
For 007-716, 007-717, 007-718, 007-961, 007-962, 007-969, 007-973, 007-975 and, 007-980.
007-968 Syringe Shield Replacement Screws, 15 pkg



Lead Vial Shield with Magnetic Cap

Color-coded labels for easy identification. Lead body with tungsten magnetic cap, lead glass viewing window, and fits most 10 mL vials.

Specifications

Lead Shielding	0.31" (0.79 cm)
Weight	2.2 lb (1 kg)

053-610 Vial Shield, 0.31" lead, Magnetic Cap
Includes a color label sheet
053-611 Vial Shield, 0.31" lead, Magnetic Cap, with glass
Includes a color label sheet



Tungsten Lead Vial Shield with Magnetic Cap

Designed with a holding ring for comfortable handling or inverted use in a dispensing station. 0.2" tungsten shielding (>99% Tc-99m attenuation), magnetic cap, and fits 10 mL vials.

Specifications

Tungsten Shielding	0.2" (0.51 cm)
Lead Equivalency	0.286" for Tc-99m
Weight	1.75 lb (0.80 kg)

053-806 Vial Shield, 0.2" Tungsten, Magnetic Cap
Includes a color label sheet



Shielding & Storage



Tungsten Vial Shield

0.2" thick tungsten; >99% Tc-99m attenuation; equivalent to 0.286" lead. Virtually unbreakable. Accommodates 10 ml vials.

Specifications

Tungsten Shielding	0.2" (0.51 cm)
Weight	1.65 lb (0.75 kg)

053-807 Vial Shield, Tungsten



Lead Vial Shield

Designed for preparing radio-pharmaceuticals that require boiling. Vented to allow water circulation; carrying handle for lowering/removing from boiling water bath. 5.6-density lead glass window. Reduces 25 mCi Tc-99m to background.

Specifications

Lead Shielding	.25" (0.64 cm)
Weight (with handle)	3 lb (1.4 kg)

001-236 Vial Shield, .25" lead



FOR PET

PET Vial Pig

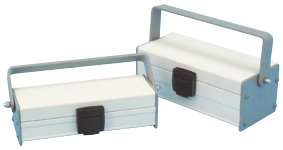
Safely transports 10, 20, and 30 ml vials containing PET or high-energy radionuclides. Minimum 1" lead shielding. Can be used independently or with the PET Shipping System (DOT II Type A).

Specifications

Lead Shielding	Sides and bottom: 1" Top: 1.75"
Weight	21.3 lb (9.7 kg)

001-706 Pig, Vial, PET, 1" lead
Transports 10, 20* & 30 ml vials.*
**Requires Vial/Pig Adapter, sold separately.*

Related
001-771 Sheets, Absorbent, 100/pkg
001-707 Adapter, Vial Pig, 10 ml
Allows 001-706 Vial Pig to accommodate 10 ml vials
001-711 Adapter, Vial Pig, 20 ml
Allows 001-706 Vial Pig to accommodate 20 ml vials



Shielded Syringe Carriers

Overlapping lid with snap-latch closure prevents radiation streaming. Double-thick ends reduce exposure from syringe ends. Available in 0.125" and 0.25" lead shielding in two sizes.

0.125" lead Carrier
001-181 Syringe Carrier, Small
001-179 Syringe Carrier, Large

0.25" lead Carrier
001-182 Syringe Carrier, Small
001-180 Syringe Carrier, Large



Syringe Shield Holder

Protects syringe shields from scratches and misplacement while saving workspace. Holds up to eight shields and features a counterbalanced design to prevent tipping.

007-999 Syringe Shield Holder

Shielding & Storage



FOR BETA

Shielded Storage Containers

For storing used syringes, alcohol wipes, and low-energy gamma or beta radiation waste prior to disposal. Lead-lined stainless steel; 050-205 includes aluminum lining to attenuate gamma, beta, and bremsstrahlung.

050-250 Shielded Storage Container, Gamma, Large
050-205 Shielded Storage Container, Beta/Gamma, Small

Related
007-007 Liner, Molded Plastic, 12/pkg
Fits 050-250
040-315 Liner, Poly Bag, 100/pkg
Measures 6" x 3" x 15"
Fits 050-250 and 050-205



Vertical Drop CII Sharps Shield

A convenient way to store spent syringes in a safe manner

Key-Lock tops (OSHA-compliant); hinged top for easy sharps container replacement — no heavy lid removal required. Standard model holds one medium Monoject container; tall model holds two small or one large. Specifiable in 0.125" or 0.25" shielding.

0660-0018 Vertical Drop CII Sharps Shield (Standard)
0660-0019 Vertical Drop CII Sharps Shield (Tall)
0660-1811 Monoject Sharps Medium (For Standard) 20/box
0660-1813 Monoject Sharps Small (For Tall) 40/box



Horizontal Drop CII Sharps Shield

Comes with hinged top and easy opening

Holds one medium horizontal-entry Monoject Sharps or Gator container. Key-Lock top; 0.125" (or 0.25") lead shielding. Syringes lie flat for greater filling capacity.

Specifications

Shielding	0.125" lead with 4π shielding
Weight	52 lb (23.6 kg)

0660-0038 Horizontal Drop CII Sharps Shield (Standard)



Shielded Syringe Holder

Accommodates shielded and unshielded syringes. Lead shielding encased in steel with tapered protection (.25"–.5" lead) and a stable, large-diameter base.

009-205 Syringe Holder, Shielded



High-Energy Sharps Container Shield

For disposal of syringes contaminated with high-energy isotopes such as I-131. Steel lined with 0.5" lead; hinged top with sliding port and side handles for transport. Key-locked; accommodates small and medium Monoject containers.

Specifications

Lead Shielding	0.5" (1.3 cm)
Weight	160 lb (72.6 kg)

039-326 Sharps Container Shield, 0.5" lead



FOR PET

PET Sharps Container Shield

Stands alone or recesses into countertop. Steel with 1.0" lead lining for 511 keV disposal. Hinged cover for syringe disposal; sliding top with lock for container removal.

Specifications

Lead Lining	1.0" (2.5 cm)
Weight	160 lb (72.6 kg)

5730-2271 PET Sharps Container Shield

Related
0660-0042 PET Sharps Inserts, 12/box

Shielding & Storage



FOR PET

Compact PET Shipping Systems

Transports 3 cc or 5 cc unit doses of FDG F-18 and other high-energy radionuclides. Lightweight pig (9 lb) is easily removed from the container without lifting equipment. Shipping container can remain at a convenient height. Meets DOT Yellow II Type A and IATA requirements.

001-786 Shipping System, PET, Single Dose
For single Unit Dose Pig
Includes: 001-785 Unit Dose Pig, absorbent sheets and shipping container with lead shielding

001-787 Shipping System, PET, Double Dose
For two single Unit Dose Pigs
Includes: Two 001-785 Unit Dose Pigs, absorbent sheets and shipping container with lead shielding

Specifications

	Single	Double	Triple
Unit Dose Pig Weight	8.7 lb (4 kg)	17.4 lb (8 kg)	26.1 lb (12 kg)
Container Weight	29.6 lb (13.5 kg)	37.8 lb (17.2 kg)	68.9 lb (31.1 kg)
Combined Weight	38.3 lb (17.5 kg)	55.2 lb (25.2 kg)	95 lb (43.1 kg)

001-739 Shipping System, PET, Triple Dose
For three single Unit Dose Pigs
Includes: Three 001-785 Unit Dose Pigs, absorbent sheets and shipping container with lead shielding

Related
001-284 Pig Rack, PET
001-730 Cart, Transport, PET Shipping System
001-771 Sheets, Absorbent, 100/pkg
001-726 Tags, Wire Security, 25/pkg
Used to identify unauthorized access
001-721 Document Protector, 100/pkg

U.S. Patent No. 6,586,758, U.S. Patent No. 6,822,253
U.S. Patent No. 6,963,073, U.S. Patent No. 7,019,317



FOR BETA

Shielded Waste Container

Designed for low-energy beta and gamma waste, this container combines 0.25" lead and 0.063" aluminum shielding to attenuate gamma, beta and bremsstrahlung radiation. A protective hatch door, side handles, and durable powder-coated steel construction provide added safety and convenience.

039-110 Waste Container, Shielded, 0.25" lead
Includes 20 Poly Liners

Replacement
040-108 Liner, Poly, 20/pkg



Shielded Waste Container

20-quart stainless steel container lined with 0.125" lead for low-energy gamma waste. Removable shielded cover provides easy disposal, while plastic liners simplify waste transfer.

039-106 Waste Container, Shielded, 0.125" lead
Includes 20 Poly Liners

Replacement
040-108 Liner, Poly, 20/pkg



12 Gallon Step Waste Can

Designed to reduce hand exposure, this rugged steel construction with hands-free foot-pedal operation and 1/8" lead shielding for low-energy radioactive waste. Includes a rigid, spill-proof liner and durable white gloss finish.

5530-20179 12 Gallon Step Waste Can, Stainless Steel

Shielding & Storage



PET Unit Dose Pig

Encapsulated in durable high-impact Lexan and polypropylene — rugged, easy to clean, and compatible with automatic washing systems. Hex base matches all PET L-Block Shields for one-handed loading. Single twist opens or closes, reducing handling time. Available in 3/5 cc and 10 cc sizes.

Specifications

Lead Shielding	Body: 0.5" / Top: 1.44" Bottom: 1.2"
Weight	8.7 lb (4 kg)

001-785 Pig, Unit Dose, PET, 3/5 cc, .5" lead
Accommodates syringes with or without needle

001-798 Pig, Unit Dose, PET, 10 cc, .5" lead
Accommodates a 10 cc syringe with or without needle, filled to 6cc

Note: Each Pig is sold in multiples of three.

Related
001-284 Pig Rack, PET
001-771 Sheets, Absorbent, 100/pkg



FOR PET

Intego™ Vial Shipping System

Tungsten Vial Shield designed for the Medrad Intego PET Infusion System, transporting a 30 ml Hospira vial. Detachable lifting handle included. Meets DOT Yellow II Type A (up to 2.5 Ci/92.5 GBq F-18) and IATA requirements.

Specifications

Shield Weight	15.2 lb (6.89 kg)
Container Weight	48.8 lb (22.1 kg)
Combined Weight	64 lb (29 kg)

001-708 Vial Shield, Tungsten, Intego
For 30 ml Hospira vials. Includes lifting handle.

001-723 Shipping Container, Intego

Related
001-730 Cart, Transport, PET Shipping System
001-726 Tags, Wire Security, 25/pkg
Used to identify unauthorized access
001-721 Document Protector, 100/pkg

U.S. Patent No. 6,586,758



FOR PET

Compact PET Shipping System for Vial Pig

Transports 10, 20, or 30 ml vials with high-energy radionuclides. Entire system weighs only ~50 lb. Meets DOT Yellow II Type A (up to 1.5 Ci 55.5 GBq F-18) and IATA requirements.

Specifications

Vial Weight	21.3 lb (9.7 kg)
Container Weight	28.4 lb (12.8 kg)
Combined Weight	49.7 lb (22.5 kg)

001-724 System, PET, Vial*
Includes: 001-706 Vial Pig and shipping container with lead shielding

Components
001-706 Pig, Vial, PET, 1" lead
Transports 10, 20* & 30 ml vials.*
**Requires Vial/Pig Adapter, sold separately.*

Related
001-707 Adapter, Vial Pig, 10 ml
Allows 001-706 Vial Pig to accommodate 10 ml vials
001-711 Adapter, Vial Pig, 20 ml
Allows 001-706 Vial Pig to accommodate 20 ml vials
001-730 Cart, Transport, PET Shipping System
001-771 Sheets, Absorbent, 100/pkg
001-726 Tags, Wire Security, 25/pkg
Used to identify unauthorized access
001-721 Document Protector, 100/pkg

U.S. Patent No. 6,586,758

Shielding & Storage



FOR PET

Mobile Radiation Shield

Adjustable-height mobile shield (36"–40.5"). Wheel and swivel locks secure position. 1" thick lead.

Specifications

Lead Shielding	1" (2.5 cm)
Shield Dimensions	36" w × 19" h (91.4 × 48.3 cm)
Weight	446 lb (202.3 kg)
Warranty	1 year parts and labor

042-519 Radiation Shield, Mobile, Adjustable Height, 1" lead



Steel Table

Heavy-duty powder-coated steel table ideal for L-Block shields and caves. Adjustable front leg levelers; upper and lower shelves for small items and large shipping containers.

Specifications

Dimensions	36.75" w × 24" d × 36" h (93.5 × 61 × 91.5 cm)
Weight Capacity	1,550 lb (730 kg)
Weight	200 lb (90.9 kg)

042-407 Table, Steel



Pro-Tec™ Unit Dose Pig

Fits most conventional and safety-engineered syringes. Lead encapsulated in Lexan — no exposed lead. Overlap design prevents streaming. Single-twist O-ring seal. Red, white, or blue. Fits ammo cans either way. Complies with IATA and DOT II.

Specifications

Lead Shielding	0.25" nominal (0.64 cm)
Weight	3 lb (1.4 kg)

001-280 Unit Dose Pig, Pro-Tec, Red
001-281 Unit Dose Pig, Pro-Tec, White
001-282 Unit Dose Pig, Pro-Tec, Blue

Note: Each Pig is sold in multiples of six.

U.S. Patent No. 6,822,253
U.S. Patent No. 6,963,073
U.S. Patent No. 7,019,317



Unit Dose Pigs In-111 or Y-90

Lead shielding in durable Lexan reduces radiation exposure. In-111 pig fits a 10 cc syringe filled to capacity; Y-90 pig fits a 10 cc syringe filled to 9 cc.

001-789 In-111 Unit Dose Pig
Accommodates 10 cc syringe with or without needle, filled to 10 cc

001-788 Theranostics Unit Dose Pig with Acrylic Lining
Accommodates 10 cc syringe with or without needle, filled to 9 cc

Related
001-284 Pig Rack, PET
001-771 Sheets, Absorbent, 100/pkg

U.S. Patent No. 6,822,253
U.S. Patent No. 6,963,073
U.S. Patent No. 7,019,317



Shielding & Storage



PET Pig Rack

Countertop rack safely holds up to eight PET pigs. Hexagonal cutouts secure each pig and allow easy opening and closing with a single twist.

001-284 Pig Rack, PET

Related

001-785 Pig, Unit Dose, PET, 3/5 cc, .5" lead
001-788 Theranostics Unit Dose Pig with Acrylic Lining
001-789 In-111 Unit Dose Pig

U.S. Patent No. 6,822,253
U.S. Patent No. 6,963,073
U.S Patent No. 7,019,317



Pro-Tec™ Pig Rack

Countertop rack safely holds up to 10 Pro-Tec Pigs. Hexagonal cutouts secure each pig and allow easy opening and closing with a single twist.

001-283 Pig Rack, Pro-Tec

Related

001-280 Unit Dose Pig, Pro-Tec, Red
001-281 Unit Dose Pig, Pro-Tec, White
001-282 Unit Dose Pig, Pro-Tec, Blue

U.S. Patent No. 6,822,253
U.S. Patent No. 6,963,073
U.S. Patent No. 7,019,317



Pro-Tec™ Pig Shipping Bag

Durable waterproof nylon bag for up to 11 Pro-Tec Pigs. Meets DOT 7A Type A and IATA requirements.

001-754 Shipping Bag, Pro-Tec Pig

Related

001-280 Unit Dose Pig, Pro-Tec, Red
001-281 Unit Dose Pig, Pro-Tec, White
001-282 Unit Dose Pig, Pro-Tec, Blue

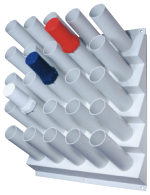
Note: Each Pig is sold in multiples of six.

Replacement

001-756 Placard, Type I, 100/pkg
001-757 Placard, Type II, 100/pkg
001-779 Covers, hook & loop fasteners, plastic,Lg, 160 x 180 mm, 50/pkg

U.S. Patent No. 6,822,253
U.S. Patent No. 6,963,073
U.S. Patent No. 7,019,317





Unit Dose Pig Wall Rack

Improve safety and organization with this pigeon-hole rack, which reduces handling and provides at-a-glance identification. Sturdy construction holds up to 25 unit dose pigs.

008-400 Wall Rack, Unit Dose Pig

Shielding & Storage



FOR PET

Compact L-Block with Integrated Dose Calibrator Shield

Space-saving design — Ideal for small labs and mobile units

Maximizes space in facilities receiving and preparing high-energy nuclides such as FDG F-18. Built-in calibration chamber shield accommodates all Capintec chambers (through-mounted in countertop). 8" × 8" × 4" adjustable lead glass window; 1.5" lead shielding in front; 1" in base and chamber shield. Hex-shaped recess facilitates one-handed pig loading/unloading. Optional Lead Brick Cave provides complete lateral shielding.

Specifications

Front Lead Shielding	1.5" (3.8 cm)
Base/ Calibrator Shield	1.0" (2.5 cm)
Lead Glass Window	8" × 8" × 4" 5.2 g/cm³ density
Dimensions	18" w × 21.5" d × 26" h (45.7 × 54.6 × 66 cm)
Weight	570 lb (259 kg)

042-433 Compact L-Block with Dose Calibrator Shield, 1.5" lead
With built-in Dose Calibrator Shield

Related
042-434 Lead Brick Cave, 3-wall,
Fits 042-433 L-Block Shield
042-435 Lead Brick Cave Cover
Fits 042-434 Lead Brick Cave

Note: For use in countertops without a back-splash. Designed for mobile environments.



FOR PET

511 Spring Armed Dose Drawing Station

Proprietary spring arm design simplifies handling of heavy vial shields

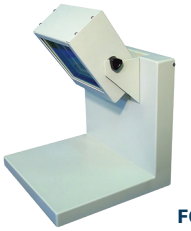
Spring arm allows near-effortless positioning of the 35 lb vial shield — raised, lowered, or inverted with minimal exertion. Inner tungsten T-vial shield provides 1.0" lead equivalence; outer shield is 1.0" thick epoxy-coated lead (combined 2.0" shielding). Flanged tungsten syringe shield twists and locks into vial shield. 8" × 8" × 4" high-density lead glass viewport with 1/4" protective window glass.

Specifications

Combined Lead Shielding	1.5" (3.8 cm)
Lead Glass Window	8" × 8" × 4" 5.2 g/cc density
Dimensions	22½" w × 23⅞" h × 22" d
Weight	250 lb

5510-3003 Drawing Station with body shield

Related:
0665-2017 511 Dose Drawing Syringe Shield 5 cc
0665-2011 511 Dose Drawing Syringe Shield 10 cc
0665-2018 511 Dose Drawing Syringe Shield 20 cc
5530-1031 Painted Dose Drawing Station Brick Kit
12" h x 32" w x 24" d x 2" Thick (31 x 82 x 61 x 5 cm)
5530-2014 511 T-Vial Shield



FOR PET

511 Adjustable L Block Table Top Shield

2 3/8" thick lead shielding. Adjustable 8" × 8" × 4" lead glass window (30–55°); clear glass protective cover. High-gauge steel construction. Shipped in three pieces for on-site assembly. Optional brick kits for side and back wall protection.

Specifications

Lead Shielding	2 3/8" (6 cm)
Weight	500 lb (227 kg)

5530-2077 511 Adjustable 'L' Block Shield

Related
5530-2014 511 T-Vial Shield



FOR PET

511 L Block Table Top Shield

Fixed-angle 4" thick lead glass window with two sheets of 1/4" plain glass for scratch protection (industry exclusive). 1.0" lead shielding.

Specifications

Lead Shielding	1.0" (2.54 cm)
Weight	195 lb (89 kg)

0665-2014 PET L-Block Shield with 4" Glass

Shielding & Storage



Mini L Block Shield

Greatest flexibility of positioning for small work areas. 0.5" lead shielding; 0.25" lead glass. Optional side shielding (0.25"). Ideal for temporary storage or remote stations.

Specifications

Weight	35 lb (15.87 kg)

5130-2086 Mini L Shield

Replacement
1000-0208 Additional Plain Glass for Mini L Shield
7310-1302 Side Shields for Mini L Shield



Stainless Steel L Shield

Designed to protect staff working with Tc isotopes. Provides torso shielding with 0.24" (0.6 cm) lead shielding on the front and bottom, while the 0.59" (1.5 cm) lead glass window provides clear visibility and radiation protection. Lead glass density is 4.77 g/cm³.

Specifications

Weight	40 lb (18.1 kg)

5550-0002 Stainless Steel L Shield



FOR PET

511 Stainless Steel L Shield

Designed for facilities preparing and dispensing high-activity I-131 therapy doses. Provides excellent beta and gamma radiation protection with 1.42" (3.6 cm) lead shielding, a fully shielded floor, and 2.68" (6.8 cm) lead glass for high-energy gamma protection.

Specifications

Weight	227 lb (102.9 kg)

0550-0003 511 Stainless Steel L Block



Standard L Block Shield

Favorite for drawing and unit dose storage with easy access. 0.5" lead shielding; 0.25" lead glass. Optional side shields (0.25") and additional lead glass. Compatible with lead brick caves for higher-activity work or PET products.

Specifications

Weight	100 lb (45.35 kg)

5130-2090 Standard L Shield

Related
1000-0211 Additional Lead Glass for Standard
7310-1305 Side Shields for Standard L Shield



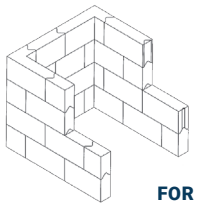
Beta Gamma L Block Shield

Standard L block specifications with 1/4" acrylic interior insert — two shields in one. Eliminates the hassle of switching L blocks when working with both beta and gamma emitting nuclides.

Specifications

Weight	100 lb (45.35 kg)

5130-2090 Standard L Shield
5130-2161 Beta Shield Insert



FOR PET

Interlocking Lead Brick Caves

Fit into the sides of the L-Block's vertical section for lateral shielding around the base perimeter. Optional Brick Cave Cover prevents shifting in mobile van hot labs.

042-434 Lead Brick Cave, 3-wall, 2" lead
Fits 042-433 L-Block Shield
5530-2074 3-wall Brick Enclosure 2" lead
5530-1030 3-wall Brick Enclosure 2" lead

Related
042-435 Lead Brick Cave Cover
Fits 042-434 Lead Brick Cave

Lead-Lined Cabinets & Enclosures



FOR PET

Lead-Lined Cabinets

All cabinets are built to the industry-standard height of 36.5" and include a stainless-steel countertop with 4" backsplash and 0.5" spill-proof lip. Units may be installed individually or grouped for a continuous work surface. Fully encased in steel — no exposed lead. All doors and drawers key-locked. Seismic anchoring brackets included. Available in 0.25", 0.5", and 1.0" lead shielding unless otherwise noted.

Lead-Lined PET Unit Dose Cabinet

Designed for PET hot labs with limited space

Provides a space-efficient work area over a fully shielded storage cabinet. Requires the 042-433 Compact L-Block with Built-in Dose Calibrator Shield, the 5730-2271 PET Sharps Container Shield, and the 042-434 Lead Brick Cave (ordered separately). Dose calibrator display mounts above countertop on a stand. Factory mounting of L-Block and Sharps Shield available on request (Continental US only) — pallet jack is all that is required to move the unit.

Key Features

- Six-sided lead shielding in 0.25", 0.5", and 1.0" configurations
- Lower cabinet with key-locking doors;
  two sliding bottom shelves for PET shipping containers;
  two sliding upper shelves for syringes and small items
- Accommodates all Capintec CRC® Dose Calibrators and most others
- Can stand alone or group with other cabinets; unified countertop option for continuous work surface
- Factory mounting available (Continental US only) — eliminates need for on-site lifting equipment

Specifications

Dimensions	100,000 cps
Lead Shielding	256
Weight Capacity	0.5" (1.3 cm)
Unit Weight	7.5 lb (3.4 kg)
Finish	15.2 lb (6.9 kg)

Full specifications and product details available in the Lead-Lined PET Unit Dose Cabinet data sheet at capintec.com

244-200	Cabinet, PET, Unit Dose, 0.25" lead *Does not accommodate Lead Brick Cave*
244-205	Cabinet, PET, Unit Dose, 0.25" lead *Accommodates Lead Brick Cave 042-434*

Related

042-433	L-Block Shield, Compact, 1.5" lead *With built-in Dose Calibrator Shield*
042-434	Lead Brick Cave, 3-wall, 2.0" lead *Fits 042-433 L-Block Shield*
5130-3235	CRC®-55t PET Dose Calibrator
0660-0042	PET Sharps Inserts *Fits 5730-2271*
5730-2271	PET Sharps Container Shield

Note: The cabinet is also available with 0.5" and 1.0" lead shielding. Call for quote.

Lead-Lined Cabinets & Enclosures



Lead-Lined Preparation Enclosure and Base Cabinet

Designed to support dose preparation activities, the preparation enclosure and base cabinet provides a shielded workspace with integrated storage beneath. Available in multiple lead thicknesses, the system supports routine preparation tasks while maintaining radiation protection.

Specifications

Lead Shielding	0.25", 0.5", or 1.0" on all six sides
Weight	244-190: 1,063 lb 244-191: 1,540 lb 244-192: 2,433 lb

244-190	Cabinet, Preparation Enclosure Base, 0.25" lead
244-191	Cabinet, Preparation Enclosure Base, 0.5" lead
244-192	Cabinet, Preparation Enclosure Base, 1.0" lead



Lead-Lined Decay and Storage Cabinet

The Decay and Storage Cabinet combines removable isotope storage drawers with adjustable shelving for controlled decay. Designed for routine use, the cabinet supports safe handling and organized storage of radioactive materials within a fully shielded enclosure.

Specifications

Lead Shielding	0.25", 0.5", or 1.0" on all six sides
Weight	244-160: 1,103 lb 244-161: 1,421 lb 244-162: 2,500 lb

244-160	Cabinet, Decay and Storage, 0.25" lead
244-161	Cabinet, Decay and Storage, 0.5" lead
244-162	Cabinet, Decay and Storage, 1.0" lead



Lead-Lined Waste and Storage Cabinet

This cabinet integrates shielded storage drawers with a waste disposal compartment. A shielded chute directs waste into a polyethylene container, supporting safe disposal and storage until decay.

Specifications

Lead Shielding	0.25", 0.5", or 1.0" on all six sides
Weight	244-170: 863 lb 244-171: 1,439 lb 244-172: 2,462 lb

244-170	Cabinet, Waste and Storage, 0.25" lead
244-171	Cabinet, Waste and Storage, 0.5" lead
244-172	Cabinet, Waste and Storage, 1.0" lead



FOR PET

PET Unit Dose Table

Compact open-frame PET hot lab table; ships fully assembled to Continental U.S.only. Includes 042-433 Compact L-Block with Dose Calibrator Shield and 5730-2271 PET Sharps Container Shield. Display mounts above countertop; shelves hold shipping containers, syringe shields, and supplies. Optional Lead Brick Cave available.

Specifications

Table Dimensions	36.75" w × 24" d × 36" h (93.5 × 61 × 91.5 cm)
Table Lead Shielding	1.0" (chamber mounting shelf)
Weight Capacity	1,550 lb (703 kg)
Table Weight	294 lb (133.3 kg)

042-448 Table, PET, Unit Dose
Includes: 042-433 Compact L-Block with Dose Calibration Shield and 5730-2271 Sharps Container Shield

Related

042-434 Lead Brick Cave, 3-wall, 2" lead
5130-2216 CRC®-55tW Dose Calibrator
0660-0042 PET Sharps Inserts
Fits 5730-2271

Lead-Lined Cabinets & Enclosures



Lead-Lined Sink and Waste Cabinet

The Sink and Waste Cabinet combines a functional sink workspace with shielded waste disposal. A lead barrier separates the sink area from the waste compartment, allowing safe handling of radioactive waste while supporting routine cleaning and rinsing activities.

Specifications

Lead Shielding	0.25", 0.5", or 1.0" on waste section (not sink)
Weight	244-220: 942 lb 244-221: 1,260 lb 244-222: 2,339 lb

244-220	Cabinet, Sink and Waste, 0.25" lead with Stainless Steel Countertop
244-221	Cabinet, Sink and Waste, 0.5" lead with Stainless Steel Countertop
244-222	Cabinet, Sink and Waste, 1.0" lead with Stainless Steel Countertop



Lead-Lined Generator and Storage Cabinet

Designed for generator handling and decay, this cabinet includes a shielded generator drawer and dedicated compartments for storing decaying generators. Integrated shielding and controlled access support safe generator workflows within hot lab environments.

Specifications

Cabinet Lead Shielding	0.5" or 1.0" on all six sides
Drawer Lead Shielding	0.25" on five sides
Weight	244-181: 1,917 lb 244-182: 2,815 lb

244-181	Cabinet, Generator and Storage, 0.5" lead
244-182	Cabinet, Generator and Storage, 1.0" lead



Lead-Lined Phantom and Storage Cabinet

The Phantom and Storage Cabinet combines isotope storage drawers with a dedicated compartment sized for flood sources and phantoms. The cabinet supports organized storage and consistent placement of phantoms used in routine nuclear medicine operations.

Specifications

Lead Shielding	0.25", 0.5", or 1.0" on all six sides
Weight	244-210: 1,103 lb 244-211: 1,421 lb 244-212: 2,500 lb

244-210	Cabinet, Phantom and Storage, 0.25" lead with Stainless Steel Countertop
244-211	Cabinet, Phantom and Storage, 0.5" lead with Stainless Steel Countertop
244-212	Cabinet, Phantom and Storage, 1.0" lead with Stainless Steel Countertop



Lead-Lined Refrigerator

5.3 cubic foot capacity refrigerator for radiopharmaceuticals, tagged biologicals, and other radioactive materials. Two adjustable stainless-steel shelves; touch pad digital controls; automatic defrost; Energy Star qualified. Key-locked door.

Specifications

Capacity	5.3 cu ft
Lead Shielding	0.125" (0.32 cm)
Dimensions	24.12" w × 25.13" d × 33.37" h (61.3 x 63.8 x 84.8 cm)
Weight	340 lb (154.5 kg)
Power	120V/230V options
Warranty	1 year parts and labor

Refrigerator, Lead-Lined, 120 V
Refrigerator, Lead-Lined, 230 V

Contact Your Sales Representative for Quote

Sources & Markers



Reference Standards

Co-57 'E'-vial reference sources calibrated to ±5% accuracy; NIST-traceable with 18-month daily decay calendar. Ensures dose calibrators meet NRC/Agreement State QC requirements. Return policy eliminates disposal expense when ordering replacement sources.

0975-0006 Reference Standards, Co-57 vial, 5 mCi
0975-5710 Reference Standards, Co-57 vial, 10 mCi
0975-3720 Reference Standards, Cs-137 vial, 200 µCi
0975-0003 Reference Standards, Ba-133 vial, 250 µCi



Dose Calibrator Syringe Vial Reference Source

Solid cast epoxy Cs-137 in 27 ml Vial E. Calibrated ±5% at 99% confidence, NIST traceable. Registered with FDA CDRH and NRC. Includes certificate of calibration, leak test certificate, and radiation safety sheet. Individual lead shield, color-coded, vinyl covered. A copy of your NRC or Agreement State License must accompany orders.

101-356 Source, Cs-137, 200 µCi
Not available for export.



Rod Sources

For calibrating well-type NaI detectors. High-strength plastic; flat base for vertical positioning. NIST traceable, ±5% accuracy at 99% confidence for standard sources; ±15% for 0975-152R and 0975-137R.

0975-152R Rod Source, Eu-152, 0.5 µCi
0975-137R Rod Source, Cs-137, 0.5 µCi

Lab Equipment



Absorbent Paper

Plastic-lined absorbent paper for protecting work surfaces from spills. Available in pre-cut sheets (17" × 13") or by the roll (300 ft × 20").

033-304 Absorbent Paper, Rolls, 300 ft/roll, 2/pkg
033-013 Absorbent Paper, Sheets, 50/pkg



Forceps

Surgical-grade steel forceps for handling vials, ampules, and small items in the hot lab without physical contact.

066-536 Forceps, Curved, non-locking, 12.5" l (31.7 cm)
0645-0025 Straight Forceps 9.5" (24.1 cm)
0645-0026 Curved Forceps 9.5" (24.1 cm)



S4FE-D™ Decontaminant

Highly effective decontamination solution for nuclear medicine. Removes radioactive iodine and other isotopes from surfaces without damaging sensitive equipment. Cleaner and decontaminant in a single solution.

0601-0004 S4FE-D Decontaminant Spray Bottle (32 oz)

Lab Equipment



Imaging Chair

Swivels 360° with back and armrests in place. Height adjusts from 19"–26" via foot pump. Seat shifts 4" left or right while base remains anchored. Back support and armrests drop away for lateral and posterior access; wide armrest for dual use as injection chair. Four locking swivel casters.

Specifications

Patient Capacity	350 lb (159 kg)
Weight	75 lb (34 kg)

214-610 Imaging Chair



Injection/Resting Chair

Three recline positions with infinitely adjustable back — accommodates the required pre-PET imaging rest period after FDG F-18 injection. Deep recline and Trendelenburg positions attendant-controlled only. Quick-release handle (full chair width) enables effortless position change from either side.

Specifications

Patient Capacity	450 lb (204 kg)
Weight	116 lb (52.6 kg)
Warranty	5-year on frame

214-210 Chair, Injection/Resting



HotPot™ Shielded Dry Heating Block

Proprietary spring-arm design eases handling heavy vial shields. 4 mm lead shielding, digital temperature control, countdown timer, and auto shutoff. Four heating cavities fit most kit vials. Teflon-covered element with durable powder-coated steel housing.

Specifications CE

Temperature Range	5°C–160°C (41°F–320°F)
Accuracy	±5%
Shielding	4 mm (0.16 in.) lead on all sides
Power	120 V/60 Hz or 220–240 V/50 Hz
Weight	14.3 lb (6.5 kg)

0651-0024 HotPot, 110 V
0651-0023 HotPot, 220 V



Injection Stand

180°-rotating clear plastic armrest cradle holds patient's arm firmly. Height adjusts 29"–44". Utility tray with shielded Multi-Syringe Holder (up to 4 syringes). Smooth-rolling casters; balanced to prevent tipping.

135-022 Stand, Injection



Decontamination Kit

Complete kit for radioactive spills and lab contamination. Includes protective gear, respirators, gloves, decontaminant, waste bags, warning signs, cleanup supplies, wipes, and tongs. Supplied in a 13-gallon radioactive-labeled drum for waste storage.

0601-0019 Decontamination Kit, Complete



Minor Emergency Spill Kit

Designed for nuclear medicine areas and based on NRC recommendations. Includes protective clothing, absorbent materials, waste liners, caution tape, contamination wipes, tags, and spill documentation. Supplied with yellow 4-mil plastic liners for quick access.

0601-0009 Minor Spill Emergency Kit

Lab Equipment





Tec-Control™ Chromatography Systems

Tec-Control Aluminum Breakthrough Kit

Fast, simple test for trace aluminum in aqueous solutions, including pertechnetate generator eluate. Indicator paper produces a red spot proportional to aluminum concentration. Compare the eluate spot with the 10 µg/mL standard to determine if aluminum levels are within USP limits.

150-780 Chromatography Kit, Tec-Control
Includes: Aluminum standard, 5 ml, 10 ug/ml, 50 indicator strips and manual

150-785 Chromatography Kit, Tec-Control
Includes: Aluminum standard, 5 ml, 5 ug/ml, 50 indicator strips and manual

Chromatography QC for the Following Radiopharmaceuticals

Radiopharmaceutical	Solvent(s) Required*	Strips Required
Aluminum Breakthru	150-781/150-783	150-782
Bicisate (Neurolite™)	Ethyl Acetate 99%	150-130
Diphosphonate	Acetone, Distilled H_2O	150-001, 150-005
Disofenin (Hepatolite™)	150-160, Distilled H_2O	150-122, 150-125
DMSA	Acetone	150-025
DTPA	Acetone, Distilled H_2O	150-001, 150-005
Exametazime (Ceretec™)	Ethyl Acetate 99%	150-130
FDG	Acetone	150-127
Glucoheptonate	Acetone, Distilled H_2O	150-001, 150-126
HDP/HMDP/Octreoscan™ HDP	Acetone, Distilled H_2O	150-001, 150-126
MAA	Acetone	150-001
MAG3 (Mertiatide™)	Acetone, Chloroform, THF	150-951, 150-952
MDP	Acetone, Distilled H_2O	150-001, 150-005
Mebrofenin (Cholotec™)	150-160, Distilled H_2O	150-122, 150-125
Pyrophosphate	Acetone, Distilled H_2O	150-001, 150-005
Sestamibi (Cardiolite™/Miraluma™)	Ethyl Acetate 99%	150-991
Sulfur Colloid	Acetone	150-001
Tc-99m (reduced)	Acetone	150-001
Tc-99m Monoclonal Antibodies	0.9% Saline	150-771
Tetrofosmin (Myoview™)	Ethyl Acetate 99%	150-971
In-111 Octreotide	150-773, 0.9% Saline	150-771**
In-111 Monoclonal Antibodies	150-773, 0.9% Saline	150-771**
In-111/Y-90 Zevalin™	0.9% Saline	150-772
I-131 Monoclonal Antibodies/ Neutrospec™	0.9% Saline	150-771

Chromatography Strips and Solvents

Tec-Control chromatography tests radiochemical purity of specific Tc-99m radiopharmaceuticals. The chart identifies the required strips and solvents for each test. Some solvents must be purchased separately due to hazardous shipping restrictions. Instructions are included with each strip container.

Chromatography Strips

150-001 Strips, RED, 50/pkg
150-005 Strips, BLACK, 50/pkg
150-025 Strips, YELLOW, 50/pkg
150-122 Strips, ORANGE, 50/pkg
150-125 Strips, LIGHT BLUE, 50/pkg
150-126 Strips, BROWN, 50/pkg
150-127 Strips, GREEN, 50/pkg
150-130 Strips, GOLD, 50/pkg
150-771 Strips, DARK GREEN, 50/pkg
150-951 Strips, LIME, 50/pkg
150-952 Strips, PEACH, 50/pkg
150-971 Strips, TEAL, 50/pkg
150-991 Strips, PINK, 50/pkg
150-782 Strips, ALUMINUM, 50/pkg

Chromatography Solvents

150-160 Solvent, 20% Sodium Chloride, 30 ml
150-773 Solvent, DTPA, 5 ml
150-781 Solvent, Aluminum Standard, 5 ml, 10 µg/ml
150-783 Solvent, Aluminum Standard, 5 ml, 5 µg/ml

Related Items

0645-0026 Forceps, Curved, locking, 9.5" l (24.1 cm)
0645-0025 Forceps, Straight, locking, 9.5" l (24.1 cm)
066-536 Forceps, Curved, non-locking, 12.5" l (31.7 cm).

Tec-Control Solvent Vendor:
Sigma-Aldrich Chemical Company
800-558-9160 | www.sigmaaldrich.com

Note: Customers outside the US should visit the Sigma-Aldrich web site to locate a regional office.

Solvent Description	Vendor Part #
Acetone HPLC Grade	270725
Ethyl Acetate 99.5% ACS Reagent	319902
Diphosphonate	319988
Chloroform 99.8% ACS Reagent	360589

** See Sigma-Aldrich product matrix for solvents.*
*** Note: A Well Plate is suggested to perform QC on these radiopharmaceuticals.*

Shielded Bio-Safety Cabinet



FOR PET

Bio-Safety Cabinet

Custom lead glass shielding for A2/B2 BSCs and Radioisotope Fume Hoods. Mobile body shield allows viewing while protected, rolls back for filter changes/ certification. 1" or 2" shielding, 4' or 6' sizes. NSF listed; optional UV lighting, sliding L-Block, Waste Cave, and flush-mount dose calibrator ports.

Fume Hood	Lead Body Shield in 4' or 6' length and 1" or 2" Pb shielding options
A2 Bio Safety Cabinet	2" Pb; 4' or 6' length options include sliding L-Block and Waste Cave
B2 Bio Safety Cabinet	2" Pb; 4' or 6' length options include sliding L-Block and Waste Cave

Contact Your Sales Representative for Quote

Phantoms



Graves Phantom

Quantitative SPECT Tissue Characterization

Water-equivalent cylindrical phantom, developed with Stephen Graves, Ph.D. (University of Iowa), for measuring SPECT sensitivity factors per radionuclide to support qSPECT calibration and radiopharmaceutical therapy trials. Solid design retains measurement conditions; six included lab bottles allow radionuclide interchangeability without long-lived contamination.

Specifications

Material	XL Solid Water™
Dimensions	Φ200 mm × 200 mm
Weight	13 lb (6.1 kg)

5230-0015	Graves Phantom *Includes: 6 bottles, each 8 oz (250 ml)*
c3683	Extra Bottles (Set of 6)



Jaszczak SPECT Phantom

Delivers SPECT/PET performance data from a single scan. Evaluates collimator, artifacts, calibration, reconstruction, center-of-rotation error, non-uniformity, and spatial resolution — no cover plate removal needed.

Specifications

Cylinder Interior	8.5" dia. × 7.32" h (21.6 × 18.6 cm)
Volume	6.8 L (5.7 L with inserts)
Cold Rod Diameters	4.8, 6.4, 7.9, 9.5, 11.1, 12.7 mm
Sphere Diameters	9.5, 12.7, 15.9, 19.1, 25.4, 31.8 mm

043-750	Phantom, SPECT, Deluxe

Related

043-763	Phantom Insert, Hollow Spheres
043-730	Phantom Insert, Triple Line
043-777	Phantom Insert, Cardiac



Jaszczak Flangeless Deluxe SPECT Phantom

Flangeless PET and SPECT phantoms deliver consistent performance evaluation with multiple characteristics assessed from a single scan. On/off-axis line spread function and FWHM/ FWTM measurable without removing the cover plate, in air or water. Meets ACR requirements.

043-765	Phantom, SPECT, Flangeless, Deluxe
043-757	Phantom, PET/SPECT, Flangeless *Includes PET and SPECT phantom lids*

Related

043-763	Phantom, Hollow Spheres Set (6)
043-730	Phantom Insert, Triple Line
043-777	Phantom Insert, Cardiac

Phantoms



FOR PET

Esser Flangeless Deluxe PET Phantom

8" dia. × 7.32" h (20.4 × 18.6 cm), 6.4 L volume. Includes cold rods (4.8–12.7 mm), solid spheres (9.5–31.8 mm), refillable cylinders (8, 12, 16, 25 mm), and a 25 mm Teflon cylinder. 1.5" cylinder height, bayonet-style locking lid.

043-772 Phantom, PET, Flangeless, Esser
043-757 Phantom, PET/SPECT, Flangeless
Includes PET and SPECT phantom lids

Related
043-763 Phantom, Hollow Spheres Set (6)
043-730 Phantom Insert, Triple Line
043-777 Phantom Insert, Cardiac



NEMA IEC NM Body Phantom

Torso-sized phantom with seven fillable spheres and a press-fit lung insert for PET/SPECT calibration. Cam-Lock IEC lid with relief port for fast, air-free filling. Lung insert uses tissue-mimicking material (no beads) at 0.3 g/cm³. SNMMI PAT Software compatible. Meets NEMA NU2, NU1, and IEC 61675-1.

Specifications

Sphere Diameters	10, 13, 17, 22, 28 (×2), and 37 mm
Body Volume	9.7 liters
Dimensions	300 mm × 230 mm × 220 mm

5250-0273 NEMA IEC NM Body Kit
5250-0274 Upgrade Kit



Bar Phantoms

Four-quadrant Bar Phantoms for intrinsic/collimator resolution, field size, and linearity. Multiple sizes available.

243-935 Bar Phantom, Rectangular
243-800 Bar Phantom, Standard, High Resolution
243-816 Bar Phantom, G.E.
243-987 Bar Phantom, Symbia and E-Cam

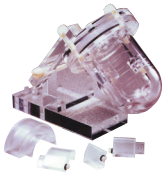


FOR PET

NEMA PET Sensitivity Phantom™

Six concentric tubes measure PET sensitivity. Five aluminum, one fillable polyethylene, 700 mm long, ID 1–16.6 mm, OD 3–19.1 mm.

5250-0165 NEMA PET Sensitivity Phantom



Cardiac Insert

Simulates the left ventricle for SPECT evaluation of myocardial uptake, attenuation, and scatter. Adjustable 30°–60° ventricle angle, two solid acrylic cold-defect sectors (45° and 60°), and four fillable defects for transmural and non-transmural abnormalities.

043-777 Phantom Insert, Cardiac
Includes: Defect Set



Triple Line Insert

Three 1 mm parallel tracer lines spaced 7.5 cm apart, per NEMA standards. Fillable via stainless steel valves, surrounded by water to simulate attenuation. Evaluates on/off-axis resolution, center- and radius-of-rotation errors, and reconstruction filter effects on SPECT spatial resolution.

5250-0165 NEMA PET Sensitivity Phantom



FOR PET

Hollow Sphere Inserts

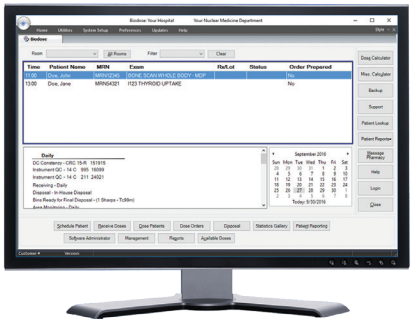
Six removable, fillable hollow spheres for circular and elliptical SPECT cylinders simulate hot and cold lesions. Evaluate spatial resolution, object size, attenuation, scatter, and ECT reconstruction methods. Diameters 9.9–31.2 mm, volumes 0.5–16 mL.

043-763 Phantom Insert, Hollow Spheres

Powering Precision Medicine

Our Nuclear Medicine and Molecular Imaging software solutions simplify workflows and reduce errors to create streamlined operational processes for the radiopharmaceutical field.

ec² SOFTWARE



NMIS

Complete department management solution for inventory tracking, dose ordering, patient information, and billing. Doses tracked from arrival through disposition with full digital history. Mobile iOS/Android Injection Confirmation Scan (ICS) app verifies right dose to right patient. Automated daily and monthly compliance reporting for NRC/state inspections.

Key Features

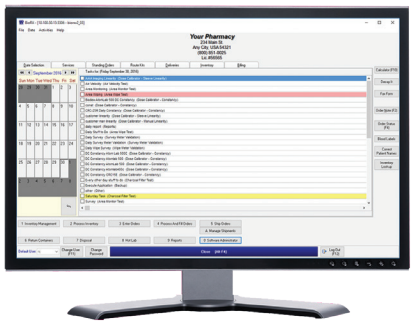
- Department workflow management; customizable patient and order views
- Injection Confirmation Scan (mobile app) — no ePHI stored on device
- Electronic dose ordering with online pharmacy connection and credit tracking
- Barcode scanning for inventory and individual dose data
- Automated daily/monthly inspection reporting

Optional Interfaces

- HL7 Work list
- Dymo Label & Wristband Printers
- DICOM
- Common File card
- DoseSecure
- Treadmill Interface
- Dose Calibrator
- MEDRAD

Who Does NMIS Help?

- Nuclear Medicine Technologists
- IT Professionals
- Administrators
- Health Physicists



BioRx/RMIS — Nuclear Pharmacy Management System

Simplifies nuclear pharmacy management. Customers can place orders and access dosage information online, while staff efficiently process orders, track inventory, and manage health physics — all while staying current with state and federal regulations. Built for nuclear pharmacies and pharmacy management teams.

Key Features

- Single-screen inventory, label printing, and multi-location transfers
- Real-time dispensing and activity monitoring
- Flexible invoicing with QuickBooks export
- Quality Control management of Dose calibrators, sealed sources, and survey meters
- Real-time online ordering of radiopharmaceuticals
- Barcode scanner enabled
- Compliant with 797 Live Dispensed Regulations

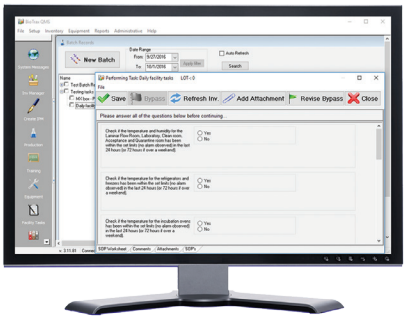
Optional Interfaces

- BioPointe
- Dose Calibrator
- QuickBooks
- Dymo Label Printer

Who Does BioRx/RMIS Help?

- Pharmacists
- Pharmacy Technicians
- Delivery Drivers
- Administrators
- Accounting & Billing Staff

Explore Software Support Plans



BioTrax QMS — Radio-isotope Production Quality Management System

Electronic inventory tracking and batch record maintenance for radio-isotope producers — enables streamlined, paperless cGMP compliance (21 CFR Parts 11, 210, 211, 212; USP 823). Integrates central document repository, raw material tracking, production, training, equipment, and facilities management. Minimizes human error; ensures regulatory compliance.

Key Features

- FDA-compliant regulatory reporting at the click of a button
- Electronic document repository with full revision and signature history
- Barcode inventory management; batch record creation and digital linking
- Training management: employee exams, passing scores, media association, admin review
- Equipment certification tracking; system message reminders for all compliance tasks

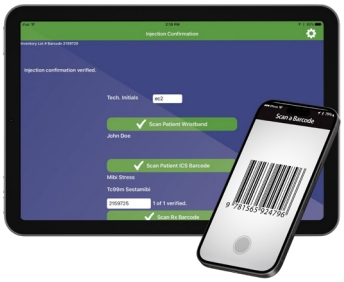
Who Does BioTrax QMS Help?

- Pharmacists
- Cyclotron Engineers
- Administrators
- Radiochemists
- Technicians
- Production Management



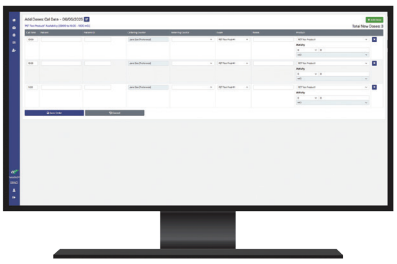
BioPointe

Mobile delivery logistics complement BioRx/RMIS. Barcode scanning verifies all cases are loaded and delivered to the correct customer. Wirelessly transmits delivery confirmation information and time to BioRx/RMIS.



DoseSecure

Integrated with NMIS. Tablet/phone scans patient wristband barcode, dose label, and Rx label to confirm right dose is administered to right patient. No ePHI stored on device. Auto-updates NMIS records.



WebOLO™ Online Ordering

Connects nuclear medicine and molecular imaging departments to their local pharmacy for secure dose ordering from the web or mobile app. Orders transmitted are encrypted and secure to meet HIPAA requirements; confirmation includes drug, activity, and calibration time.

Health Physics for Healthcare

Available Through Mirion Medical Companies: Capintec & Sun Nuclear

Health Physics for Healthcare solutions enable radiation monitoring in healthcare applications — a critical aspect of safety and compliance for all facilities using radiation in patient diagnosis and care.



DMC 3000™ Personal Electronic Dosimeter

Active personal dosimeter for immediate feedback in radiological environments.

Compact, robust active dosimeter for hospitals, research facilities, diagnostic imaging, and radiation therapy centers. Can be worn alongside personnel dosimetry badges for incremental dose estimates during interventional procedures. 9-month battery life under typical use.

Key Features

- Dual detector: high-energy gamma/>50 keV X-ray and low-energy X-ray down to 15 keV
- Accuracy: ±5%; dose rate range 0.05 µSv/h to 20 Sv/h
- Configurable alarms; user-friendly display; built-in memory
- Expandable with optional Bluetooth, beta, or neutron modules

NOM001158-AS	DMC 3000 Electronic Dosimeter (Sieverts units)
NOM001158-AR	DMC 3000 Electronic Dosimeter (rem units)
NOM007655	Optional Bluetooth Communication Module
NOM001230	Optional Beta Module — Hp(0.07) dose extremity
NOM001229	Optional Neutron Module — Hp(10)
150534	DMC 3000 Desktop Reader
150534	DMC User Configuration Software (requires 150534 DMC Reader)



RDS-Med™ Hand-Held Survey Meter

Precise monitoring of isotopes and ionizing radiation for healthcare environments

Versatile hand-held survey meter for nuclear medicine, radiopharmacies, hot labs, and diagnostic imaging. Detects gamma and X-rays with optional alpha, beta, and neutron probes. Clear display with alarm levels; lightweight ergonomic design with belt clip and wrist strap for hands-free operation.

Key Features

- Detects gamma and X-rays (48 keV–1.8 MeV); external probes add alpha, beta, neutron capability
- Dose rate range: 0.05 µSv/h to 100 mSv/h; dose range: 0.1 µSv to 10 Sv
- Warning and alarm levels for rapid contamination or dose rate detection
- Compatible with Mirion GMP-12/GMP-25 probes and full CSP™ probe range

1233-343	RDS-Med S (Sieverts units)
1233-344	RDS-Med R (rem units)
1233-345	CSW-Med software configures RDS-Med Survey Meter
NOM006819	External CSP probe holder for one hand operation
NOM007742	Neutron Dose Probe ("rem ball")
1233-279	Pancake probe alpha, beta, gamma, and X-ray monitoring
NOM006274	Alpha/Beta 100 cm² Frisker Probe



RDS-Med™ Radiation Monitoring Alarm Box

Immediate, clear alerts for maintaining radiation safety standards in medical facilities.

Fixed-installation area monitor using the RDS-Med Survey Meter as primary detector. Transparent cover provides at-a-glance readings; modular design accepts external dose rate and contamination probes. Battery backup ensures uninterrupted monitoring. Powered by 85–240 VAC.

1233-343	RDS-Med Survey Meter
1233-300	Area Monitor base/holder without RDS-Med meter (includes base for optional signaling sets)
1233-301	Optional light-stack signaling set (fixed on top of casing)
1233-302	Optional light-stack signaling set with wall mounting bracket and 10 m extension cable

** RDS-Med Survey Meter sold separately*



GMP-15S™

Compact, cable-free contamination monitoring and frisking. Pancake-style GM detector snaps onto any RDS-32 survey meter for one-handed, cable-free contamination surveys. Calibration stored internally — interchangeable between RDS-32 meters without recalibration. Simultaneous contamination and dose-rate readings. Drop-proof from 1 m onto concrete.

Key Features

- True plug and play; switch between RDS-32 meters without recalibration
- Dual readout: simultaneous contamination and dose rate
- Detects alpha, beta, and gamma; compliant with IEC 60325 and ANSI 42.17A

1233-343	RDS-Med Survey Meter
1233-355	GMP-15S
1233-345	CSW-MED Software for the RDS-MED

** RDS-Med Survey Meter sold separately*



IC3™ Portable Ion Chamber Survey Meter

Exceptional gamma, beta, and X-ray measurement for radiological compliance.

Battery-operated auto-ranging vented ion chamber; no desiccant required. Wide dose rate range up to 100 Rad/hour — valuable in open systems where beta levels may exceed 50 Rad/hour of most chambers. Accurately measures dose to pulsed X-rays down to 50 nanoseconds; ideal for X-ray and NDT safety applications.

Key Features

- Measuring range: 1 µSv/h to 1 Sv/h (0.1 mR/h to 100 R/h)
- Accuracy: ±10% of reading
- Energy dependence: better than ±20% from 20 keV to 3 MeV
- Color TFT display, 3-digit auto-ranging
- Weight: 1,000 g (2.2 lb) with batteries

BAK-0274 IC3 Portable Ion Chamber Survey Meter



RDS-80™ Surface Contamination Meter

Versatile contamination detector for nuclear medicine and radiopharmaceutical development

Digital hand-held meter detecting alpha, beta, and gamma/photon (5 keV–3 MeV) contamination. Stores measurements as histogram events in internal memory. Battery life exceeds 2,000 hours.

Key Features

- Measurement range: 1–100,000 cps (0.01–1,000,000 Bq/cm²)
- Over 2,000-hour battery life on 2 AA alkaline batteries
- Lightweight at 330 g (0.73 lbs) with batteries

1233-245	Model RDS-80 with SI display units (Bq/cm² and cps)
1233-254	RDS-80A with USA display units (DPM and CPM)

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From dose preparation to administration, our **Nuclear Medicine** solutions enhance safety and accuracy for life-saving imaging and therapy.



CAPINTEC

Made Better to Support Better Patient Care

Engineered for performance and designed for users, our **Medical Imaging** tables deliver lasting value and quality patient experience.

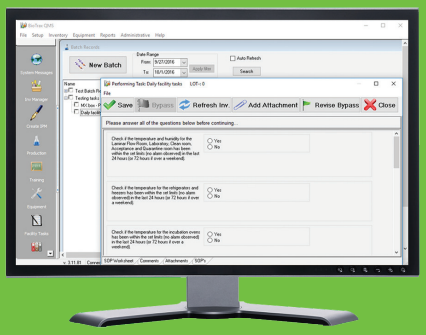


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Our **Nuclear Medicine and Molecular Imaging software** solutions simplify workflows and reduce errors to create streamlined operational processes for the radiopharmaceutical field.

ec² SOFTWARE



Delivering Better Tools for Safer Workspaces

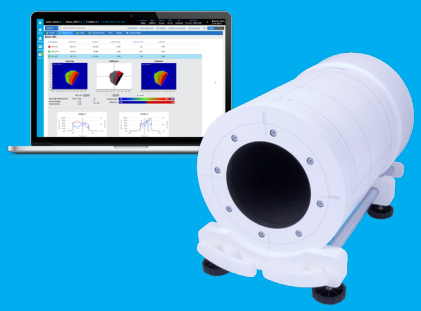
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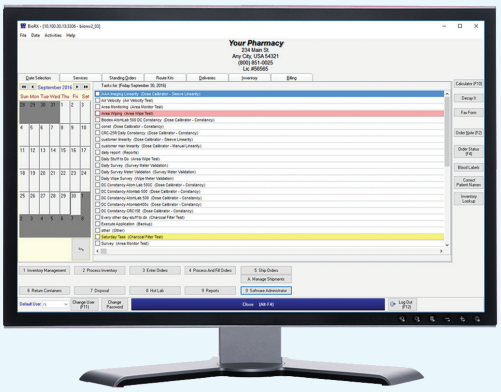
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