

# ThyroWiz™

Thyroid Uptake System



*“Smart Mechanics, Accurate Uptake,  
Seamless Workflow”*

With a novel spring-loaded arm and proprietary AF™ stabilization technology, ThyroWiz™ delivers unmatched precision and usability in thyroid uptake assessments—designed for clinics where accuracy and space both matter.



ThyroWiz™ Plus

The ThyroWiz™ thyroid uptake system is a precision-engineered solution for quantitative thyroid function assessment, combining mechanical innovation with advanced signal processing.

Featuring a patented detector arm design and a built-in Attenuation Filter (AF™), ThyroWiz™ ensures stable positioning, reproducible geometry, and high-confidence I-123/I-131 uptake measurements.

At the heart of the system is a true digital multi-channel analyzer (MCA), equipped with a 32-bit RISC processor for fast ADC, gain stabilization, and seamless data communication via USB-II.

Its compact footprint and optional wall-mounted configuration make it ideal for departments with limited space, while the user-friendly software guides operators through calibration, quality control, and reporting—all with intuitive step-by-step instructions.



ThyroWiz™ Wall

## ❖ Specifications

Detector	Nal(Tl) (2x2 inch)	MCA	32 bit RISC, ARM <sup>®</sup> Cortex™-M3
Energy range	20 - 1000 keV	Resolution	6.5% ± 1% @ 662keV(Cs-137)
Dimension	1220(W)×600(D)×1780(H) mm (PLUS) 720(W)×130(D)×1050(H) mm (WALL)	Weight	PLUS : 110kg(242lb) WALL : 45kg(99lb)
Maximum count rate	150 kcps	Power	Standard 100-240V 50/60 Hz
Calibration	Cs-137 10 uCi (2.54×0.254 cm) uncollimated	Optional items	Well counter, Thyroid Phantom, Attenuation filters

## ❖ Key Features

### EASY OPERATION AND MANEUVERABILITY

The perfect balanced spring-loaded scissor arm enables the movement of the detector head to be smooth and effortless. Additionally, the combination of 4 hinges and 3 rotational joints provide trustworthy placement of maneuverability.

### MEASUREMENT OF HIGH RADIATION FLUX

The patent pending AF (attenuation filter) technology enables the system to measure virtually any amount of incoming radiation without signal pile-up and saturation. For example, being equipped with the appropriately designed AF, the ThyroWiz™ device can measure administered activity of 5-10 mCi of 99mTcO<sub>4</sub> which corresponds with a thyroid scan dose.

### ERGONOMIC DESIGN & SMALL FOOTPRINT

The system integrated digital MCA and DAQ eliminates the need of desk-top based PCI cards for data acquisition. Ergonomic and small footprint design becomes easier with a lap-top computer. By option, customer can choose the ThyroWiz™-Wall model for extremely limited spaces.

### USER FRIENDLY APPLICATION SW & GUI

Specifically designed application software and graphic user interface for the way a user takes thyroid uptake, calibration, quality control and imaging protocol, has all been designed to maximize operational efficiency and convenient.