

## Model 06-526 RAD-CHECK® PLUS

The Model 06-526 RAD-CHECK® PLUS is a rugged, miniaturized system for making routine checks of x-ray exposure and exposure rate. Though priced much lower than equipment producing comparable results, its reliability, accuracy and ease of operation warrant its use in any QA program. This compact instrument consists of an electrometer with display electronics and a built-in ion chamber in one compact package.

Operation is simple: Just place the instrument on the x-ray table, collimate the beam to the detector using the visible light beam, make an exposure and read the results.

### Applications

- ▶ **Fluoroscopy Exposure Measurements**  
These are needed to check equipment calibration, operation of the automatic brightness system, and to determine that the maximum exposure rate is within the legal limits.
- ▶ **Exposure Checks - Radiographic (mR/mAs)**  
Regular radiography output checks to assure that the radiation output has not changed due to aging, drift, component failure or miscalibration.
- ▶ **Beam Quality - Half Value Layer (HVL)**  
The beam quality check determines whether the filtration is at least the minimum required by law. This filtration is needed to reduce patient exposure from the low energy portion of the x-ray energy spectrum.
- ▶ **mAs Reciprocity - mA Station Checks**  
At a given kVp, the mR/mAs values obtained should be reproducible and independent of particular values of mA and time used.



### Features:

- ▶ Low cost
- ▶ Fast, easy to use
- ▶ Accurate
- ▶ Automatic reset
- ▶ Optional remote detectors

### Specifications

- Range:** Exposure: ..... 0.001 to 1.999 R  
Rate: ..... 0.01 to 19.99 R/min
- Display:** ..... 3-1/2 digit LCD, 0.5 in high
- Energy response:** ..... ±5% 15-65 keV (30-150 kVp filtered)
- Reproducibility:** ..... Within 2% short term over 100 mR to 2 R
- Electrometer drift:** ..... 0.5 to 1 mR/min typical, 6 mR/min max.
- Ion chamber volume:** ... 30 cc nominal
- Sensing area:** ..... 5.1 cm dia., 20.5 cm<sup>2</sup>
- Controls:** ..... On-Off, Dose/dose rate, Auto/manual reset, Integral/remote detector, Display zero reset
- Power:** ..... 9 V alkaline battery, NEDA 160 4 A,
- Battery life:** ..... 100 hours, low-battery indicator in display
- Dimensions:** ..... 6.9 cm high, 15.2 cm wide, 15.9 cm deep  
2<sup>3</sup>/<sub>4</sub> x 6 x 6<sup>1</sup>/<sub>4</sub> in)
- Weight:** ..... 0.51 kg (18 oz)

### Accessories

- 303 3 cc ..... mammography ion chamber
- 6000-528 30 cc ..... radiographic ion chamber
- 6000-530B 150 cc ..... plane-parallel ion chamber for energy response
- 89-525 ..... carrying case