

ACCU-PRO™



Basic and advanced Dose and kVp functions with mAs. For Radiography, Fluoroscopy, Mammography, CT, Dental, and Survey.

Increased Productivity

- Intuitive use, quick setup, small footprint, convenient portability.
- **Ion chambers** for critical acceptance testing and dose diodes for QA consistency tests.
- Flash HVL, beam hardness, scatter and leakage, non-invasive mAs.

Accuracy and Confidence

- “Gold Standard” ion chambers used and trusted by professionals worldwide for over 30 years.
- Auto-ranging, hardness corrected FFT kV™. Accurate kVp for AMX4+ and AMX 700 portables.
- New Accu-Dose™ miniature 24 bit digital electrometer for both dose and time.

Value

- Basic and advanced function choices add utility at no extra cost. Transforms into survey meter.
- Easy upgrades: we invented expand-as-you-grow-sensors and firmware for x-ray diagnostics.
- Backward compatibility with 10x5 and 10x9 series Radcal ion chambers.
- Radcal designed for durability: 30+ years of know-how.

See **back page** for ACCU-PRO™ plug-and-play sensor user options.

Ion Chamber Dose Sensors

Calibration Accuracy ± 4 %, Energy Dependence ± 5 %. Filtration dependence - none. Plug-and-play.

10X6-6 - ✓ The General Purpose, in Beam Chamber **A**

A well documented wide dynamic range chamber with many dose and rate applications.

10X6-6M - The Dedicated Mammography Chamber **B**

A world standard. No corrections necessary for present or future tube target material or filtration.

10X6-60 - ✓ The 'Service' Chamber **C**

The thin profile makes it ideal for low input dose at an image receptor and many other uses.

10X6-3CT - The Chamber for Computed Tomography Dose Index (CTDI) **D**

Another industry standard sensor.

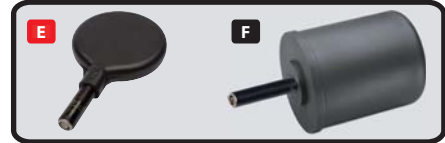
10X6-180 - The Leakage and Low Level Measurements Chamber **E**

For leakage measurements. Cross-section of 100 cm². Also for very low dose to image receptor.

10X6-1800 - The Radiation Protection Chamber **F**

For very low-level radiation measurements such as shielding, leakage, and environmental. Superior to typical survey meters for accuracy.

✓ Recommended for starter kit configuration.



Diode Dose Sensors

Calibration Accuracy ± 5%, Energy dependence and Filtration dependence: see below.

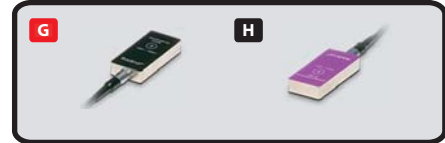
DDX10-W - ✓ The Diode Dose Sensor for Diagnostic range measurements **G**

Energy dependence ± 5 %, 40-150 kV at 2.5 mm Al. Filtration dependence + 5 % to -10 % for 2.5 to 23 mm Al.

DDX10-M - The Diode Dose Sensor for Mammographic range measurements **H**

Energy dependence ± 5 %, 20-40 kV, 25-35 μm Mo. ± 5 % 25-35 kV 30 μm Mo + 2mm Al ± 10% 22-40 kV, 30 μm Mo + 2mm Al.

✓ Recommended for starter kit configuration.



FFT kv Sensors with Flash HVL

Calibration Accuracy: Diagnostic, ± 1 kV or ± 1 % whichever is largest; Mammo ± 0.5 kV.

40X12-W Accu-kV - ✓ The sensor for Diagnostic range (40 kV to 160 kV) measurements **I**

Auto compensation for beam hardness (add ± 1 % when on). Inherently correctly reads AMX4+ and AMX700 portables. Flash HVL: ± 0.3 mm Al and ± 10% of reading, 1-23 mm total equivalent thickness Al, 40-160 kVp

40X9-M Accu-kV - The Sensor for Mammographic range measurements **J**

This sensor is specifically designed for Mo-Mo mammographic beams.

✓ Recommended for starter kit configuration.



mA, mAs Sensors

Calibration Accuracy: see below.

90M9 Invasive Sensor **K**

Accuracy ± 0.2 % mA, 5 μs or ± 0.2% mAs (1 s pulse).

90M10 Non-Invasive for mA, mAs sensors **L**

Accuracy ± 4 % mA, ± 4 % mAs, RMS noise 0.5 mA.



Measurement Functions

Built-in digital display or computer display with optional XLPRO software.

Dose, R or Gy

Auto Dose
Dose Accumulate/Hold
Last Dose

Dose Rate, R or Gy

Dose Rate
Max Dose Rate
Dose / pulse (Fluoro)

kV

kV peak, kV average, kV practical for:
pulse (single exposure), fluoro, and
dental.

Time

Seconds
Minutes
Hours

mA

mA
mAs

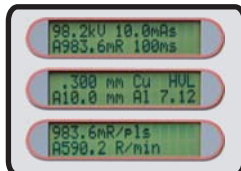
Beam Quality

Filtration (Al and Cu equivalents)
HVL

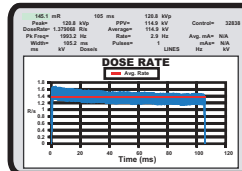
Other Features

Single exposure multiple data displays, XLPRO software, and Portability.

The ACCU-PRO™ captures multiple data in one exposure and shows these in three scrollable display screens.



XLPRO software for auto data capture, waveforms, modifiable templates and remote control.



ACCU-PRO™ cases afford convenient and easy portability especially for the air traveler.

