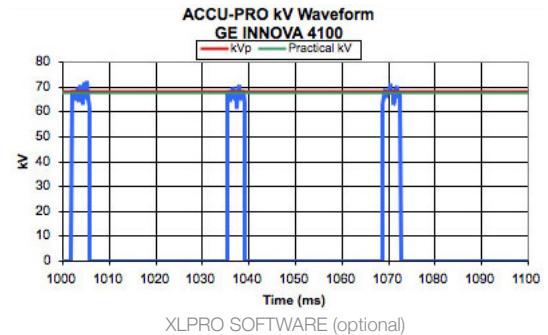


# Radcal

# ACCU-kV

**Solutions** - for all your measurement needs

## The System that Checks all the boxes ✓



Data Display Examples

**For Radiography, Fluoroscopy, Mammography,  
CT, and Dental.**

**INCREASED PRODUCTIVITY** - Easy use, quick setup, convenient portability-all in one compact system.


**VERSATILITY AND ACCURACY** - Basic and advanced measurement functions for Critical Acceptance Testing and QA consistency tests.

**SENSOR SELECTION** - ACCU-kV kV sensors and Invasive/Non-invasive mA/mAs sensors, for all your measurement needs.

**NEW !** - Now calibrate Hologic Selenia W-Rh, Ag tube kVp's. And, be sure to use our proven 10X6-6M ion chamber for dose with all anode - filter tube combinations, current and future.

# ACCU-kV

FUNCTION	kV-mA-mAs meter - 4086
Exposure Time	✓
* kV (filtration correction)	✓
* Flash HVL	✓
* Beam filtration	✓
mA / mAs	✓
Optional XLPRO Software	✓
Sensor options	• kV Sensors • mA/mAs Sensors • XLPRO Software



\* For 40X12-W Sensors only

**THE GOLD STANDARD IN RADIATION MEASUREMENT**

# ACCU-kV KEY FEATURES AND BENEFITS:

## KEY FEATURES

### Simultaneous Measurements

### FFT kV

### Flash HVL

### mA/mAs

### Data Capture Software

### Plug and Play Sensors

## BENEFITS

Measures kVp or kV Average or PPV, Time, mA/mAs

Accurate kVp measurements for AMX4+ and AMX 700 portables

Displays HVL and beam filtration for Diagnostic kV sensor range

Invasive and Non-Invasive sensor options

Auto data capture, waveforms and templates

Sensors are interchangeable with any Accu-kV and Accu-Pro

## CONFIGURATION EXAMPLE / kV SENSOR



## FFT kV SENSORS with FLASH HVL (diagnostic range)

Calibration Accuracy: Diagnostic,  $\pm 1$  kV or  $\pm 1$  % whichever is largest; Mammography  $\pm 0.5$  kV.



### 40X12-W Accu-kV

The sensor for Diagnostic range (40 kV - 160 kV) measurements. Besides kVp, also measures, displays, and compensates for beam hardness (add  $\pm 1$  % when on). Inherently correctly reads AMX4+ and AMX 700 portables. Flash HVL:  $\pm 0.3$  mm Al and  $\pm 10$  % of reading, 1 mm - 23 mm total equivalent thickness Al, 40-160 kVp.



### 40X9-Mo Accu-kV

The sensor for Mammographic range measurements. This versatile sensor is designed for 0.5 kV accuracy for Mo-Mo mammographic beams. It may also be used at  $\pm 1$  kV accuracy for Tungsten-Silver / Rhodium tubes on Hologic Selenia mammography machines.

## mA / mAs SENSORS

Calibration Accuracy: see web page for complete specifications.



### 90M9 Invasive Sensor

(requires kV sensor to be in beam)

The mAs sensor connects to the 4-pin DIN connector labeled mAs of the model 9096 (Accu-Pro) or 4086 (Accu-kV). The interconnecting cable is a standard S-Video cable.



### 90M10 Non-Invasive Sensor

(requires kV sensor to be in beam)

The mAs sensor connects to the 4-pin DIN connector labeled mAs of the model 9096 (Accu-Pro) or 4086 (Accu-kV). The interconnecting cable is a standard S-Video cable. The mAs sensor couples to the x-ray generator by clamping to the x-ray generator HV cables. The 90M10 will clamp cables up to 23mm in diameter.

## SPECIFICATIONS / TECHNICAL DATA:

### 40X12-W Accu-kV

Range: 40 kV - 160 kV, 2.5 mm Al  
Accuracy:  $\pm 1$  kV or 1%  
Repeatability:  $\pm 0.2$  kV  
HVL: 1 mm - 23 mm Al ( $\pm 10\%$   $\pm 0.3$  mm Al)

### 40X9-Mo Accu-kV

Range: 22 kV - 40 kV, 30  $\mu$ m Mo  
Accuracy:  $\pm 0.5$  kV  
Repeatability:  $\pm 0.1$  kV  
  
Range: 22 - 39 kV, Hologic Selenia with W anode/Rh filter  
Accuracy:  $\pm 1$  kV  
Repeatability:  $\pm 0.2$  kV

### 90M9 Invasive Sensor

(requires kV sensor to be in beam)

Full-scale: 2000 mA or 9999 mAs  
mA accuracy: 0.2% of reading at dc plus resolution of  $\pm 0.015$  mA or 3-4 digits  
mAs accuracy (1-s pulse): 5  $\mu$ As or 0.2 % of reading; resolution of 0.001 mAs

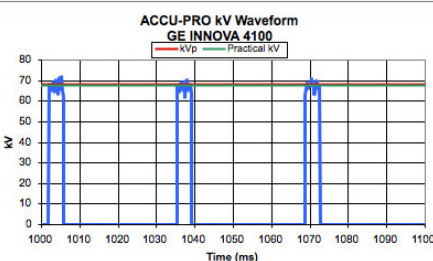
### 90M10 Non-Invasive Sensor

(requires kV sensor to be in beam)

Full-scale: 0-2000 mA or 0-9999 mAs  
  
mA accuracy:  $\pm 4\%$  of reading (Limited by 0.7mA RMS noise below 18mA)  
mAs accuracy (1-s pulse):  $\pm 4\%$  of reading, (Limited by 0.7mA RMS noise below 18mA)

All specifications subject to change.

## XLPRO SOFTWARE



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

## NEW COMPACT CARRY CASE

