



# Model UXI kVp, mAs, Dose Meter

## With exposure time measurement

### Features

- Measures kVp, kVeff, mA, mAs, exposure time, dose, dose rate, HVL, number of pulses
- Easy to use
- kV measurement is noninvasive
- AC or DC x-rays
- High accuracy
- mA invasive or non-invasive (option)
- Two year warranty

### USB Tablet Display

- 8 inch Tablet display for reading outside x-ray room
- Tablet holds stored readings
- Export data to spreadsheet
- Email or transfer data to computer
- Display graph of x-ray waveform



OPTIONAL NON-INVASIVE MA PROBE

### Typical Applications

- Verification of peak x-ray voltage
- Constancy checks
- Calibration of x-ray
- Quality assurance
- Measurement of exposure time
- Half value layer determination
- Troubleshooting and repair of x-rays
- Maintain quality of x-ray

### Description

- kVp measures the effective and peak x-ray accelerating voltage from tungsten x-ray generators
- mA measures x-ray tube current
  - › non invasive current clamp option
- Dose measures the radiation output over an area
- Works with Dental, radiographic and fluoroscopic x-rays
- Place unit in x-ray beam to measure kV, dose, dose rate, Half-Value Layer (HVL), pulses, and exposure time. See readout and graph on tablet.
- Comes with protective carry case



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# Specifications for kV Measurement

## Radiology Mode

### kVp RANGE

- 50 to 125 kV
- 40 to 320 mA

### kVp and kVeff Accuracy

2% +/- 1 kV for Tungsten target x-ray tube with 1 to 3mm 40" suggested height Aluminum equivalent filtration.

## Dental Mode

### kVp RANGE

- 40 to 90 kV
- 10 to 25 mA

### kVp and kVeff Accuracy

2% +/- 1 kV for Tungsten target x-ray tube with 1 to 3mm 22" suggested height Aluminum equivalent filtration.

### MINIMUM EXPOSURE TIME FOR kV RDG

10 ms

### EXPOSURE TIME ACCURACY

- 1% +/- 2 millisecond (1 ms to 4 sec)
- Minimum exposure time
  - 1 ms

### MINIMUM X-RAY CURRENT (mA)

- 9 mA at 40 kV,
- 16 inches from x-ray

## General Specifications

### RANGE

- 1A Full Scale

### DISPLAY

- 8" Tablet

### CONTROLS/INDICATORS

- 8 inch Nexus II Tablet Display
- 14 foot USB cable (4 meters)
- Remote operation via USB

### POWER

- USB powered via tablet (rechargeable)

### BATTERY LIFE

- Battery length with the tablet is 5 hours
- Unit comes with a 2A/AC charging adapter

### WARRANTY

- 2 years from ship date for unit
- Separate warranty for tablet through manufacturer

### UNIT PHYSICAL SIZE

- 73 x 116 x 27 mm
- 2.9 x 4.6 x 1.0 inches

### WEIGHT

- 200g, (0.5 lb)

## Specifications for mA

### RANGE

- 1A Full Scale
  - 2 mA - 1000 mA
  - 1 Ohm Input impedance
  - 0.1 mA resolution

### mA ACCURACY

- 2% +/- 1 mA

### mA CONNECTION

- Via a 5-meter cable with two banana / alligator clips

## Specifications for Dose

### DOSE RANGE

- 8mR-400mR
- 0.08 mGy-4 mGy

### DOSE ACCURACY

- 5% +/- 2 mR

## Optional Non-Invasive mA Probe

### RANGE

- 1A full scale
- 0.1 mA resolution
- 25 mA - 1000 mA

### mA ACCURACY

- 3% +/- 1 mA

### ORDERING INFORMATION

Model UX1 Combines kVp, mA, Dose meters into one instrument, supplied with 8" tablet and carry case.

### ABOUT ECC:

Established in 1994, ECC products are known for their quality, reliability, and value. Our meters are sold in over 40 countries and to various military installations.



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