



# Kvp, mAs, Dose, and Exposure Time Meter

Model UXI

## FEATURES

- Measures kVp, kVeff, mA, mAS, exposure time, dose, HVL
- 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

- 7 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

## 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



## Electronic Control Concepts

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## SPECIFICATIONS FOR kV MEASUREMENT

### **Radiology Mode**

#### **kVp RANGE**

50 to 125Kv  
40 to 400mA

#### **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 90Kv  
10 to 32mA

#### **kVp and kVeff ACCURACY**

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

### **MINIMUM EXPOSURE TIME FOR kV RDG**

1 10 ms

### **EXPOSURE TIME ACCURACY**

- 1% +/- 2 millisecond (1ms 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

### **DISPLAY**

- 7" (177.8mm) Tablet

### **CONTROLS/INDICATORS**

- 7 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

### **PHYSICAL SIZE**

73 X 116 X 27 mm  
2.874 X 4.567 X 1.063 inches

### **WEIGHT**

200g, (0.5 lb)

## SPECIFICATIONS FOR DOSE

### **DOSE RANGE**

1.6 R/min to 185 R/min  
16 mGy/min to 1850 mGy/min

### **DOSE ACCURACY**

5% +/- 2 mR

## SPECIFICATIONS FOR mA

### **RANGE**

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

### **mA ACCURACY**

2% +/- 1 mA

### **mA CONNECTION**

Via 5 meter cable with two banana / alligator clips

## OPTIONAL NON-INVASIVE mA PROBE

### **RANGE**

1A full scale  
0.1mA resolution  
10mA - 600mA

### **mA ACCURACY**

3% +/- 1 mA

## **Electronic Control Concepts**

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