



Kvp, mAs, Dose, and Exposure Time Meter Model UX1

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
 PO Box 182, 1160 US Route 50
 Milford, Ohio 45150-9705 USA
 Phone: 800-VIP-XRAY

Fax: 845-247-9028
 sales@eccxray.com | www.eccxray.com
 A Division of US Nuclear Corp
 www.usnuclearcorp.com

Specifications for kV Measurement

Radiology Mode

kVp RANGE

- 50 to 125Kv
- 40 to 400mA

kVp & 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 & 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 10ms

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)

POWER

- Internal 9 Volt Battery
- Low battery indicator

BATTERY LIFE

- 120 hours continuous
- Typically 1 year of normal use

PHYSICAL SIZE

- 80 X 147 X 40 mm
- 3.15 X 5.8 X 1.6 inches

CONNECTIONS

- None required for direct x-ray exposure measurement
- 2 Tip Jacks for AC input

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

PO Box 182, 1160 US Route 50
Milford, Ohio 45150-9705 USA
Phone: 800-VIP-XRAY

Fax: 845-247-9028

sales@eccxray.com | www.eccxray.com

A Division of US Nuclear Corp

www.usnuclearcorp.com