

Model 245 Digital kVp Meter

The Model 245 is designed to simplify your daily constancy checks of kV for mammographic, radiographic and fluoroscopic systems. It is a compact kVp meter that fits in your hand, but it is capable of highly accurate measurement of radiographic and fluoroscopic kV measurement from 50 to 150 kV and mammographic measurements from 25 to 35 kV. The Model 245 features internal correction for various target/filter combinations that are found in modern mammographic equipment such as moly/moly, moly/ rhodium, moly/aluminum, moly/palladium, rhodium/rhodium, rhodium/aluminum and tungsten/aluminum.

kV reproducibility determination is conveniently performed by virtue of an automatic reset and a memory that stores up to 10 measurements. A remote LCD readout makes fluoroscopic readings easy to obtain.

For the user who may want to view the kVp waveform, a BNC connector provides analog signal output to a digital or a storage-type oscilloscope.

Features:

- ▶ Accuracy and convenience in one small, economical package
- ▶ One meter measures radiographic, fluorographic & mammographic kV
- ▶ Internal correction factors for mammographic target/filter combinations
- ▶ Memory stores up to ten readings
- ▶ Remote LCD display makes fluoroscopic measurements easy to obtain
- ▶ Optional analog waveform output to oscilloscope



Specifications

Modalities:	Mammographic, radiographic, fluoroscopic
kV range:	
Displayed:	22 to 200 kV
Calibrated mammo:	25 - 35 kV
Calibrated radio/fluoro:	50 - 140 kV
Accuracy:	
Mammo:	±1 kV + 2%
Radio/fluoro:	±2% or 1 kV
Reproducibility:	
Mammo:	±0.3 kV
Radio/fluoro:	±0.5 kV
Resolution:	±0.1 kV
Minimum exposure requirement:	
Mammographic:	80 mA, 24 kVp at 25 in
Radiographic:	25 mA, 60 kVp at 24 in
Fluoroscopic:	3 mA, 80 kVp at 18 in
Required exposures:	one
Target/filter comb.:	Mo/Mo, Mo/Ro, Mo/Al, Mo/Pd, Ro/Ro, Ro/Al, W/Al
Display:	3-1/2 digit LCD
Waveform:	coaxial BNC connector
Power:	one 9 V alkaline battery
Dimensions:	10 cm W x 19 cm D x 5 cm H (4 x 7.5 x 2 in)
Weight:	0.58 kg (21 oz)