

GiCi MammoCal 4200M

High Voltage Divider

For Lorad™ and Similar Mammographic X-Ray Generators

Prototype



March 24 ,2006

Finally, a small, light weight, accurate and convenient to use instrument for the calibration of mammographic x-ray generators! The size of a non-invasive, the accuracy of a voltage divider!

The GiCi MammoCal 4200M is a compact instrument for the calibration of Lorad and similar mammographic x-ray generators. It has a ten foot attached cable that plugs into the test well of the generator, and a safety ground clip. It has a built in 4.5 digit LCD display for direct reading of the average KV. The meter has a hold feature that grabs the reading after a one second exposure, and keeps it displayed for 10 seconds.

There is a BNC output jack for direct connection to an oscilloscope. The internal voltage divider is frequency compensated, and extremely linear and accurate. Other variations possible.

By combining the voltage divider, meter and cable into a single package, significant savings in weight and cost are realized.

Specifications: (Preliminary data sheet Feb 16, 2006 subject to change)

Operating voltage 0 to 40 KV. Maximum test voltage 50 KV.

Overall accuracy of divider and built in meter better than 0.5%

BNC scope output ratio 10,000:1

Accuracy of divider when measured with 1 meg ohm load, 1%

Weight 5.5 pounds, Dimensions 8.75 x 5.75 x 2 inches

High voltage cable 10 ft long, terminated in banana plug.

Power: Internal NiMH 9V battery. Charger included. Alkaline battery may also be used.

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