Radcal® CORPORATION
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RC6M
LOW ENERGY X-RAY MEASUREMENTS
The RC6M is an unsealed parallel plate 6 cm^3 ion chamber specifically designed for low-energy x-ray measurements. It has a thin entrance window and is suitable for x-ray energies in the range of 10 to 40 keV.

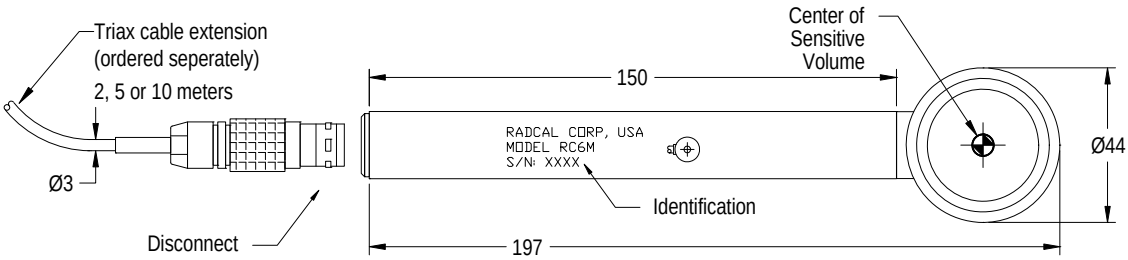
EXPOSURE RATE DEPENDENCE:	<5% to 90 mGy/s
ENERGY DEPENDENCE:	±5%, 10 keV to 40 keV
BIAS:	Nominal +300 VDC (max +600 VDC)
ELECTRICAL LEAKAGE:*	<5e-15A with +300 VDC bias, using 2m triax cable extension
CONSTRUCTION:	Guarded (3-terminal) parallel plate, with 0.7 mg/cm^2 metalized polyester window; polyacetal exterior; nominal 6 cm^3 active volume; 0.08 kg

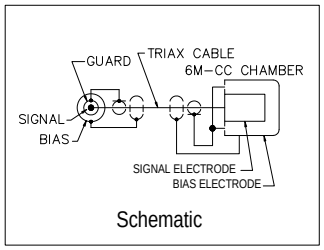
*cable length dependent

Note: Remove red protective cap prior to exposure.

Nominal Chamber Volume and Sensitivity (±10%)

Chamber Model	Volume cm^3	C/mGy 20 °C	C/mGy 22 °C	C/R 20 °C	C/R 22 °C
RC6M	6	2.1E-10	2.1E-10	1.9E-09	1.9E-09





Schematic

Dimensions in millimeters