

**Radcal**  
**Radcal Accu-Gold+**  
**Product Profile**



Radcal is proud to introduce the next generation Accu-Gold+ and Accu-Gold+ Multisensors. Utilizing improved stacked sensor technology allows the new Accu-Gold+ Multisensors to become the smallest footprint solid state sensor on the market today. The Accu-Gold+ Multisensor has been reduced 1/3 of its original size with increased dose/dose rate ranges. Shown in the product picture is the new combined Radiography, Fluoroscopy and Mammography Dual Accu-Gold+ Multisensor. This sensor covers the entire diagnostic range of 40 – 160 kV and 20- 50 kV for mammography. The AGMS-DM+ is simple to use, very accurate and easily fits in the Bucky.

Two additional Multisensors are available along with the Dual AGMS-DM+ sensor. The AGMS-D+ for diagnostic R/F measurements is also available covering the diagnostic range of 40-160 kV with a +/- 2% kV accuracy for 2-24 mmAl, 40-160 kV and +/- 2.5% accuracy from 25-40mmAl added filtration.

The AGMS-M+ for mammographic measurements is available as a separate sensor for the Accu-Gold+ Digitizer. It covers the entire range of 20-50 kV with +/- 2% or +/- 0.7kV accuracy. Calibration ranges for the mammography beam qualities are shown in the following table:



8. kV/hvl/Filtration

Type	Anode/Filter	Tube	Range of Applications		
			kV	Filt (um)	hvl (mm Al)
M+	Mo/Mo	General	21-49	16-44	0.21 -0.50
	Mo/Rh	General	21-49	6-42	0.18 - 0.56
	Mo/Mo	GE	22-48	16-44	0.24 - 0.51
	Mo/Rh	GE	22-48	6-42	0.20 - 0.56
	Rh/Rh	GE	25-48	12-80	0.27 - 0.78
	W/Ag	General	20-38	12-80	0.17 - 0.78
	W/Rh	General	20-38	12-78	0.17 - 0.69
	*W/Al	General	20-50	200-990	0.16 - 1.00
D+	W/Al	General	40-160	2-40 mm	1.3 - 13.5

\* ordered separately

Rounding out the new design is the calibration of the new +sensor family of sensors. Each sensor contains the full calibration data for that sensor. This means that these sensors are interchangeable with other Accu-Gold+ and Rapid-Gold+ Digitizers. These sensors are "Truly Interchangeable" to allow users to borrow their colleagues sensors when necessary.

The newly designed +Digitizers will be offered in 3 versions; the Accu-Gold+ allowing for both solid state and ion chamber sensors and additional accessories; and the Rapid-Gold+ with and without invasive and non-invasive mA inputs. The Rapid-Gold+ is a solid state sensor device only. The Accu-Gold+ and Rapid-Gold+ Digitizers are backwards designed to allow the first generation Multisensors to be used as well.

Provided with the Accu-Gold+ and Rapid-Gold+ Digitizers is the Accu-Gold Software and Template Builder. Combined with the new plus sensors, Digitizers and your laptop, these systems are the most powerful and easiest to use systems on the market today. Why capture your data in another device and then connect to your laptop for further processing? The Accu-Gold+ and Rapid-Gold+ systems connect directly to your laptop for fast data capture and processing. Utilizing the computer's memory and processing power allows the user to view the entire kV, Dose Rate and mA waveforms and up to 16 user's selected measurement values. You choose what you want to see from individual dropdown menus.

The Accu-Gold+: the next Gold Standard in Diagnostic X-ray Meters. Proudly Designed, Made and Serviced in the USA for over 38 years.