Stand–Alone Diagnostic X-ray Measurement System

Stand-alone battery operated radiation test instrument for X-ray Service and QA of Radiography, Fluoroscopy, Mammography, CT and Dental applications

Systems Solutions

The Accu-Gold meter provides a tailored solution to your diagnostic measurement needs by incorporating the largest capacitive touchscreen in the industry for a bright and straightforward user experience. The Touch Series provides the accuracy and reliability you've come to expect from Radcal in an economical package.

• Touch Series - A standard meter with display for quick, easy and reliable measurements.   Ready to use in a flash.

• Touch Professional Series – a meter with display and USB or Wi-Fi capability for extended use with your laptop or tablet computer. Using the Accu-Gold Windows application users are able to access a rich set of advanced capabilities such as automated Excel-based reporting and waveform analysis

Sensor Selection

The Touch series expands on the current Accu-Series of instruments and is available for use as an Accu-Gold+ Touch, Rapid Gold+ Touch and Accu-Dose+ Touch system. The Accu-Gold+ Touch provides access to the full lineup of Accu-Gold sensors, the most extensive line of x-ray quality assurance sensors available. The Rapid Gold+ Touch will be an easy choice for those who prefer solid state sensors alone. If you only need to measure Dose, Accu-Dose+ Touch is a cost effective meter with compatibility to all of Radcal's world class ion chambers.

Current Accu-Gold+ instrument owners can upgrade to a Touch–Pro Series system equipped with a built-in display and wireless connectivity for a fraction of the cost of a new Touch Pro system.

Stand-Alone Instruments

Radcal

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RADCAL TOUCH SERIES COMPATIBILITY AND FEATURES TABLE:

Model Number	Accu-Gold+ Touch AGT–AG	Accu-Gold+ Touch Pro AGT–P–AG	Rapid-Gold+ Touch AGT–RG	Rapid-Gold+ Touch Pro AGT–P–RG	Accu-Dose+ Touch AGT–AD	Accu-Dose+ Touch Pro AGT–P–AD
Functional Compatibility						
Dose	•	•	•	•	•	•
Dose Rate	•	•	•	•	•	•
Exposure Time	•	•	•	•	•	•
Pulse Count	•	•	•	•	•	•
kV	•	•	•	•		
HVL	•	•	•	•		
Filtration	•	•	•	•		
Current (mA)	•	•	•			
Luminance and Illuminance	•	•				
Scatter and Leakage	•	•			•	•
DAP	•	•			•	•
Sensor Compatibility						
Accu-Gold Multi-Sensors (AGMS)	•	•	•	•		
Accu-Gold Ion Chambers (10x6)	•	•			•	•
DAP 60 Chamber	•	•			•	•
Accu-Gold Dose Diodes (DDX6)	•	•	•	•	•	•
DAPChkp+	•	•				
mA and mAs Sensor (90M)	•	•	•	•		
Light Sensor (AGLS)	•					
Computer Features						
Accu-Gold Windows Application		•		•		•
Waveforms	•	•	•	•	•	•
Excel Reporting		•		•		•
iOS and Android Applications		•		•		•
USB Connectivity		•		•		•
Wireless Connectivity		•		•		•

Physical Specifications
Dimensions	114 mm x 92 mm x 158 mm	(4.50" x 3.63" x 6.21")
Weight	700 g	(1.6 lbs.)

Display Specifications
Size	5”
Resolution	800 x 480
Touch Type	Capacitive Touchscreen
Display Type	LCD TFT TN equipped with chemically tempered float glass, Pencil hardness 7H, LED backlighting
Display Orientation	Automatically flips based on screen orientation

Environmental Specifications
Operating temperature	15 °C to 35 °C
Pressure	60 to 105 kPa
Humidity	Up to 80% RH or 20 g/m^3
Storage Temperature	0 °C to +60 °C

Serial Communication Specifications
Flash drive	USB A 2.0
USB mode	USB B 2.0 micro (Touch Pro)

Wireless Communication Specifications (Touch Pro)
Network Standard Support	IEEE 802.11b/g/n
Frequency band	2.400 - 2.472 Ghz, channels 1-11
Antenna power	<10 mW/MHz
Connectivity	Access Point mode
Wireless Security	WPA2 secure encryption
Networking Protocol	TCP/IP IPv4
Regulatory Approvals	EU (ETSI), FCC, IC (Industry Canada), Japan (Telec)

Power Specifications
Battery	5.5 Ah Li-Poly
Battery Life	> 8 Hours under normal usage
Charger	1.7A 5V
Charging Time	<5.5 Hours (maximum to fully recharge)

Measurement Specifications
Sensors	Entire Accu-Gold family of sensors (see separate specifications)
Storage	16 GB (>100,000 exposures)
Application Software	Accu-Gold 2.0 (Touch Pro)

Conformance Specifications
EMC*	EN 61326-1 (2013) Group 1 Class B, EN 61000-4-2, EN 61000-4-3, EN 61000-4-4, EN 61000-4-6, EN 61000-4-5, EN 61000-4-11, EN 61000-3-2, EN 61000-3-3
PERFORMANCE	IEC 61674

Environmental Directives
Compliance with 2002/06/EC (WEEE) Directive.
Compliance with 2011/65/EU (RoHS) Directive.
Compliance with REACH (EC 1907/2006).

* Tested with 3m USB cable