Stand–Alone Diagnostic X-ray Measurement System

010–68940148

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

System Solutions

At T3's core is its unique ability to use profiles. Machine Specific Profiles are used to define the measurement process. They spell out trigger parameters, filtration requirements, the breakdown of the measurement (such as having a scout pulse) and the end of the pulse without user intervention. Special calibrations are built into the profiles eliminating the need to install calibration files. Profile selection allows you to specify different techniques for special measurements. Profiles save time by eliminating manual user settings and often only one exposure is needed. For example, when using the Mammo Combo Mode Profile, with a Single exposure kV, Time, dose, and dose rate are captured for each region. T3's CBCT Profile allows for the capture of DAP, kV and Dose with one exposure. Frequently used Profiles can be saved as favorites.

- T3 Touch Series - A standard meter with customizable display for quick, easy and reliable measurements. Ready to use in a flash.
- T3 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 Selections

The T3 series expands on the current Accu-Series of instruments and is available for use as an Accu-Gold+ T3, Rapid Gold+ T3, and Accu-Dose+ T3 system. The Accu-Gold+ T3 Touch provides access to the full lineup of Accu-Gold sensors, the most Dynamic line of x-ray quality assurance sensors available. The Rapid Gold+ T3 will be an easy choice for those who prefer solid state sensors alone. If you only need to measure Dose, Accu-Dose+ T3 is a cost-effective meter with compatibility to use all of Radcal's world class ion chambers and solid-state dose diodes.

Current Accu-Gold+ instrument owners can upgrade to a T3 Pro Series system equipped with a built-in display and wireless connectivity for a fraction of the cost of a new T3 Pro system.

Stand-Alone Meter with Display or Computer Connectivity

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RADCAL T3 SERIES COMPATIBILITY AND FEATURES TABLE:

	Accu-Gold+		Rapid-Gold+		Accu-Dose+	
Model Number	T3 AGT3–AG	T3 Pro AGT3–P–AG	T3 AGT3–RG	T3 Pro AGT3–P–RG	T3 AGT3–AD	T3 Pro AGT3–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)
T3 Pro Application Software	Accu-Gold 3.0 (USB mode/WiFi mode) Accu-Gold 2.0 (USB mode)

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).

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