

2026C Dosimeter - has been the choice for many applications



*Decades of Reliability
and now you can Upgrade!*

For Radiography, Fluoroscopy, Mammography,
CT, Dental, and Survey.

SENSORS - "Gold Standard" Radcal Ion Chambers.

APPLICATIONS - For use with medical physics, X-ray service, radiation protection, plus low and high dose rate applications.

VERSATILITY - Linear energy response means no corrections for energy regardless of filtration or tube target material (within specified sensor energy range). Option-P: Automatic pressure compensation. Automatically detects and corrects for variations in barometric pressure, recommended for mountainous regions and other high altitude measurements.

Broad Dynamic Range: covers 0.1 mR/hr (1 μ Gy/hr) resolution to 10 kR/min (90 Gy/min) maximum.

UPGRADES - Radcal's newest models 2086 / 2186 also use Radcal's Gold Standard Ion Chambers.

	2026C	ACCU-DOSE	ACCU-DOSE
	Dosimeter - 2026C	Dosimeter - 2086	Dosimeter - 2186
FUNCTION			
Dose Accumulate Hold	✓	✓	✓
Dose Rate	✓	✓	✓
Auto Dose			✓
Last Dose			✓
Max Dose Rate			✓
Pulsed Cine			✓
Pulsed Cine with Auto Sense			✓
Exposure Time			✓
Auto Temperature Correction	✓	✓	✓
Auto Pressure Correction	Optional	✓	✓
Optional XLPRO Software			✓
Sensor options	<ul style="list-style-type: none"> • Ion Chambers 	<ul style="list-style-type: none"> • Ion Chambers • Dose Diodes 	<ul style="list-style-type: none"> • Ion Chambers • Dose Diodes • XLPRO Software

THE GOLD STANDARD IN RADIATION MEASUREMENT

2026C KEY FEATURES AND BENEFITS:

KEY FEATURES

BENEFITS

Full Selection of Ion Chambers

Very low dose rates to very high dose rate applications

Ion Chambers

Independent of beam quality / filtration, air equivalency, recommended for AEC use

Sensor Interchangeability

Plug and Play chambers are interchangeable with any 2026 dosimeter

Simple Operation

Auto Temperature and optional Pressure compensation, large scroll down menu screen

ION CHAMBER SENSORS

FULL SPECIFICATIONS: www.radcal.com

20X6-6

General Purpose In Beam Chamber



20X6-180

Leakage and Low Level Measurements Chamber



20X6-6M

Dedicated Mammography Chamber



20X6-1800

Radiation Protection Chamber



20X6-60/60E

Service and Image Intensifier Chambers



20X6-0.6

High Dose Rate Chamber



20X6-3CT

Computed Tomography Chamber For CTDI



20X6-0.18

High Dose Rate Chamber



SPECIFICATIONS / TECHNICAL DATA:

All specifications subject to change.

CHAMBERS	20X6-6		20X6-6M		20X6-60/60E		20X6-3CT *		20X6-180		20X6-1800		20X6-0.6		20X6-0.18	
Minimum Rate	1 mR/min	0.2 µGy/s	1 mR/min	0.2 µGy/s	0.1 mR/min	0.02 µGy/s	1 mR/min	0.2 µGy/s	1 mR/hr	0.01 mGy/hr	0.1 mR/hr	1 µGy/hr	0.01 mR/min	2 µGy/s	0.02 R/min	3 µGy/s
Maximum Rate	1 kR/min	150 mGy/s	1 kR/min	150 mGy/s	100 R/min	15 mGy/s	1 kR/min	150 mGy/s	1 kR/hr	8.8 Gy/hr	65 R/hr	570 mGy/hr	10 kR/min	1.5 Gy/s	10 kR/min	1.5 Gy/s
Minimum Dose	0.03 mR	0.3 µGy	0.03 mR	0.3 µGy	3 µR	0.03 µGy	0.03 mR	0.3 µGy	1 µR	5 nGy	0.1 µR	0.5 nGy	0.3 mR	3 µGy	1 mR	5 µGy
Maximum Dose	144 kR	1.2 kGy	144 kR	1.2 kGy	14 kR	120 Gy	144 kR	1.2 kGy	2.4 kR	21 Gy	240 R	2.1 Gy	1.4 MR	12 kGy	2.4 MR	21 kGy
Calibration Accuracy	±4% using X-rays @ 150 kVp & 10.2 mm Al HVL		±4% using X-rays @ 20kVp and 0.26 mm AL HVL		-60 ±4% using X-rays @ 150kVp and 10.2 mm AL HVL	-60E ±4% using X-rays @ 50kVp and 0.88 mm AL HVL	±4% using X-rays @ 150 kVp and 10.2 mm Al HVL		±4% using X-rays @ 150 kVp & 10.2 mm Al HVL		±4% using X-rays @ 150 kVp & 10.2 mm Al HVL		±4% using 60Co		±4% using 60Co	
Exposure Rate Dependence	±5%, 0.02 to 1000 R/min, up to 500R/s for 10 ms pulses		±5%, 0.02 to 1000 R/min		±5%, 2 mR/min to 199 R/min		±2%, 2 mR/s to 40 R/s		±5%, 20 mR/hr to 2000 R/hr		±5%, 0.1 mR/hr to 20R/hr, -10% to 65 R/hr		±5%, 0.6 R/min to 6 kR/min		±2%, 10 R/hr to 650 kR/hr Energy Dependence:	
Energy Dependence	±5%, 30 keV to 1.33 MeV (with build-up material)		±5%, 10 keV to 40 keV		-60 ±5% 20 keV to 1.33 MeV (with build-up material)	-60E ±5% 0.2 mm Al HVL to 1.33 MeV (with build-up material)	±5%, 3 - 20 mm Al HV		±5%, 33 keV to 1.33 MeV (with build-up material)		±5%, 33 keV to 1.33 MeV		±5%, 40 keV to 1.33 MeV (with build-up cap)		±5%, 45 keV to 1.33 MeV	
Construction	Polycarbonate walls and electrode; conductive graphite interior coating; 6 cm ³ active volume; 0.3 kg		0.7 mg/cm ² metalized polyester window; polyacetal exterior; 6 cm ³ active volume; 0.32 kg		Polycarbonate walls; conductive graphite exterior coating; 60 cm ³ active volume; 3 m low-noise triax cable; 0.32 kg		C552 air-equivalent walls and electrode; polyacetal exterior cap; 3 cm ³ active volume; 2 m, low-noise triax cable; 0.3 kg		Polycarbonate walls and electrode; conducting graphite exterior coating; 180 cm ³ active volume; 0.35 kg		Polycarbonate walls and electrode; conducting graphite exterior coating; 1800 cm ³ active volume; 0.88 kg		C552 air-equivalent material & electrode; polyacetal exterior cap; 0.6 cm ³ active volume; 12 m, low-noise triax cable; 0.48 kg		C552 air-equivalent walls & electrode; polyacetal exterior cap; 0.18 cm ³ active volume; 3 m, low-noise triax cable; 0.3 kg	

Calibration Accuracy ± 4 %, Energy Dependence ± 5 %. Plug-and-play. * Uniformity Along Length & Partial Volume Exposure ±5%, to within 0.25 cm of chamber ends for a constant volume slice. Active length of 10 cm.