

# Model Cobia - Series X-ray Output Accuracy Multimeters



Ludlum Measurements, Inc.

## Features

- Quickly Ascertain X-Ray Output Accuracy
- Large Display Rotates Allowing Easy Reading from Any Angle
- Simple-to-Use Instruments
- No Adjustments Required by User
- Different Versions Available; All Feature Clean, Compact, Versatile Design



## Introduction

The Cobia series multimeter is available in several versions. All units provide a large, easy-to-read, rotatable display for maximum versatility. No on-site calibration adjustments are required for these devices. These Cobia units are simple to use with straightforward controls and instructions, and include both built-in mAs and a battery life indicator. Versions available include:

- **Cobia R/F-kV:** makes quick measurements of kV, pulses, and exposure time **PN: 99-9901**
- **Cobia R/F-Dose:** makes quick measurements of dose, dose rate, pulses, dose/pulse, and exposure time **PN: 99-9902**
- **Cobia R/F-kV & Dose:** offers simple and quick method to measure all X-ray output parameters (kV, dose, dose rate, pulses, pulse rate, and exposure time) **PN: 99-9903**

## Common Specifications

**DISPLAY:** Color, 320x240 pixel

**MINIMUM EXPOSURE TIME:** 0.1 ms

**AUTO COMPENSATIONS:** 1.5 – 45 mm Al equiv.

**SENSITIVITY:** 0.2 mA @ 50 kV, 50 cm (3 mm Al)

PARAMETER	RANGE	INACCURACY
<b>Tube Voltage</b> .....	38 – 155 kVp .....	± 2%
<b>Time</b> .....	0 ms – 2000 sec .....	± 1% or ± 0.33 ms
	3 – 9999 pulses	-----
<b>Pulse Rate</b> .....	1/6 – 180 Hz .....	± 5% or ± 0.2 Hz
<b>Dose</b> .....	50 µR – 100 kR .....	± 5%
	400 nGy – 1000 Gy	± 5%
<b>Dose Rate</b> .....	1.1 mR/s – 11 R/s .....	± 5% or ± 2 µR/s
	10 µGy/s – 100 mGy/s	± 5% or ± 200 nGy/s
	66 mR/min – 700 R/min	± 5% or ± 0.1 mR/h
	4 R/h - 42 kR/h	± 5% or ± 70 mR/h
<b>HVL</b> .....	1.2 – 14 mm Al .....	± 10% or +/- 0.2 mm



**POWER:** Internal battery or external power supply (battery life 10 - 20 hours)

**SIZE:** 13.8 x 7.6 x 2.7 cm ( 5.4 x 3 x 1 in.) (L x W x H)

**WEIGHT:** 290 g (10.2 oz.)

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Note: specifications subject to change without notification. We are not responsible for errors or omissions.

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