

# 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



Model Cobia Flex R/F  
Part Number 99-9905



Model Cobia Smart R/F-kV  
Part Number 99-9901

Model Cobia Smart R/F - Dose  
Part Number 99-9902

Model Cobia Smart R/F-kV & Dose  
Part Number 99-9903

## Introduction

The Cobia series multimeter is available in several versions. All units provide a large, easy-to-read display with the ability to rotate 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 very useful indicator to inform the operator how much measurement time is left in the battery. Versions available include:

- **Cobia R/F-kV:** makes a quick measure of kV, pulse rate, and exposure time Part Number 99-9901
- **Cobia R/F - Dose:** makes quick measurements of all X-ray output parameters Part Number 99-9902
- **Cobia R/F-kV & Dose:** offers simple and quick method to measure all the X-ray output parameters (kV, Dose, Dose Rate, Pulse Rate, and Exposure Time) Part Number 99-9903
- **Cobia Flex R/F & Dose:** combines simplicity with greater versatility, including the ability to connect different detectors and ion chambers, and has built-in mAs. Part Number 99-9905

## Common Specifications

**MINIMUM EXPOSURE TIME:** 0.1 ms

**AUTO COMPENSATIONS:** 1.5 – 45 mm Al Equiv (Flex 1.5 mm Al - 1.4 mm Cu)

**SENSITIVITY:** 0.2 mA @ 50 kV, 50cm (no added filtration)

PARAMETER	RANGE	ACCURACY
<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 .....	± 0.1 Hz (Flex 50 nGy - 1700 GV; ± 5%)
<b>Dose</b> .....	50 µR/s – 100 kR .....	± 5%
	400 mGy–1000 Gy	± 5% (7 µR – 200 kR; ± 5%)
<b>Dose Rate</b> .....	1.1 mR/s – 11 R/s .....	± 5% or ± 2 µR/s (Flex 0.3 mR/s - 20 R/s; ± 5% or ±200 nGy/s)
	10 µGy/s – 100 mGy/s	± 5% or ± 200 nGy/s
	66 mR/min – 700 R/min	± 5% or ± 0.1 mR/min
<b>HVL</b> .....	1.2 – 14 mm Al .....	± 10% or +/- 0.2 mm

**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.)



Ludlum Measurements, Inc. P.O. Box 810, Sweetwater, Texas 79556

**Web:** <http://www.ludlums.com> **Tel:** 800-622-0828 / 325-235-5494 / **Fax:** 325-235-4672 / **Email:** [sales@ludlums.com](mailto:sales@ludlums.com)

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

June 2016