

# Accessory Data Sheet

## Radiation Detector

The VideoRay **Radiation Detector** mounts easily using the four screws supplied, plugs into the ROV's rear accessories connector, and its output is accessible from the control console's serial port. A PC is required to read, plot, and alarm upon detected radiation. All required software is supplied with the system.

This unit is sensitive to gamma radiation and high energy X-Rays. The sensor is not designed to detect Alpha and Beta particles since the tube is mounted inside a pressure housing.

### PRODUCT INFORMATION

- Highly sensitive 78017 Gamma Geiger tube
- Tube calibrated to 160 Counts Per seconds/milliR/Hr. Standardized Cesium 137
- Minimum detectable energy: 38 KEV
- Max. Operating temp 75° Centigrade
- Software is digitally locked to the sensor - no analog adjustments are needed
- Each tube has passed all examinations, inspections, tests, and procedures including DCAS MIL-Q985A, MIL-E-I and Appendix B of 10CFR50
- Tube calibration is accomplished in accordance with MIL-STD-45662
- In practical VideoRay test, a very small 10 micro curie Cesium 137 standard can be detected 14 inches from the tube in any direction underwater



### SPECIFICATIONS

Gamma Sensitivity	10 Kev
Cesium Calibration	Tube calibrated to Cesium 137 +/- 5% (MIL-STD-45662) Software digitally locked to tube
Dead Time	90 microseconds
Depth Rating	300 m (1000 ft)
Size	10.55" x 3.50" x 3.25" with tube end visible from VideoRay's camera
Weight	1.5 lb in air (mounts not included)
Servicing	No service required, factory sealed

