

# **Phantom®**

## **P150**

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### **Highly Maneuverable in Confined Areas**



**Phantom® 150** is a portable ROV designed specifically for use in the nuclear industry. This vehicle is normally utilised for inspection tasks within the confined spaces of PWR reactors.

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#### **The Advantage**

- Extensive experience with 20 years of continuous operations
- 450 ROV systems designed & built
- Broad international customer base  
Hundreds of customers in over 30 countries worldwide
- Diverse industry applications  
Military, customs & police  
Search & salvage  
Survey & inspection  
Nuclear & hydroelectric  
Offshore oil & gas  
Scientific research  
Underwater broadcast filming
- World class engineering and R&D
- Solutions oriented customer service support
- Rugged reliable products, easy to use and maintain
- Capability to design and integrate various tools and sensors for a wide range of applications

#### **Phantom® P150 Applications**

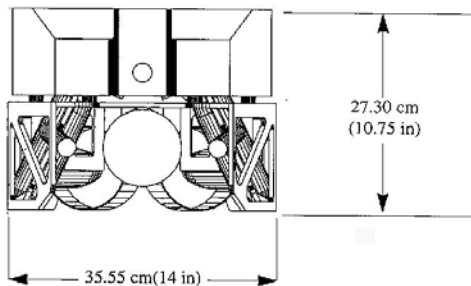
- **Phantom P150** is a portable system designed for underwater inspections, NDT and small object retrieval in confined spaces, including recirculation piping.
- Two horizontal and two “vertrans” torque-balanced thrusters provide control and maneuverability in confined areas.
- The **Phantom P150** combines proven technologies of the **Phantom®** family of ROV's and is fabricated of captured nuclear grade materials for prolonged exposure and operations.
- The absence of electronics in the vehicle makes the system extremely reliable. All system fuses are located in the surface console and are easily accessible by the operator.
- The **Phantom P150's** open design allows easy integration of additional and radiation hardened television cameras.
- The **Phantom P150** control system is 'hardwired' for easy troubleshooting and easier integration of accessories, tools and instrumentation.

# Phantom® P150

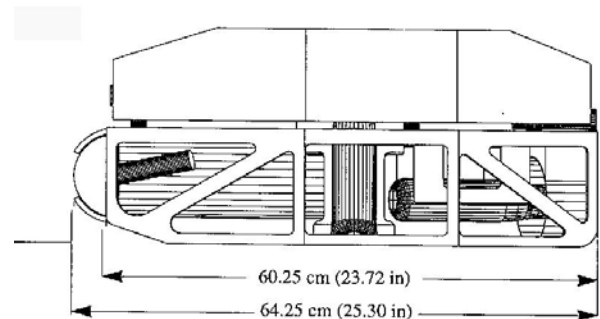
## SPECIFICATIONS

PERFORMANCE			STANDARD CABLE		
Forward Thrust	11lb	5kg	Length	175'	54m
Speed	2kt	1m/sec	Diameter	0.4"	10mm
Payload	8lb	3.6kg	Weight in water – 175'	5.6lb	2.5kg
			Weight in air – 175'	14.5lb	6.6kg
CAMERA			POWER REQUIREMENTS		
Aluminium housed high resolution color camera. Resolution: >460 lines of television. Sensitivity: <2 lux. Remote 10:1 zoom and focus facility. External motorized camera tilt actuator. PAL & NTSC versions available.			Input voltage selectable 120/240vac Frequency 50/60 Hz Power Rating 1kva		
LIGHTS			OPTIONS		
Tungsten-halogen 2 x 150 watt One light tilts with camera (Up to 500 watts)			Electronic depth and heading instrumentation with digital read-out 1 or 2 function manipulator Computer automated control system Spares Kits Low-cost or non-radiation-tolerant cameras Third party high resolution cameras Additional lighting for rear camera/fault inspections		
GENERAL					
Operating temperature:	32-104°F	0-40°C			
Weight:	44lb	14 kg			
Max. operating depth:	150'	46m			
Test Depth:	200'	61m			

Specifications are subject to change without prior notice.



FRONT VIEW  
PHANTOM 150



SIDE VIEW  
PHANTOM 150