

Deep, Strong Current Capability workhorse



Phantom[®] DHD2+2

- Dependable ROV for offshore inspection and light work tasks
- For use in strong currents to depths of 600m (2000 ft.)
- Accommodates cameras, sonar, tracking, manipulators and custom tooling

The Deep Ocean Advantage

- Well established company with 25 years of experience & supply to the ROV industry.
- Over 500 ROV systems delivered.
- Broad international customer base, with clients in over 30 countries.
- Applications:
 - Military, customs & police.
 - Search & recovery.
 - Nuclear & hydro-electric plant integrity.
 - Offshore oil & gas
 - Scientific research
 - Underwater filming
- Strong, resilient and rugged system design.
- Dedicated customer service & support.
- Internationally acclaimed products.
- Ability to integrate tooling & sensor packages

Phantom[®] DHD2+2 Applications

- Outfall/Intake inspections.
- Jack-up and template inspections.
- NDT inspections.
- Mooring and anchor chain monitoring.
- Telecommunication cable inspection.
- Mine countermeasures.
- Body and evidence recovery.
- Oceanographic survey.
- Fisheries research.
- Environmental surveys.
- Marine archeology.

Phantom[®] DHD2+2



Specifications

General:

Vehicle weight:	132kg	285lb
Operating depth:	600m	2,000ft
Overall length:	1400mm	55in
Overall width:	686mm	27in
Maximum height:	673mm	26.5in

Performance - forward thrust:

Normal:	68kg	150lb
Full:	91kg	200lb
Lateral thrust:	7kg	15lb
Vertical thrust:	7kg	15lb
Payload (with lateral thruster fitted)	5kg	12lb

Power requirements:

Input Voltage:	100-250 vac
Frequency:	50/60 Hz
Power Rating:	6 kva
User Power Available	
Instrumentation:	24 vdc @6A
Auxiliary Power:	80 vdc @ 0.6A

Lights:

Tungsten-halogen 2 X 250 Watt. 3 settings

Camera:

DOE 18:1 optical zoom high-resolution color camera.
PAL/NTSC >470 Lines— 1/3" CCD
Sensitivity 1 Lux @ f1.4
Auto-iris, wide angle lens, viewing angle 7-58°
Auto/Remote focus select.
External motorized camera tilt ±90°
Built-in video switch for 2nd Camera
1000m (3,300 ft) rated, recessed and hardened port

Instrumentation:

Fluid-gimbaled fluxgate compass: Accuracy: ± 3°
Electronic depth gauge: Accuracy: ± 1% fsd.
Auto heading and auto depth
Audio feedback of ROV condition.
Leak detector.
Onscreen graphic video display.

Standard Umbilical Tether:

Lengths: 169m (550ft); 338m (1100ft); 646m (2100ft)
Diameter: 20mm (0.8in)
Weight in fresh water: Neutral

Options:

Cable reels and slip-ring units available.
Sonar
Navigation and tracking systems
Additional cameras & lights.
Set additional buoyancy. +3kg/6.6lb payload.
Customized versions available.
DOE single function manipulator.
Sensor packages.
Additional components on request

Features:

- Superb video quality, ± 90° camera tilt.
- Hardwired Phantom control system — easy to troubleshoot and add accessories
- Shock-mounted full perimeter stainless steel crash frame for rugged protection and durability
- Interchangeable components with DOE Phantom Spectrum vehicles
- Enhanced vehicle stability with low center of gravity and torque-balanced horizontal thrusters



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