



SYSTEM OVERVIEW

THE EXPLORER Economy ROV System has been configured for ROV users who require more functionality than the Scout system but still have a limited budget. The VideoRay Explorer ROV system includes the 8 - pound submersible, control panel, 40 m (130 ft) of neutrally buoyant tether, manual, and tool kit. All components fit in a watertight, rolling Pelican 1620 case that fits easily in the trunk of a car or in an airline luggage compartment. The Explorer adds a higher resolution 160 degree tilt camera, water depth meter, auto depth feature, compass heading readout, and run time meter.



SYSTEM COMPONENTS

- Explorer Submersible
- Explorer Control Panel with 7 Inch Color Monitor
- Plug and Play Performance Tether:
 - 40m (130 ft) Neutrally Buoyant
- Pelican 1620 Hard Case with Custom Packaging
- Owners Manual
- Basic Tool Kit With Complete Ballast Set



EXPLORER SPECIFICATIONS

GENERAL SYSTEM

Power Requirements	800 watts, 100-240 VAC
Total System Weight	32 kgs (70 lbs.)
Cases	Two Watertight Rugged Pelican Cases
Owners Manual	Hard Copy & Online Digital
System Tool Kit	Basic Tool Kit
Warranty	2 year limited

SUBMERSIBLE

Depth Rating	76 m (250 feet)
Size	30.5, 23, 21 cm (12, 9, 8.5 inches)
Weight	3.6 kgs (8.0 lbs) Without Submersible Ballast Set
Ballast	No Tools Ballast System with Complete Brass Ballast Set

Propulsion

Horizontal	1.9 knots Maximum Speed 2 Brushed Thrusters Geared Drive 50 mm Propellers	Vertical	1 Brushed Thruster Geared 45mm Propeller
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Camera

Main	NTSC or PAL Format Front - Fixed inside the pressure hull. Forward facing wide angle color camera - optimized for underwater use. 570 Lines of Resolution
Sensitivity	0.3 lux
View Angle	90° Horizontal/140° Diagonal
Tilt	Variable Tilt with 160 Degree Vertical Field Of View

Lighting

(2) x 20w Halogen Lamps
Variable Intensity Control

Integrated Sensors

Compass Heading
Depth Gauge

CONTROL PANEL

Size	40.6, 33, 16.5 cm (16,13, 6.5 in)
Weight	6.8 kgs (15 lbs)
Computer	N/A
Main Display	7 Inch Color
Controller	Integrated Joystick and Depth Control Knob Camera Tilt, Auto Depth, Lighting Control, Camera Manual Focus
Recording	Recorder not included
Overlay	N/A
Video Out	Analog Composite
LCD Display	Depth Gauge (feet / meter interchangeable), Compass Heading, Cumulative Hour Meter

TETHER

40 m (130 ft) **total length**, Plug and Play Tether
40m Professional Performance Tether - 8mm diameter, 454 kg (1,000 lbs) breaking strength

Management Available as an option or on the Explorer X3

INTEGRATED ACCESSORIES

Accessories not available for the Explorer and Explorer X3 ROV Systems



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