

TRV-M



General Specifications:

Depth Rating 3300 ft. (1000m) standard
(deeper options)
Payload 60 lbs. (27 kg)
Height 24 in. (610 mm)
Length 60 in. (1524 mm)
Width 48 in. (1219 mm)
Weight in Air 940 lbs. (426.37 kg)

Maximum Static Thrust:

Forward 230 lbs.
Reverse 150 lbs.
Lateral 110 lbs.
Vertical 230 lbs.

Maximum Velocity: (100 ft. tether excursion)

Forward 2.04 m/s (4 kts)
Reverse 1.53 m/s (3 kts)
Lateral 1.02 m/s (2 kts)
Vertical Up to 3 m/s
Turning Rate 120° per second max.

Surface Control Unit:

Height 12.28 in. (312 mm)
Width 16.50 in. (419 mm)
Depth 22.25 in. (565 mm)
Weight 291 lbs. (132 kg)
SCU Power Requirements 220 VAC 3Ø 25kw

Tether Dimensions:

Tether (standard length-live boat mode) 1500 ft. (500 m)
Diameter 22.5 mm (.886 in.)
Weight in Air 345 lb/kft (513 kg/km)
Weight in Seawater 71 lb/kft (106 kg/km)
Breaking Load 2500 lbf

Thruster Technology:

5 x Brushless DC motors with internal drive modules.

Chassis:

T6061 Aluminum

Buoyancy:

1000m Syntactic Foam (standard, deeper options available)

Hand Control Unit:

Height 3.25 in.
Width 8.5 in.
Length 12.0 in.
Weight 5.0 lbs. (2.27 kg)

Hand Control Functions:

Thruster Control: Fore, Aft, Lateral, Vertical, Rotate
0-100% Gain Control on Port, Stb. & Lateral
0-100% Gain Control on Verticals
0-100% Gain Control on Forward Bias
Auto Depth, Auto Heading, Auto Altitude
Thruster enable/disable
Normal/Pitch Mode Switch
Cameras: Pan, Tilt, Zoom & Focus on Colour Camera
Pan, Tilt Fixed Focus Colour Camera
Manipulator Colour Camera
Remote Control for aft 360° Colour Rotate Camera
Manipulators: 2 x 4 Function
Swing Left/Right
Arm Up/Down
Jaw Rotate CW/CCW
Jaw Open/Close
Lights: 2 x LED Light potentiometers 0-100% intensity

Remote Hand Control Unit:

Height 2.25 in.
Width 7.75 in.
Depth 4.75 in.
Weight 1.0 lbs.

Remote Hand Control Functions:

Thruster Control: Fore, Aft, Lateral, Vertical, Rotate, Thruster Enable/Disable Switch. Lights: On/Off (Full Intensity)

Sonar:

MS 1000 Sonar Head

Modular Components:

Telemetry Can, Power Can, Capacitor Bottle, HPU, 2 x 4-Function Valve Pack

Navigation:

Gyro/Fluxgate Combination w/pitch & roll.

Lighting:

5 x LED High Power Light Systems

Auto Functions:

Auto Depth, Heading & Altitude

Cameras: 4

Sony Color Zoom, Focus, Pan & Tilt
Low Light Colour, Pan & Tilt
Rotary Color 360° Viewing
Colour Manip Camera
Cameras on two Video CCT's (any combination of two cameras can be viewed at any time)