

# 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)