

ROV

PIRANA Series



PRINCIPAL PARTICULARS

ROV Series : PIRANA
Asset ID : PIRANA 1 & 2
ROV Model : JT-5 ROV

Manufacturer : Deepinfar Ocean Technology Inc.
Owner : Subsea Worldwide Solutions Sdn. Bhd.
Operator : Trone Sdn. Bhd.

REMOTELY OPERATED VEHICLE

Working Conditions

- Depth Rating: 300 m
- Drive System: Fully electric propulsion

Dimensions & Weight

- Overall Dimensions [L x W x H]: 900 x 574 x 485 mm
- Weight in Air: 60 kg [excluding payload]

Propulsion & Performance

- Configuration: 4 x horizontal thrusters + 2 x vertical thrusters
- Forward / Aft Thrust: 50 kgf
- Lateral Thrust: 30 kgf
- Vertical Thrust: 33 kgf
- Maximum Speed: 3.5 kn forward / 2 kn reverse

Payload Capacity

- Payload : 15 kg

Control & Communication Interfaces

- Interfaces Available:
 - RS485 [x4]
 - RS232 [x1]
 - Ethernet [x5]

Integratable Tooling [Optional Add-Ons]

- Cathodic Potential (CP) Probe
- Ultrasonic Thickness (UT) Gauge
- Acoustic Flooded Member Detection (FMD)
- Cavitation Jetting Tool
- Rotating Electric Cleaning Brush

*All optional equipment is available in customised configurations as required by the client or operation.



Superior power performance

Robust propulsion performance with a 6-thruster configuration, delivering stable maneuverability and reliable station-keeping in challenging offshore environments



Strong detection capability

Enhanced inspection capability with integrated optical cameras, imaging sonar, and high-intensity lighting suitable for offshore subsea observation or inspection tasks



Abundant loads

Flexible payload capacity supporting a wide range of sensors, manipulators, NDT tools, and optional modules to meet diverse offshore operational requirements



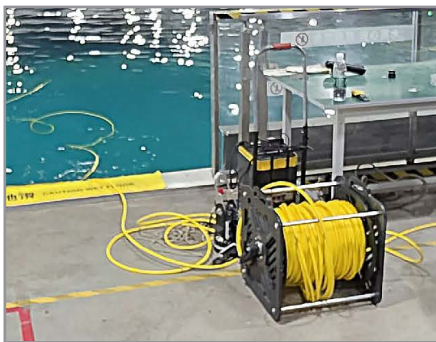
Versatile, can be used for offshore operations

Highly versatile for offshore deployment, featuring a vectorized thruster layout that provides balanced, omni-directional thrust and precise maneuverability for inspection, intervention, and general subsea operations



ROV

PIRANA Series



Functional Capabilities

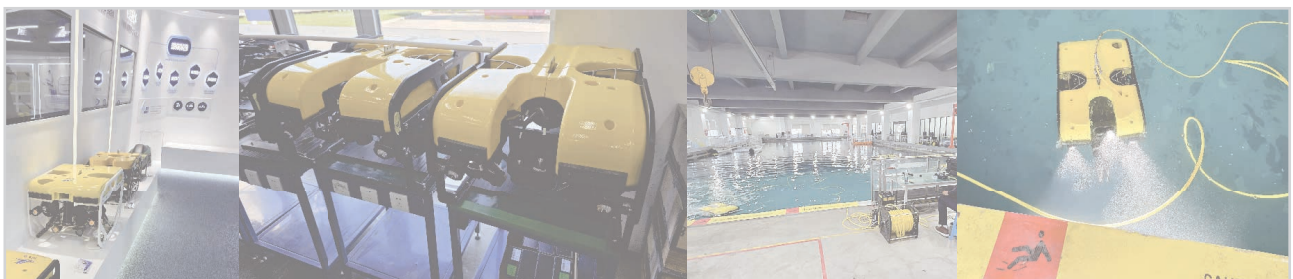
Depth control	: Automatic depth control
Heading Control	: Automatic heading
Lighting system	: 3 x 4000 lm
Manipulator	: M2BE dual-function electric manipulator arm
Electric Brush	: Rotating electric brush
Camera system	: 1080P HD camera with 10x optical zoom ±90° pan/tilt control

ROV Control Console Specifications

Control box interface	: 3 USB ports, 2 Ethernet ports
Input power	: 220 VAC
System Power Capacity	: 6 kW
Display screen	: 3 x 15.6-inch LCD monitors with a resolution of 1920 x 1080 (Full HD).
Console dimension	: 615mm*585mm*345mm
Weight	: 50 kg

Tether Reel Specifications

Size (L x W x H)	: 555 x 450 x 505 mm
Weight	: 38 kg (with 200 m of 12 mm umbilical cable)



*All optional equipment is available in customised configurations as required by the client or operation.