

COPETECH-SM Under Water Survey



Perseo^{GTV}



Class 2 - Multipurpose ROV



KEY FEATURES

- Operating depth: standard 1500 m (deeper available)
- Dimensions (without tool skid) : 1300x950x700 mm
- Weight (without tool skid): 250 kg
- Maximum launching Weight : 450 kg
- Chassis: High Impact Resistant Maintenance Free Polyethylene
- 3 simultaneous composite video channel
- 1 Gbit ethernet over fiber dedicated to broadcast Video RAYFIN
- 3 Gbit ethernet over fiber dedicated to Aux Sensor
- 4 Led Lamps - 21 000 lumens each
- Power requirements: 400 VAC 3-phase 50÷60Hz, 15 kW
- Payload: Adjustable between 18 kg and 40 kg

OPERATING DEPTH

- Vehicle standard configuration: 1500 m rating
- Deeper rating available

STRUCTURAL/FRAME AND FITTING

Modular Chassis manufactured in high impact resistant Polyethylene, totally maintenance-free and non-corroding. All chassis member can be easily replaced and any additional equipment may be bolted directly onto it. Lift points manufactured in stainless steel. Pressure housings are in anticorodal aluminum 6060.

PROPULSION

- 2 vertical and 4 vectored thrusters DC brushless 1500 m depth, magnetic coupling propeller
- Downward thrust 48 kg
 - Forward thrust 70 kg
 - Lateral Thrust 50 kg

BUOYANCY

Modular floating with apertures provided for sonar and acoustic positioning transponder

PAYLOAD

From 18 kg w/o additional buoyancy module, up to 40 kg

UMBILICAL CABLE

- Ø 23 mm, provides power and four SM optical fibres
- 3 wires available for Aux tools - up to 4,5 kW

VEHICLE POWER REQUIREMENTS

400 VAC 3-phase 50÷60 Hz, 15kW

Note: power requirement for free flight operation w/o LARS and TMS

DEPLOYMENT SYSTEM

Optional LARS and TMS

VIDEO AND DATA LINES

- 1 Fiber Optics MUX with 3 video and 6 Data channel.
- 1 fiber Optics MUX Gbit for RAYFIN 4K
- 1 fiber Optics MUX 3 Gbit for aux sensor

Standard configuration :

- 1x High Resolution Colour Camera TYPHOON
- 2x High Resolution Monochrome Camera Wide-i SeaCam

CAMERAS PLATFORM

Tilt (180°) with feedback position displayed on pilot monitor.

NAVIGATION/TRACKING

Flux-gate compass unit with solid state rate gyro sensor featuring high azimuth stability; electronic depth sensor.

Standard functions: Auto-heading, Auto-depth. and Auto-altitude.

SURFACE CONTROL UNIT

Standard 19" rack flight case (12 U or 15 U), containing switching power supply modules and 6U rack for electronics of controls and interface.

AVAILABLE TOOLS AND INSTRUMENTATION

Scanning sonar system : Tritex Super Seaking DST

Additional Colour or B/W cameras

Additional IP cam

Acoustic positioning system - Responder mode ready

CP Probe (contact or proximity)

Ultrasonic thickness probe : Tritex Multigauge 4000 series

Bathymetric Multibeam system ready

Pipe and Cable tracker : TSS or ORION ready

Multifunctional manipulator (skid mounted) : up to 2 x 5 functions

Water jet system : HLK-31020-V02

Anvil cutter : Hydro-Lek HLK-33900 - capable of cutting 38mm diameter stainless steel wire rope

4" Rotary Cutter Hydro-Lek HLK-33600

AHRS-Depth and temperature sensor ISD4000

Other tools or sensor on request



COPETECH-SM
Under Water Survey

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