



SYNERGY

INNOVATIVE DIVING EQUIPMENT TRADING LLC

INSPIRING • ENGINEERING • INNOVATION

UAE-UK-INDIA-AZERBAIJAN-SINGAPORE



CYGNUS UNDERWATER Mk5 UTG KIT



The **Underwater Mk5 UTG KIT** is a professional ultrasonic thickness gauge designed for divers carrying out **underwater thickness measurement (UTM)** on marine and offshore structures. Built to perform in the harshest subsea environments, this diver-held gauge delivers fast, reliable, and highly accurate metal thickness readings – even through heavy corrosion and protective coatings.

Featuring a **depth rating of 300 m**, the Underwater Mk5 UTG KIT is ideal for inspections of ship hulls, offshore oil and gas platforms, subsea pipelines, storage tanks, canal locks, and civil engineering structures. Its large, high-visibility LCD screen with intuitive 3-key operation ensures clear measurements even in low-visibility conditions.

With **three selectable measuring modes** (Multiple-Echo, Single-Echo, and Echo-Echo), divers can tackle a wide range of inspection scenarios. The exclusive **Measurement Stability Indicator (MSI)** verifies stable and reliable results, while the built-in **depth sensor** provides live diver depth readings.

The kit also includes advanced data logging, allowing divers to record up to **5,000 measurements** with A-scans & depth information, which can be easily reviewed using **CyLink software** for reporting and analysis.

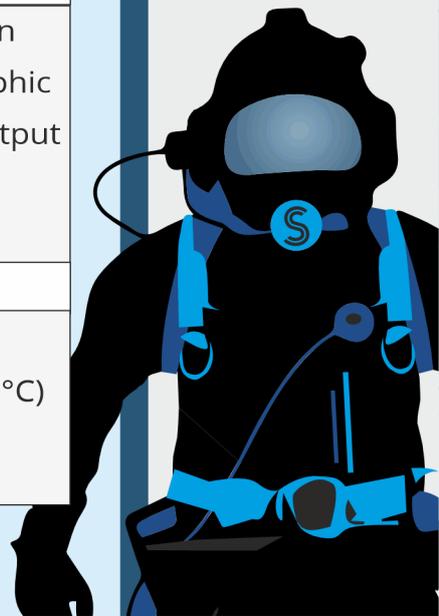




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Specifications	Details
Measuring Mode	Multiple Echo with Single Crystal Probes Single Echo with Twin Crystal Probes Echo-Echo with Twin Crystal Probes
Materials	Sound velocity from 2000 m/s to 9000 m/s [0.0787 in/us to 0.3543 in/us]
Accuracy	±0.1 mm (±0.004") or 0.1% of thickness measurement whichever is the greatest
Resolution	0.1mm, 0.05mm or 0.01mm depending on probe type
Probe Options	Single crystal and twin crystal probes
Measurement Range in Steel	1mm to 250mm (0.040 in. – 10 in.) depending on selected probe & configuration, material & temperature
Connector	SubConn MC
Power Supply	Ni-MH Battery Pack 1.8 Ah (min)
Power Rating	1.5W
Probe Sockets	Lemo
Battery Life	8 hours minimum continuous measurement
Display	2.4" VGA, sunlight readable colour display
Size	80mm x 305mm x 65mm (W x L x D)
Weight	1 kg with battery
Operating Temp.	-10°C to +50°C (14°F to 122°F)
Storage Temp.	-20°C to +60°C (-4°F to 140°F)
Data Logging	5,000 measurements and A-scans per record
Computer Software	CygLink allows remote logging and viewing of A-scan graphs. Survey & report generation to PDF file. Graphic analysis of data and statistical calculations. Data output via RS-485 serial connection to transfer data to a Windows® computer with CygLink
Depth Sensor	Range 0 to 300m (30Bar)
Environmental Rating	Depth rated for 300m continuous immersion in sea water, MIL STD 810G Method 501.6 (High Temp +55°C) MIL STD 810G Method 502.6 (Low temp -20°C)



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Shock & Impact	MIL STD 810G Method 514.7 (Vibration) MIL STD 810G Method 516.7 (Shock 20g) MIL STD 810G Method 516.7 (Transit Drop 1.22m)
Standards	Designed for BS EN 15317 RoHS Compliant
Warranty	3 years on gauge and 6 months on probe

Key Features:

- Depth rated to 300 m for demanding subsea operations
- Multiple-Echo mode for accurate measurements through coating up to 20 mm
- Echo-Echo and Single-Echo modes for heavily corroded metals and composites
- Live A-Scan display for verification of readings
- Comprehensive linear and grid data logging with auto-log function
- 2.4" sunlight-readable colour display
- Rechargeable Ni-MH battery with 8+ hours continuous operation
- Shock and impact tested to MIL-STD-810G standards

The **Underwater Mk5 UTG KIT** is trusted worldwide by commercial divers, marine surveyors, and offshore operators for UWILD and IWS class surveys. With upgradeable variants (STD, PLUS, PRO), it provides long-term value and adaptability for a wide range of underwater inspection needs.





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SYNERGY INFRASTRUCTURE





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CYGNUS UNDERWATER Mk5 UTG KIT

Contact us



Synergy Innovative Diving Equipment Trading LLC

P.O. Box: 237849, Warehouse No.242, 29th street, Behind Al Huraiz Est, For Industry, Al Qusais, Industrial Area - 1, Dubai - U.A.E

+9714 2580533 / +971 50 564 8178
ram@synergyequipment.com
www.synergyequipment.com



Synergy Diving & Oilfield Equipments Trading LLC

P.O. Box: 2419, Office: 216, 2nd Floor, Dar Al Salaam Building Hamdan Street, Abu Dhabi - U.A.E

+971 50 564 8178 / +971 54 460 1492
ram@synergyequipment.com
unilok@synergyequipment.com
www.synergyequipment.com



iSubC Diving Equipment Ltd

Units 10 Holly Close, Whitehills Business Park Westby With Plumpton, Blackpool, FY4 5QP, United Kingdom

+44 1253 767 788 / + 44 7951 966 260
info@isubc.com
www.isubc.com



Synergy Viking Offshore Engineering

Rabale Ttc Industrial Area Road no 20, Near Narayan dairy, Navi Mumbai, Thane - 400701, Maharashtra, India

+91 98218 90129
ram@synergyequipment.com
www.synergyviking.com



Synergy Group Azerbaijan

Gasaniyev, 14A
Baku
Azerbaijan

+99470 330 35 20
infoazerbajian@synergyequipment.com
www.synergyazerbajian.com



Synergy Singapore

Singapore



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