

HydroPACT 350

Subsea Cable Tracking System

The HydroPACT 350 is regarded as the industry standard subsea system for accurate and repeatable survey and measurement of tone-carrying submarine cables.

The system employs two subsea vehicle mounted sensing coil triads to detect alternating magnetic fields. Operating in real-time, the HydroPACT 350 measures, displays and records accurate cable depth of burial measurements and tracking data.

Operation is unaffected by the burial state of the cable, the presence of non-ferrous metallic objects, or the heading of the ROV.

All HydroPACT systems are operated via the easy-to-use DeepView for Windows™ feature packed user interface software, which is preloaded onto the portable and rugged surface display computer, SDC11. This enables the user to set up, control, monitor, log and record live cable survey data files. These files are then available for transfer to post process through external software (not supplied). As an alternative we also offer the RMC11 rack mount computer for connecting into existing operational vehicle display stations.



The HydroPACT 350 standard systems are available with either a 3000m or 6000m rated 110VAC or 230VAC Power Supply pod.

DualTrack System

The HydroPACT Dualtrack system comprises of both the HydroPACT 350 and the HydroPACT 440 pulse induction pipe & cable tracking system, working seamlessly together, giving you continuous deep water pipe and cable tracking capability down to depths of either 3000m or 6000m.

Product Features and benefits

- Cable location data and depth of burial data
- Cable fault location
- Vehicle skew angle data
- Look-ahead information
- Tone frequency discrimination
- Combination of advanced DSP technology and proven tone detection techniques
- Accurate and reliable survey data with quality control envelope

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TECHNICAL SPECIFICATIONS

System Performance:	Detection range (in a low noise environment)	Cable detected at vertical range up to 10m and within a total horizontal swath width of 20m centered on the coil array.
		The greater of 5cm or 5% slant range Stated accuracy applies within the quality envelope of 4m. (Results measured on a cable carrying 25Hz tone frequency at 30mA current)
Sensing Coil:	Dimensions	68mm (ø) x 340mm (l) (6 coils arranged in two coil triads)
	Weight	3.5kg in air; 2.4kg in water (per coil)
Subsea Electronics Pod:	Dimensions	148mm (ø) x 468mm (l)
	Weight	12.7kg in air; 4.4kg in water
	Communication	RS-232, 2-wire 20mA digital current loop, 4-wire 20mA digital current loop
	Power input	110 or 230VAC
Surface Display Computer:	Hardware	19" ruggedised touch screen panel PC Rear mounted comms for all external interfaces
	Display resolution	1280 x 1080
	Dimensions	599mm x 480mm x 345mm (including transit case)
	Power consumption	250W (max)
	Shock resistance	Operating: better than 5g for <10ms; Non-operating: better than 40g for <10ms
Altimeter:	Dimensions	140mm (ø) x 290mm (h)
	Frequency	200kHz
	Range	30cm to 30m
Depth Rating:	All subsea components are depth rated to 3000m (6000m option)	
Compliance:	The HydroPACT 350 is not listed on the Annex referred to in Article 3 of retained Council Regulation (EC) No. 428/2009 for exports from Great Britain (last amended by SI 2023/695)	
Warranty:	12 months international warranty including parts and labour	
Options:	RMC11 (rack mount computer, see separate datasheet)	
	Extended warranty	