

# HydroPACT 660E

## Subsea Pipe Tracking System

### The new benchmark for small ROVs

With HydroPACT 660E Teledyne Marine brings the world's smallest submarine, pulse induction pipe tracker to market. Built upon the already established, industry standard and world leading TSS HydroPACT 440 system, the HydroPACT 660E continues the legacy by bringing pipe tracking and UXO detection capabilities to small inspection and observation class ROVs, for applications that were previously only available on larger vehicles such as work class ROVs and trenchers.

The HydroPACT 660E has a single 24 Vdc, small subsea electronic pod, dramatically reducing the installed footprint and payload of the system while maintaining an operating range of greater than 85% of that of the significantly larger HydroPACT 440 system. The coil array features an integrated cable for even greater reliability and is suitable for installation and operation on smaller Observation class ROVs.

Its interface utilises the well-known and intuitive DeepView for Windows™ software, running on a choice of topside computer (SDC10 as standard with the RMC10 option), making it an effortless transition moving from either of the existing TSS pipe and cable tracking products to the new HydroPACT 660E. This makes it incredibly cost-effective to switch between any of the products within the HydroPACT product family.

The HydroPACT 660E compliments the existing 440 as it addresses a market where size and weight is of absolute importance for use on smaller subsea vehicles, while the 440 is still the best choice if absolute range is critical. The new solution offering a single subsea pod significantly reduces size and weight of the payload making it even more attractive for smaller classes of ROV.



### PRODUCT FEATURES & BENEFITS

- Smaller (60%) and lighter (70%) coil array with a better drag coefficient suitable for inspection and observation class ROVs
- Smaller (65%) and lighter (60%) electronics installation
- Reduced power consumption of 40W
- Uses well-established, reliable and proven pulse induction technology
- Easy to use and known operation
- Gives accurate survey information regardless of vehicle heading
- Suitable for TMS launched systems without folding the coil assembly which means less risk of damaging the coil as well as fewer mechanical parts
- Operates the same as the 440, with no time consuming set-up or pre-operational calibration required
- Only one coil assembly to be fitted with optional extension cable available
- Improved operating temperature range due to redesigned electronics
- A single solution suitable for operations in high-current environments
- Provides reliable and high integrity data
- Intuitive interface not requiring highly trained technicians to use
- Simple installation



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## TECHNICAL SPECIFICATIONS

<b>System Performance</b>	Detection range	2.5cm armoured cable depth and tracking at 1.0m
	(in a low noise environment)	1cm unarmoured cable depth and tracking at 0.5m
		15cm armoured cable depth and tracking at 1.5m
		10" pipeline depth and tracking at 2.5m
		4" pipeline depth and tracking at 1.8m
		4" umbilical depth and tracking at 1.8m
	Vertical measurement accuracy (in a low noise environment)	The greater of 5cm or 5% slant range.
<b>Coil Array</b>	Dimensions	1200mm (w) x 600mm (l)
	Weight	18.5kg in air; 6.3kg in water (including 2m tail)
<b>Subsea Electronics Pod</b>	Dimensions	148mm (ø) x 328mm (l)
	Weight	10.0kg in air; 3.3kg in water
	Communication	RS-232
	Power input	19 - 36Vdc (SELV)
	Power consumption	<40W
	Operating temperature	-20°C to +45°C (with coil drive on)
		-20°C to +70°C (with coil drive off)
<b>Surface Display Computer</b>	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
<b>Altimeter</b>	Dimensions	140mm (ø) x 290mm (h)
	Frequency	200kHz
	Range	30cm to 30m
<b>Depth Rating</b>		All subsea components are depth rated to 3000m
<b>Compliance</b>		Goods may be subject to export control - details upon quotation
<b>Warranty</b>		12 months international warranty including parts and labour
<b>Options</b>		RMC10 (rack mount computer, see separate datasheet)
		Contact us for optional cable lengths
		Extended warranty



**TELEDYNE MARINE**

TSS

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