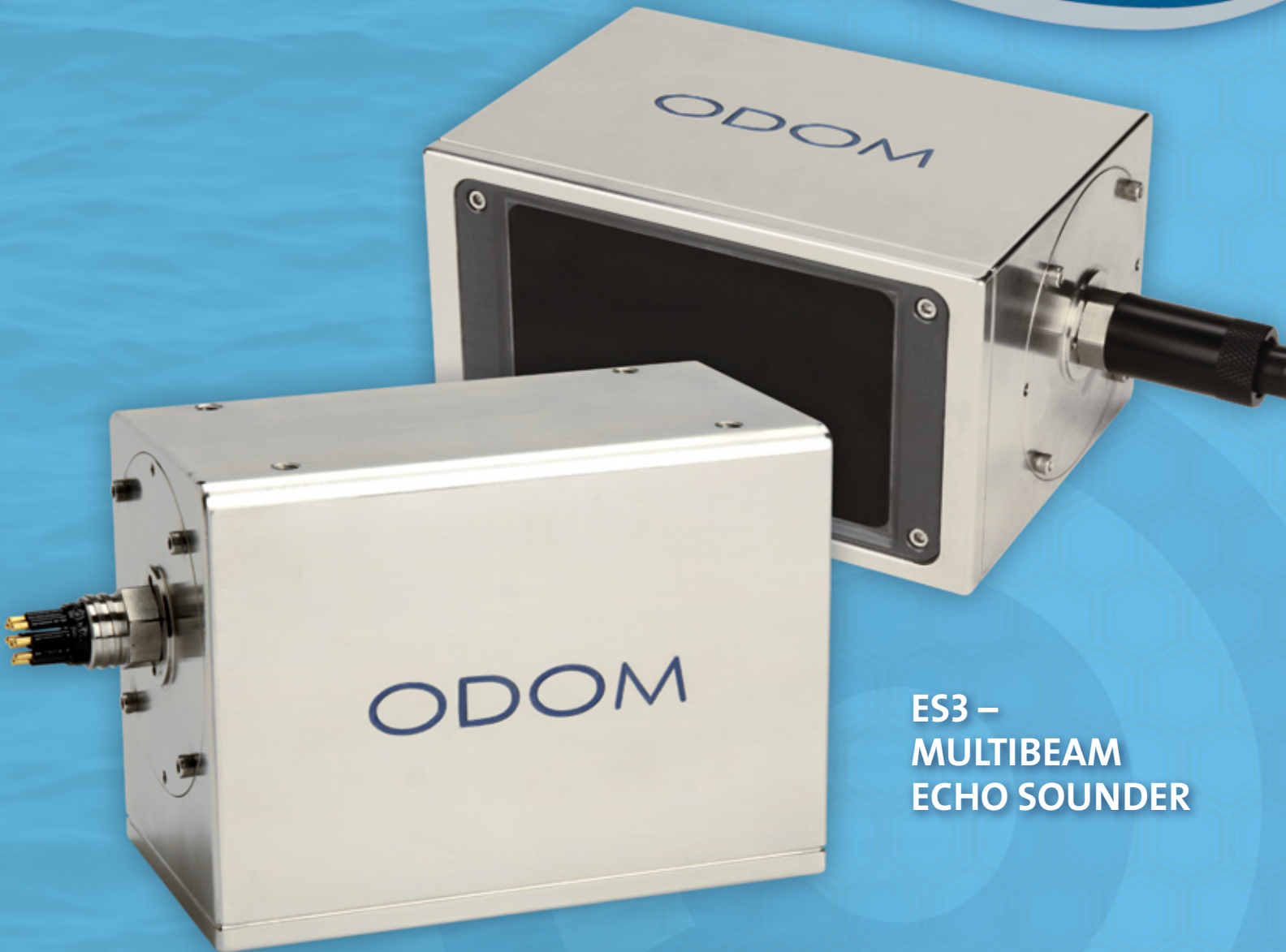


ODOM
ES3TM



odom
HYDROGRAPHIC SYSTEMS



**ES3 –
MULTIBEAM
ECHO SOUNDER**

Multibeam technology is now within reach of everyone. Our new ES3 Multibeam Echo Sounder provides much of the performance of larger, more expensive systems in an extremely small, easy to use and affordable package. With the introduction of the ES3, both performance and return on investment are served in one affordable and easy to use package!

Buy Odom – invest in your peace of mind.

S P E C I F I C A T I O N S

Frequency

- 240 kHz

Swath Width (Nominal Beam Geometry)

- 120° x 3° Transmit
- 120° x 3° Receive

Effective Beam Widths*

- Narrow – 0.75°
- Medium – 1.5°
- Wide – 3.0°

Number of Beams**

- Default – 480
- Selectable – 240, 120

Range Resolution

- 0.02% of Range

Range

- 60 m (197 ft.) water depth
- 100 m (328 ft.) slant range

Minimum Detectable Range

- 0.5 m (1.6 ft.) below transducer

Ping Rate (PRF)

- 12 Hz at 20 m range (Processor and # of real-time beams selected dependent)

Maximum Operating Depth (Submersion depth)

- 10 m (32.8 ft.)

Interface to PC

- Ethernet (10 base-T) using TCP/IP

Maximum Cable Length

- 100 m (328 ft.) using CAT5-e

Connector

- Underwater wet-mateable 8 conductor Subconn at transducer end, 8 pin Circular MS type connector at P/DI end

Power Supply

- 24 VDC nominal (9 to 30 VDC range with P/DI)
- Power Dissipation <25 Watts total

Dimensions – Sonar Head

- 162 mm (6.3 in.) L x 117 mm (4.62 in.) H x 92 mm (3.63 in.) W

Weight

- 8.2 kg (18 lb.) in air

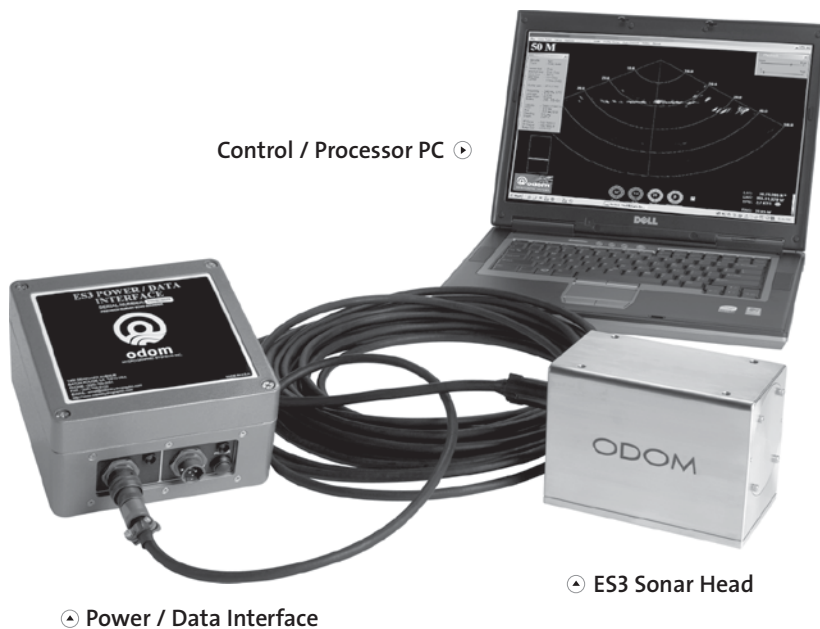
Material

- Stainless steel housing
- Urethane acoustic window

Power/Data Interface “P/DI” (Included in ES3 scope of supply)

- Three (3) port Ethernet switch (ES3, Data Acquisition PC, and spare)
- 9 to 30 VDC input range
- Dimensions: 178 mm (7 in.) W x 102 mm (4 in.) H x 178 mm (7 in.) D

*Effective Beam Widths include some overlap between adjacent beams.
**Acoustic data is collected at full resolution for off-line playback/display. The number of beams displayed and output in real time is operator selectable. The number selected inversely affects the system Ping Rate.



Control / Processor PC

Power / Data Interface

ES3 Sonar Head



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