ODOM

ES3™

odom

HYDROGRAPHIC SYSTEMS

ES3 – MULTIBEAM ECHO SOUNDER

ODOM ES3™

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.

SPECIFICATIONS

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

Real-time Beam Steering on the Roll Axis (Roll compensation)
- TSS1/EchoSounder String Required

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)
- 200 m (656 ft.)

Interface to PC
- Ethernet (10 base-T) using TCPIP

Maximum Cable Length
- 100 m (328 ft.) using CAT5-e, longer cable runs possible with additional hardware

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

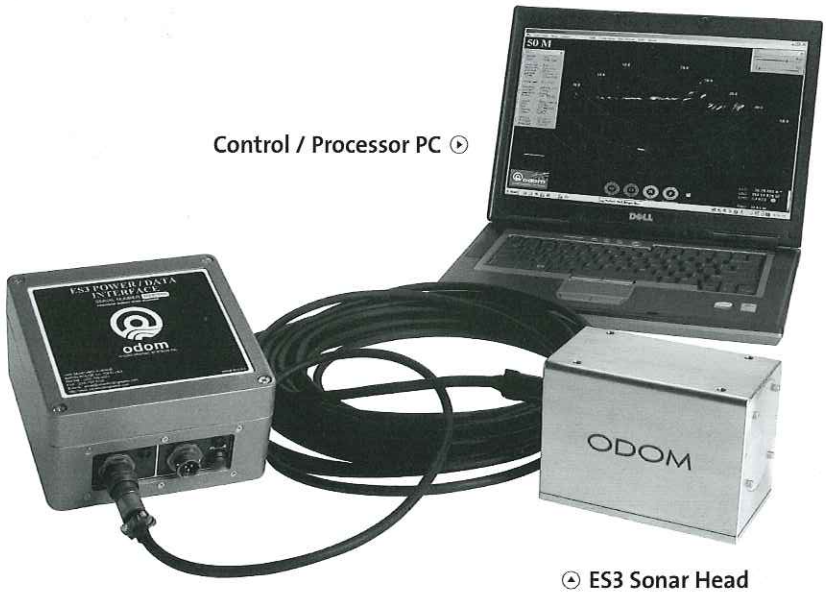
Weight
- 8.2 kg (18 lb.) in air

Material
- Stainless steel housing
- Urethane acoustic window

Power Data Interface "PDI" (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

Ping Rate (PRF) Example
- 14 Hz
- 20 Meter Range
  Roll Compensation ON
  120 Beams
  Points and Intensity Display
  Panasonic CF-52 Notebook PC

*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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1450 Seaboard Avenue
Baton Rouge, Louisiana 70810-6261 USA
E-mail: email@odomhydrographic.com
www.odomhydrographic.com

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