

OHMEX INSTRUMENTS

Some lead, others follow !



SONARMITE v4.0 BTX - Portable Bluetooth Echosounder



The SonarMite Echo Sounder was the result of nearly two years research and development to further extend the boundaries of shallow water hydrographic surveying equipment. The introduction by Ohmex of the SonarMite, the worlds first truly portable echo sounder system, has been a hard act to follow and it remains the portable instrument of choice in many survey companies around the world. The release of the SonarMite MTX/ BTX instrument marks the next stage introducing a series of equipment designed around the WinSTRUMENT concept using the latest portable computers integrated with new measurement technologies.

Throughout the Hydrographic world the term 'Black Box' has become a euphemism for a device that has a minimal user interface and normally requires connection to a PC to be of any use ! In most cases these boxes are a cut down version of a more conventional instrument without all the features of the full system. The SonarMite extends this idea of a rugged design and minimalist interface to produce a 'Blue Box' system where the user interface is provided by integrated software running on a portable computer connected via a Bluetooth link. The use of wireless technology enables the instrument to be waterproof and used in a hostile environment while the more sensitive computer features can be located in a more user friendly environment up to 50m away from the instrument.

The SonarMite MTX/BTX instrument uses the same 'Smart' integrated transducer technology used in previous systems, in addition to highly reliable bottom tracking algorithms using DSP techniques the system also outputs a quality value associated with every depth measurement made. The popular SonarW7 software has been updated to the latest Windows versions. Software for the 'front end' of the SonarMite is available to run on a wide range of devices from Pocket PCs through to the full range of desktop systems running the Windows operating system.

TECHNICAL SPECIFICATIONS

Transducer Frequency	235KHz Active Transducer
Beam Spread	8 to 10 Degrees
Depth Range	0.30m to 75.00m (Software limited)
Accuracy	+/-0.025m (RMS)
Sound Velocity Range	1400 to 1600 m/sec
Data Output Range	2Hz
Ultrasonic Ping Rate	3 to 6 Hz (Depth dependent)
Power input	9-24 v
Power Consumption	70ma to 120ma (temp dependent)
Data Format	RS232/Bluetooth
Operating Temperature	0 to 45 degree Centigrade
Overall Dimensions	100w x 220h x 45d (mm)
Weight	0.75Kg
Transducer	Airmar P66 or DT800

TEKNİK ÖZELLİKLERİ

Transducer frekansı	235 KHz. Aktif transducer
Dalga yayılım açısı	8-10 derece
Derinlik	0.30—75 m
Hassasiyet	2.5 cm karesel ortalama hata
Çalışabilir ses hızı	1400—1600 m/sn.
Okuma hızı	2 Hz.
Ultrasonik sinyal frekansı	3-6 Hz.
Enerji tüketimi	70ma ile 120 ma arası
Güç besleme	9-24 v DC
Ağırlık	0.75 kg.
Bilgisayar Bağlantısı	RS-232 / Bluetooth
Çalışma sıcaklığı	0 to 45 C°
Transducer	Airmar P66 veya DT800
Ebatları	100 x 220 x 45 (mm takribi)

