



IMAGENEX MODEL 852 ULTRA-MINIATURE SCANNING SONAR

852 Ultra-Miniature
445-027 AUGUST 2004

APPLICATIONS:

- ROV Navigation
- Diving Support
- Inspection
- Search & Recovery

FEATURES:

- Ultra-miniature size is ideal for mounting on today's micro ROV's
- Continuous rotation
- Low cost
- Direct connection to laptop computer

The Model 852 Digital Imaging Sonar was designed for use with the smallest of ROV's. For maximum flexibility, this is a design with a fluid filled front end and a pressure housing for the electronics. The unit requires approximately 2.5 Watts from 24 VDC, or optional 48 VDC. Serial communication is utilized, RS-485 or RS-232 at 115.2 kbps. This unit will scan a maximum of 360° with a maximum range of 50 meters. The total weight in water is less than 0.2 kg (0.4 lbs).



HARDWARE SPECIFICATIONS:	
FREQUENCY	675 / 850 kHz
TRANSDUCER	Imaging type, fan beam, fluid compensated
TRANSDUCER BEAM WIDTH	2.5° x 22°
TRANSMIT PULSE LENGTH	100 microseconds
RANGE RESOLUTION	20 mm
MIN. DETECTABLE RANGE	150 mm
MAX. OPERATING DEPTH	300 m
MAX. CABLE LENGTH	1000 m on typical twisted shielded pair
INTERFACE	RS-485 @ 115.2 kbps (RS-232 optional)
CONNECTOR	IE55-1206-BCR Penetrator
POWER SUPPLY	22 – 30 VDC at less than 2.5 Watts Optional 40 – 56 VDC
DIMENSIONS	See drawing
WEIGHT: In Air	316 g (0.7 lbs)
In Water	150 g (0.3 lbs) with 24" pigtail
MATERIALS	6061-T6 Aluminum & Polyurethane
FINISH	Hard Anodize