

## IMAGENEX MODEL 873 "BLACKFIN 1100" HIGH RESOLUTION SIDESCAN SONAR

## **APPLICATIONS:**

- Harbour Surveillance
- Search & Recovery
- Law Enforcement Work
- Sunken Timber Recovery
- Surveying
- Scientific Research
- Environmental Survey
- Underwater Archaeology

## **FEATURES:**

- High resolution 2000 data points per side
- 1000 m depth rating
- 23 m (75') tow cable included
- LAN compatible
- Built-in track plotter
- · Record to .XTF in real-time
- Programmable IP Address

The Imagenex Model 873 "BlackFin" is a full-featured dual channel, high resolution, sidescan sonar. The BlackFin is an affordable, very user friendly system that incorporates a high speed Ethernet connection to your Windows™ based laptop or desktop PC. Zoom windows are available for target investigation without interrupting real-time data acquisition. Data is displayed in real-time, with or without speed correction, in 9 user selectable colour tables.

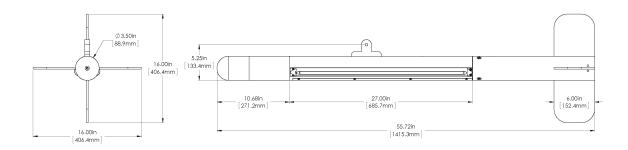


TOWFISH			
SPECIFICATIONS:			
FREQUENCY	1.1 MHz		
TRANSDUCER	One transducer per side, tilted down 20°		
TRANSDUCER BEAM WIDTH	0.25° x 60°		
RANGE RESOLUTION	Range scale ÷ 1000 & Range scale ÷ 2000		
PULSE LENGTH	10 μs CW / CHIRP		
MAX. OPERATING DEPTH	1000 m (~3000')		
MAX. CABLE LENGTH	600 m (~2000')		
INTERFACE	2-wire Ethernet Extender		
CONNECTOR	NNECTOR Wet mateable (Subconn MCBH4M-AS)		
POWER SUPPLY	40 – 55 VDC at less than 3 Watts,		
	supplied from Surface Interface Box		
DIMENSIONS	89 mm (3.5") diameter x 1420 mm (56") length		
WEIGHT: In Air	15.5 kg (34 lbs)		
In Water	12.7 kg (28 lbs)		
MATERIALS	6061-T6 Aluminum		
FINISH	Anodized, powder coat		

SOFTWARE	BlackFin.exe			
SPECIFICATIONS:				
WINDOWS™ OPERATING SYSTEM	Windows™ XP, Vista, 7, 8, 10			
ZOOM MODES	1x, 2x, 4x dynamically moveable			
RANGE SCALES	10 m, 20 m, 30 m, 40 m, 50 m			
FILE FORMAT	(filename).872, (filename).XTF			
GPS INPUT				
NMEA 0183 FORMATS:	GLL and VTG; GGA and VTG; RMC			
RECOMMENDED	800 MHz Pentium 3			
MINIMUM COMPUTER	256 MB RAM			
REQUIREMENTS:	2 GB Hard Disk			
	1024 x 768 x 256 colour graphics			

SURFACE INTERFACE BOX				
HARDWARE SPECIFICATIONS:				
INTERFACE TO PC	10/100 Mbps Ethernet			
INTERFACE TO SONAR HEAD	2-wire Ethernet Extender			
CABLE CONNECTOR	6-pin MS (female)			
SONAR HEAD	48 VDC			
POWER SUPPLY OUTPUT				
DIFFERENTIAL CAPABLE GPS	Built-in			
DIMENSIONS	31 cm (12.2") length x 26 cm (10.2") width x			
	8.7 cm (3.4") height			
WEIGHT	0.9 kg ( 2 lbs)			
MATERIALS	Aluminum			
FINISH	Powder Coated			
POWER REQUIREMENT	110 / 220 VAC 50 / 60 Hz, 0.1 Amp			

COMMUNICATIONS PROTOCOL	
SPECIFICATIONS:	
ETHERNET INTERFACE	Filename:
SPECIFICATION (v1.00)	High Resolution Sidescan Specification.pdf
SOURCE CODE AVAILABLE FOR TESTING	RecordData_HiRes.cpp



ORDERING INFORMATION:			
1.1 MHz unit w / 23 m tow cable	Standard	873-000-150	

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