

# IMAGENEX MODEL 872 “YELLOWFIN” SIDESCAN SONAR

**APPLICATIONS:**

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

**FEATURES:**

- Triple frequency
- High resolution 1000 data points per side
- 300 m depth rating
- Up to 400 m (1300') total coverage
- 23 m (75') tow cable included
- LAN compatible
- Built-in track plotter
- Built-in internal GPS receiver
- Record to .XTF in real-time

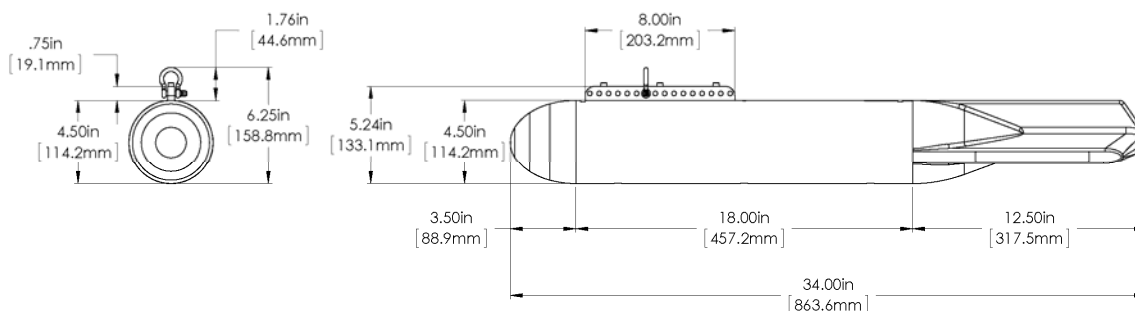
The Imagenex Model 872 “YellowFin” is a full-featured dual channel, high resolution, sidescan sonar. The YellowFin is an affordable, very user friendly system that incorporates a high speed Ethernet connection to your Windows™ based laptop or desktop PC. Integrated power and a built-in differential-ready GPS receiver complete this fantastic system. 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.



<b>UNDERWATER HARDWARE SPECIFICATIONS:</b>	
<b>FREQUENCY</b>	260 kHz / 330 kHz / 800 kHz nominal
<b>TRANSDUCER</b>	One transducer per side, tilted down 20°
<b>TRANSDUCER BEAM WIDTH</b>	260 kHz: 2.2° x 75° 330 kHz: 1.8° x 60° 800 kHz: 0.7° x 30°
<b>RANGE RESOLUTION</b>	Range scale ÷ 1000
<b>MAX. OPERATING DEPTH</b>	300 m (~1000')
<b>MAX. CABLE LENGTH</b>	600 m (~2000')
<b>INTERFACE</b>	Analog telemetry
<b>CONNECTOR</b>	Wet mateable (Subconn MCBH4M-AS)
<b>POWER SUPPLY</b>	40 – 55 VDC at less than 3 Watts, supplied from Surface Interface Box
<b>DIMENSIONS</b>	114 mm (4.5") diameter x 833 mm (32.8") length
<b>WEIGHT:</b>	5.4 kg (12 lbs) not including ballast
<b>In Water</b>	
<b>BALLAST</b>	Standard diver belt weights (readily available at dive shops)
<b>MATERIALS</b>	Polyurethane & 6061-T6 Aluminum
<b>FINISH</b>	Hard anodized

<b>SURFACE INTERFACE BOX HARDWARE SPECIFICATIONS:</b>	
<b>INTERFACE TO PC</b>	10 Mbps Ethernet
<b>INTERFACE TO SONAR HEAD</b>	FSK analog telemetry
<b>CABLE CONNECTOR</b>	5-pin MS (female)
<b>SONAR HEAD POWER SUPPLY OUTPUT</b>	48 VDC
<b>DIFFERENTIAL CAPABLE GPS</b>	Built-in
<b>DIMENSIONS</b>	31 cm (12.2") length x 26 cm (10.2") width x 8.7 cm (3.4") height
<b>WEIGHT</b>	0.9 kg ( 2 lbs)
<b>MATERIALS</b>	Aluminum
<b>FINISH</b>	Powder Coated
<b>POWER REQUIREMENT</b>	110 / 220 VAC 50 / 60 Hz, 0.1 Amp

<b>SOFTWARE SPECIFICATIONS:</b>	<b>YellowFin.exe</b>
<b>WINDOWS™ OPERATING SYSTEM</b>	Windows™ XP, Vista, 7, 8, 10
<b>ZOOM MODES</b>	1x, 2x, 3x, 4x, and 5x dynamically moveable
<b>RANGE SCALES</b>	10 m, 20 m, 30 m, 40 m, 50 m, 60 m, 80 m, 100 m, 125 m, 150 m, and 200 m
<b>FILE FORMAT</b>	(filename).872, (filename).XTF
<b>GPS INPUT (4800, N, 8, 1) NMEA 0183 FORMATS:</b>	GLL and VTG; GGA and VTG; RMC
<b>RECOMMENDED MINIMUM COMPUTER REQUIREMENTS:</b>	800 MHz Pentium 3 256 MB RAM 2 GB Hard Disk 1024 x 768 x 256 colour graphics



<b>ORDERING INFORMATION:</b>		
<b>300 m unit w / 23 m tow cable</b>	Standard	872-000-150
<b>Surface Interface Box</b>	Standard	872-000-001
60 m (200') Sidescan tow cable	Option	-021
100 m (330') Sidescan tow cable	Option	-033

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