



THE NEW SS150 **ADVANCED CTFM SONAR**

Continuous Transmission Frequency Modulated

NEW ... FOR SMALL TO MID-SIZED ROVS, AUVS, MANNED SUBS

SMALL, LIGHT WEIGHT
LOW POWER CONSUMPTION
RANGES TO 2000 FEET
SCAN RATE OF 45 DEGREES PER SECOND!

MEETS THE NEEDS OF ROVs FOR MEDIUM RANGE CAPABILITIES IN A SMALL, LIGHT-WEIGHT PACKAGE. PROVIDES VERY HIGH DATA RATE OVER A SCAN SECTOR OR 360 DEGREES.

ACTIVE AND PASSIVE MODES

Active mode provides long-range search and obstacle avoidance capability, swimmer detection, protection of water borne assets, survey, inspection and numerous other applications. Designed for ROVs, AUVs, manned submersibles, towed bodies and surveillance sites.

The built-in pinger mode permits location and tracking of beacons operating in a tunable 20 - 50 kHz band. Flight recorders may be located with a CTFM sonar pinger-receiver.



ELECTRONICS

LOW POWER CONSUMPTION

Power consumption for the SS150 is only 30 watts for a 60 Hz 115V source, or an optional DC converter unit can be integrated.

THE CTFM AUDIO TONE

When operator / pilots are busy flying their vehicle, the audio tone, proportional to range, provides a means of attending the sonar without "watching" it, thereby reducing operator fatigue. The audio tone also assists in identifying the composition of targets.



SOUNDHEAD

HIGH RESOLUTION (Range and Azimuth)
PC INTERFACE (Windows 2000)



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OPERATING SYSTEM HOST PC

Windows 2000

OPERATING MODES

ACTIVE: CTFM (Continuous Transmission
Frequency Modulated)
PASSIVE: Beacon Receiver

OPERATING FREQUENCY

Swept Band (CTFM)
ACTIVE (water): 205 to 220 kHz
ACTIVE (test): 100 to 115 kHz
PASSIVE: 20 to 50 kHz

COMMUNICATIONS INTERFACE

PROTOCOL: RS-485 / RS-422
WIRES REQUIRED: 2 for 485; 4 for 422

RANGE SCALES

<u>FEET</u>	<u>METERS</u>
4 – 20	1.2 – 6
15 – 75	4.0 – 20
40 – 200	12.0 – 60
150 – 750	40.0 – 200
400 – 2000	120.0 – 600

TYPICAL MAXIMUM RANGE

1500 Feet

RANGE RESOLUTION

1% of Range Scale

SCAN RATE

360° Coverage in 8 Seconds
(45° per second)

SCAN MODES

Off, 30°, 90°, 180°, 360°

DEPTH RATING

3000 psi

EMERGENCY BEACON

FREQUENCY TUNING

20 to 50 kHz

OPERATING INTERFACE

DISPLAY Plan position Indicator,
Full circle or Sector,
5 Range Rings

COMMANDS

Mode (SONAR or BEACON)
Range Scale
Beacon Tune
Audio Level
Receiver Gain
Target Display Threshold
Sector Scan (30°, 90°, 180°, 360°)
Scan Reverse

BEAM WIDTH

Transmit - 15° Elevation x 40° Azimuth
Receive - 15° Elevation x 2° Azimuth

AZIMUTH RESOLUTION

2 Degrees

POWER

Power	30 Watts
Line Voltage	95 - 125 Vrms
Line Voltage (alt)	220 - 250 Vrms
Line Frequency	50 – 60 Hz
Line Current	.25 amps @ 115 VAC
Voltage Isolation	1600 Vrms

DIMENSIONS

Scanning Mechanism	
Height (without Transducers)	5.25"
Diameter	5.00"
Electronics Unit	
Length	11.5"
Diameter	5.00"

CONNECTORS

On Training Mechanism	Burton 5999-1149-C002
On Cylinder (to Training Mech)	5999-1149-C002
Cylinder (Power & Telemetry)	Impulse MHDG-7-BCR

MEDIA DATA STORAGE

All mission data may be archived in real time to the
hard drive for mission reconstruction.

INFORMATION CONTAINED IN THIS BROCHURE IS SUBJECT TO CHANGE WITHOUT NOTICE

for more
information:

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