

# Wideband Multibeam Sonar with Real-time Image Update



- > Long range
- > High angular resolution
- > MPEG-4 video streaming
- > Ultra compact single unit solution

## WBMS 128-04-90

Compact High-Resolution Multibeam Sonar

The WBMS-series from Norbit are ultra compact sonars designed specifically for use on moving platforms. The multibeam concept allows real-time image updates, even at long ranges. Norbit's wideband technology achieves extremely high resolution and long detection range.

**Product sheet:** PS-080001-3

## Applications

- ◆ Inspection (on ROV, AUV and other moving platforms)
- ◆ Obstacle avoidance
- ◆ Search and recovery

## Features

- ◆ High angular resolution: 128 beams
- ◆ Composite transducers
- ◆ Long range
- ◆ High update rate
- ◆ Compact size (single unit solution)
- ◆ Ethernet interface
- ◆ Standard video streaming protocols over Ethernet (MPEG-4)

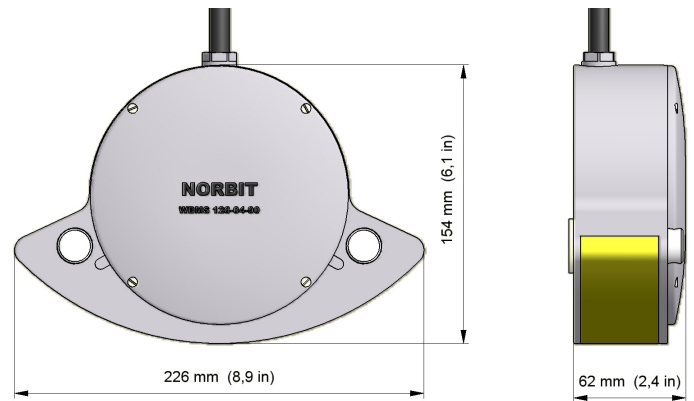
## Extensions

- ◆ Ultra high resolution (> 512 channels)
- ◆ 3D sonar
- ◆ Navigation integration

## Options

- ◆ 60, 90, 120 or 180° coverage angle
- ◆ 400 kHz or 700 kHz operating frequency

The Norbit WBMS-series are based on a flexible sonar platform that utilizes the latest in analog and digital signal processing technology. This enables the manufacturing of compact, single unit, multibeam sonars.



## Technical specifications

Angle horizontal	90°
Angle vertical	20°
Angular resolution	< 0.75°
Operating frequency	400 kHz ± 40 kHz
Range resolution	< 10 mm
Range	> 100 m
Update rate	up to 20 Hz
Depth rating	300 m or 4000 m
Mass	< 2 kg
Buoyancy	< -7 N
Dimensions	226 x 62 x 154 mm
Operating temperature	-20°C to +60°C
Voltages	12 to 28 VDC
Power consumption	< 30 W
Interfaces	100 Mb/s Ethernet 16 Mb/s RS-485

**NORBIT** is an ODM supplier of industrial electronics.

**Norbit has given birth to a long line of ground-breaking products within the following fields:** Radar, Ultrasound, Sonar, DSRC, Navigation systems, Radio and antenna systems, Power line modems.

Norbit reserves the right to amend specifications in the light of continuing development.