

Technical sheet Front page

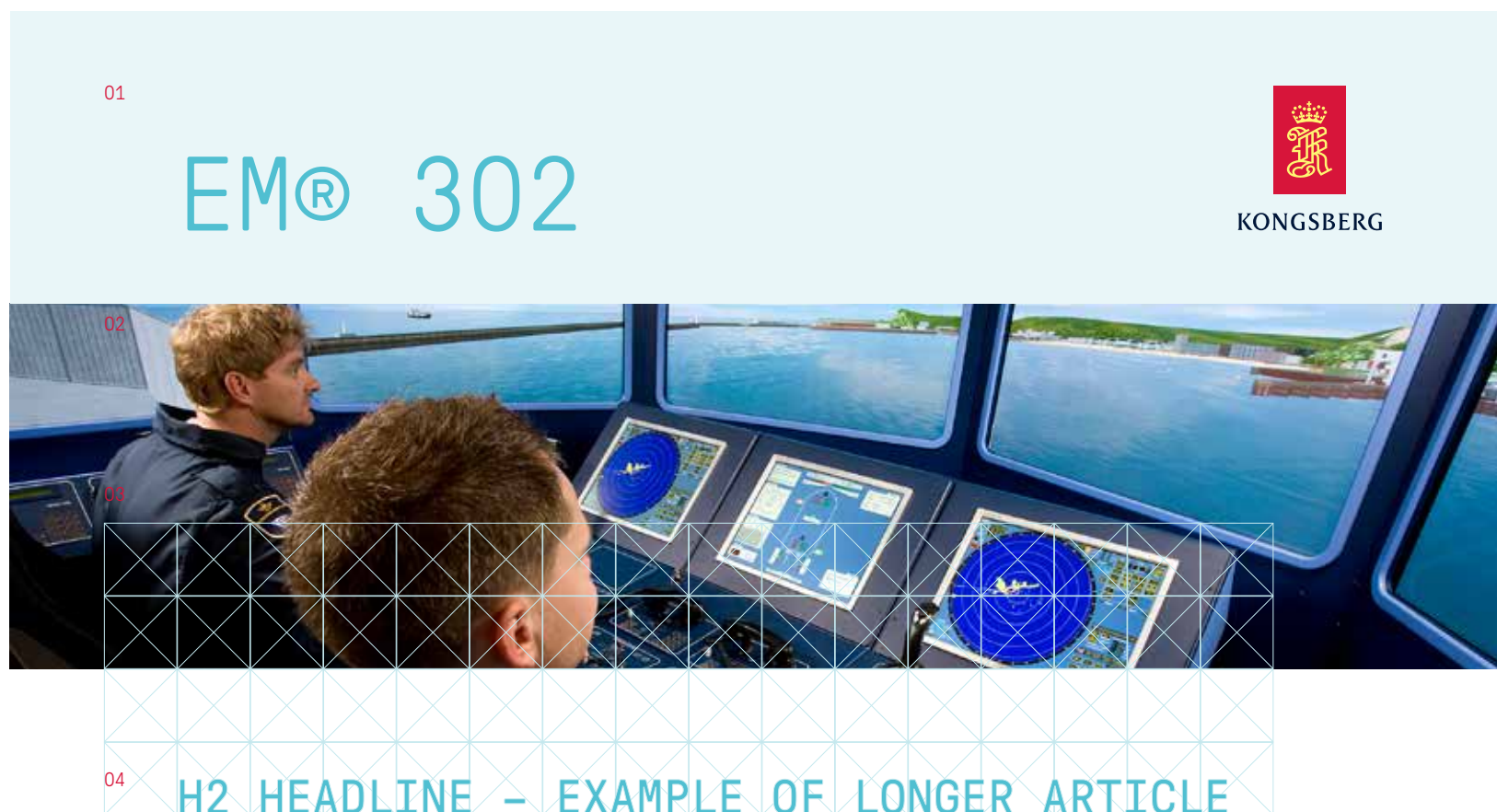
01 Product name
Enter name of product here.

02 Full width image
NOTE! The images used are just for placement and example purposes, please insert images that are relevant to the topic/product.

03 Box pattern
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04 Headline with support headline

05 Bodytext



Ingress Pressura. Unt inctur ape prat parchitatur. Eveles estemped qui idelicit quas ut is aute es porer itius ea dit volecusti nis min.

05 Beam focusing is applied both during reception and transmission. EM 302 is equipped with a function to reduce the transmission power in order to avoid hurting mammals if they are close by.

The system has up to 432 soundings per swath with pointing angles automatically adjusted according to achievable coverage or operator defined limits.

With dual swath (two swaths per ping) the transmit fan is duplicated and transmitted with a small difference in alongtrack tilt. The applied tilt takes into account depth, coverage and vessel speed to give a constant sounding separation alongtrack.

In dual swath mode, 2 swaths are generated per ping cycle, with up to 864 soundings. The beam spacing is equidistant or equiangular.

EM 302 uses both CW and FM pulse forms. FM sweep with pulse compression on reception is used to increase the maximum useful swath width. The FM pulses will also increase the resolution compared to CW pulses of the same length.

The transmit fan is split in several individual sectors with independent active steering. This allows stabilization which compensates for the vessel movements: yaw, pitch and roll. Each transmit sector has individual beam focusing.

The EM 302 transducers are modular linear arrays in a Mills cross configuration with separate units for transmit and receive. The transmitter array is available as 0.5, 1, 2, or 4 degree resolution, while the receive array is available as 1, 2, or 4 degrees.

The receive transducer is wideband. In conjunction with a separate low frequency transmit transducer, the EM 302 may optionally be able to deliver sub-bottom profiling capabilities with a very narrow beamwidth. This system is known as the SBP 300 sub-bottom profiler.

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01 Background tint & support illustrations or images

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02 Bullepoints with highlighted facts

03 Box pattern

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04 Technical data in three columns

Adjust length of this according to need.

04 Table with technical data

05 Footer / kontaktinfo

Insert correct contact information for the local KONGSBERG branch here.

Insert partner logo and contact information as indicated here.

01

FEATURES

- 02
 - Depth range from 10 to 7000 m
 - Swath width up to 5.5 times water depth/8 km
 - Focused beams for transmission and reception
 - High density and multiping modes for increased resolution
 - Up to 864 soundings per ping
 - Yaw, pitch and roll compensation and stabilisation
 - High accuracy
- 03
 - Seabed image (sidescan) data display and recording
 - Water column data display and recording
- 04
 - Modular design, beamwidths 0.5 to 4 degrees
 - Integrated sub-bottom profiler available
 - Mammal protection
 - Compliant to IHO S-44 order 1A



TECHNICAL SPECIFICATIONS

EM 302 PERFORMANCE DATA

| | | | |
|----|--|---|--|
| 04 | Operating frequency Depth range Swath width Pulse forms Swath profiles per ping Motion compensation: <ul style="list-style-type: none"> • Yaw • Pitch • Roll Sounding pattern Range sampling rate High resolution mode Sidelobe suppression Effective pulse length 30 kHz | 10-7000 m 5.5xdepth, tao more than 8 km CW and FM chirp 2 ± 10 degrees ± 10 degrees ± 15 degrees Equidistant/equiangular 3.25 kHz (23 cm) 25 dB 0.4 ms CW to 200 ms FM High density processing | Suppression of sounding artefacts Beam focusing Beamforming method Gain control Swath width control Seabed imagery/sidescan sonar image Water column display Mammal protection Sub-bottom profiling 8 frequency coded transmit sectors per swath On transmit and receive Time delay Automatic Manual or automatic, all soundings intact when reduced swath width Standard Standard Standard Yes, by integration with SBP 300 or Topas |
|----|--|---|--|

Versions of EM 302

| 04 System version (TX/RX): | 0.5 x 1 | 1 x 1 | 1 x 2 | 2 x 2 | 2 x 4 | 4 x 4 |
|----------------------------|---------|-------|-------|-------|-------|-------|
| Max no of soundings/swath | 432 | 432 | 432 | 216 | 216 | 216 |
| Max no of swaths per ping | 2 | 2 | 2 | 2 | 2 | 2 |
| Max no of soundings/ping | 864 | 864 | 864 | 864 | 432 | 432 |

Laptop, HWS and monitor can be delivered on request.

Front page image: Seamounts mapped in 2014 by the NOAA Ship Okeanos Explorer in the North Atlantic.

The data is courtesy of NOAA Office of Ocean Exploration and Research. Specifications subject to change without any further notice.

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