

# HISAS 2020 ACR 80



KONGSBERG



## Maximize data quality in all operational scenarios

The HISAS 2020 is the latest generation synthetic aperture sonar from KONGSBERG. It brings the extreme resolution and operational robustness of the HISAS family of sonars to a new set of platforms with easy to integrate digital transducers.

### Designed for sub-centimeter resolution

HISAS 2020 is designed to cover most high-resolution mapping needs with a sub-centimeter-resolution sonar design that allows for best-of-class object classification and high precision bathymetry for general mapping and surveillance operations. This makes the sonar ideal for critical underwater infrastructure protection and mine-counter-measures tasks but also provides an excellent sonar for any task requiring intimate knowledge of what is happening on or around the seafloor and environmental monitoring.

### Easy Integration

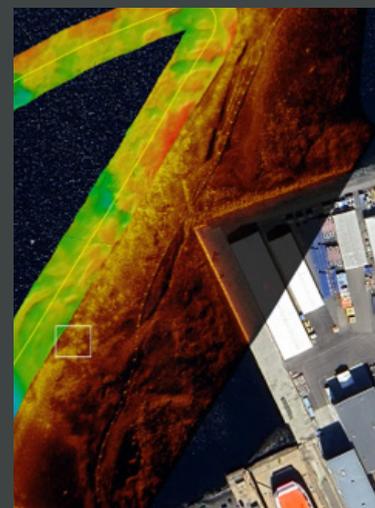
Featuring digital transducers with standard underwater cables the HISAS 2020 it can be integrated on most platforms that operate a KONGSBERG EM2042 or similar. In addition, integrated in-mission processing and a total power draw of less than 100W makes it ideal for more traditional medium size UUV use as well as from surface ships, towfish and USVs.

### Bathymetric Commercial Survey

With standard file-format outputs and data supporting IHO-SO 44 compliance data, the HISAS 2020 may be used with commercial survey processing packages to obtain very high-resolution bathymetric mapping results.

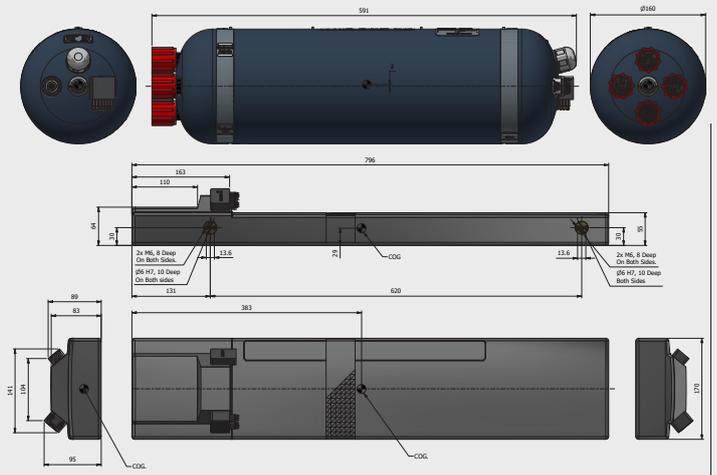
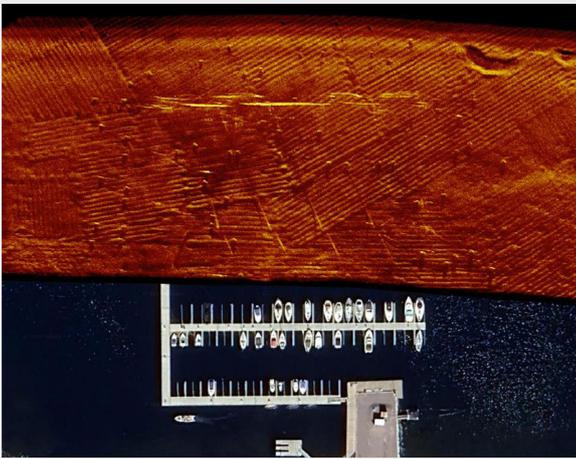
### Mine Counter Measures

Additional performance modes and acoustic colour options provide extreme classification performance in extreme scenarios.



## FEATURES

- Multi platform
- Sub cm resolution
- Digital transducers
- Precision bathymetry
- Easy integration
- Imagery as XTF or GeoTIFF
- Mapping / mine hunting modes
- Superior object classification
- Modular transducers



## Technical specifications

HISAS 2020 ACR 80

### Resolution

SAS premium	<10×10mm
SAS standard	<3×3cm
SAS bathy	<20×20×20@100m
SAS bathy gridding	<10×10cm

**Area Coverage Rate** 1.2km<sup>2</sup>/h

**Frequency range** 120–210kHz

**Power Consumption** <90W incl processing

**Imagery Output** Georeferenced XTF (X21)

**SAS bathymetry output** Kongsberg.all (XYZ88) – IHO S-44 SO  
CARIS HIPS & SIPS and QPS Qimera Compatible

**Navigation system support** KM Sunstone / NavP / NavLab, Seatex, iXblue PHINS

### Host platforms

AUV/UUV, tow-fish, USV, submarine

### Platform speed

2–8 knots

### Operational depths

5–1000 msw

### Transducer setup

2×800mm TRX modules

### Export control restrictions

No

### Dry weights

TRX ~10kg × 2,  
Processing bottle 12kg  
(~3kg downward buoyancy)

### Data rates

6 MB/s – 50 MB/s

### LF option

20–40kHz



Specifications subject to change without any further notice.