

R2SONIC 2020

R2Sonic 2020 merupakan peralatan Multibeam Echosounder (MBES) yang diperuntukan untuk melakukan survei batimetri di area dangkal (shallow water) dan sangat tepat diperuntukan untuk survei area pesisir. R2Sonic 2020 mempunyai frekuensi 200kHz – 450kHz dan beam width 1.8° x 1.8° pada frekuensi 450kHz dan 4° x 4° pada frekuensi 200kHz. MBES R2Sonic 2020 mampu memetakan dasar laut hingga kedalaman 200m (berdasarkan spesifikasi dari pabrikan) dan memiliki jumlah beam hingga 1024 beam.

Applications :

- Hydrography Survey
- Very small vessels
- Small ASV and AUV

Completeness :

- Sonar interface unit
- Sonar Transducer
- Data Logging (Notebook)
- Pole & Frame transducer
- Cable Transducer

Selectable Frequencies : 200kHz – 450kHz.

Minimum Frequency Increase : 1Hz

Beamwidth, Across Track

And Along track :

- 1.8° x 1.8° at 450kHz
- 4° x 4° at 200kHz

Number of sounding : Up to 1024 soundings per ping

Max Speed (vessel) : 11.1 knots for full coverage (*)

Near-field focusing* : YES

Roll stabilized beams : YES

Pitch stabilized beam : YES

ROBO™ Automated beams : YES
Auto Power, Pulse width, rangeTrack™, GateTrac™,
SlopeTac™

Saturation monitor : YES

Selectable Swath Sector

(also referred as Max Coverage) : 10° to 130° (User selectable in real-time)

Sounding Patterns :
Equiangular
Equidistant
Single/double/quad modes
Ultra High Density (UHD)

Sounding Depth : Up to 200m+

Pulse Length : 15µs – 1ms

Pulse Type : Shaped CW

Ping rate : Up to 60Hz

Bandwidth : Up to 60kHz

Immersion Depth :
100m, Optional 4000m
FLS projectors are rated 4000m

Bottom Detect Resolution : 3mm

Operating Temperature : -10°C to 40°C

Storage Temperature : -30°C to 55°C

ELECTRICAL INTERFACE

Mains : 90-260VAC, 45-65Hz

Power consumption : 20W avg

Uplink/downlink : 10/100/1000Base-T Ethernet

Sync in, Sync Out : TTL

Deck cable length : 15m, optional 25m and 50m

MECHANICAL

Sonar Dimension : 140 x 161 x 133.5 mm

Sonar Mass : 4,4kg

Sonar Interface Module Dim : 280 x 170 x 60 mm

Sonar Interface Module Mass : 2.4kg

