



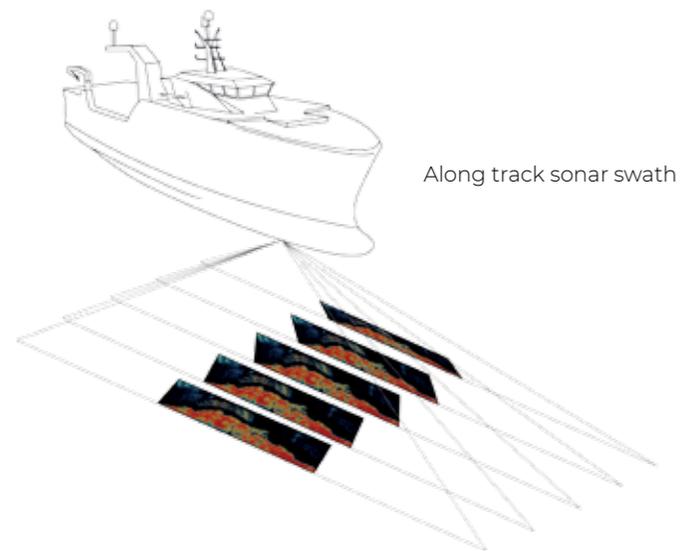
SEAPIX-F FOR BOTTOM TRAWLING | **iXblue**

VOLUME 3D SONAR FOR BOTTOM TRAWLERS

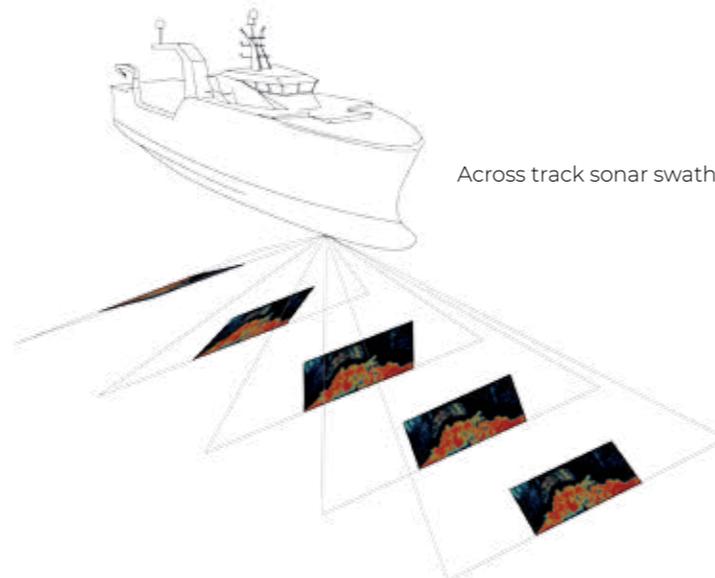


SeapiX-F carries out real-time full 3D biomass assessment and bathymetry. It provides unique sea-tested fish classification results for demersal fish species. With highly accurate and reliable information, skippers can conduct more efficient and selective bottom trawling operations.

SeapiX-F enables the formation of Across and Along track sonar swaths and Echograms, from Port to Starboard and from Fore to Aft. Skippers can see valuable near-bottom fishes all around the vessel.



Along track sonar swath



Across track sonar swath

SPECIFICATIONS

Acoustic power	8KW
Frequency	150 KHz
Number of beams per swath	512 beams (256 per swath)
Volumetric resolution	0.6m ³
Pelagic fish coverage	120°x120° (650m wide @200m depth)
Bathymetry coverage	120°x120° (650m wide @200m depth)
Bottom demersal fish coverage	30°x30° (100m wide @200m depth)

RANGE

Pelagic fish	Up to 450m
Bathymetry	Up to 600m
Bottom echograms	Up to 750m

RANGE FOR NEAR BOTTOM FISHES

Horse Mackerel	250m
Hake, Atka Mackerel	280m
Red fish, Atlantic Cod, Pollock, Withing	330m
Pacific Cod	380m

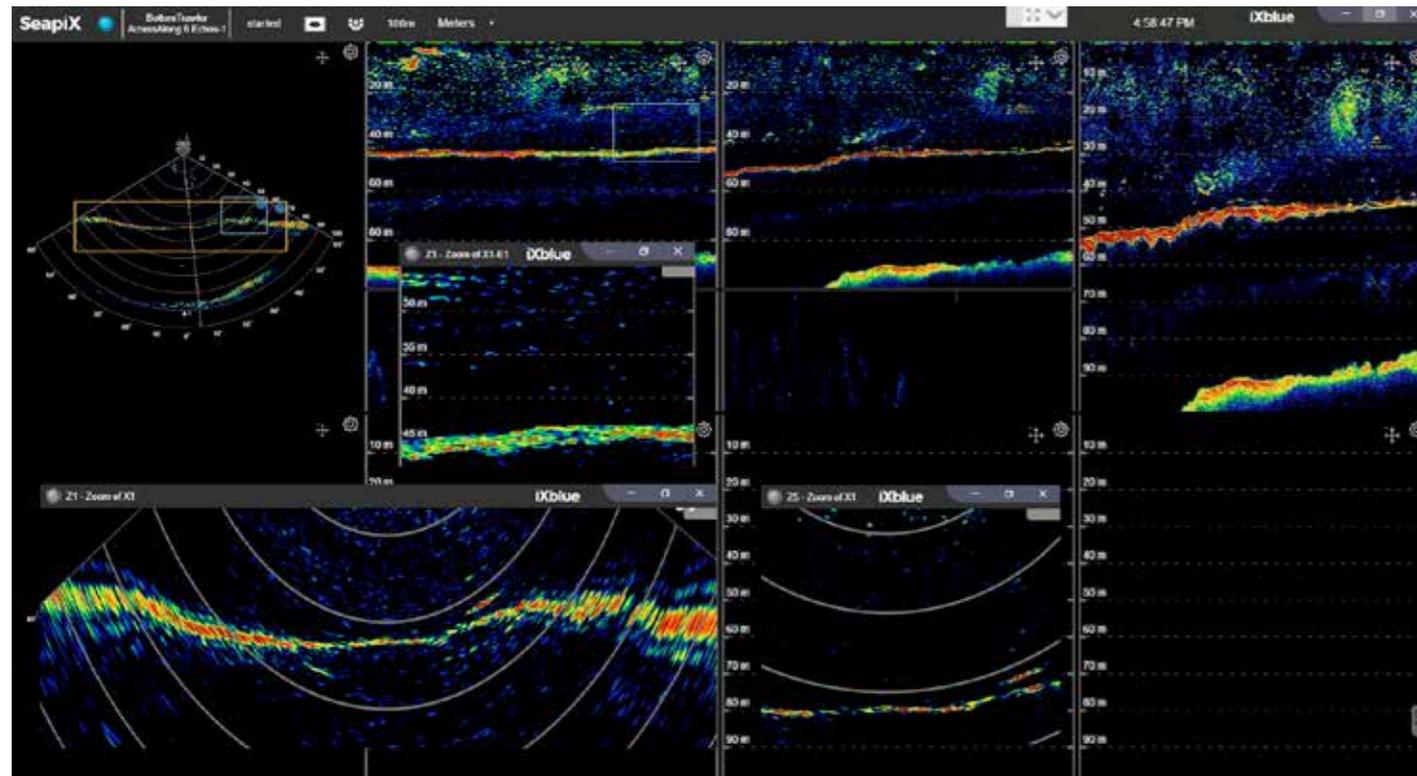
OMNIDIRECTIONAL FISH FIND SYSTEM

Enables the longest detection distance over bottom in all directions

- Biomass control Fore, Aft, Port and Starboard
- 30° cone coverage at 5m above seafloor (representing 100m range at 200m depth)

Offers volumetric assessment & unique « all range » fish finding system

- Volumetric sonar swaths and volumetric echograms
- 3D vision of the fish detection over seafloor
- 512 sharp pencils operating in high frequency with 4Kw power
- Covering « all range » up to 400m near bottom depth



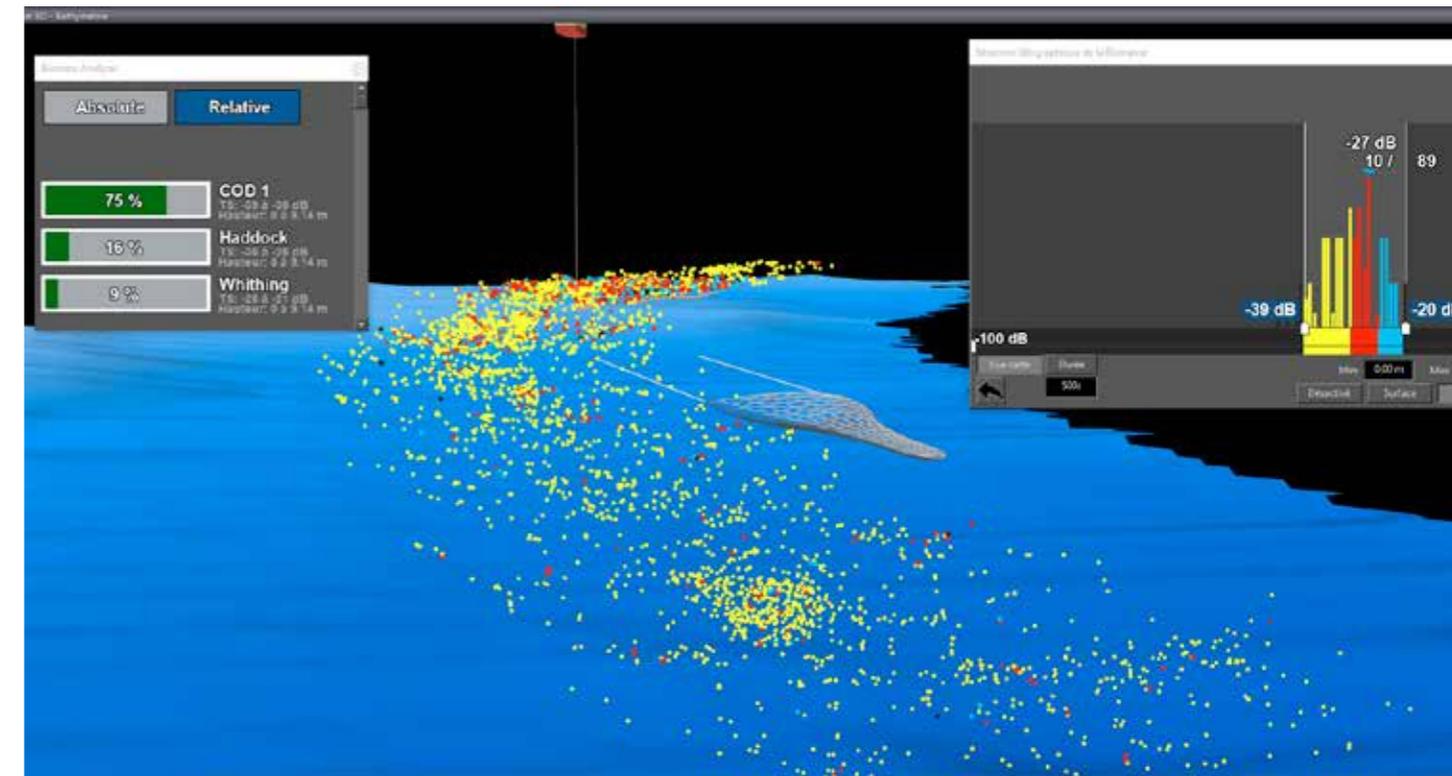
REALISTIC BIOMASS EVALUATION

Provides true abundance estimation

- Pencils of 1.6° forming 256 Split beams in Across track and 256 Split beams in Along track
- 0.6m³ volumetric resolution
- Full 4K acoustic resolution available in sonar Swath and Echogram windows including zooms facilities

Classifies fishes in real-time

- Calibrated TS split beam in all beams allowing qualitative fish sampling for all individual detections from the whole volume
- Classification by species in GBA analyzer
- Species and abundances shown by areas, layers or duration to trawl gear



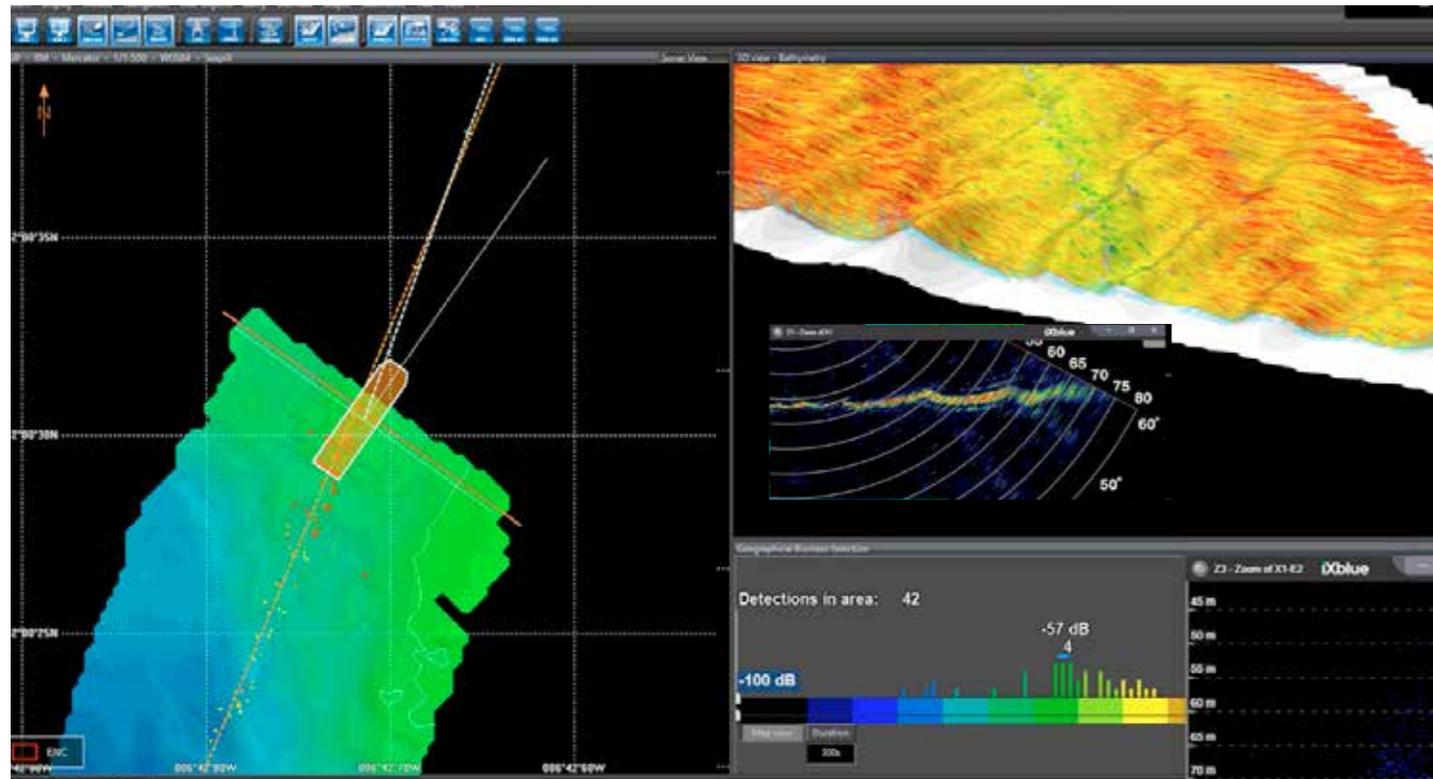
COMPLETE FISHING OPERATION AT A GLANCE

Records high resolution bathymetry

- Port/Starboard bathymetry made by 256 beams
- Fore/Aft bathymetry made by 256 beams
- Bottom Hardness mapping from 256 beams
- Roll and Pitch beams stabilization with embedded IMU motion sensor

Correlates seabed, biomass and gear with vessel navigation

- Data merged into 2D/3D navigation plotter
- 2D and 3D synthetic view to help decision-making for maneuvering



SMART OPERATIONS MODES

SeapiX-F offers both preconfigured operation modes and customizable ones by adding Echograms and Sonar swaths.

Narrow and Volumetric Echograms

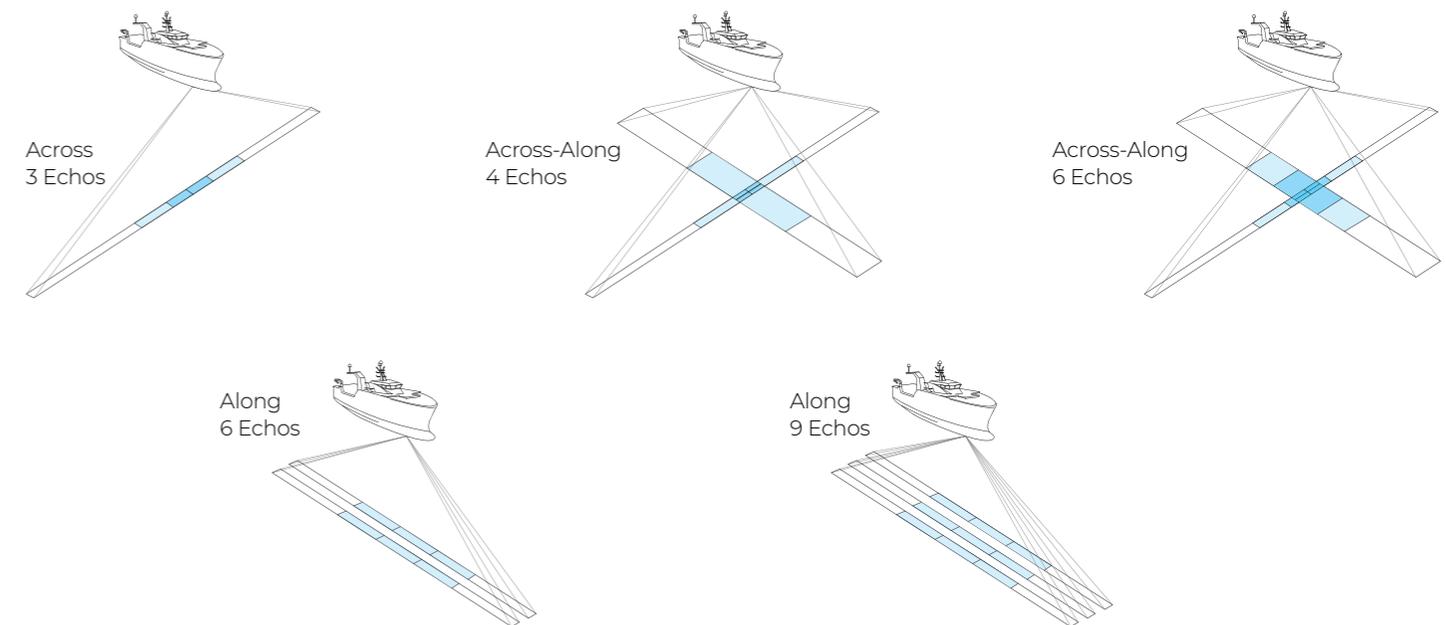
- 3 to 9 Echograms or more, from Aft to Fore and Port to Starboard
- 1.6° narrow Echograms
- 6°, 10°, 15°, 40°, 50° volumetric Echograms (adjustable from 1.6 to 220°)

Flexible fish and ecosystem analysis

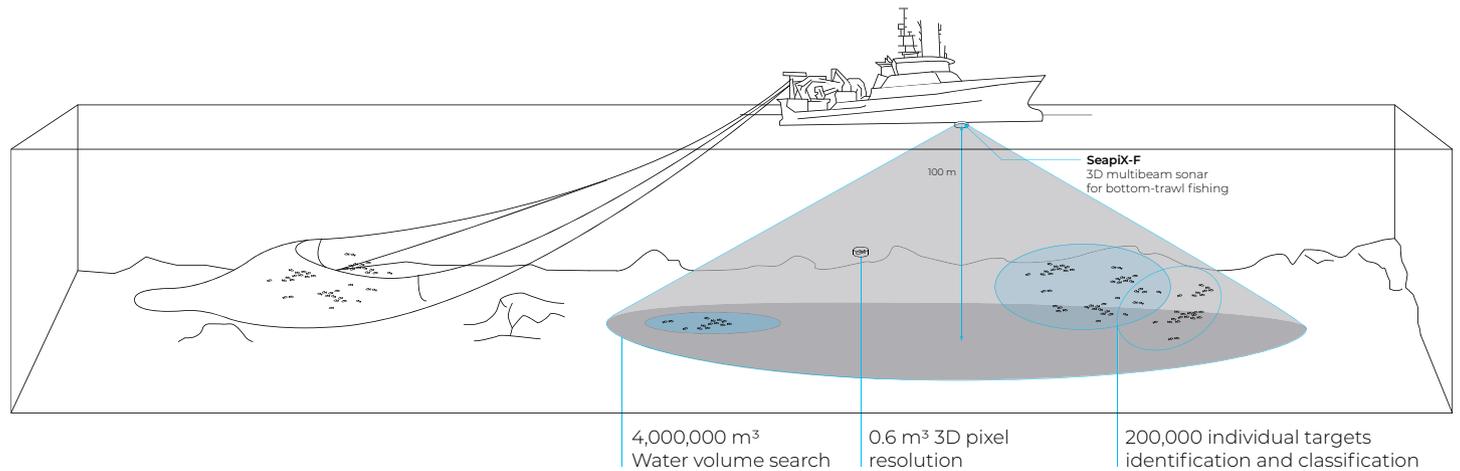
- Biomass analysis from selected Echograms or Sonar swaths
- Bathymetry from selected Sonar swath, from Port to Starboard or Aft to Fore

Sonar swaths in all directions

- 1 to 3 Sonar swaths or more, from Aft to Fore and Port to Starboard
- 1.6° narrow Sonar swath



SOLUTION FOR BOTTOM TRAWLING



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