FURUNO

Split-beam Echosounder FCV-38

AFAS2021

2021.11.1

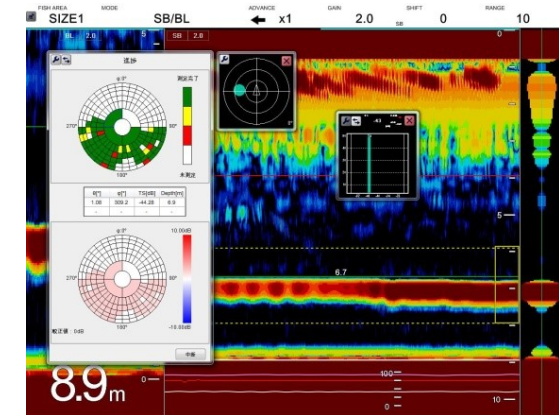Satoshi Misonoo

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◆ **Concept**

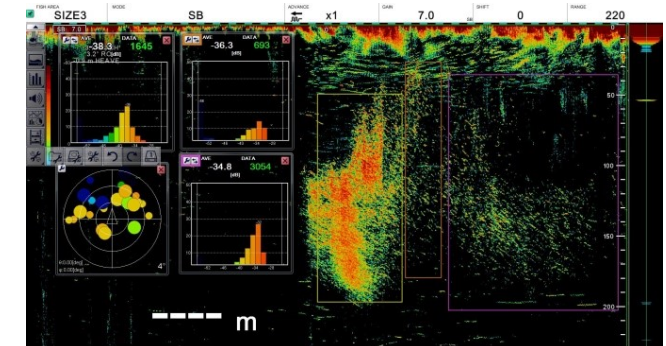➢ Split-beam echosounder with **Stabilized** Echograms and TS estimation

◆ **Features**

➢ Sphere Calibration Function

➢ Output **netCDF4** data

➢ TS histogram and target trace graph

➢ **Beam Stabilizer**

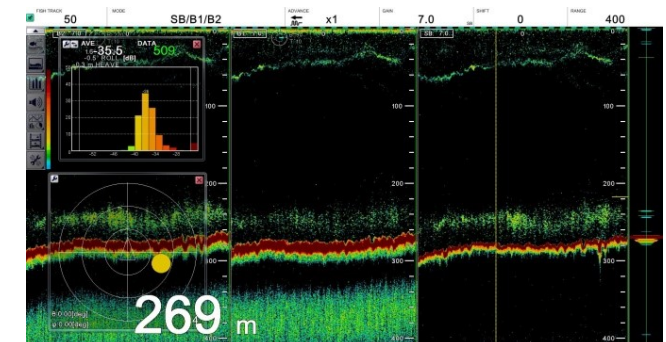➢ Heave Compensation

➢ Easy and quick operation

➢ Deep Sea Mode
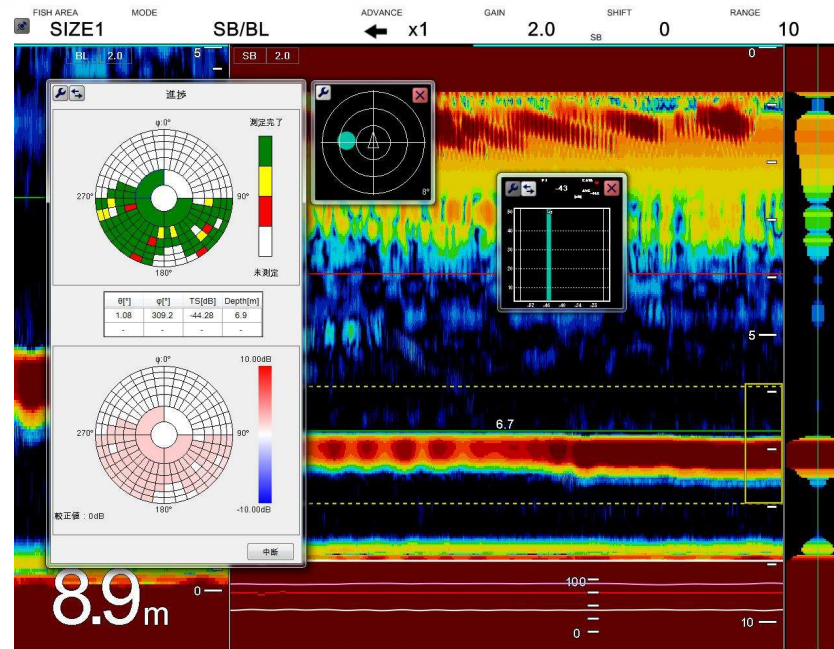
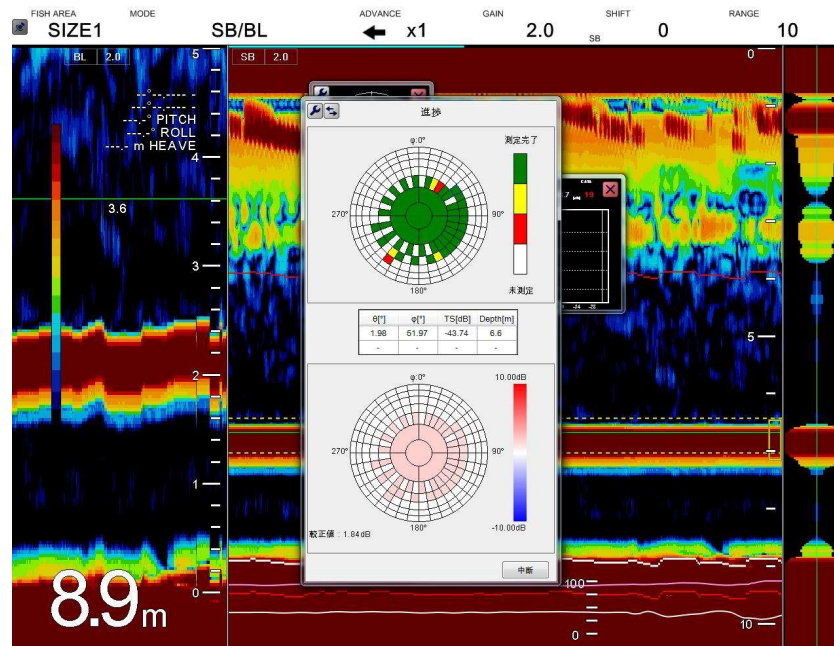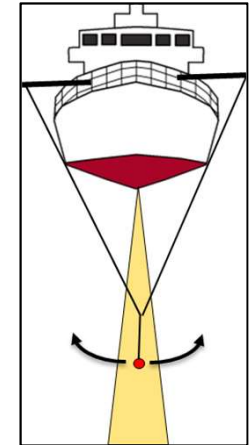➢ **Multi-beam** directions

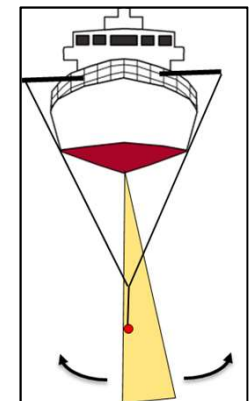Calibration

TS graph

Multi-beam directions

Calibration

➢ Two different calibration Mode available

➢ The "Manual Mode" is the standard method

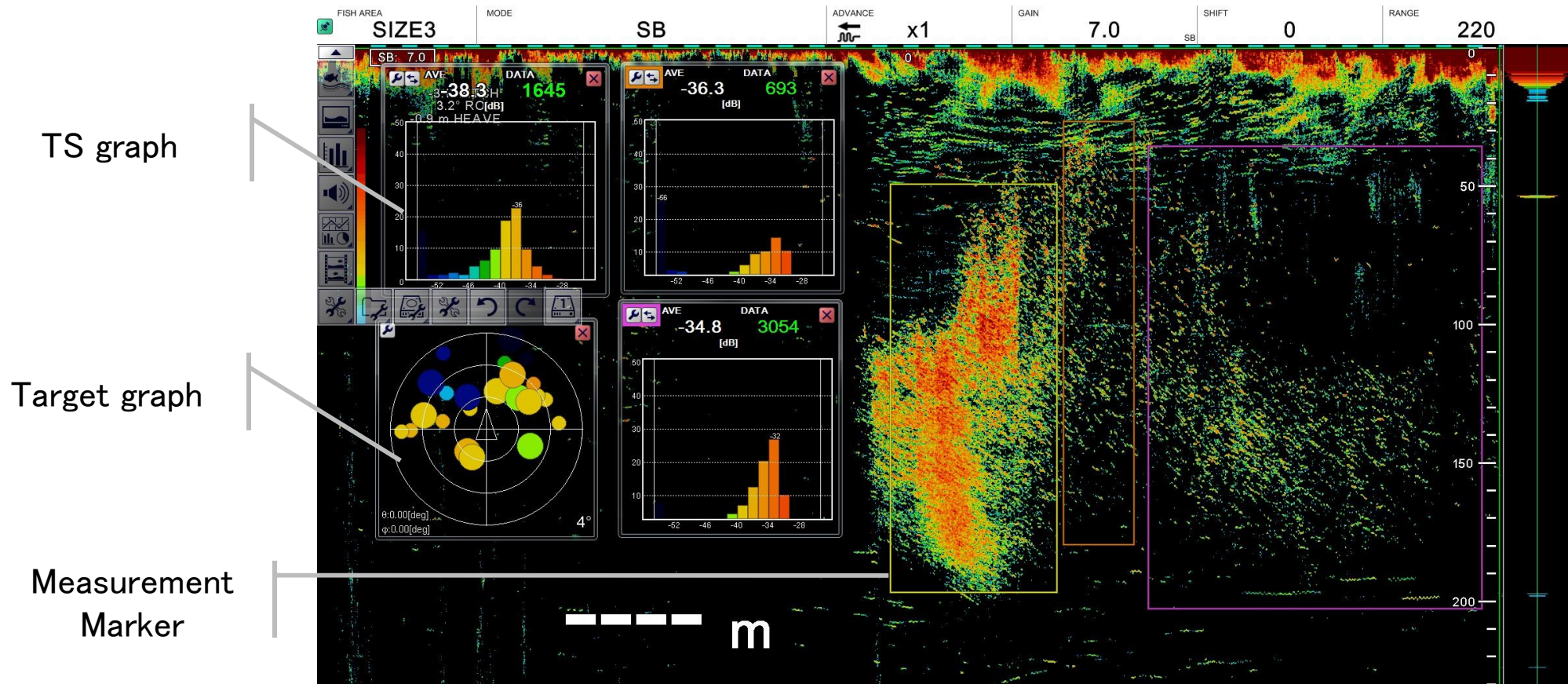➢ The "Auto Mode" is searching the sphere and controlled the beam automatically by beam forming technology

Manual Mode
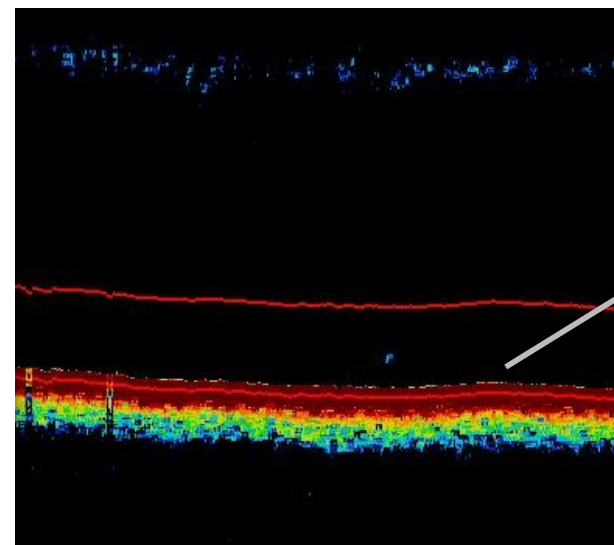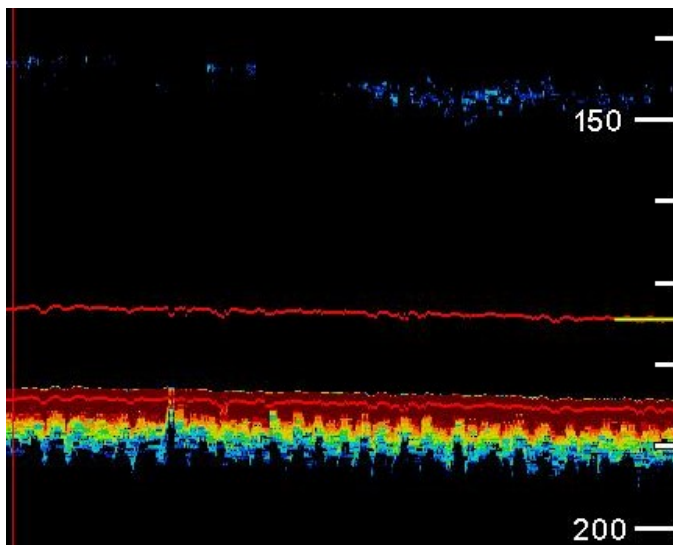
Auto Mode

TS graph

TS graph

Target graph

Measurement Marker

➢ Up to 3 TS graphs available

➢ "Target graph" will detect the targets moving

Beam Stabilizer

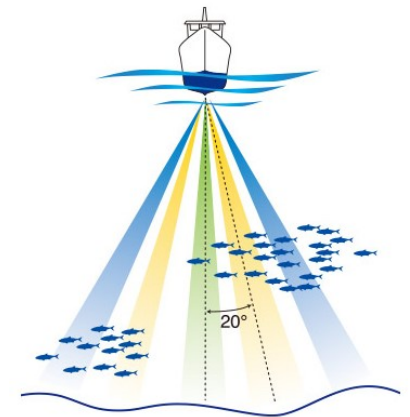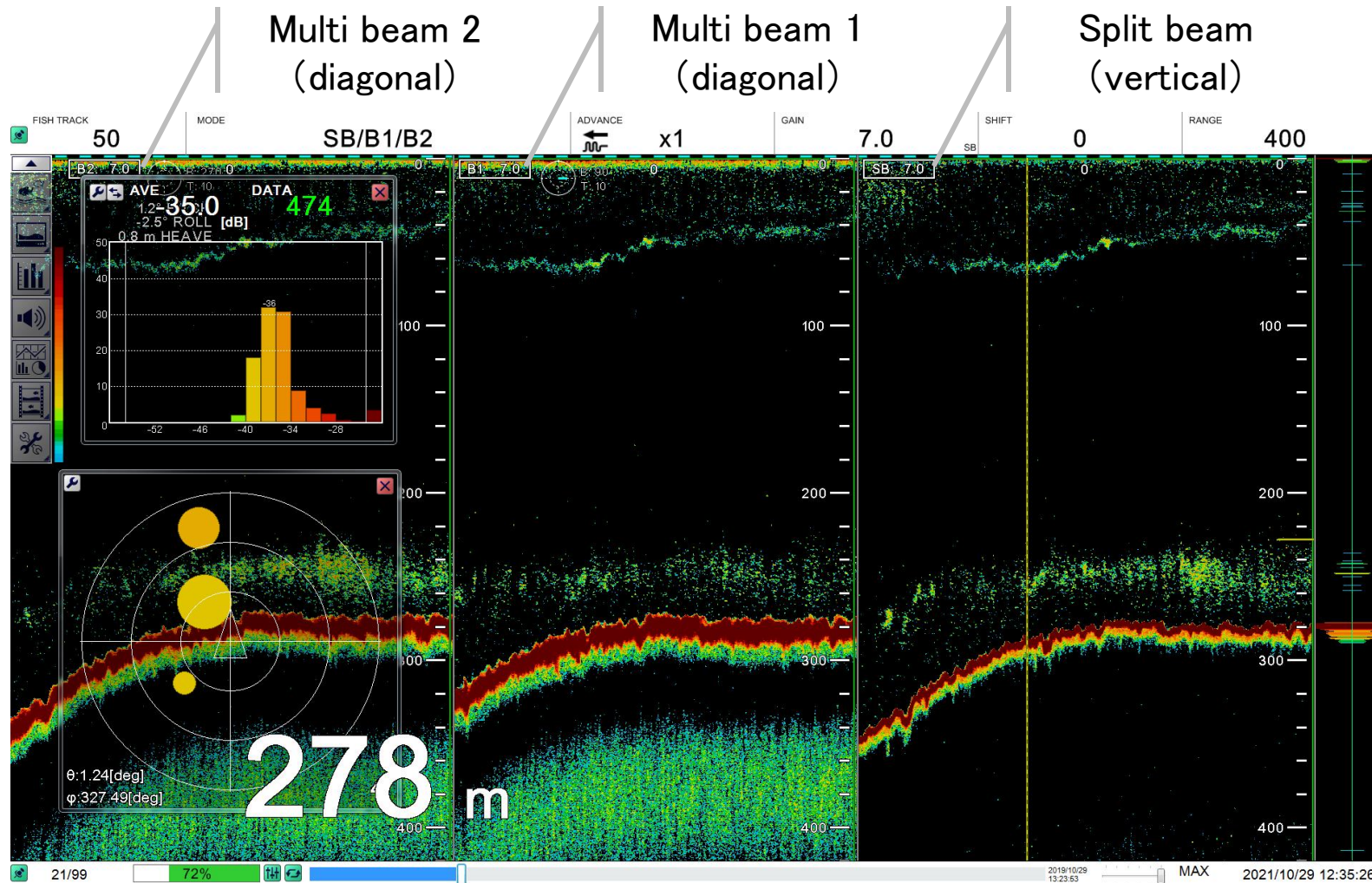bottom echo

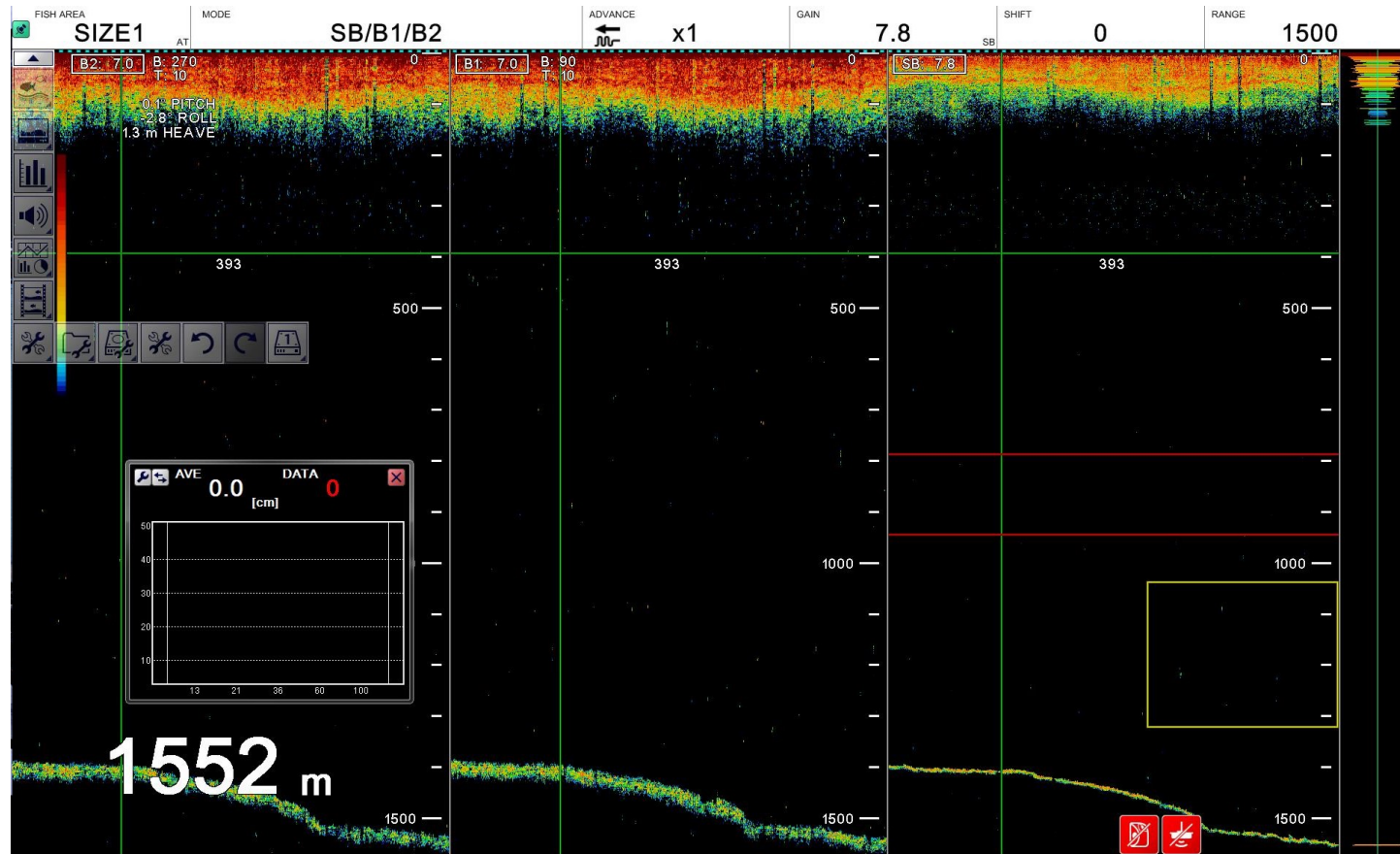➢ **FCV-38 can stabilize both TX and RX beams independently**

Multi-beam Mode

> Up to 5 different beams available

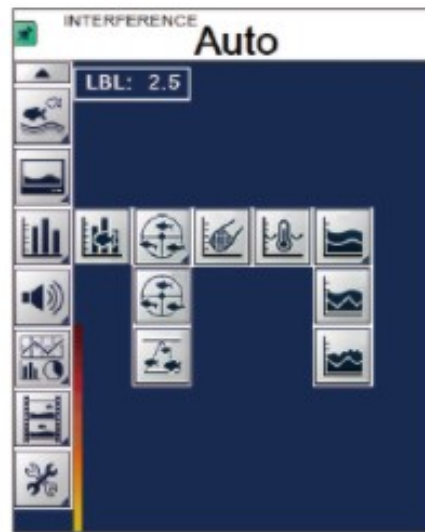> Selectable tilt angle within 20 degrees

Deep sea Mode

➢ Long Transmitting Pulse available by "Deep sea Mode"

User Interface

FURUNO

➢ **Easy and quick operation**

Trackball controll unit

InstantAccess bar™

Specification

➤ **Comparison with FCV-30(old model)**

function	FCV-38	FCV-30
Frequency	38 kHz	38 kHz
Beam Width	7.0°	7.0°
TS Graph	Max 3 Graphs	1 Graph
Beam Stabilization	Yes	Yes
	Built-in Motion sensor	Motion sensor is optional
Heave Compensation	Yes	Yes
Deep sea Mode	Yes	Yes
Multi beam directional	Max 5 beams	Max 5 beams
Record/Play	Yes	Yes
Output Data format	netCDF4	Furuno Original/HAC

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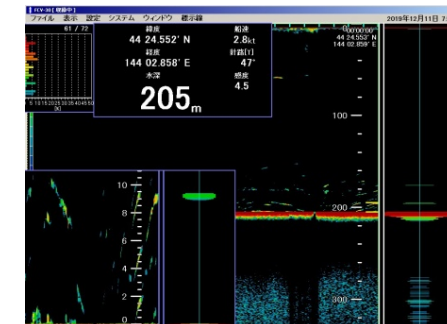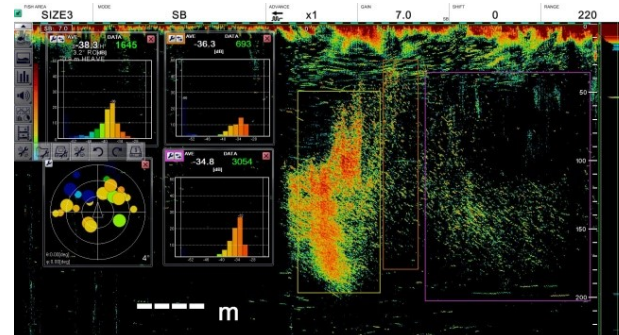
➢ The "Auto Calibration Mode" can get the calibration value automatically

➢ The recorded raw data by netCDF4 format can be imported into "Echoview® 12" for data analysis

➢ 3 "TS histogram graphs" and "target trace graph" available

➢ Built-in motion sensor and signal processing provide correct TS in rough sea conditions

➢ Deep sea detection by "Deep sea Mode"

➢ 5 different multi-beam echoes are useful to get underwater information