Specifications

Display : LCD Display 1280x1024(SXGA)

Operation: Operated by RC-21 Controller

Power, Range, Gain, Shift, and User keys (4 items) Transmission

Pulse width 0.3/0.6/1.2/2.4ms Output level $0 \sim 10$ (10 steps)

Tx cycle: Ranging time multipled by 2 ~ 5 times or synchronized by an external unit

*Ranging time (sec) = Measurement range (m)/(Sound velocity setting (m/s) /2)

Minimum Tx cycle 133(ms) *Depending on contents of the processing

TVG Processing:

20logR(SV), 40logR(TS), Flat, CONV (Traditional way) TVG Volume: 0.0 ~ 10.0 * Operative when CONV Mode Displayed sensitivity: $0.0 \sim 10.0$ Displayed bottom sensitivity: -10.0 \sim 10.0

*Change of the sensitivity deeper than seabed

Display Functions:

Normal screen: Normal fish finder screen

Enlarged dual screen: Enlarged screen of normal screen or dual screen of bottom fixed of normal screen

A-scope screen: A scope corresponding to normal screen and enlarged dual screen

Depth display: Display for bottom value of each fish finder Navigation display: Display for longitude/latitude, vessel speed, and water temperatures

Net depth display: Display for water depth value of fish finder screen (Max. 4 units)

Water temp.display: Water temp. of ship bottom etc...,displayed by water temp. from external device.

Fish size graph: Display for fish-size graph of selected area *Only when connecting with a split beam Trace display: Display for a trace graph of selected area

*Only when connecting with a split beam

Number of screen display

Max. 5 displays (4 frequencies + frequency difference) Scale : Meter, Fathom, Feet, Hiro

Range : 10 ~ 5000 (Meter Scale)

Original range: Arbitrary range value settings *10(scale) steps

Automatic bottom track: Auto range mode, auto shift mode Shift : Variable within less than max. range in 1/5 steps

Display color: 16/64 colors Color pattern: 8 types

Bottom line: White, black, ground color omission, OFF

Marker : minute, time, distance

Screen feed speed: 3, 2, 1, 1/2, 1/3 times

Screen feed direction: Normal (left direction), Invert (right direction) Interference elimination: 4 types (weak, medium, strong, interpolation) **Discrimination**: Horizontal discrimination $1 \sim 20$

Vertical discrimination $1 \sim 20$

Bottom level: Color display (16 or 64 steps)

Recording function:

Display: JPEG format, Resolution: 1280 x 1024 Raw data recording: Sonic format, compatible with KFC-3000 External interface: Synchronized input/output (TTL plus/minus), Navigation information input/output (Corresponding to NMEA0183), Net depth (Sonic net finder or keying input)

Language: Japanese, English Power supply capacity:

PRC-59 Processor Single phase: AC100V ~ AC220V±15% 60VA SR-87 Tx/Rx Single phase: AC100V ~ AC220V(Switch)

±15% 200VA

Operational temperature:

I-133 Display :-5°~45° RC-21 remote controller: -5°~ 45° PRC-59 Processor :-5°~45°

:-5°~55° SR-87 Tx/Rx Remarks: Try to no condensation and avoid water and salt air.

A SAFTETY PRECAUTION: Please be sure to read the Instruction Manual before operating. •Specifications are subject to change without prior notice for development

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Dimensional outline drawing and Weight



SONIC CORPORATION SINCE 1948 KAIJO DENKI

Fish Sizing Echo Sounder



38.3





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MS JAB







Fish Sizing Echo Sounder

New KSE series offers efficient fishing and resource management!

New features

- Fish length graphs are more smoothly displayed in higher definition
- Higher definition is achieved by an increased data amount that's 1.5 times more than before, as well as by a reduced pulse width
- Operability is greatly improved through a dedicated controller
- Multi-screen Up to five types of echograms can be simultaneously displayed
- A function to record raw data is available as a standard feature
- Introduction of an ultra-high-precision digital TVG as leading-edge technology Improved interference elimination and image discrimination
- Frequency difference method This is effective for extracting the target fish school This feature is available on a system with two or more frequencies

Frequency difference method

The "frequency difference method" is a function used to draw images by extracting only the data showing the difference between frequencies A and B.



Frequency A Frequency B Frequency Difference

Raw data recording

To meet the requirements of users who wish to use this system not only for selective fishing and resource management but also for biomass evaluation, a new function to record raw data has been added. The data can be recorded with one click in a USB flash drive. In compatible with the KFC series, analysis software corresponding with Echoview* is required.





Recording setting screen

Echoview is a registered trademark of Myriax Pty Ltd.



Water depth value

Navigation data -

Trace graph (for every one ping) .

This function displays the distribution of individual fish on the coordinate axis according to your ship's center. The fish size is shown as a bubble mark in the same color as the fish length graph. The information obtained from this graph is useful for the estimate of fish species and behavior

Fish-size graph ----

The graph shows fish length, estimated using the split-beam method. The vertical axis shows the number of current fish length detections, while the horizontal axis shows fish length. This graph allows users searching fish length to easily select and display the school that is the subject of inquiry.



used for saving

is displayed

Toolbar Screens and continuous still images can be saved, and raw data can School of be recorded These are stored in the USB memory in JPEG format so Mackerel that they can be viewed on any computer



%Net depth of the above screen is an image taken from Sonic Net Finder, KNF-100 (three frequencies)





Interference elimination



KSE-300