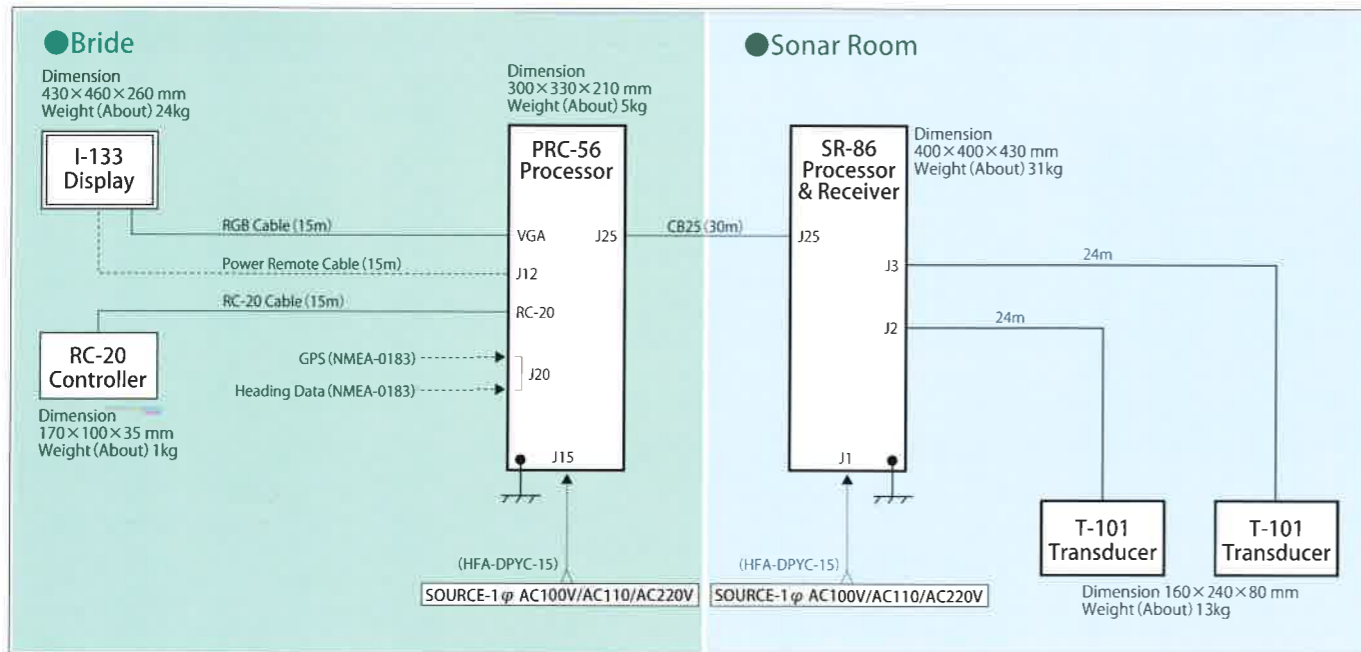


KDG-300 general specifications

- **Main Functions**
 - Measurement Method : The 4-beam system using ultrasonic pulses
 - Frequency : 140kHz
 - Display•Resolution : 19 inch TFT LCD Resolution 1024×768, XGA
 - Power Supply : AC100V / AC110V / AC220V, 50/60Hz, Single Phase
 - Power Consumption : 180VA or less
 - Operating Environment : 0°C~+50°C
- **Ship Speed•Current Measurement Functions**
 - Number of Measurement Layer : Max. 5 Layers (Ground Measurement/Log Measurement)
 - Distance under the bottom : Within 80% of the sea depth ranging from 3m to 220m (depending on the sea conditions).
 - Measurement Method : Simultaneous measurement with the current and deviation current
 - Measurement Range : 0~9.9Knot
 - Measurement Resolution : Min. 0.1Knot
- **Distance under Ship Bottom**
 - Ship Speed to the Bottom : Max. 450m (depending on bottom sediments)
 - Ship Speed to Water : 15m or deeper
 - Measurement Range : 0knot~30knot
 - Ship Speed Measurement Resolution : Min. 0.1Knot
 - Cruise Accumulated Range : 0~9999.9nm
- **Display Functions**
 - Functions : Current, Ship Speed, Water Depth, Fish School, 3D-Current, Trend Graph, Check Mode
 - Display Mode : Vector, Textual, DCG-200 compatible, Ship speed, Stereoscopic 3D, Echogram
 - Textual Display : Current Speed, Current Direction, Measuring Depth, Water Depth, Ship Speed, Cruise, Own Boat Position, Course, Heading, Date & Time, Deviation Current
 - Trend-graph Display : Current, Deviation Current, Ship Speed, Water Depth, Water Temp. (when inputting data)
- **External Interface**
 - NMEA Input : GPS Data (GGA, GLL, VTG), Heading Data (HDT, HDG, HDM), Water Temperature Data (MTW), Water Depth Data (DBT, DBS).
 - External Synchronization Input
 - NMEA Output : Ship Speed Current Data (VTG, VHW, VBW, DBT, CUR)
 - LOG Pulse (200p/n.m.) Output
 - External Synchronization Output•GPIF Output

Standard Connection Diagram



- ⚠ SAFETY PRECAUTION: Please be sure to read the Instruction Manual before operating.
- Specifications are subject to change without prior notice for development.

SONIC CORPORATION

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SONIC CORPORATION
SINCE 1948 KAIJO DENKI

KDG-300
Doppler
Current Graph



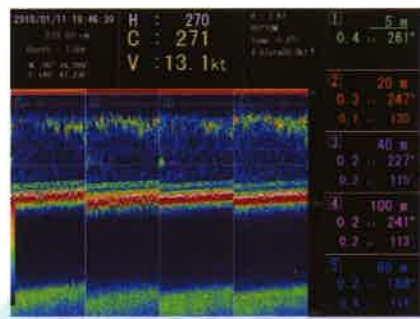
The culmination of technical prowess built up by KAIJO DENKI since 1948!



Diverse new functions make this the Doppler Current Graph fishermen have been waiting for...

Various Display Modes

All detailed information in a single display.



Ecogram Display Mode

Fish school positions can be seen by measuring the tidal current.



DCG (ex-model) compatible Display Mode

The same display with a former model is available.

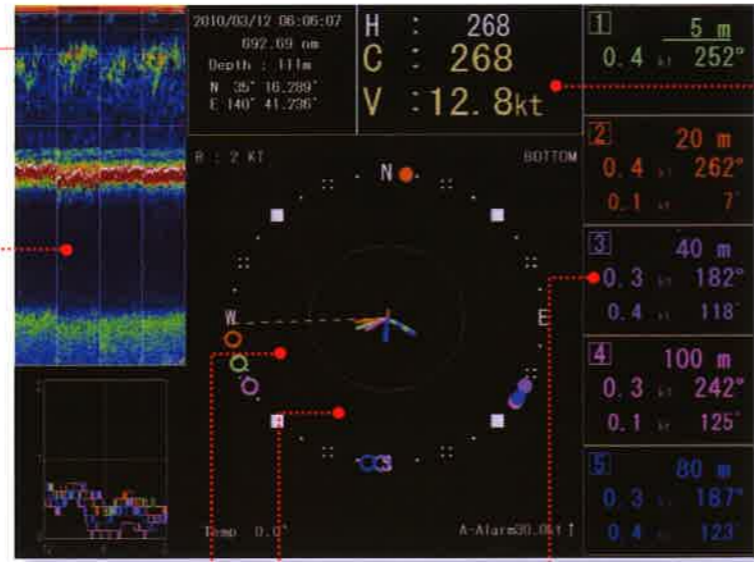


KDG-300
Doppler Current Graph



Stereoscopic 3D Display Mode

The 3D display offers a good image of the current.



Vector Display Mode



Textual Display Mode

Bigger characters for clearer picture.



Vessel Speed Display Mode

To easily show own vessel speed.

Reliable Transducers

The transducer, which is the core of any tidal current meter, uses our own proprietary technology. Embodying the expertise and experience we have built up over many years, it is robust, with outstanding service life and reliability.



Sample installation picture of the bottom



T-101 Transducers

Simple Operation

Our focus on functional simplification and size and weight reduction has produced a more user-friendly remote control.

It is easy for even a novice to use, and can be operated while watching the screen.



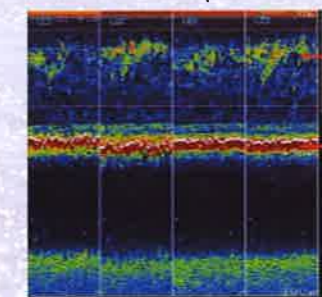
5-Layer Current Display

Tidal currents are displayed with color codes for up to five layers, relative to land or water, for clearer legibility.



Echogram

The state of the seabed and the reactions of plankton etc. are clearly displayed as an echogram. This system can be used on an incline as a simple fish finder.



Plankton
Fish School Reaction
Seabed

Echo reception from left, right, fore and aft

Stable Current Measurement

The latest digital processing technology delivers stable current measurement without omissions, even in stormy weather and when the vessel is in turbulent motion.



PRC-56 Processor