

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 C

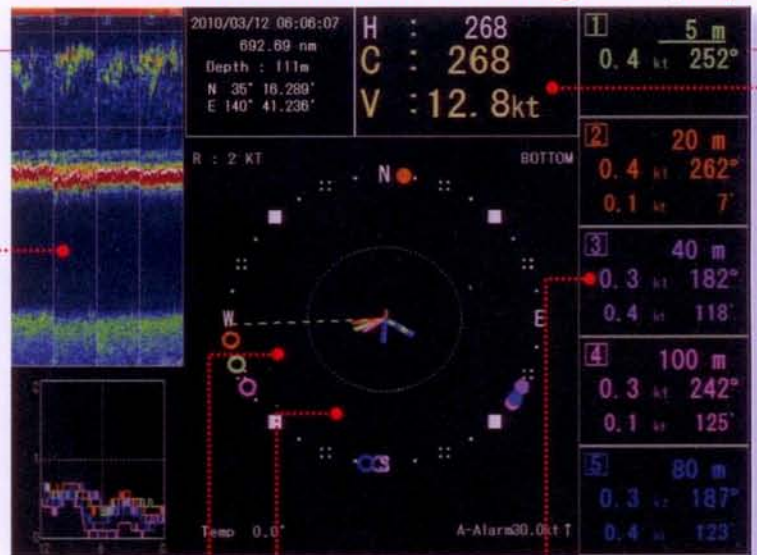
Various Display Modes

All detailed information in a single display.



Ecogram Display Mode

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



Vector Display Mode



DCG (ex-model) compatible Display Mode

The same display with a former model is available.

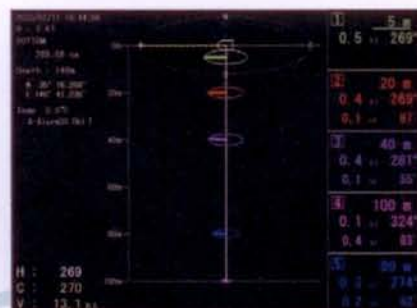


Textual Display Mode

Bigger characters for clearer picture.

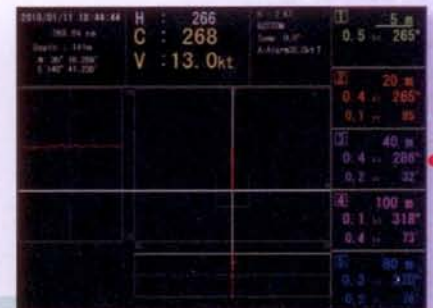


KDG-300 Doppler Current Graph



Stereoscopic 3D Display Mode

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



Vessel Speed Display Mode

To easily show own vessel speed.



Current Graph fishermen have been waiting for...

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.



①	0.8 kt	45°
50 m		
②	0.4 kt	11°
100 m	0.5 kt	251°
③	0.6 kt	17°
150 m	0.4 kt	271°
④	0.5 kt	74°
200 m	0.4 kt	191°
⑤	0.2 kt	125°
250 m	0.8 kt	211°

5-Layer Current Display

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

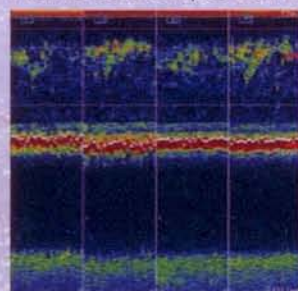
Echogram

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.

Stable Current Measurement



PRC-56 Processor



Plankton
Fish School Reaction
Seabed

Echo reception from left, right, fore and aft

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

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

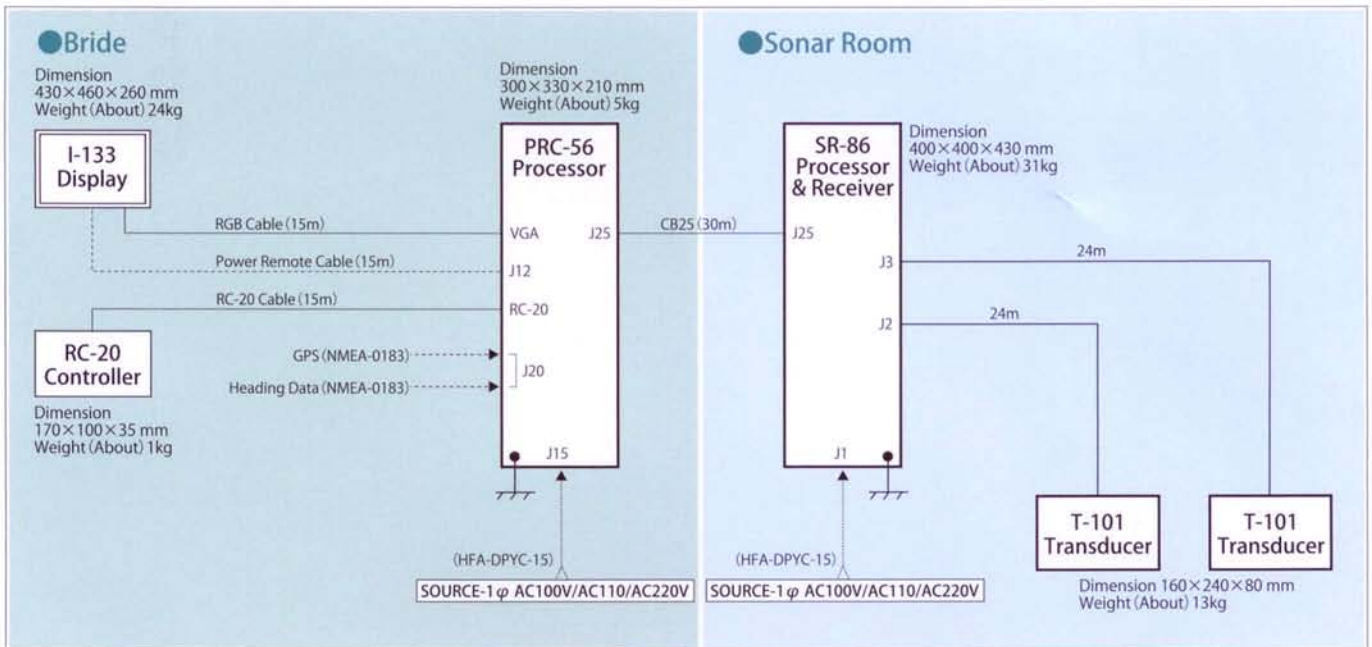
Display Functions

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.