

J.H.D. DEBUTS NEW SURVEY VESSEL

A new survey vessel of the Hydrographic Department of Japan was built at Mitsubishi Heavy Industries, Ltd., Shimonoseki Shipyard & Machinery Works and put into commission on 7 October 1993. The survey vessel, which was named "HL-05 KAIYO", is a multi-purpose survey ship equipped with modern and sophisticated survey and observation instruments, and mainly engaged in bathymetric and submarine geological surveys as well as oceanographic observations in coastal and offshore areas.

Her principal particulars are:

Gross tonnage:	605 tons
Length overall:	60.0 m
Breadth moulded:	10.5 m
Depth moulded:	5.0 m
Draft:	3.4 m
Service speed:	15 kt
Cruising range:	5,000 M
Main engines:	1,100 ps × 2
Propeller:	C.P. twin-propeller
Bow thruster:	1
Complement:	25
Max. accommodation:	31

High-tech survey instruments fitted are:

- Hybrid positioning system
- Automated data acquisition and processing system
- Echo sounder for shallow to medium depth
- Narrow multi-beam echo sounder
- Acoustic Doppler current meter
- 10-metre type survey boat

Now that the new Kaiyo has joined the survey fleet of JHD, it is expected that the acquisition of bathymetric and oceanographic data will be greatly enhanced especially for preparation and updating of nautical charts as well as for studies on prediction of earthquakes and submarine volcanic activities.

The name "Kaiyo" was handed down from the former HM-06 Kaiyo (310 G/T), which was in service for almost 29 years and decommissioned on 9 September 1993. The former Kaiyo was mainly engaged in ocean current and tidal stream observation in and around Japanese waters during her entire service. She has also contributed greatly to the on-board practical training of tidal current observation for the Group Training Course in Physical Oceanographic Survey conducted since 1972.



New Survey Vessel HL-05 KAIYO (605 G/T)
Hydrographic Department of Japan