

Coden Hydrographic Survey Remote Controlled Boat

RC-53

GPS, Echo-Sounder equipped



Safe and Easy Data Collection
One-Man Operation
Quick Deployment
Auto-Pilot
Auto Returning

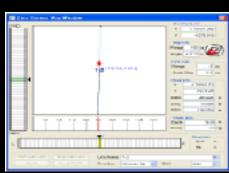






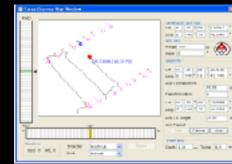


- RC-S3 is the perfect solution for difficult situations like shallow waters and hard to reach areas.
- Boat size is portable enough for one man to carry, 1200mm long at 16kg (under 4 feet at 35 lbs).
- RC-S3's twin electric motors are environmentally safe, free of oil and smoke.
- Twin high-power motors and twin props enables surveys in strong currents.
- Depth range is from 0.5 to 80 meters.
- Operating range is 800 meters.



Auto-pilot : Line survey

- This feature allows for total autonomous operation tracking planned lines, no controls from the operator, except at end of each line.
- Maximum 128 lines (one project)
- Tracking of lines averages a DOL of only 0.5 meters from the line.



Auto-pilot: Target survey

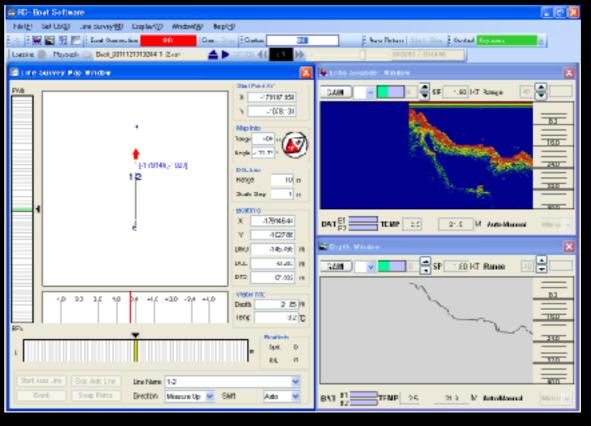
- This feature allows for total autonomous operation going from one target point to the next target point.
- Maximum 255 points (one project)



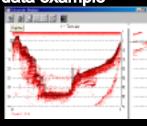
Auto returning

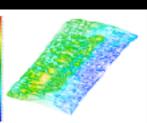
- The boat returns automatically to the initial starting point in 2 cases:
- 1, Loss of wireless LAN communications.
- 2, 20% left of boat battery power.

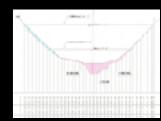
Real-time data collection



Editing and processing data example

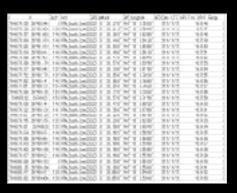






Data (CSV)

X,Y,Depth,Latitude,Longitude, GPS date, GPS time and more.



SD memory card drive

Data is kept storing in SD memory card inside boat.



Application

Position information can be collected by auto tracking total station with 360 degree prism on board RC-S3 if there is no GPS reception in the target area.



RC-S3 Standard equipment

Remote controlled boat Boat antenna CODEN boat control software Wireless LAN modem Antenna with work board Power supply cable Boat controller **Battery** For boat x 2 For remote control unit x 1 Battery charger For boat x 2 For remote control unit x 1

Specifications

Specifications	
Boat size	
Length	1200mm
Width	350mm
Height	250mm (Without antenna)
Weight	12kg (16kg with batteries)
Power	
Motor	Brushless DC motor x2
Boat Speed	4.5kt
Power Source	Rechargeable lithium ion battery 20Ah x2
Battery Life	210 minutes (Auto-pilot)
Geodesy	Transverse Mercator (User-settable)
Auto-Pilot	
Boat Speed	2.0kt
Line Survey	Maximum 128 lines (one project)
	Tracking between waypoints within 0.5m
Target Survey	Maximum 255 points (one project)
Echo Sounder	Single Beam
Frequency	200kHz
Depth Range	From 0.5m to 80m
Resolution	0.01m
Gain	Manual (H/L 20 levels each)
Beam width	6 degrees
GPS	DGPS (SBAS)
Resolution	1/10000s
Communication	
System	2.4GHz Wireless LAN
Operating Range	800m
Sampling Interval	1000ms
Computer OS	WindowsXP(32bit)、Windows7(32bit)
Information in this brochure is subject to change without notice.	



Head Office CODEN CO., LTD.

4-17-1 Nishigahara Kita-ku Tokyo 114-0024 Japan TEL: +81 3-3910-4941

www.coden.co.jp/english/pd_bts.html

USA Office

Coden Hydrographic Survey Boat 1715 W. 130th St. Unit D Gardena, CA 90249 TEL: 310-770-0568

www.codensurveyboat.com