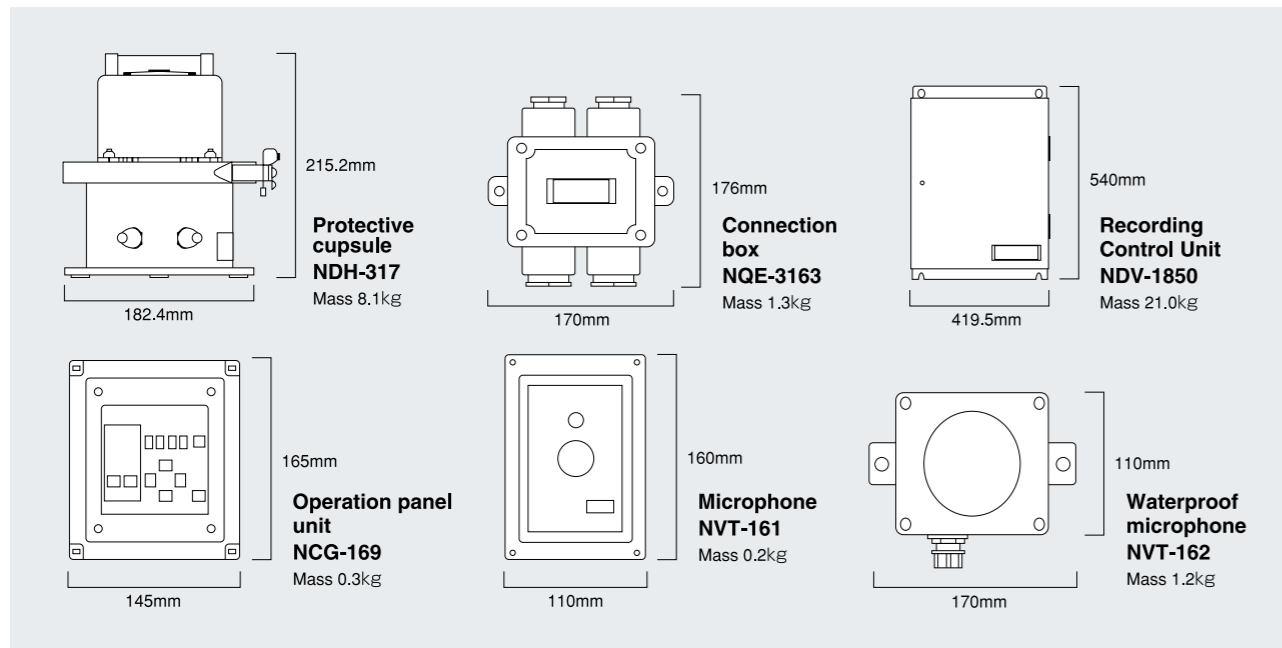


JCY-1850 specifications

Dimension Drawings



Internation requirements	
IMO MSC163(78), IEC 61996-2, IEC61162-1&-2, IEC60945, etc.	
Protective capsule	
Recording data	[Mandatory] date & time, ship's position, speed, heading, bridge communications, AIS information (inaccessible radar) [IEC61162 accessible] under keel clearance, bridge main alarms, rudder order/response, engine order/response, water, fire-tight door status, hull opening status, accelerations and hull stresses, wind speed/directions, etc.
Recording data stream	minimum continuous 12-hour data
Data recording interval	radar image : 15-sec interval
Data hold interval	over 2 years when un-powered
Environmental condition	fire : 1100°C for 1-hour, 260°C for 10-hours - deep-sea pressure : 60 Mpa (equivalent to 6000 m) for 24-hours, etc.
Input ports for sensor connecting	
Mic audio	9 ports
VHF audio	3 ports
IEC61162-1&2	16 ports
NSK	sync/step/pulse unit
Radar (option)	RGB
Analogue (option)	32 ports max.
Contact (option)	256 ports max.
System input voltage	
AC100 / 110 / 115 / 120 / 220 / 240 V	

Standard Components

Unit	Model	Q'ty
Protective capsule unit	NDH-317	1
Connection box	NQE-3163	1
Recording control unit	NDV-1850	1
Operation panel Unit	NCG-169	1
Microphone	NVT-161	3
Spare parts	7ZXJD0080	1
Playback software	CYC-315 (For Investigator)	1
Playback software	CYC-316 (For Operator)	1

Optional Components

Unit	Model	Q'ty
Waterproof microphone	NVT-162	1
Frame grabber board kit (For Radar video)	7ZZJD0052	1
Second video channel kit (For Radar video)	7ZZJD0055	1
Armoured LAN cable (Waterproof type)	7ZCAF0200	30m

Specifications subject to change without notice.

For further information, contact:

JRC *Japan Radio Co., Ltd.*
Since 1915 URL <http://www.jrc.co.jp/>

Main Office: Nittochi Nishi-Shinjuku bldg.
10-1, Nishi-Shinjuku 6-chome
Shinjuku-ku, Tokyo 160-8328, Japan
Telephone: +81-3-3348-4099
Facsimile: +81-3-3348-4139

Overseas Branches : Seattle, Amsterdam
Liaison Offices : Taipei, Manila, Jakarta, Singapore,
Hanoi, New York, Athens

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Simplified Voyage Data Recorder JCY-1850



- Compact flashcard: no moving parts
- Easy IP based maintenance
- External recording on PC: 180GB for 60 days
- User-friendly real-time playback software
- Global service network

Complies with all current regulations for existing vessels above 3,000 GT.

JRC *Japan Radio Co., Ltd.*

JCY-1850 Simplified Voyage Data Recorder

The JCY-1850 Simplified Voyage Data recorder (S-VDR) is a so-called black box which complies with IMO, MSC 163 (78) performance standard according to IMO, SOLAS-V, Regulation 20 as well as VDR, recording navigational information, bridge conversation and VHF communication. The recorded data is used to analyze causes of an accident such as collision, grounding or sinking. The SOLAS obligates to carry S-VDR for all existing cargo ships over 3,000GT after 1 July, 2006 but not later than 1 July, 2010.

Carriage Requirement

International Voyage Existing Cargo Ships	Mandatory Installation
Over 20,000 Gross Ton (GT)	The first dry-docking after 1 July, 2006 but not later than 1 July 2009.
Over 3,000 GT, Less Than 20,000GT	The first dry-docking after 1 July, 2007 but not later than 1 July 2010.

JCY-1850 Reliability

JRC's second generation S-VDR incorporates the latest technology to aid a safe nautical future.



In-house technology

JRC uses self fabricated reliable, marinised hard-ware, purposely designed for the S-VDR. The non PC-based equipment ensures spare parts availability for many years.

Dedicated industrial OS

A reliable platform is created by using an optimized operating system. The dedicated software guarantees a stable environment.

World-wide support

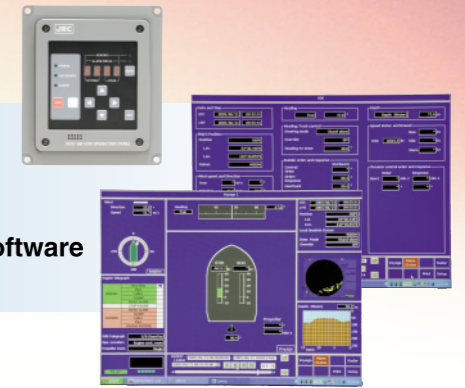
JRC gives continuous support through its offices and network of fully trained agents around the world.

L3 capsule

L3 is one of the main suppliers of flight recorders to the aircraft industry. They have proven themselves in the VDR market and are the worldwide leader. L3 delivers one of the smallest and lightest S-VDR capsules in the market.

JCY-1850 performance feature

The protective capsule of JCY-1850 can record the data 12 hours at least. The recorded data can be checked easily by the playback-software on the user PC according to IMO, SN Circular 246.



Space saving black-box design

Mount the black-box at a convenient location to make all necessary interfacing. The separate operation panel can be located on the bridge for easy-access to status and alarm information.

Playback-software

JRC includes playback-software that also incorporates real time monitoring functionality on the user PC. The acquisitioned data can be displayed as both graphical and numerical. Standard CSV data conversion enables easy and efficient exchange of information to shore, e.g. by e-mail.

External recording

Standard LAN output enables you to connect up to 4 different PC's by use of a hub. All S-VDR data, including radar video, can be stored on these PC's. 3GB storage capacity per day is required if you would like to save the data on your computer. This gives you the possibility to easily playback, select and send data.

System Configuration

