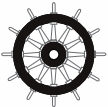# JAN·2000
ECDIS

JRC *Japan Radio Co., Ltd.*

Complies with new SOLAS regulations MSC 232(82) performance standard for ECDIS, effective from 1 January 2009.

– JRC's new high performance ECDIS represents a significant step change in terms of cost-effectiveness

19–inch high visibility displays
Simultaneous display vector and raster charts
Multiple and wide screen viewing
Flexible black box configuration
Cost effective installation

JAN-2000
– performance features

Unique features

- The new JAN-2000 is a high-performance and fully type approved ECDIS system with excellent on-screen menus, which will greatly shorten most users' learning period.

Cost-effective solution

The new JAN-2000 ECDIS system is fully type approved, and because of its controlled interface it is also highly cost-effective. It only has gyro, log and GPS as standard. TCS and radar overlay is not possible.

This makes the JAN-2000 an economical and well-fitted ECDIS solution yet still integrates the high performance standard you would expect from JRC.

Standard
Gyro
Log
GPS

AIS targets

The AIS is an important key device used to indicate AIS target symbol and information on the ECDIS. These targets are very useful, as it provides the maneuvering conditions of other ships at a glance, allowing for safe and effective navigation. The name of the vessels, and bearing, range, speed, length, heading and much more AIS target specifics from other ships are received and displayed. The AIS symbols are continuously displayed on-screen without the influence of the radar characteristics. The AIS targets are never shielded by ground, rain or cloud reflections, nor are they eliminated by adjustments of anti-sea or anti-rain clutter.
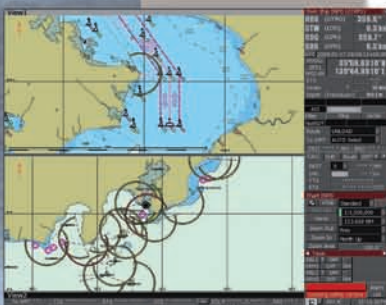
Also, it is easy to active, deactivate and switch between AIS target symbols. This simply can be done with an integrated AIS filter, prioritising the targets within a dedicated area.

120nm
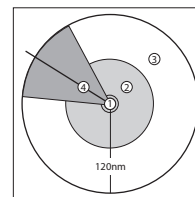
1. vessels' position
2. ring area
3. sector area
4. heading area

Multi-view

Multiple and wide screen viewing is possible with the new JAN-2000. You can divide the chart screen into two sections, in which the same or different charts can be displayed, in a mixture of ways. In this field of view, it provides a 'look-ahead' capability, especially useful in coastal areas. With the wide screen view function, an additional screen in the display area, showing a segment of the chart, allows viewing at a glance.

Grounding avoidance

As standard, the JAN-2000 integrates a grounding avoidance function, which protects vessels from collision and entering dangerous areas. This system allows real-time display of the ship's position on electronic charts, allowing to easily avoid routes for dangerous areas. You can simply make a crossing warning and it is possible to check safety contour lines and dangerous at the route planning stage.

Backed up via LAN

The JAN-2000 ECDIS can directly be connected via LAN to JRC's VDR and S-VDR. This way, you can easily backup important data, without the need for additional interfaces.

Optimised viewing

The JAN-2000 19-inch colour display is able to show bright, high-resolution imagery. With a press of a button, the screens' brightness can automatically be adjusted to the most optimal condition.

You can also select from multiple background modes, a practical feature which facilitates a clear sight, this in view of the ever changing lightening conditions on the bridge.
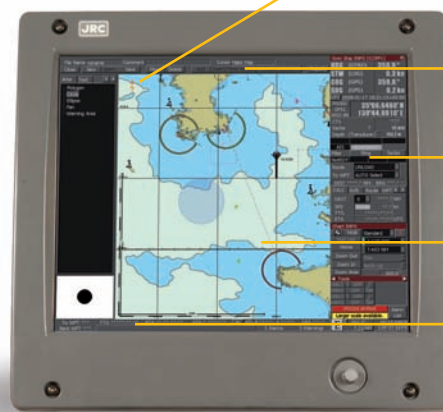
North arrow mark

Menu title bar

Display panel

Chart display area

Route information bar

JRC StarNetwork™

JRC has been providing sales and support of products since 1915. Today, JRC offers comprehensive assistance through its organisation, in partnership with a worldwide StarNetwork™ of over 270 fully trained and qualified partners and agents, assisting you 24 hours a day, 7 days a week and 365 days a year.

JRC one-call™

One number to call
With JRC you can go anywhere and if you need our support, simply call us at +81 3 3492 9201, anytime.

JAN-2000
– system flexibility

Flexible black box configuration

The processor unit is the heart of the JAN-2000, and shares the same simple configuration as the current JAN-701B/JAN-901B ECDIS series, contributing to an enhanced system configuration. It is also possible to install our type approved 19-inch LCD display as alternative.

Interfaces

On the back of the processor you will find four USB ports, a DVD drive and a floppy disk drive. Simply connect a printer, USB storage device for saving and reading files, or you can plug in a C-Map dongle for your charts.

Route planning with table editor while displaying waypoints

Advanced route planning

The advanced nature of JRC's new JAN-2000 ECDIS system allows route planning in different ways. Either plan your route by using the table editor, while displaying current waypoint or graphically draw your next waypoint on the chart. Editing the route is just as simple as inserting. Dedicated menus are readily available to assist the mariner in effective route planning. Not only can you save the routes, but import favourite or commonly used files, even from previously ECDIS models, using industry-standard CSV format.

During the voyage, you can add an alternative route, which can be displayed simultaneously. You can move, insert, add and delete waypoints instantly and easily exchange the alternative route with route in progress, at your own convenience.

Man OverBoard

Some items could strike you on the vessel, a slippery deck or unexpected movement of the vessel are situations in which a person may possibly fall of the vessel. The JAN-2000 integrates a single-press Man OverBoard (MOB) operation. Instantly, a dedicated symbol arises on the screen, providing a range detailed info such as positioning, bearing, range and time till arriving at MOB. This emergency system enables immediate and accurate search and rescue efforts.

What's standard in the box?

1. Display[1]
2. Keyboard
3. Processor
4. Cables
5. Spare parts
7. eToken for C-Map Ed.3
8. Manual (English)

Which cables?	Std.
Display to processor	5 m
Keyboard to processor	5 m

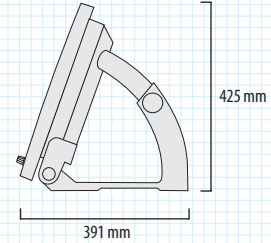[1] 19-inch standard (including bracket)

JRC *Japan Radio Co., Ltd.*

JAN-2000
– dimensions and weights

Dimension drawings - Display

NWZ-173-E Weight 12,1 kg

19"

450 mm

425 mm
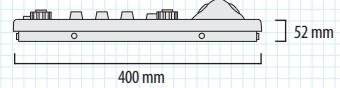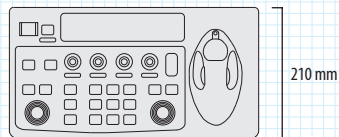
391 mm
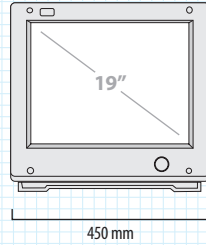
cutout for panel mount height 319,6 mm, width 416 mm, depth 80 mm

Dimension drawings - Keyboard

NCE-7721C Weight 3,5 kg

210 mm

52 mm

400 mm

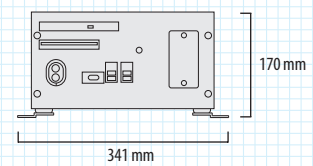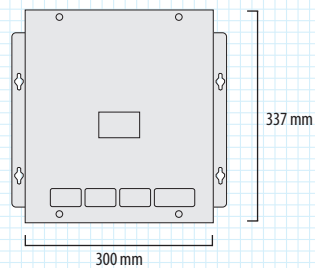**cutout for panel mount** height 94 mm, width 384 mm, depth 34 mm

Dimension drawings - Processor

NDC-2000 Weight 10,5 kg

337 mm

300 mm

170 mm

341 mm

JAN-2000
– specifications

Model	JAN-2000
IMO compliant	√
General	
Power supply	100V to 115V, 200V to 230V AC ±10%, 60/50Hz ±5%
Power consumption	average 60VA, maximum 100VA
Display	
Size	19-inch colour LCD display
Resolution	1280 by 1024 pixels (SXGA)
Bearing indication	north-up / course-up (simultaneously in multi view)
Presentation mode	true / relative / free motion
Multi display areas	2 (longitudinal, transverse, picture in picture)
Scale	1:1.000 up to 1:75.000.000
Range	0.125 - 120 NM
Vector charts	ENC, C-Map Ed.2/Ed.3
Raster charts	ARCS
Route planning	
Input	graphical or numerical
Safety check	grounding, obstruction, dangerous areas
Import/export format	CSV
Monitoring	
Plotting	Own vessel position and track
ARPA tracking	60
AIS tracking	200 (sleeping + activated)
AIS class	class A + class B
AIS/ARPA alarm	CPA/TCPA
Chart management	
Updating	semi-auto / manual (available via ChartCo)
Data correction	available
Functions	
Route planning	route editing, alternative route editing, safelty check of planned route
Navigation monitoring	own ship's position, crossing safety contour, approaching obstruction and prohibited areas, cross track error, arrival at waypoint, off course, dragging anchor
Operation	multi-view, scrolling, data recording (up to 90 days), printing of screen/route/logbook
Interfaces	
Serial input	3 standard (optional up to 7)
LAN	built-in 10/100 Mbps
Copying route	FD / USB
Optional items	
Display 19-inch LCD	NWZ-173-E
NSK unit	NCT-4106A
Serial add-in board	NQD-2888
PC mini keyboard	PCP-ACK-595 US-PS2-R
PC trackball	ST-45UPI
Manual chart installation (English)	7ZPNA0506

All specifications are subject to change without notification.

For further information please contact:

JRC *Japan Radio Co., Ltd.*

JRC
Cessnalaan 40-42
1119 NL, Schiphol-Rijk, The Netherlands
T +31 20 6 580 750
F +31 20 6 580 755
E sales@jrceurope.com
W www.jrceurope.com