

5 WATTS HAND-HELD VHF TRANSCEIVERS



Navicom RT-300 VHF

New entry level handheld VHF transceiver
Compact & user friendly

Designed for an easy use on leisure or professional boats, this new VHF transceiver meets perfectly the needs of users wanting to have a very simple device and not very expensive.

The RT-300 features nevertheless the most recent technology, and offers the same functions of more expensive one.

- RTTE Approved.
- IPX4 Watertight (spray resistant).
- Back lit LCD display.
- 56 channels with memorisation of the last selected channel.
- Selectable simplex & duplex modes.
- Output power: 0.8 W or 5 W.
- Adjustable squelch.
- Dual / Tri watch including channel 16.
- Transmit consumption: 0.9A or 1.8A.
- Receipt consumption: 50mA to 200mA (depending on the squelch control).
- Housing dimensions: 123 x 60 x 37 mm.
- With antenna mounted: 248 mm.
- Weight with batteries: 190g; without batteries: 290g.
- Antenna, hand strap and belt clip included.
- 1.5V AA batteries not included.



Navicom RT-311 VHF

Powerful, user friendly, spray resistant, with NiMH battery and charger

Marine functions: ship-to-ship and ship-to-shore communications, security messages that aren't assumed by GSM telephones and other cellular systems.

Internal CMOS processor compliant with new ETSI 300-162 european standard and electromagnetical compatibility rules.

VCO frequencies synthesiser allowing to select any ITU channel without the adding of an expensive quartz.

Powered by integrated rechargeable battery (220 Vca charger provided) or by alcalin batteries in case of premature discharge.

- Watertight (IPX5).
- Selectable simplex & duplex modes.
- Output power: 1 or 5 W. Frequency range 156.025 to 163.275 MHz.
- 54 channels with memorisation of the last selected channel.
- All international channels. Optional private channels.
- Quick access to international channels.
- 1 priority channel & 10 usual channels storable.
- Dual / Tri watch including channel 16.
- ATIS mode activation on demand.
- Detachable waterproof antenna.
- 21 hour battery life when in standby.
- Battery load status indicator.
- New NiMH technology without memory effect.
- Dimensions (without antenna): H 162 x L 60 x Ep 37 mm, with antenna H 278 mm.
- Weight with batteries 400 g.

Includes the following in standard(1):

- NiMH batteries.
- 220 Vca charger.
- Battery pack.
- Hand strap and belt clip.



Navicom Hand-held VHF Accessories (RT-300 : none)



Models	Integrated Battery	12 Vcc cigar lighter charger	Headset	Transparent watertight bag
VHF RT-311 (1)	RY-331c standard	RY-320 optional	RY-332 optional	RY-100 optional
VHF RT-320	RY-321 standard	yes	no	RY-100 optional
VHF RT-350	RY-370 standard	RY-371 optional	no	RY-100 optional

(1) RT-311P Kit: RT-311 VHF + microphone & earphone + 12 Vcc. power source

5 WATTS HAND-HELD VHF TRANSCEIVERS

Navicom RT•320 VHF radio

New up market VHF radio - Totally waterproof, compact & ultra light

The RT-320 VHF radio uses advanced technologies that make it one of the best existing mobile radios.

Light weight, compact & IPx7 waterproof, this reliable pocket VHF will follow you every where and remain operational in any environment.

Its 1500 mA Li-ion battery offers extended battery life and shorter loading time.

Its powerful loud speaker will be heard in the harshest conditions.

Basic features: Similar to RT•311

RT•320 specific features:

- Ultra light VHF radio: 250 grams only.
- Improved watertightness: IPx7.
- Outstanding 1500 mA U-ion battery. Offers one of the highest capacities on the market
- Fast charger in standard. 3.5 hour loading time instead of 8 hours for most other available product.
- ATIS number set from the VHF, without the need of a programmer. 25 hour battery life in standby mode.
- Load status indicator.
- Dimensions without antenna: 135x60x25mm. Weight: 250 g.



	RT-300	RT-311	RT-320
Consumption transmitting	1,8 or 0,9 W	1,9 or 0,9 A	1,9 or 0,9 A
Standby consumption	50 to 200mA	60 mA	60 mA
Sensibility	- than 0,25 mV	- than 0,3 mV	- than 0,3 mV
Squelch	8 niveaux	séquentiel	séquentiel
Dual/Tri watch including channel 16	Yes	Yes	Yes
External jack	Yes	Yes	Yes
Dimensions H x L x Pr (mm)	123 x 60 x 37	162 x 60 x 37	135 x 60 x 25
Weight with batteries	290 g	400 g	250 g
Energy	4 batteries	NiMH battery pack	Li-ion battery
Battery capacity	-	1300 mA	1600mA

NAVICOM VHF

FIXED VHF DSC RADIOTELEPHONE



DSC VHF RT-550⁽¹⁾

New fixed DSC VHF radiotelephone with very large LCD display

The DSC system allows sending a distress signal, including an identification message on a 30 to 50 nm range, to all ships equipped with a DSC VHF (this equipment is compulsory on large ships, with permanent watch). All the useful information for rescue coordination, like ship identification & position are included in this message that is automatically transmitted from ship to ship until it is finally received by a rescue center.

Aside from this rescue function, the RT-550 DSC performs traditional communication functions with other ships

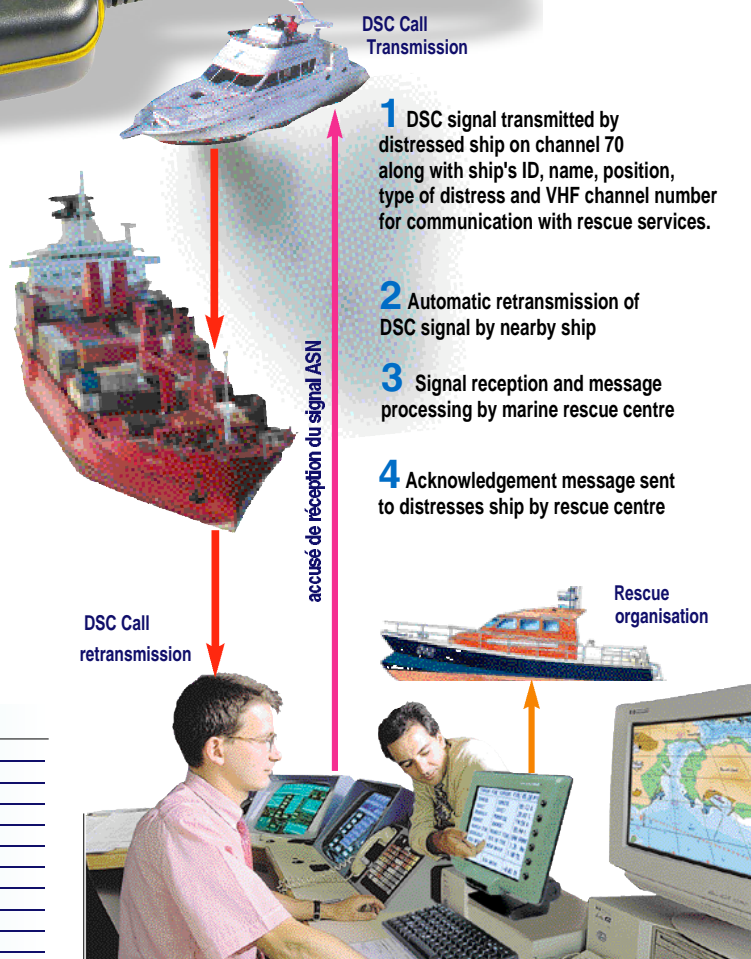
- Very large, red backlit display
- Ship to ship, or ship to shore calls
- Class D DSC included with message registration
- Channel & Output power selection from handset
- Backlit keyboard & display. Visual & audio alarms.
- Ship identification while a distress message is being sent
- Acknowledgement message sent by receiving stations
- DSC watch receptor. MMSI directory. 1 or 25 W output power.

RT-550 DSC VHF transceiver specifications

Display	3 back lighting levels LCD Screen
Keyboard backlit	Yes
55 international channels	All authorized channels
US channels	Yes
Usual channel storage	10 channels
Channel 16 quick access	Yes
Squelch & volume knobs	Yes
Power source	13.8Vcc
Operating modes	Simplex / semi-duplex
Antenna connector	Standard female 50 Ohms SO-239
Operating temperature	-15°C to +55°C
Dimensions and weight	167x157x72 mm, 1.2Kg
Output power	1 or 25 W
Distortion ; Signal/Noise rate	<5%; <40dB
Sensitivity / Reception distortion	12dB / <5%
Internal speaker & external plug	4 W / 8 Ohms (external speaker in option)
DSC functions	
MMSI directory	20 numbers stored
Distress & security calls	Individual & to all ships
Routine calls	Group calls



With a DSC VHF transceiver, one push on the distress button ensure, in automatic mode, a repeated transmission of rescue calls on channel 70, fully dedicated to this use. The messages include the ship's ID, its position, the hour of the initial call, and the nature of the distress (user selected from list during call activation). If a merchant ship is in transmission range, these signals are automatically retransmitted to other stations by any onboard available means of communication (VHF, SSB or satellite phone), and an acknowledgement message is added to the initial message. These relays operate until final reception by a marine rescue centre.



When purchasing a VHF transceiver, user must conform to the ongoing regulation:

- 1/ Restricted radiotelephony certificate
- 2/ License application
- 3/MMSI number application

The responsible authority in France for this of procedure is the ANFR (www.anfr.fr).



DSC VHF RT-550 can be gimbal or flush mounted

NAVICOM VHF

FIXED VHF DSC & AIS RADIOTELEPHONE



DSC & AIS VHF RADIO RT-650 (1)

New fixed all-in-one VHF featuring radiotelephone functions, DSC and AIS systems with a very large LCD display and a wireless handset

Intercom function
Only one VHF antenna
NMEA output to link a PC or a chartplotter

VHF transceiver which gather radio communication functions, the DSC system, and AIS reception. This multifunction device let you avoid purchasing of several devices. With this VHF you save money and space onboard.

Other features: the large LCD display readable by far, a wireless handset with LCD display and all the command buttons working over 200 m from the VHF.



- Only one antenna for the CHF transmission and the AIS system.
- AIS signal receipt on the VHF is available on the NMEA output to be displayed on a PC or a chartplotter: positioning of the nearby ships and set of information: MMSI, name, characteristics, route, speed, etc...
- Intercom function providing a private communication network onboard as far as 200 m from the board.
- Protection against interferences.

Base specifications

Same as the RT-550 VHF with AIS function.

- Built-in AIS.
- Frequency range 161.975 / 162.025MHz.
- GPS input. NMEA output.

AIS : enhanced security

The AIS information is an important security element at sea with bad visibility or when something limits the detection of a ship in collision situation.

Automatic Identification System principle of operation

AIS transponders automatically broadcast information, such as their position, speed, and navigational status, at regular intervals via a VHF transmitter built into the transponder. The information originates from the ship's navigational sensors, typically its global navigation satellite system (GNSS) receiver and gyrocompass. Other information, such as the vessel name and VHF call sign, is programmed when installing the equipment and is also transmitted regularly. The signals are received by AIS transponders fitted on other ships or on land based systems, such as VTS systems.



(1) RT-550 & RT-650 : noncontractual photographs and features likely to be modified without notice.

NAVICOM VHF

Fixed VHF DSC, AIS & MOB Radiotelephone



DSC VHF Radio, AIS reception and MOB Watch

The RT-650 MOB is the same as the RT-650 DSC with the MOB watch. When the signal of a MOB unit is lost, the radio turns on the external loudspeaker with an alert tone for warning. If a crew member falls into the water, or if he/she pushes the alert button on the MOB unit, the alert tone begins on the VHF radio.

MOB Unit

- Watertight
- Manual activation
- Automatic activation
- Low battery signal

