

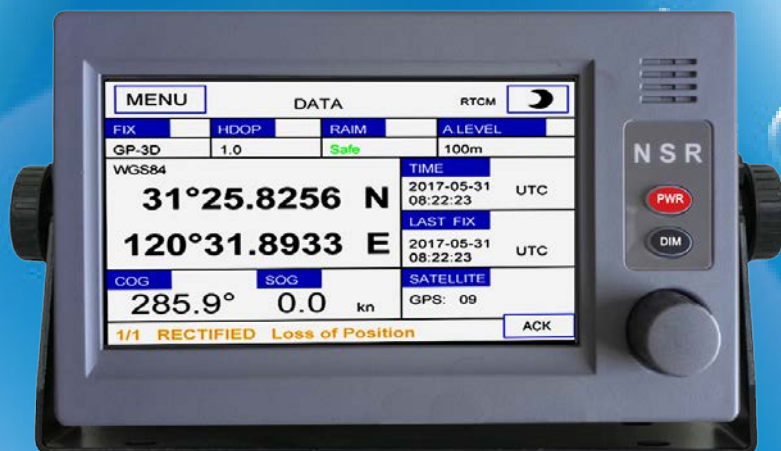
# NSR

NSR's new generation of IMO GPS:

- 7 inch color LCD
- Touch screen operation
- Port for INS connection

## NGR-3000

### MARINE GPS NAVIGATOR



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# NGR-3000 MARINE GPS NAVIGATOR

- Comprehensive navigation data displays.
- Storage for up to 999 waypoints and 30 routes.
- 7 inch, color LCD, touch screen operation with adjustable contrast and brilliance.
- Dedicate port for INS connection.
- 2 GPS data outputs.
- A DGPS beacon receiver (external) may be connected to the NGR-3000 to add DGPS function.
- Meets the requirements of relative IMO and IEC regulation & standards, including IMO MSC112 (73), IEC61108-1, etc.

## SPECIFICATIONS

### GPS RECEIVER

- Receiving System: 50 channels parallel (GPS)
- Rx Frequency: 1575.42 MHz
- Rx Code: C/A code
- Position Accuracy: Approx. 10m (GPS), 95% of the time, horizontal dilution of position (HDOP)  $\leq 4$
- Tracking Velocity: 999 kts
- Position-fixing Time: Warm start: 15 seconds, Cold start: 120 seconds
- Position Update Interval: 1 second

### DISPLAY SECTION

- Display: 7 inch, color LCD, touch screen operation
- Fix Mode : GPS
- Alerts: Lost of Position, HDOP > 4, DGPS lost

### INPUT/OUTPUT DATA

- Output Data: RS422, totally 2 ports, Baud Rate 4800/9600/19200 bps
- Sentences: GNS, GBS, GGA, , RMC, VTG, ZDA, DTM
- INS connection: INS IN/INS OUT, RS422
- Input Data: DGPS RTCM SC-104

### POWER SUPPLY

### ENVIRONMENT CONDITION

- Ambient Temperature: Antenna Unit: -25°C to +70°C  
Main Unit: -15°C to +55°C
- Relative Humidity: 95% at 40°C
- Water Proofing: Antenna Unit: IEC60529 IPX6  
Main Unit: IEC60529 IP22

### OTHERS

- Size: 145(H) x 264(W) x 80(D) mm
- Weight: abt 2 kg (main unit)

## EQUIPMENT LIST

### STANDARD

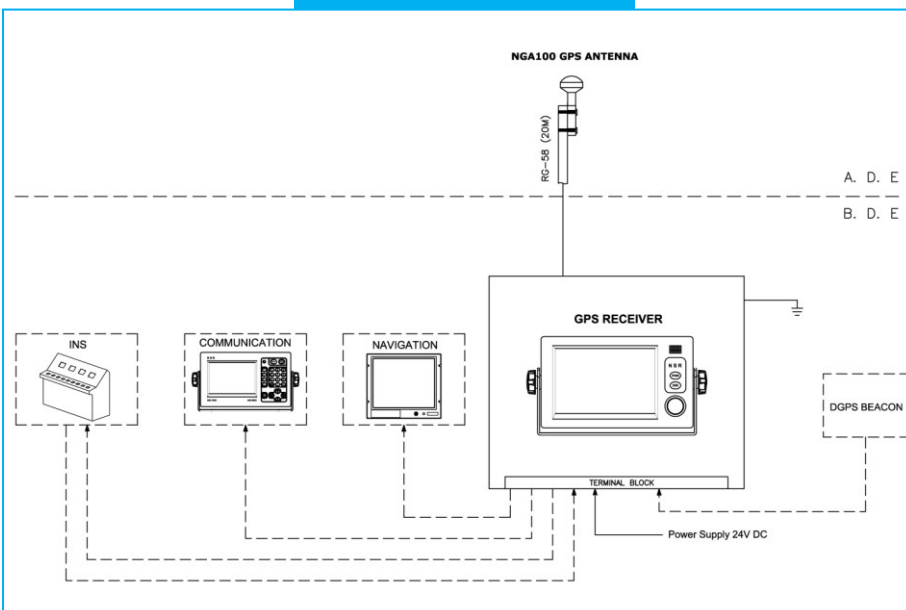
- NGR-3000 Main Unit 1 set
- GPS Antenna with Cable 1 pc
- Installation Materials 1 set

### OPTIONS

- DGPS Beacon 1set
- Flush Mount Brackets 1set
- NMEA Distribution Box 1set



## SYSTEM DIAGRAM



## SIZE DIMENSION

