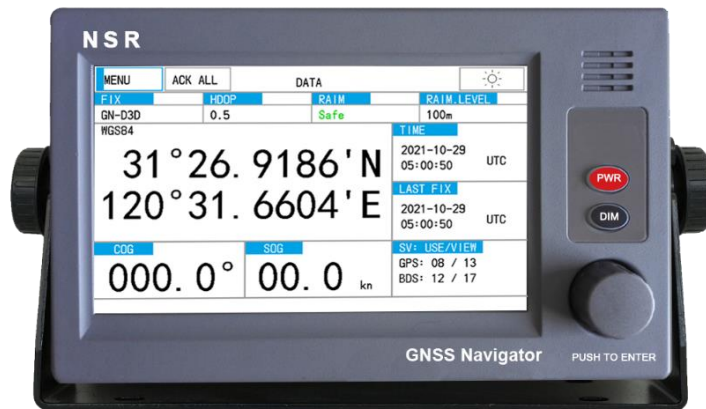


NSR's new generation of IMO GNSS:

- Large 7" color LCD
- Touch screen operation
- Port for BAM system/INS connection
- GPS, BDS, GLONASS
- DGNS with NSR beacon
- Type approval with DNV (MED), CCS, RS and VR

NGR-1000	CCS, VR
NGR-3000	DNV, RS



- Comprehensive navigation data displays.
- Storage for up to 999 waypoints and 30 routes.
- 7 inch, color LCD, touch screen operation with adjustable brilliance.
- Dedicate port for BAM system/INS connection.
- 3 GNSS data outputs.
- A DGNS beacon receiver (NDG-100) may be connected to the NGR-1000/NGR-3000 to add DGNS function.
- Meets the requirements of relative IMO and IEC regulation & standards, including IMO MSC.112 (73), IMO MSC.302 (87), IEC 61108-1, IEC 62923-1, IEC 62923-2 etc.



SPECIFICATIONS

● GNSS RECEIVER

- Receiving System: 50 channels parallel
- RX Frequency: GPS L1, GLONASS L1, BDS B1
- RX Code: C/A code
- Position Accuracy: Approx. 2.5m, 95% of the time, horizontal dilution of position (HDOP) ≤ 4
- Tracking Velocity: 999 kts
- Position-fixing Time: Warm start: 45 seconds
Cold start: 60 seconds
- Position Update Interval: 1 second

● DISPLAY SECTION

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

● INPUT/OUTPUT DATA

- Output Data: RS422, max 3 ports,
Baud Rate 4800/9600/19200 bps
- Sentences: GNS, GBS, GGA, RMC, VTG, ZDA DTM
- BAM/INS connection: IN/OUT, RS422
- Input Data: DGNSS RTCM 10402.3

● POWER SUPPLY:

DC 12 ~ 24 V, 0.25 ~ 0.50 A

● ENVIRONMENTAL CONDITIONS

- Ambient Temperature: Antenna Unit: -25°C ~ +70°C
Main Unit: -15°C ~ +55°C
- Relative Humidity: 95% at 40°C
- IP Grade: IP66 (Antenna Unit)
IP22 (Main Unit)

● OTHERS

- Size: 145 (H) × 264 (W) × 83 (D) mm
- Weight: 1.25 kg (Main Unit)

EQUIPMENT LIST

● STANDARD

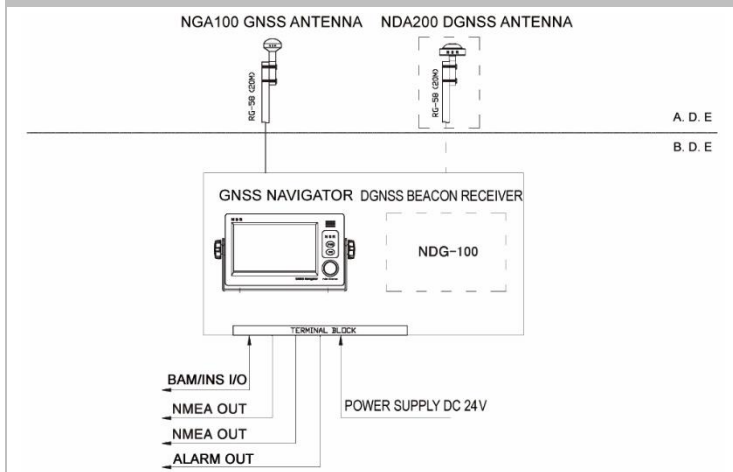
- GNSS Navigator 1 set
- GNSS Antenna with Cable 1 pc
- Installation Materials 1 set

● OPTIONS

- DGNSS Beacon & Antenna 1 set
- Flush Mount Brackets 1 set
- NMEA Distribution Box 1 set
- AC/DC PSU 1 pc



SYSTEM DIAGRAM



SIZE DIMENSION

