

NSR’s new generation of IMO GNSS:

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

NGR -1000	CCS, VR
NGR -3000	DNV-GL, 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/INS connection.
- 3 GNSS data outputs.
- A DGNSS beacon receiver (NDG-100) may be connected to the NGR-1000 / NGR-3000 to add DGNSS function.
- Meets the requirements of relative IMO and IEC regulation & standards, including IMO MSC. 112 (73), IMO M302 (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 precision (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, DGPS 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 SC-1042.3

• POWER SUPPLY

12 ~ 24 VDC, 0.25 ~ 0.50 A

• ENVIRONMENT CONDITION

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

• OTHERS

Size: 145 (H) × 264 (W) × 83 (D) mm
 Weight: 1.25kg (main unit)

EQUIPMENT LIST

• STANDARD

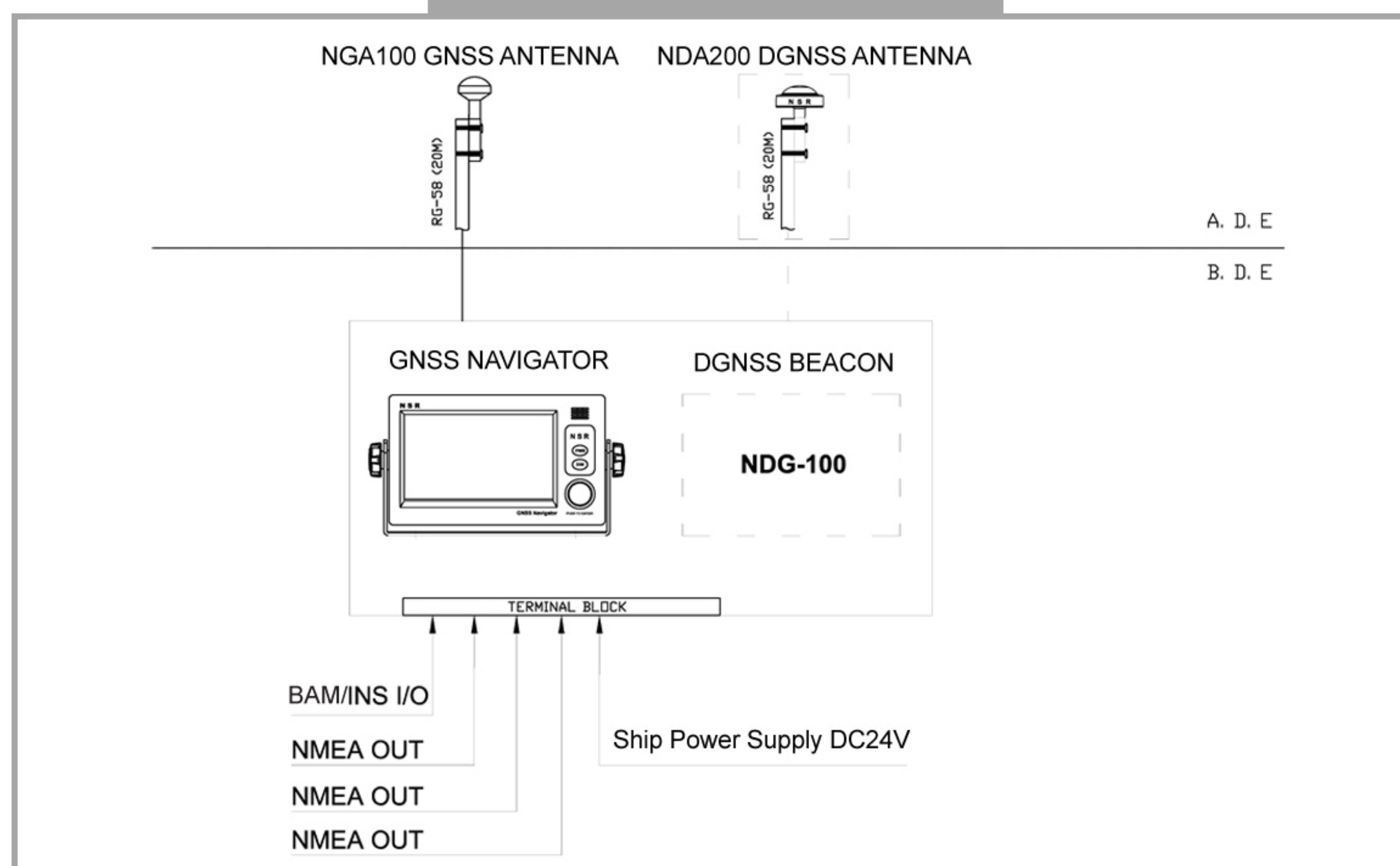
- GNSS Navigator 1 pc
 - GNSS Antenna with Cable 1 pc
 - Installation Materials 1 set

• OPTIONS

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



SYSTEM DIAGRAM



SIZE DIMENSION

