

# MF/HF RADIO

**NHR-1500**

- SDR (Software Defined Radio) technology
- Voice digitalized
- Large 7 inch color display
- Knob & touch screen operation
- Android system on NBDP terminal
- LAN network interface
- Data interface to BAM/INS
- Marine communication handset
- Type approval with DNV (MED) and CCS



**ALARM UNIT**



**NBDP TERMINAL**



**TRANSCEIVER**



**ANTENNA COUPLER**



**CONTROL UNIT**

- NHR-1500 MF/HF RADIO (GMDSS) is a high-performance MF/HF device, capable of voice communication and DSC (digital selective calling) facilities as well.
- Conforming to Class A standard set for MF/HF DSC by ITU and IMO regulation, NHR-1500 can be part of onboard GMDSS package for vessels of A2/A3/A4.
- NHR-1500 conforms to the regulations of ITU-R M.476-5, ITU-R M.492-6, ITU-R M.493-15, ITU-R M.541-10, IMO MSC.302 (87), IEC 61097-9, IEC 61097-3, IEC 60945, IEC 62923-1, IEC 62923-2 etc.



## SPECIFICATIONS

- TX Frequency: 1605.0 ~ 27500.00 kHz
- RX Frequency: 300.0 ~ 29999.99 kHz
- Working Channel: 400+ channels
- Communication Mode: Simplex/Semi-duplex
- Emission Class: J3E, H3E, A1A, F1B
- TX Power: 150 W pep
- RX Sensitivity:  $\leq 2.5 \mu V$  (1605.0~27500.0 kHz, J3E)  
 $\leq 0.7 \mu V$  (1605.0~27500.0 kHz, F1B)
- DSC Frequencies: 2187.5, 4207.5, 6312.0, 8414.5, 12577.0, 16804.5 (kHz)
- Control Display: 7 inch color display, touch screen
- Interface: LAN, BAM/INS/GNSS (RS422)
- Antenna Impedance: 50  $\Omega$
- Power Supply: DC 24 V (range 18 V ~ 29 V)
- Operating Temperature: -15° ~ 55°C (indoor parts)  
-25° ~ 55°C (outdoor parts)
- IP Grade: IP22: Control Unit, Transceiver, Handset,  
RF Junction Box; IP66: Antenna Coupler

## EQUIPMENT LIST

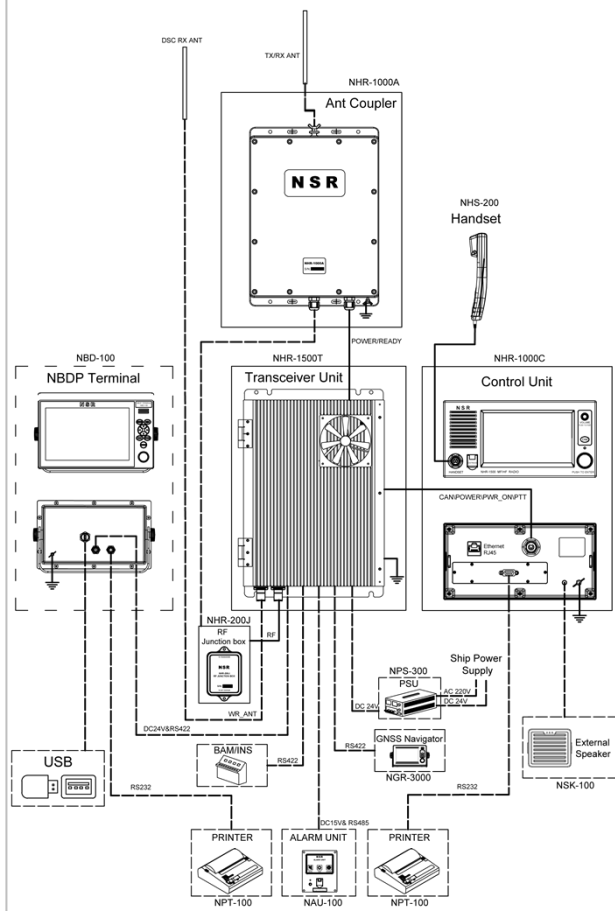
### ● STANDARD

|                       |           |       |
|-----------------------|-----------|-------|
| - Transceiver         | NHR-1500T | 1 pc  |
| - Control Unit        | NHR-1000C | 1 pc  |
| - Antenna Coupler     | NHR-1000A | 1 pc  |
| - Handset             | NHS-200   | 1 pc  |
| - Cable & Accessories |           | 1 set |

### ● OPTIONS

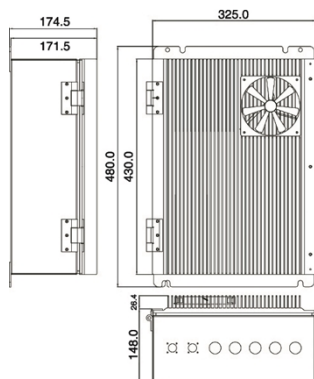
|                    |                 |       |
|--------------------|-----------------|-------|
| - Printer          | NPT-100         | 1 pc  |
| - NBDP Terminal    | NBD-100         | 1 pc  |
| - Alarm Unit       | NAU-100         | 1 pc  |
| - External Speaker | NSK-100         | 1 pc  |
| - TX/RX Antenna    | NHA100          | 1 pc  |
| - DSC RX Antenna   | NXA100, NXA100A | 1 set |
| - AC/DC PSU        | NPS-300         | 1 pc  |

## SYSTEM DIAGRAM

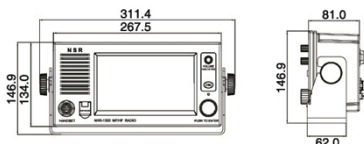


## SIZE DIMENSION

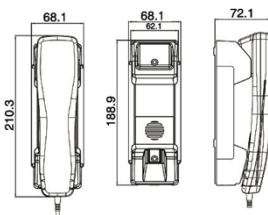
### TRANSCIVER



### CONTROL UNIT



### HANDSET



### ANTENNA COUPLER

