SAMYUNG

CLASS A AIS
TRANSCEIVER

- ☑ High resolution color display / All in one Class A transceiver
- ☑ Receiving multiple GNSS at once
- ☑ Compliant with the latest version of international regulations



AIS

TRANSCEIVER

SI-70A

WWW. SAMYUNGENC.COM

CLASS A AIS TRANSCEIVER

FEATURES

- Compliant with IEC61993-2 Ed.2.0 / IEC61162-1 Ed.5.0 / IEC62288 Ed.2.0 / ITU-RM.1371-5 / ITU-RM.493-14 / ITU-RM.825-3 / IMO Resolution MSC.74(69) / IEC60945 Ed 4.0 / IEC61108-1 / IEC61108-2, and the latest international regulations
- Isolated power supply voltage 11~36V (built in reverse prevention circuit)
- Two additional RS-232 outputs (built in protection circuit)
- Easy setting up at boot time and convenient keyboard.
- Various target ship alignment method (MMSI, distance, bearing descending/ascending order)
- Searching target ship with Ship name, MMSI
- Korean, Chinese, English, Russian menu option
- Day/Night time display mode
- Auto speed detection and checking of external sensor input
- Upgraded Self-diagnosis function / Internal fault diagnosis system for continuous diagnosis
- Easy software upgrade by using SD card(1G~16G available)

SPECIFICATIONS

POWER

- AIS unit DC IN : 12V(RX:0.9A/TX:5.2A)/24V(RX:0.5A/TX:2.5A)
- AC/DC unit (SP-70AD) AC IN : 100~230 VAC, 47~63 Hz
  DC OUT : DC 24V

TRANSCEIVER

- TX/RX Frequency range : 156.025 ~ 162.025 MHz
- Default Frequencies : AIS1 (CH 87B) = 161.975 MHz(F1D)
  AIS2 (CH 88B) = 162.025 MHz(F1D)
  DSC (CH70 fixed) = 156.525 MHz(G2B)
- Power output : 12.5W (41dBm±1.5dB / 8.91W~17.78W)
  or 1.0W (30dBm±1.5dB / 0.7W~1.41W)
- Antenna impedance : 50 ohms (SO-239)
- Sensitivity (AIS RX) : PER < 20% at -107 dBm
- Sensitivity (DSC RX) : BER $<10^{-4}$ at -107 dBm

DISPLAY

- LCD : 7 inch TFT color, 800 x 480

INPUT / OUTPUT COMMUNICATION

- SENS1/2/3 : IEC61162-1/2 (input only)
- LONG/AUX/PILOT : IEC61162-1/2 (input & output)

GNSS ANTENNA / RECEIVER SPECIFICATION

- Antenna : GNSS-70
  (PATCH ANTENNA / TNC / RG-58U / Gain:17dB)
- Receiver : 72-channel u-blox engine / GPS / QZSS / GLONASS / BeiDou / Galileo / WAAS, EGNOS, MSAS.

VHF SPECIFICATION

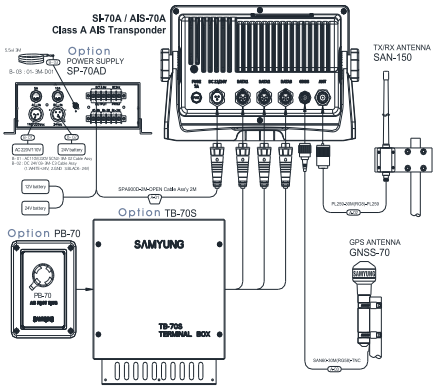
- Model name : SAN-150 (2dBi)
- Connector type : Standard female UHF
- Frequency range : 156-162 MHz, VSWR < 1.5:1
- Impedance : 50 ohm
- Output range : 100W

OPERATION ENVIRONMENT

ENVIRONMENT

- Standards : IEC 60945 (EMC, Dry heat, humidity, low temperature, vibration, corrosion, compass safety distance, etc.)
- Antenna operation : -30°C to +70°C
- Main body operation : -15°C to +55°C
- Storing Temperature : -25°C to +75°C

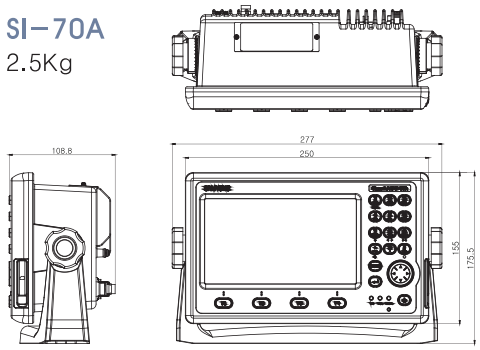
CONFIGURATION



DIMENSIONS

SI-70A

2.5Kg



COMPONENTS

- SI-70A Main Unit
- GNSS Antenna, Cable (GNSS-70)
- VHF Antenna (SAN-150)
- Operation manual
- (Option) AIS Pilot plug (*PB-70)
- (Option) Terminal box (*TB-70S)
- (Option) AC/DC Power supply (*SP-70AD)

*depend on the country

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KS Q ISO 9001:2015/ISO 9001:2015

※ Technical specification maybe changed without prior notice