KODEN

Class A / Inland AIS Transceiver

KAT-330

World's most sophisticated AIS Transceiver

Features

- Meets IMO Resolutions: A.694 (17), MSC.191 (79), MSC.74 (69), ITU-R M.1371-5 (2014)
- Meets FCC, USCG, IC, TC, CCNR (Inland AIS)
- Chart display available by C-MAP MAX (on a Non-SOLAS or Inland vessel only)
- Simple menu display with icons
- Water and weather proof (IPX6 & IPX7)

SPECIFICATIONS

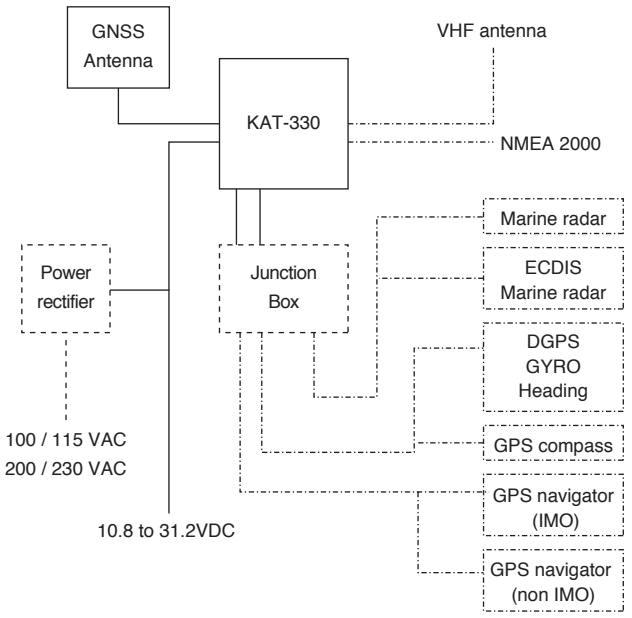
Model	KAT-330
Output power	1 W or 12.5 W (automatic selection)
Display size and type	5 inch, color LCD with adjustable backlight
Display resolution	800 x 480 pixels
TX / RX frequency	156.025 MHz to 162.025 MHz
Impedance	50 Ω
DSC receiver	156.525MHz (Channel 70)
Channel bandwidth	25 kHz
Presentation modes	Target list, Voyage data setting, Target plot, Chart*, Messages, Alarms, Own dynamic data, System settings (*The chart feature is only enabled when this Class A AIS transceiver is operating on a non-SOLAS or inland vessel.)
Alarms	TX Malfunction, RX Channel x malfunction, Antenna VSWR exceeds limit, External EPFS lost, No valid COG, No valid SOG, Heading lost or invalid, No valid ROT, No sensor position in use, UTC Sync Invalid, Nav Status Incorrect, Active AIS SART, Internal / External GNSS mismatch, Heading sensor offset
Receiver channels*	32 channels GPS and GLONASS operating modes
Frequency*	L1 GPS band, 1575.42 MHz and L1 GLONASS band 1597.1 to 1609.5 MHz
Sensitivity*	< -107 dBm for 20% PER (TDMA Transmitter / Receiver) -107 dBm@BER < 10^{-2} (DSC Receiver)
Position fixing system*	EPFS
Time to first fix (Cold start)*	Typically 26 seconds
Accuracy*	2.5 m CEP / 5.0 m SEP without differential correction
	2.0 m CEP / 3.0 m SEP with SBAS or RTCM DGPS correction
Languages	German, Greek, English, Spanish, French, Italian, Japanese, Korean, Dutch, Portuguese, Russian, Chinese
Input data formats and sentences	IEC61162-1 / -2 ABM, ACA, ACK, AIR, BBM, DTM, GBS, GGA, GLL, GNS, HDT, LRF, LRI, RMC, ROT, SSD, VBW, VSD, VTG, EPV, SPW, THS
Output data formats and sentences	IEC61162-1 / -2 ABK, ACA, ALR, LR1, LR2, LR3, LRF, LRI, TXT, VDM, VDO, TRL, VER
NMEA ports	Sensor data input ports IEC61162-1 / -2 3 ports 4800 baud or 38400 baud Bi-directional data ports IEC61162-1 / -2 3 ports 4800 baud or 38400 baud
Power supply	10.8 to 31.2 VDC
Power Consumption (24 VDC)	12 W or less

Environmental

Operating temperature	Display unit	-15°C to +55°C
	GNSS antenna	-40°C to +80°C
Water protection	Display unit	IPX6, IPX7
	GNSS antenna	IP67

* Internal GNSS

CONNECTIONS



Solid lines: Standard devices and connections
Dashed lines: Optional devices and connections
Dashed-dotted line: Owner supply

EQUIPMENT LIST

Standard Equipment

Display unit (AIS Transceiver)	KAT-330.MU
Mounting bracket	Bracket moulding, Bolts, Nut, Washer, Spring washer
Power cable	DC cable and one end plain (2 m)
14 way data accessory cable	Connecting cable and one end plain (2 m)
18 way data accessory cable	Connecting cable and one end plain (2 m)
GNSS Antenna	With antenna cable and TNC connectors on the both sides (10 m)
Product mounting template, Fixings, Operation manual, Product CD, Quick installation guide, Quick operation guide, Mounting accessories	

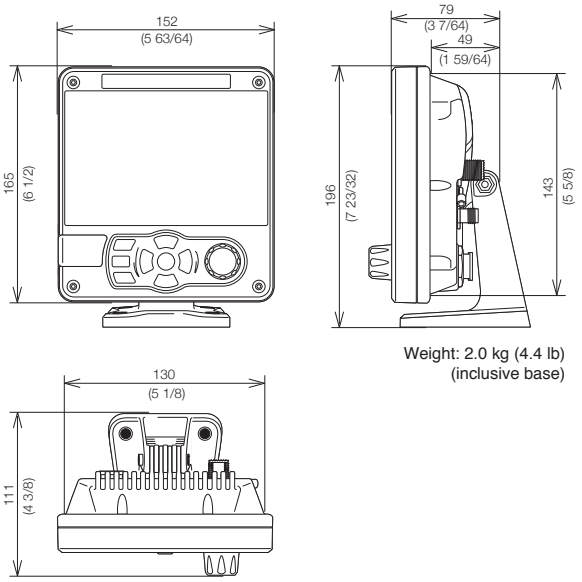
Option

Power rectifier, AC power cable, Junction box

DIMENSIONS AND WEIGHT

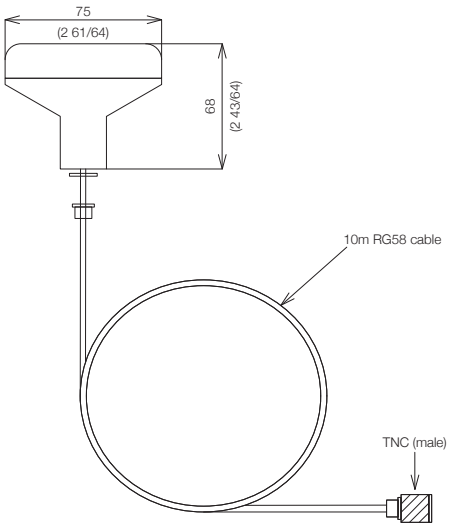
Unit: mm (inch)

Display unit (AIS Transceiver)



Weight: 2.0 kg (4.4 lb)
(inclusive base)

GNSS Antenna



Weight: 0.48 kg (1.1 lb)

• Design and specifications are subject to change without notice.

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Safety precaution To ensure proper and safe use of the equipment, please carefully read and follow the instructions in the Operation Manual.

For details, please contact:

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