

 PREVIOUSLY KNOWN AS THE R200U

FEATURES

- **Dual Parallel AIS Receiver**
- **Power & channel LEDs**
- **USB 2.0 compliant**
- **Low power consumption**
- **Compact Aluminium Housing**
- **USB or 12/24 volts dc powered**
- **NMEA 0183 VDM output**
- **Built in NMEA multiplexer**

RECEIVERS

R220U DUAL CHANNEL AIS RECEIVER WITH USB & NMEA OUTPUT

SKU: 001-1035

[View Online >](#)

OVERVIEW

The R220U is a high performance, dual channel AIS receiver, with outputs for both NMEA 0183 and USB. The R220U reads and decodes all AIS messages that are specified and transmitted by AIS Class A and Class B transponders, AIS SARTs and Aids to Navigation. The AIS targets together with all the static and dynamic information received can be displayed on any AIS compatible Chart Plotter or PC navigation program.

The unit can be operated in various modes to suit your application. If connected solely by a USB cable to a PC, the unit is powered by the PC and data is transmitted via the USB cable providing a compact solution. Whilst powered by the USB, NMEA 0183 output is also available from the data port. NMEA 0183 Input from a GPS can also be connected via the data port which is multiplexed with the AIS data to provide position information to the PC.

Connecting the unit to external 12/24VDC will automatically power the device from the boat's batteries and provide both USB and NMEA 0183 data.

APPLICATIONS

- A low cost method of monitoring the position, speed and heading of other vessels within VHF range
- Reception from both Class A and Class B vessels, AIS SARTS plus Aids to Navigation (AtoN)
- Compact design and simple installation

RELATED PRODUCTS

[R400N](#) - Network AIS Receiver with Ethernet capability[R400NG](#) - Network AIS receiver with Ethernet & GPS capability[i320W](#) - Bidirectional NMEA WiFi Interface

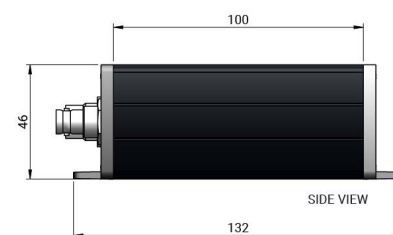
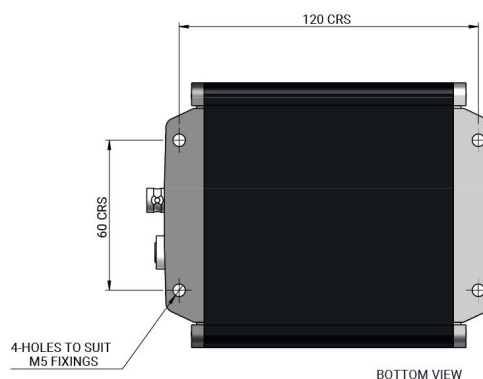
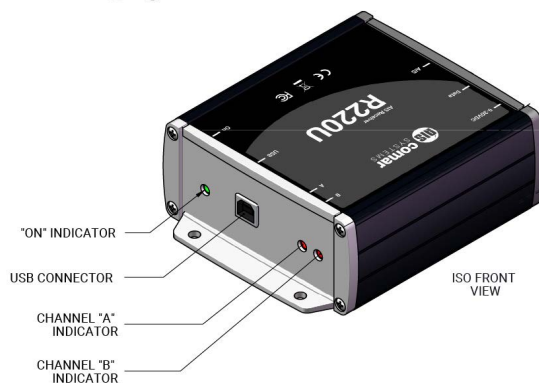
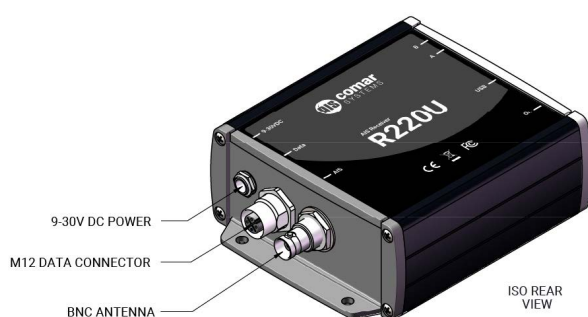
PHYSICAL	
Weight:	600g
Dimensions:	L 132 mm W 106 mm D 46 mm
Mounting:	4 mounting holes in end plates
Connections:	M12 Data Connector USB 2.0 Port: Type B (Cable Supplied) BNC Coaxial to antenna
Construction:	Aluminium, ABS End Caps
Finish:	Black Fine Texture Paint, Grey ABS

ELECTRICAL	
Power Supply:	12 V dc 3 W nominal (9-30 V dc)
Antenna Impedance:	50 Ω
Data Output:	NMEA 0183 at 38,400 Baud or USB VDM output message
Data Input:	NMEA 0183 at 4800

OPERATIONAL	
Frequency	Channel A 161.975 MHz Channel B 162.025 MHz
Sensitivity:	> -112 dBm
Display:	On (Green), Channel A (Red), Channel B (Red)
Data Types Received:	Name of Vessel; MMSI Number; Position; Speed (SOG); Course (COG); Type of Vessel; Call Sign; Heading; Rate of Turn; Navigational Status; Vessel Dimensions; Destination

ENVIRONMENTAL	
IP Rating:	IP40
Operating temp:	-15°C to +55°C
Compass:	Safe Distance 50 cm

ADDITIONAL	
Supplied:	R220U AIS Receiver
Supplied:	Universal 100-250 V ac to 12 V dc Power Supply
Supplied:	Installation manual
Supplied:	AIS viewing program
Supplied:	M12 Connector to bare cable tail
Supplied:	USB to virtual com port utility
Supplied:	Antenna Connector Adaptor



Copyright © 2023 Comar Systems Ltd. - R220U Datasheet v06r06

Vittlefields Technology Centre, Forest Road, Newport, Isle of Wight, United Kingdom. PO304LY
Comar Systems Ltd. reserves the right to make changes to its products and specifications without prior notice.