SPECIFICATIONS GENERAL

Receiving frequency	1575.42 MHz (GPS/Galileo),		
······	1602.5625 MHz (GLONASS),		
	E1B (Galileo), 10F (GLONASS)		
Tracking code	C/A code (GPS), E1B (Galileo), 1OF (GLONASS)		
Positional accuracy	GPS 10 m approx. (2DRMS, HDOP<4)		
(dependent on ionospheric	DGPS 5 m approx. (2DRMS, HDOP<4)		
activity and multipath)	WAAS 3 m approx. (2DRMS, HDOP<4)		
	MSAS 7 m approx. (2DRMS, HDOP<4)		
Ship's speed accuracy (SOG)	0.02 kn RMS (tracking satellites 5 or more)		
Ship's speed accuracy	0.2% of ship's speed or 0.02 kn whichever is the greater		
(VBW, SOG)	(tracking satellites 5 or more, at antenna position)		
Course accuracy	SC-130 0.25° RMS, SC-70 0.4° RMS		
Course resolution	0.1°,0.01°,0.001° (select from menu)		
Attitude resolution	0.1°,0.01°,0.001° (select from menu)		
Rate of turn	0.1°/s, 0.01°/s or 0.001°/s (select from menu)		
Tracking bearing	40°/s		
Position fixing time	90 s approx. (typical)		
Attitude accuracy	Pitch/ Roll: 0.4° RMS		

DISPLAY UNIT

Screen	4.3-inch color LCD, 95.04 mm (W) x 87.12 mm (H)	
Resolution	480 x 272 dots (WQVGA)	
Brilliance	600 cd/m ² typical	
Contrast	17 levels	
Display mode	Heading, Nav data,	
	Pate of turn and Spood modes (Non-IMO turnes only)	

INTERFACE (JUNCTION BOX)

Number of ports (j	unction box)		
IEC61162-2:		1 port (IN: 1, OUT: 1)	
IEC61162-1:		8 ports (IN: 4, OUT: 8)	
External beacon input (DATA5 port):		RTCM SC-104 V2.3 (RS-485), ITU-R M823	
CANbus:		1 port	
AD-10:		4 ports, for heading output	
RS-485:		1 port, for display unit connection	
LAN (IEC61162-450):		Ethernet, 100Base-TX, RJ45 connecter	
Data sentences			
DATA ports	Input	ACK, ACM, ACN, HBT, HDT*1, MSK, MSS, THS, VBW*2, VDR*	
	Output	ALC, ALF, ALR, ARC, DTM, GBS, GGA, GLL, GNS, GRS,	
		GSA, GST, GSV, HBT, HDG*2, HDM*2, HDT*1, HRM*2, MSK,	
		POS, RMC, ROT, THS, VBW*2, VDR*2, VHW*2, VLW*2, VTG,	
		XDR*2, ZDA	
NETWORK ports	Input	ACK, ACM, ACN, HBT	
	Output	ALC, ALF, ALR, ARC, DTM, GBS, GGA, GLL, GNS, GRS, GSA	
		GST, GSV, HBT, HDG, HDM, HDT*1, HRM*2, POS, RMC,	
		ROT, THS, VBW*2, VDR*2, VHW*2, VLW*2, VTG, XDR*2, ZDA	
Output proprietary	sentences	PFEC: GPatt, GPhve, GPimu, Ilalr, pidat	
PGN	Input	059392/904, 060928, 061184, 126208/720/996	
	Output	059392/904, 060928, 061184, 065280,	
		126208/464/720/992/996, 127250/251/252/257/258,	
		129025/026/029/033/044/291/539/540/545/547,	
		130310/312/314/316/577/578/822/823/842/843/845/846	
IEC61162-450 trans	smission grou	p	
	Input	MISC, SATD, NAVD, PROP	
	Output	Arbitrary (default: SATD)	
Other network fund	ction	NTP, HTTP	
*1: Not used for new *2: for Non-IMO type POWER SUPP	es only.	S.	
Junction box	12-24 VDC:	2.1-1.1 A (included Antenna Unit and Display Unit)	
ENVIRONMEN		DITIONS	
Dis		ntenna unit: -25°C to +55°C (storage: -25°C to +70°C)	
		splay unit/ Junction box: -15°C to +55°C	
		5% or less at +40°C	
5		ntenna unit IP56	
	Di	splay unit IP22 (IP35: option)	
1			

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IEC 60945 Ed.4

Vibratior

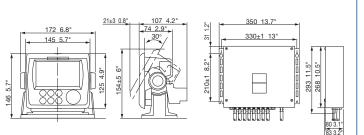
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Junction box IP20 (IP22: bulkhead mount)

EQUIPMENT LIST

Star	ndard		
1	Antenna Unit	SC-703 x 1	
		SC-1303 x 1	
2	Display Unit	SC-702 x 1	
3	Junction Box	SC-701 x 1	
4	Installation Materials		
Opt	tional supply		
1	AC/DC Power Supply Unit	PR-240	
2	Alarm Monitoring	IF-2503	
3 Interface Unit		IF-NMEA SC	
4	Remote Display	RD-50	
5 Connector (waterproof)		FRU-RJ-PLUG-ASSY	
6 Modular Connector		MPS588-C	
7 LAN_CNV Kit		OP20-47/48	
8	Cable Assembly	M12-05BFFM-010/020/060	
9 Connector (NMEA)		LTWMC-05BFFT-SL8001	x 1
		LTWMC-05BMMT-SL8001	x 1
		SS-050505-FMF-TS001	x 1

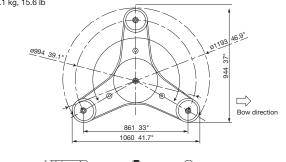
DISPLAY UNIT (HANGER) SC-702 0.7 kg, 1.5 lb



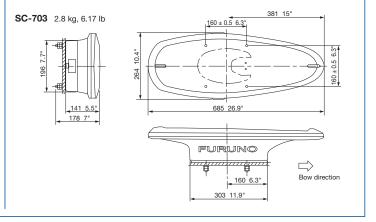
JUNCTION BOX

SC-701 2.9 kg, 6.39 lb

ANTENNA UNIT SC-1303 7.1 kg, 15.6 lb







SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

SATELLITE COMPASS Model SC - 70/130







High precision and accurate heading of 0.25° (SC-130) Perfect for Radar, ECDIS, AIS, Sonar and Autopilot



SATELLITE COMPASS Model SC-70/130

Standard High contrast 4.3" Color LCD (on the screen, the THD mode) SC-702

The SC-70 and SC-130 are the latest satellite compasses, built on FURUNO's commercial-grade technology platform.

These satellite compasses prove their value by increasing the accuracy of other devices, such as Radar, ARPA, Scanning Sonar, Current Indicator, Chart Plotter, ECDIS and Autopilot.

They provide a highly accurate heading input to these other technologies by utilizing the very latest GNSS (Global Navigation Satellite System). This satellite system is comprised of GPS, Galileo and GLONASS to ensure the highest

precision and a continuous coverage.

The SC-70 and SC-130 provide a variety of data, including GPS Positioning, SOG (Speed Over Ground), COG (Course Over Ground), ROT (Rate Of Turn) and 3-axis speed (bow, stern and longitudinal).

All of these data assist with critical maneuvers, such as berthing.

These compasses are maintenance free and are a great asset for any vessel.

Features

SC-130 features a Tri-sensor antenna that provides a high system accuracy for the heading of your vessel

Provides highly accurate heading data for Autopilot, Radar, ARPA, Scanning Sonar, Current Indicator, Chart Plotter, ECDIS and Autopilot.

• 0.25° (with SC-130)

Ideal for medium to large vessels navigating in crowded ports and making precise maneuvers, such as berthing • 0.4° (with SC-70)

Ideal for small to medium boats requiring highly accurate heading.

▶ Utilizes GNSS such as GPS, Galileo and GLONASS for high Precision

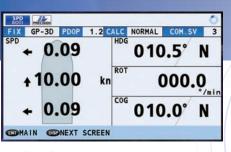
•SBAS compatible (EGNOS WAAS MSAS) • Provide precise data for SOG, COG, ROT and L/L •Eliminating the problem of not having enough satellites at hand by using multiple types of satellites

Speed on 3 axis (bow, stern and longitudinal) for safe navigating and berthing

IMO Type-approved as THD, GPS and ROTI. Complying with the IEC, ISO requirements

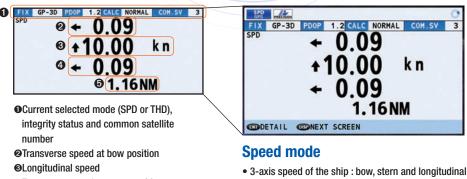
- **Easily integrated into the existing shipboard network** via Ethernet
- Rapid follow-up rate 40°/s (twice the IMO high speed craft requirement. 20°/s)
- Maintenance free and no recurring cost as there are no mechanical parts
- Super short starting time 90 seconds •Once the power is on, it takes about 90 seconds to start (the starting time will slightly differ depending on the equipment location)
- Easy to retrofit by using existing antenna cabling • For SC-50/55/60/110/120 (The LAN_CNV option kit is necessary)
- Precision Pitch/Roll data in Analog and Digital formats for Vessel Stabilization, SONAR, etc.

Display modes

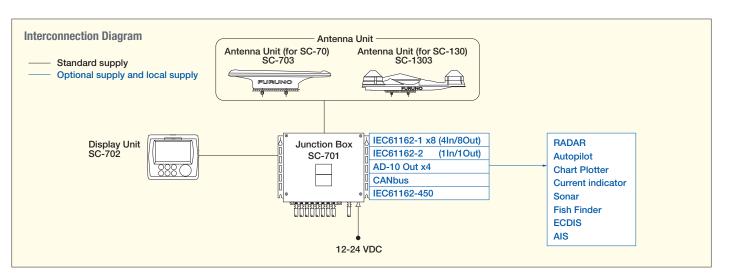


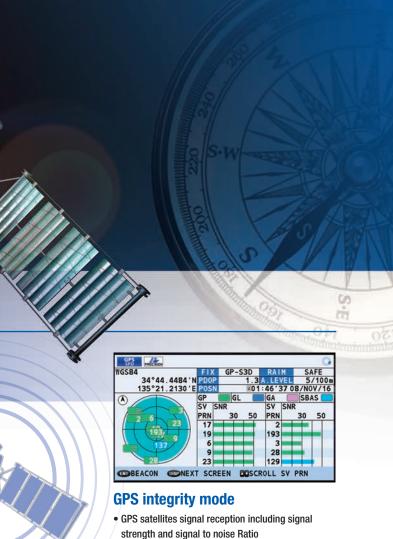
Navigational data screen

• 3-axis speed, as well as the Heading, Rate Of Turn and Course Over Ground can be grasped at a glance. (non-IMO type only)



Transverse speed at stern position ODistance travelled





SBAS signal status

(non-IMO type only)

Check out the collection of marine electronics & navigation we offer.