

Marinelite®

GC120 GNSS Compass

High precision and stability (**0.2° RMS**) of heading



HD touch screen
Display Instrument (Optional)

- Pre-type carrier phase decoding technology, more precise orientation;
- Beidou/GPS dual-star system with faster directional speed;
- Advanced speed and course filtering technology to make the data more stable;
- Built-in gyro compensation system has better heading performance;
- It has the characteristics of fast start, signal recapture, heading update up to 20 times per second, and turning rate up to 90°/s;
- Multi-channel standard NMEA0183 output, providing high-stability, high-precision ship heading data and positioning data for Radar, ARPA, ECDIS, AIS, Chart Plotter, Autopilot, Sonar and other marine navigation equipment;
- Excellent industrial product design, stylish appearance, easy installation;
- The full-touch compass display is equipped with multiple display modes, the data is more intuitive, and the equipment is more convenient;
- Maintenance free and no recurring cost as there are no mechanical parts.

GC120 GNSS Compass

Specification

General

Frequency	B1, L1, G1
Baseline Length	110cm(GC1201)
Heading Accuracy	0.2° RMS(GC1201)
Attitude Accuracy	Pitch/ Roll: 0.3° RMS
Cold Start	<2 min
Position Accuracy	2.5m
First Positioning Time	Cold Start: ≤32s Hot Start: ≤1s Recapture: ≤1s
Speed Measurement Accuracy	GPS+BDS : 0.1m/s

Interface

Number of Ports	NMEA0183 Data Interface ×6 GNSS output ×2 , fixed at 9600bps HDT output ×2 , default 4800bps, adjustable HDT and GNSS output ×2 , default 38400, adjustable AD-10 ×1 Display Instrument ×1 CAN ×1 (Preset)
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Data Sentences	RMC, VTG, GGA, GSA, GSV, GLL, ZDA, GST, GBS, GNS, GRS, HDT, ROT, THS, SHR
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Display Unit (Optional)

Screen	7"
Resolution	800*480
Display Mode	Compass + data, Heading mode, positioning data mode, ROT mode

Power Supply

Power Supply	11~35V
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Environmental Condition

Temperature	-30°C~+70°C
Degree of Protection	Antenna unit IP56; Junction box IP20
Vibration	IEC60945

*Specifications may be subject to change without notice.

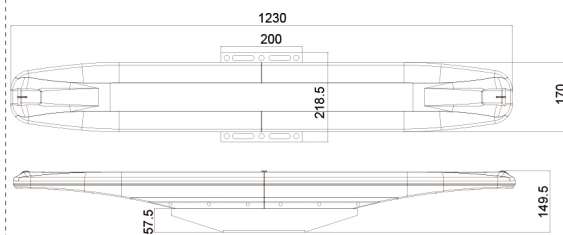
Equipment List

1 Antenna unit GC1201	x 1	6 6Pin data cable(Optional)	x 1
2 Junction Box GC1200	x 1	7 8Pin data cable	x 1
3 Display Unit GC1202(Optional)	x 1	8 Mounting bracket	x 1
4 GNSS compass antenna data cable	x 1	9 Installation manual	x 1
5 2Pin power cable	x 1	10 Other installation accessories	x 1

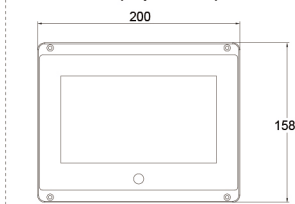
Dimensions

Unit: mm

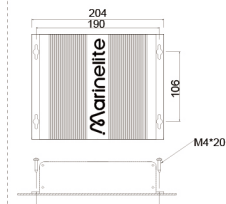
GC1201



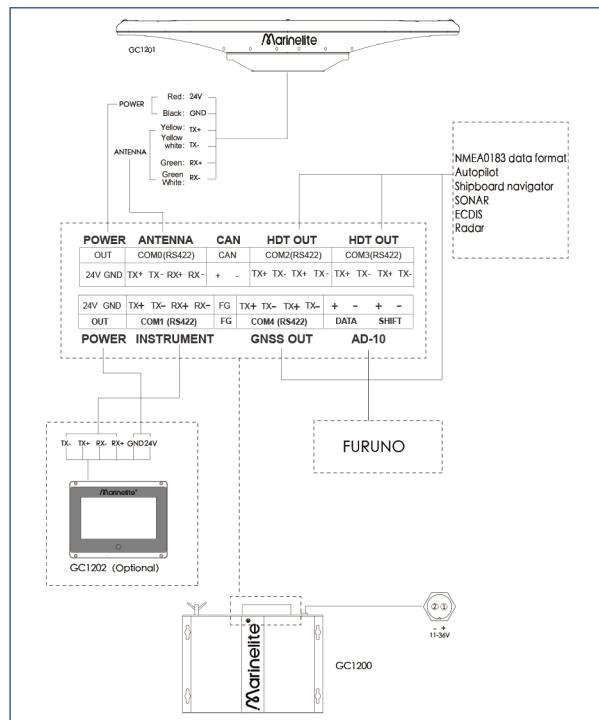
GC1202(Optional)



GC1200



Interconnection Diagram



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