

SPECIFICATIONS OF GPS PLOTTER/SOUNDER GP-1670F

1 GENERAL

1.1	Display	5.7-inch TFT color LCD, 640 x 480 dots
1.2	Display mode	Plotter, Plotter/Sounder, Sounder, Highway, Waypoint display
1.3	Projection	Mercator
1.4	Useable area	80° latitude or below
1.5	Language	Bahasa Indonesia, Bahasa Malaysia, Chinese, Danish, English (UK/USA), Finnish, French, German, Greek, Italian, Japanese, Norwegian, Polish, Portuguese, Russian, Spanish, Swedish, Thai, Vietnamese
1.6	Brilliance	800 cd/m ² typical

2 GPS RECEIVER

2.1	Receiving channels	GPS: 50 channels, SBAS: 1 channel
2.2	Rx frequency	1575.42 MHz
2.3	Rx code	C/A code, WAAS
2.4	Position fixing system	All in view
2.5	Accuracy	GPS 10 m, SBAS 7.5 m
2.6	Cold start	90 s approx.
2.7	Update interval	1 s
2.8	Receiving sensitivity	-150 dBm
2.9	SBAS	WAAS, EGNOS and MSAS

3 PLOTTER FUNCTION

3.1	Effective projection area	0.125 NM to 2,048 NM (at equatorial area)
3.2	SD card	32 GB max., C-MAP 4D chart
3.3	Track display	Plot interval: by time or distance
3.4	Memory capacity	Track: 30,000 points, Waypoint: 30,000 points, Course: 1,000 route
3.5	AIS information	200 points
3.6	Weather information	Wind, Wave, Weather type, Humidity and Temperature
3.7	Equipments monitor	Engine monitor, Instruments information

4 SOUNDER

4.1	Transmit frequency	50/200 kHz
4.2	Transmit method	Single or alternative transmission
4.3	Transmission power	600 W/ 1kW rms selectable
4.4	Transmission interval	2000 times/min.
4.5	Pulselength	0.04 to 3.0 ms
4.6	Receiving sensitivity	10 dB μ V
4.7	Range	Basic range: 5 to 1200 m, Shift: 0 to 1200 m
4.8	Picture advance speed	7 steps
4.9	Other functions	ACCU-FISH™, A-scope, bottom discrimination,

Automatic mode (cruising/fishing)

5 INTERFACE

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| 5.1 | I/O port | CAN bus, USB for maintenance |
| 5.2 | Data format | IEC61162-1/NMEA Ver1.5/2.0/3.0 (data converter required) |
| 5.3 | Data sentences | |
| | Input | GGA, GLL, HDG, HDT, MDA, MTW, MWV, RMA, RMB, RMC, VHW, VTG, ZDA |
| | Output | DBT,DPT,MTW*,TLL*,VHW* (*: external data required) |
| 5.4 | CAN bus PGN (NMEA2000) | |
| | Input | 059392/904, 060928, 061184, 126208/992/996, 127245/250/251/488/489/493/496/505, 128259/267, 129025/026/029/033/038/039/040/538/540/793/794/798, 129808/809/810, 130306/310/311/312/313/314/577 |
| | Output | 059392/904, 060928, 126208/464/992/996, 127258, 128259/267/275, 129025/026/029/033/283/284/285, 130310/312/830/831/832 |

6 POWER SUPPLY

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|-----|---------------------------|---|
| 6.1 | Display unit | 12-24 VDC: 0.9-0.5 A |
| 6.2 | Rectifier (PR-62, option) | 100/110/115/220/230 VAC, 1 phase, 50/60Hz |

7 ENVIRONMENTAL CONDITIONS

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| 7.1 | Ambient temperature | -15°C to +55°C |
| 7.2 | Relative humidity | 93% or less at +40°C |
| 7.3 | Degree of protection | IP56 |