

GP SERIES HIGH SENSITIVITY MARINE GPS NAVIGATOR SOLUTION WITH AIS



STRONGER THAN EVER

HIGH-RESOLUTION COLOR LCD

GPS AND BEIDOU DOUBLE MODULE POSITIONING

PROFESSIONAL CHARTS

20000 WAYPOINTS

10000 TRACKS

100 ROUTES

20000 MARKS

20000 BEACONS

2000 LINES

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GP SERIES HIGH SENSITIVITY MARINE GPS NAVIGATOR SOLUTION WITH AIS



5"
GPS/AIS DEVICE



5"
GPS/AIS/CHART DEVICE



7"
GPS/AIS/CHART DEVICE



8"
GPS/AIS/CHART DEVICE



10"
GPS/AIS/CHART DEVICE



12"
GPS/AIS/CHART DEVICE

FEATURES

- The main features of the GP series navigator
- High-resolution color LCD
- Multi-display mode
- Visual and audio alarm remind
- Quick key and pop-up menu for convenient operation

NAV

- Plotter display, highway display, steering display, etc.
- Storage for 20,000 waypoints, 100 routes and 10,000 track points;
- Visual and audio alarm of Arrival/Anchor, XTE,
- Man overboard features and quick GOTO mark set.

AIS(OPTIONAL)

- Radar display, Multi-lists display, plotter display
- Detailed target information display
- Watch function for fishing net buoy, friend ships, etc.
- Visual and audio alarm of collision, SART, MOB
- Watch target lost, watch target deviation, etc.
- Safety and normal message display.

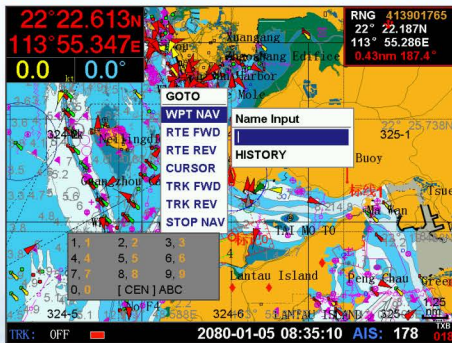
CONFIGURATION

Function Model	SIZE	GPS	AIS	CHART
GP-50	5 INCHES	✓	×	×
GP-50A	5 INCHES	✓	✓	×
GP-50C	5 INCHES	✓	×	✓
GP-50AC	5 INCHES	✓	✓	✓
GP-70	7 INCHES	✓	×	✓
GP-70A	7 INCHES	✓	✓	✓
GP-80	8 INCHES	✓	×	✓
GP-80A	8 INCHES	✓	✓	✓
GP-100	10 INCHES	✓	×	✓
GP-100A	10 INCHES	✓	✓	✓
GP-120	12 INCHES	✓	×	✓
GP-120A	12 INCHES	✓	✓	✓

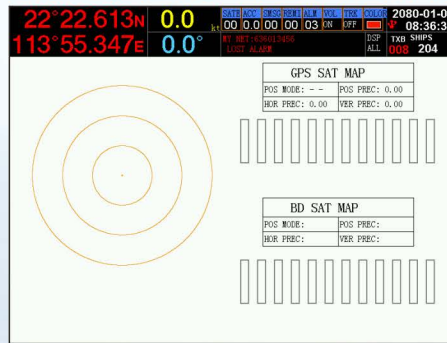
VARIOUS DISPLAYS

The GP series navigator provides navigation/AIS data and displays them in a wide variety of numerical and graphical formats. You may freely select which data you want displayed with easy to use controls.

ACCURATE NAVIGATION



DOUBLE MODULE POSITION



MULTI-FUNCTION MENU

MENU	
WPT	TRACK
ROUTE	MARK
PLOTTER	BEACON
ALARM	LINES
SYSTEM	MOB
GPS SET	DATA
SATELLITE	TIDE
MESSAGES	OTHERS
EMERGENCY	AIS

AIS SHIP LIST

RCV	NO.	BRG	MMSI	SOG	COG	NAME
1	3.43	157.4	413901765	0.1	0.0	413901765 [A]
7	0.86	252.9	412460910	28.4	302.0	
2	1.64	296.2	412460980	32.9	150.9	
2	1.84	107.2	412473310	0.1	228.9	
1	1.98	142.7	477504900	11.5	292.0	
2	2.70	308.6	412463854	8.2	211.9	
1	2.95	106.8	413900033	7.9	274.5	
2	2.95	10.8	477995174	0.0	0.0	
4	2.97	339.0	412469250	28.9	19.0	
1	2.99	325.0	412463859	8.5	37.0	
1	3.09	316.7	413985463	4.6	189.4	
2	3.31	154.5	412469240	12.6	190.5	
2	3.48	324.4	413900961	8.7	167.2	
2	3.79	332.8	412460570	2.9	124.8	
2	4.43	283.4	412461320	22.3	33.1	
2	4.48	263.6	413471870	28.4	42.9	

AIS SHIP DETIL



AIS WATCH LIST

RCV	NO.	BRG	MMSI	DISP	MMSI	SOG	COG	MOVE	STATE	LOST	WARN
6	0.85	252.9	412460910	28.5	301.0	0.0	0.0	0.0	WARN ON	ON	ON
1	1.84	107.2	412473310	0.0	178.0	0.0	0.0	0.0	WARN ON	ON	ON
0	9999	000	636013456	0.0	359.0	0.0	0.0	0.0	LOST ON	ON	ON

OTHER DISPLAYS



THE COMPLETE AIS SOLUTION

GP SERIES perfectly adapted to
AIS NET BUOY
AIS MOB

AIS NET BUOY



AIS MOB



GP SERIES SPECIFICATIONS

1. GPS RECEIVER

1.1 Receiving Channels	GPS 50 channels parallel, 12 satellites tracking
1.2 Rx Frequency	1575.42 MHZ
1.3 Rx Code	C/A code
1.4 Position Accuracy	GPS 10 m (95% of the time, HDOP_4) DGPS 5 m (95% of the time, external data required)
1.5 Tracking Velocity	999 kt
1.6 Position-Fixing Time	Warm start: 12 s approx., Cold start: 90 s approx.
1.7 Position Update interval	1 s

2. AIS TRANSPONDER

2.1 Standards	ITU-R M.1371-3 IEC 62287-2 IEC 61993-2 IEC 60945 IEC 61162-1
2.2 Frequency	CH87 161.975MHz CH88 162.025MHz
2.3 Channel Bandwidth	25KHz
2.4 Frequency stability	≤ 2.5 PPM
2.5 Modulation	AIS GMSK
2.6 Power output	2W± 1.5dBm
2.7 Sensitivity	≤ -107 dBm
2.8 Max Usable Sensitivity	PER≤ 20% at -107 dBm
2.9 Channel Rejection Ratio	≤ -10 dB
3.0 Adjacent Channel Selectivity	≥ 70dB

3. ENVIRONMENTAL

3.1 POWER SUPPLY	12/24V DC
3.2 Ambient Temperature	Antenna unit: -25°C to +70°C Receiver unit: -15°C to +55°C
3.3 Damp Heat	93% or less at 40°C
3.4 Waterproofing	Antenna unit: IPX6 (IEC 60529) Receiver unit: IPX5 (USCG CFR-46)
3.5 Vibration	IEC 60945

4. RECORDING CAPACITY

4.1 Max Waypoint	20000
4.2 Max Route	100 500 waypoints per one
4.3 Max MOB	100
4.4 Max Track	10000 10000 points per one max points 500000
4.5 Max Mark	20000
4.6 Max Beacon	20000
4.7 Max Line	2000
4.8 Max AIS Watch	150 per group 2000 points per track
4.9 Max Ship AIS list Hold	2200

OVERVIEW (GP-70/GP-70A AS EXAMPLE)

