GPSMAP® 188/188C and 238 Sounder



The GPSMAP 188 —available in grayscale or sunlight-readable color display— and the GPSMAP 238 are powerful dual frequency sounders. They feature exceptional resolution,



Detailed chartplotter and sounder capabilities in one

fast redraw rates and split-screen capability so you can view your position and sounder information at the same time. These units are WAAS capable for 3-meter accuracy, have built-in worldwide basemaps with coastline detail, U.S. tide data and inland features. They also accept optional data cards with GARMIN's exclusive BlueChart[™] marine cartography for additional detail.



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GPSMAP® 188/188C and 238 Sounder

BlueChart[™]

WAAS (

MapSource[™] CDs:

Fishing Hot Spots®

Roads & Recreation WorldMap

U.S. Waterways & Lights

specifications

Novinsting footunes		Depth sounder features	
Navigation features	2000 with name, symbol and comments	•	
Waypoints/icons:	3000 with name, symbol and comments; support for proximity waypoints	Frequency:	50/200 kHz (40°/10°)
Routes:	50 reversible routes up to 50 (254 for 182C)	Sonar power output:	500 watts (RMS), 4000 watts (peak to peak)
noutes.	points each, plus MOB and TracBack [®] modes	Depth:	1500 foot max depth**
Tracks:	3000 point automatic track log, 15 saved		Shows weak/strong returns simultaneously
	tracks; 500 points per saved track, lets	Depth control gain (D	Automatically adjusts fishfinder sensitivity
	you retrace your path in both directions		according to depth
Alarms:	Anchor drag, arrival, off course,		
	proximity waypoint and clock	Power	
Tables:	Built-in celestial tables with sun and	Source:	8-35v DC
	moon rise, set and location. Tide tables for the U.S.	Usage:	4 watts max. at 13.8v DC
Map datums:	More than 100, plus user datum	Phase in a	
Position format:	Lat/Lon, UTM/UPS, Loran TDs and other	Physical	
Position format.	grids, including user grid	Size:	GPSMAP 188/188C = 6.3" W x 6.2" H x 2.6" D GPSMAP 238 = 7.7" W x 7.5" H x 2.6" D
Languages:	10	Weight:	GPSMAP 188/188C = 1.7 lbs. (.77 kg) GPSMAP 238 = 2 lbs. (.91 kg)
GPS performance		Display:	GPSMAP 188 = 5.5" diagonal (14.0 cm)
Receiver:	WAAS enabled, 12 parallel channel GPS		high-resolution, 10-level grayscale LCD
	receiver continuously tracks and uses up to 12 satellites to compute and update		with backlighting (240 x 360 pixels)
	your position		GPSMAP 188C = 5.0" diagonal (12.7 cm)
Acquisition times:			16-color TFT display with backlighting (234 x 320 pixels)
Warm:	Approximately 15 seconds		GPSMAP 238 = 7.1" diagonal (18.0 cm)
Cold:	Approximately 45 seconds		high-resolution, 10-level grayscale LCD
AutoLocate [™] :	Approximately 5 minutes 1/second, continuous		with backlighting (240 x 360 pixels)
Update rate:	i/secona, continuous	Case:	Fully gasketed, high impact plastic alloy,
GPS accuracy: Position:	< 15 meters, 95% typical*		waterproof to IEC 529 IPX7 standards
Velocity:	0.05 meter/sec steady state	Temp. range:	5°F to 158°F (-15°C to 70°C)
DGPS (USCG) accuracy	5	Accessories	
Position:	3-5 meters, 95% typical	Standard:	Power/data cable
Velocity:	0.05 meter/sec steady state	Stanuaru.	bail mount
DGPS (WAAS) accuracy			protective front cover
Position:	3 meters, 95% typical		remote antenna with 30' cable
Velocity:	0.05 meter/sec steady state		owner's manual
Dynamics:	6g's		quick reference guide
Interfaces:	2-RS232 with NMEA 0183, RTCM 104 DGPS data format and proprietary GARMIN	Optional:	Preprogrammed data cards with BlueChart [™] marine cartography
Antenna:	GPSMAP 188 = GA 29 remote marine mount		AC/PC adapter
	with 30' cable or bail mount antenna		12-volt adapter cable
	GPSMAP 238 = GA 29 remote marine mount		USB data card programmer
	with 30' cable		Second mounting station
			GBR 23 beacon receiver

Plotter/moving map features

Basemap:	Built-in worldwide basemap to 32 nm with coastlines, rivers, lakes, political boundaries, tide data for the U.S., cities and interstates
Data cartridges:	Preprogrammed micro cartridges contain detailed BlueChart [™] marine cartography



GPSMAP 238 Sounder



GPSMAP 188C Sounder



GPSMAP 188 Sounder



The big numbers option makes data fields readable from a distance.



The graphic pointer helps you stay on course to your destination.



Tide charts display detailed tide data for the U.S.

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Specifications are preliminary and subject to change without notice.

- Subject to accuracy degradation to 100m 2DRMS under the U.S. Department of Defense imposed Selective Availability Program.
- **Depth capacity is dependent on water salinity, bottom type, and other water conditions.

