

GM44-UB[®]

< RS232 >

GPS MOBILE LOCATOR

USER'S MANUAL



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Introduction

Welcome to GM44-UB GPS Mobile Locator user's manual.

Congratulation on your purchase of the GM44-UB® Mobile Locator GPS receiver/antenna. This is the latest in Plug-Navigate-Position innovation from SAN JOSE TECHNOLOGY, manufacturer of OEM GPS receiver & antenna around the world.

This new concept of Mobile navigation solution is using the devise to integrate with your Personal Computer and map software to display your real time location on the monitor.

The GM44-UB is an all-weather rugged design product for all applications. Before you get started with your GM44-UB®, make sure to read the PC hardware requirements to run the Mapping software.

Applications

- ◇ Navigation and positioning
- ◇ Finding streets and routes via GPS map software
- ◇ Travel/track planning
- ◇ Application for Marine Navigation
- ◇ Fleet management GPS system
- ◇ In-car navigating/locating for public safety and emergency
 AVL GPS function

Package Contents

After opening your package, make sure that the following items are not missing or damaged.

- *GM44-UB® Mobile Locator*
- *User's Manual and Driver's CD*

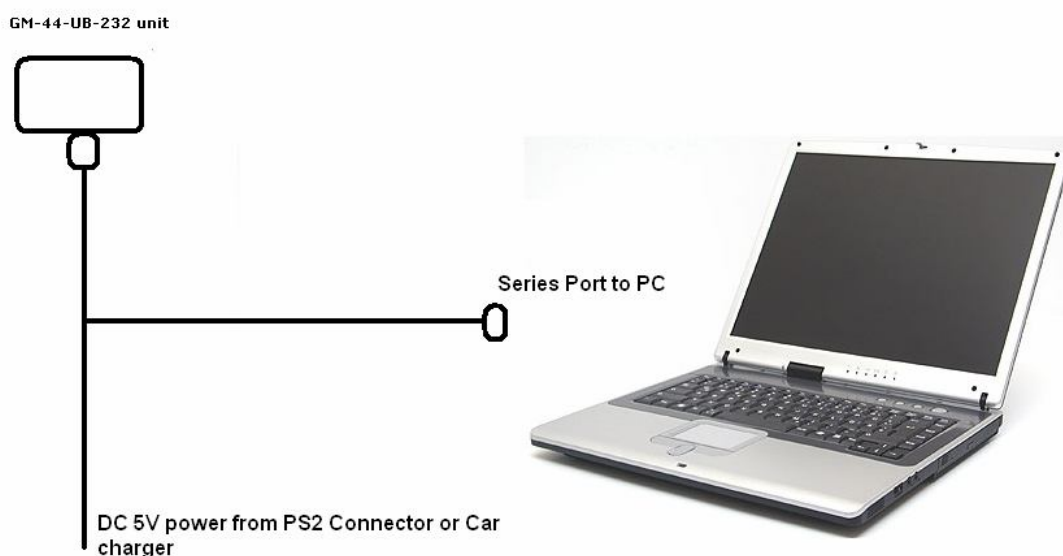
If above items are missing or damaged, contact SAN JOSE Navigation immediately at Tel: 886-2-2269-4456 Fax: 886-2-2269-4451

Getting Started

This section will introduce you to simply outfit your new GM44-UB® GPS Mobile locator to your PC.

GM44-UB® is a compact GPS receiver/antenna design for general purpose navigation and position locating when integrated with a computing device for mapping display (Notebook PC, PDA or Palmtop).

Hardware standard layout is shown below:



Hardware Requirement: *Computer 486 or Faster CPU, VGA Display card, Sound board (optional), at least 16MB DRAM, CD-ROM drive, Windows OS, at least a series port available.*

Power supply: DC 5V from PC's PSII port or Car charger.

Operating Procedure

Caution

DO NOT TRY TO DO STEPS, WHILE VEHICLE IS IN MOTION.
AND KEEP YOUR EYES ON THE ROAD

Step 1: Turn-on your NB/PC

Step 2: Insert the GM44-UB® GPS locator's RS 232 connector to PC's Com-port.

Step 3: To make sure the GM-44-UB is well connected to the PC, for checking, see your computer "Control panel, System properties, Device manager and Com-Port".

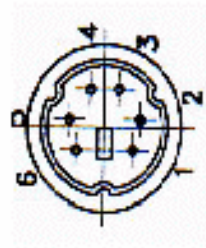
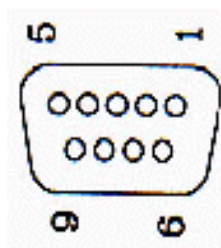
Step 4: When you're using the Map software, make sure you select the correct Com-port that is recorded in step 3.

Step 5: Position your GM-44-UB® with a clean sky view so that it receives GPS signals from Seattleites.

Pin Assignment

DB09 Female

DIN-6PIN



pin1 = n/c

pin2 = TXA

pin3 = RXA

pin4 = n/c

pin5 = GND

pin6 = n/c

pin7 = n/c

pin8 = n/c

pin9 = n/c

pin1 = n/c

pin2 = GND

pin3 = n/c

pin4 = n/c

pin5 = +5VDC

pin6 = n/c

Specification

PHYSICAL CONSTRUCTION		PERFORMANCE		
Dimension	56mm (Diameter) x 28 mm (Height)	Built-in Antenna element	High-reliability ceramic patch	
Weight (Without cable)	87 gram	Sensitivity	-150dbm	
		SBAS	Support WAAS, EGNOS	
Receiving frequency	1575.42MHZ, C/A code	Receiver architecture	50 parallel channels	
Enclosure	High impact, corrosion-proof	Start-up time	1.0 sec. typical (hot start) 32.0 sec. typical (warm start) 32.0 sec. typical (cold start)	
Mounting	Permanent/Pole mount	Position accuracy	Autonomous	<2.5 m
			DGPS (WAAS, EGNOS, RTCM)	<2.0 m
Construction	Fully waterproof structure	Velocity accuracy	0.1 m/s	
ENVIRONMENTAL CONDITIONS		Update Rate	1Hz standard	
Temperature	Operating: -30 ~ +75 °C	Current Supply	RS-232 5V or 8~35V (optional)	
	Storage: -40 ~ +85 °C			
COMMUNICATION		Power Consumption	63mA	
Protocol	NMEA, UBX binary	Baud Rate	Default at 4800 bps and 2400/4800/9600/38400/57600/115200 bps are selectable by using utility	
Signal level	RS 232			
INTERFACE CAPABILITY		POWER CABLE		
Standard Output Sentences	GSA*5, GSV*5, GGA, RMC, VTG	Length	5m	

APPENDIX

Troubleshooting Tips.

1. No updated display in your PC while moving.

- *Check cable connections and COM port setting at Control Panel/System Properties/Device Manager/Com-Port .*
- *Check raw data by using Window Terminal 4800bps*

2. No ASCII NMEA data when running terminal program in COM-n,4800 8N1

- *Check Control Panel/System Properties/Device Manager/Com-Port.*

3. Navigational software does not auto detect the GPS receiver

- *Check Installation & If the series connector connects to PC*

4. No GPS data after program initialize.

- *Check series port connection.*
- *Check for GPS obstruction toward the sky.*

5. GPS data are visible but no activity on the MAP SOFTWARE.

- *Check to see if the Map software desire NMEA sentences (GGA, GLL, GSA, GSV, RMC, VTG, ZDA) are present in viewing using Terminal Windows set at 4800bps*

Limited Warranty

GM44-UB® is a GPS receiver as part of navigational aids, and is not intended to replace other means of navigation or aids.

SAN JOSE TECHNOLOGY, INC. warrants this GPS receiver and accessories to be free of defect for a period of 12 months from the date of original purchase.

THIS WARRANTY APPLIES ONLY TO ORIGINAL PURCHASE.

In any event of a product defect while in normal usage, SAN JOSE TECHNOLOGY will replace or repair the product with no charge to the original purchaser for parts and labor. However, SAN JOSE TECHNOLOGY reserves the right of determination to replace or repair the defective product. The replacement or repaired product will be warranted for total of (ninety) 90 days from the date of return shipment, or for the balance of the original warranty, whichever is longer.

PURCHASER'S DUTIES

The purchaser must return the GPS receiver postpaid, with proof of the date of original purchase with the return address to:

[SAN JOSE Technology, INC.](#)

11F., NO. 2, Sec. 4, JHONGYANG ROAD, TUCHENG CITY, TAIPEI
HSIEN, TAIWAN, R.O.C.

TEL: 886-2-2269-4456

FAX: 886-2-2269-4451

WWW.SANAV.COM