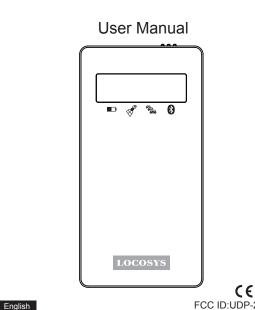
LOCOSYS

Pyramid

Bluetooth GPS/TMC Receiver



CE F© FCC ID:UDP-22000

© 2007 LOCOSYS Technology Inc.

 The Bluetooth®word mark and logos are owned by Bluetooth®SIG and any use of such marks by [licensee name] is under license. Other trademarks and trade names are those marks by [licensee name] is under of their respective owners.

Warning and Cautions

- Do not secure the product over airbag panels or in a place where the driver or passengers are likely to come into contact with it in the event of an accident or collision.
- Do not leave the product exposed to direct sunlight or near any heat or moisture sources, which can damage the product.
- Never dispose of the product in a fire. This can cause the battery to explode. If, for any reason, the electrolytic liquid of the battery comes into contact with the skin or the eyes, flush with plenty of water and call for medical help immediately.
- The GPS system is operated and maintained by the government of the United States, which is solely responsible for the accuracy and maintenance of the GPS. The system is subject to change which could affect the accuracy and performance of all GPS equipment.
- Do not attempt to disassemble or alter any part of this unit that is not expressly described in this manual. Internal inspections, alterations and repairs should be conducted by our authorized dealers. Unauthorized repair will void the warranty.

© 2007 LOCOSYS Technology Inc. 2

Introduction

• Superior sensitivity and performance even in urban

canyon and dense foliage environment.

· Capable of SBAS (WAAS, EGNOS, MSAS).

• Worldwide FM band supported (US/Europe).

• Built-in acceptable FM antenna and use USB/charge

• Operation time of battery is up to 11 hours in full

• Slim design with dimensions: 86 x 44 x 13.1 mm.

© 2007 LOCOSYS Technology Inc.

6

Features

• SiRF Star III low power chip.

• Built-in GPS patch antenna.

· Auto-search tuning for TMC.

cable as good external antenna.

• Standby time is over 1 month.

function mode

Welcome

Congratulations for choosing Pyramid. We hope you would agree it is an excellent positioning aid. We want you to have a very pleasant navigation experience with it, so please check the content in the package first. If you find any parts missing, please contact your LOCOSYS authorized dealer immediately. All our dealers are ready and willing to help.

This manual provides detailed instructions for operation. To fully understand all the features and functions, please take some time to read through the manual before using it. Some useful tips are also included in this manual.

Please visit our website and send us your comments. From time to time, we will have updates and upgrades available - based on your suggestions and recommendations. Have fun with it!

> Sincerely yours, LOCOSYS Technology Incorporation

© 2007 LOCOSYS Technology Inc. 3

Getting Start

Charging the battery

It is recommended to charge the battery before starting to use this unit. You may use the travel adapter or the car adapter that included in the package:

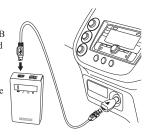
Travel Adapter:

- 1. Connect the smaller end of the USB cable to the unit and the larger end to the Travel Adapter.
- 2. Plug the adapter into an available wall outlet to charge the battery.



· Car Adapter:

- 1. Connect the smaller end of the USB cable to the unit and the larger end to the Car Adapter
- 2. Plug the adapter into the cigarette lighter jack in the car to charge the



SC3f/LP-7979

© 2007 LOCOSYS Technology Inc.

Getting Start

© 2007 LOCOSYS Technology Inc

4

Introduction

User Manual

Car Adapte

USB/Charge Cable

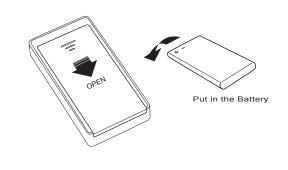
Package contents

Changing the battery

(EU or US or UK)

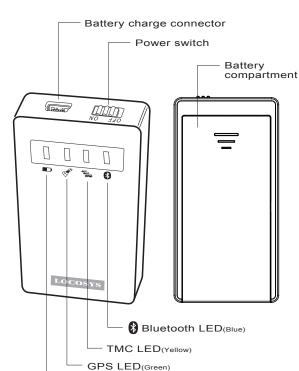
To remove or change the battery, follow steps below:

- 1. Press the tab on the cover of battery compartment and slide the cover as illustrated.
- 2. Take out the cover and remove the battery
- 3. Insert the new battery into the battery compartment in the direction as shown
- 4. Slide the cover into the correct position and push it forward to close



© 2007 LOCOSYS Technology Inc.

Introduction



© 2007 LOCOSYS Technology Inc.

Power LED(Red)

5

Using The LOCOSYS Pyramid

LED indication



Pulse -----Battery needs to be charged -----Battery is currently charging -----Battery is OK Off



GPS LED(Green)

Pulse -----There is a fix -----No fix, looking for fix



TMC LED(Yellow)

Pulse -----There is TMC reception -----There is no TMC reception. looking for broadcast



Bluetooth LED(Blue)

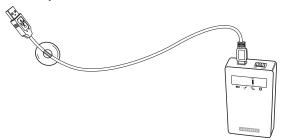
Pulse -----There is a Bluetooth connection Pulse fast --- There is no Bluetooth connection, looking for connection

© 2007 LOCOSYS Technology Inc. 9

Using LOCOSYS Pyramid

External TMC antenna

To enhance the TMC reception, please connect the USB cable to Pyramid and extend the USB cable as shown.



Connecting to Bluetooth host device

Please follow these steps to connect Pyramid to a Bluetooth host device, such as PDA, Smart phone and PC.

- **2.** Switch on your Bluetooth host device. Then check its manual to establish a Bluetooth connection to the other Bluetooth device (SPP slave). Your host device will find Pyramid as "Bluetooth GPS" in its Bluetooth search
- 3. During the connection, a pairing of codes may be asked. Enter "0000". Now it creates a new COM port that will be used by your navigation application. Note that any baud rate is acceptable.

© 2007 LOCOSYS Technology Inc. 10

Appendix

Specifications				
GPS performance				
	Chip	SiRF Star III Low Power, G		
	Frequency	L1 1575.42MHz, C/A code		
	Channels	20		

Update rate	1 Hz	
Acquisition time	Hot start (Open Sky)	< 2 s
	Cold start (Open Sky)	38 s, average
Position accuracy	Autonomous	< 10m (2D RMS)
	SBAS	< 5m (2D RMS)
Dynamics	Speed (max.)	1,000 knots
	Altitude (max.)	60,000 ft
Differential GPS	SBAS	
Datum	Default WGS-84	

Built-in patch antenna

Bluetooth™		
Chip	RFMD, SiW3500	
Frequency	2.400 to 2.480 GHz	
RF Channels	80 channels	
Bluetooth Certified	Version 1.2 certified (Support class 2 and class 3, up to 10 meters range)	

TMC		
Chip	Silicon Laboratories, Si4701	
Frequency	87.5MHz – 108MHz (US/Europe)	
Antenna	Built-in acceptable antenna and the USB charge cable can be used as a FM external antenna for better signal reception.	
© 2007 L 0000V0 Tbl		

Built-in chip type antenna

© 2007 LOCOSYS Technology Inc. 11

Specifications

Connection

EMC standard

Protocol

Appendix

Power		
Battery type	Removable lithium-ion rechargeable battery (1000mAh)	
	May use Nokia BL-5C/BL-6C battery, too	
Operation time	Continuous	11 hours
	Standby	> 1 month
Charge time	4 ~ 5 hours	
Charge connector	USB mini-B	
Interfaces		

	open TMC 2.0
Physical	
Size	86H x 44W x 13.1D mm
Weight	60 g (with battery)
Environmental	
Operating temp	-10 ~ +60 °C
Storage temp	-20 ∼ +70 °C

CE, FCC

Bluetooth Serial Port Profile

Combine NMEA-0183 version 3.0 with

© 2007 LOCOSYS Technology Inc.

12

Appendix

Warranty

LOCOSYS Technology Inc. warrants this product to he free from defects in material and workmanship for a period of one(1) year from the original date of

This warranty does not cover the damage due to the shipping of the product, external causes, including accident, abuse, misuse, problems with electrical power, usage not in accordance with product instruction, product that has been repaired or altered by other than LOCOSYS Technology Inc. authorized service person/dealer, problem(s) caused by the use of parts and components not supplied by LOCOSYS Technology Inc. upon request. This warranty does not cover any accessories or parts added to product after the product shipped from LOCOSYS Technology Inc.

Product is treated as out of warranty when it is out of the warranted one(1) year period, or it has been repaired or altered by other than LOCOSYS Technology Inc. authorized service person/dealer, or which has been subjected to misuse, abuse, accident, or improper installation.

In no event shall LOCOSYS Technology Inc. be liable for any incidental, special, indirect or consequential damages, whether resulting from the abuse, misuse, or inability of use this product or from defects in the product.

© 2007 LOCOSYS Technology Inc.

Appendix

Repair

LOCOSYS Technology Inc. will repair the defective products covered under this limited warranty, if they are returned to LOCOSYS Technology Inc. If the product does prove defective, it will be repaired at no charge during the warranty period and at normal repair charge rates when out of the warranty.

To obtain warranty service, contact your local LOCOSYS Technology Inc. dealer. An original or copy of the sales receipt from the original dealer is required. LOCOSYS Technology Inc. will not repair or replace missing components from any package purchased not from authorized dealer.

The repaired product will be warranted subjected to the original warranty only. LOCOOSYS Technology Inc. reserves the right to charge a "No Fault Found" fee for product returned as defective where no fault could be found by LOCOSY Technology Inc. LOCOSYS Technology Inc. owns all parts removed from repaired product.

Product returned by LOCOSYS Technology Inc. to other location beside the customers' site will bear extra charge and should be credited to the customers. It is customers' responsibility to ensure that the package containing the defective product is durable enough to be resistant against further damage and deterioration during transportation. In case of damages occurring during the transportation, the repair is treated as "Out of Warranty"

© 2007 LOCOSYS Technology Inc.

CE

It is herewith confirmed that this device complies with the requirements set out in the Council Directive on the Approximation of the Laws of

Antenna

Antenna



the Member States relating to Electromagnetic Com-patibility (89/336/EEC), Low-voltage Directive (73/23/EEC) and the Amend-ment Directive (93/68/EEC), the procedures given in European Council Directive 99/5/EC and 89/3360EEC.

FCC

Warning

A. for fcc15b devices This equipment has been tested and found to comply with the limits for a class B digital device, pursuant to part 15 of the FCC rules. These limits are designed to provide to provide reasonable

protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the installation. , May cause harmful interference to radio communication. However, there is no guarantee that interference Will not occur in a particular installation. if this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the

following measures: -Reorient or relocate the receiving antenna -Increase the separation between the equipment and receiver -Connect the equipment into an outlet on a circuit different from that to which the receiver is connected

-Consult the dealer or an experienced radio / TV technician for

approved by the party responsible for compliance could void your authority to operate the equipment. This device complies with part 15 of the FCC rules. Operation is

You are cautioned that changes or modifications not expressly

subject to the following two conditions (1) • This device may not cause harmful interference and

(2) • This device must accept any interference received, including interference that may cause undesired operation

> © 2007 LOCOSYS Technology Inc. 16

© 2007 LOCOSYS Technology Inc. 15