

# GT-11 / BGT-11

The multifunctional GPS handheld navigator and data logger

# Welcome

Congratulations for choosing **GT-11/BGT-11!** We hope you will agree it is an excellent navigator. We want you to have a very pleasant outdoor experience with **GT-11/BGT-11** 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 operating GT-11/BGT-11. To fully understand all the features and functions, please take some time to read through the manual before using GT-11/BGT-11. Some useful tips are also included in this manual. We hope GT-11/BGT-11 will enhance your enjoyment of outdoor activities whether with your friends, family, classmates and colleagues.

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 your GT-11/BGT-11!

Sincerely yours, LOCOSYS Technology Inc.

# Package Check List

# Standard package:

- 1 GT-11/BGT-11
- 1 USB data/charge cable
- 1 Installation CD, containing: Owner's Manual, Drivers, and Utilities
- \* Contact your dealer if any parts are missing.

# **Options:**

- USB Car Charger
- USB Travel AC/DC adapte
- Bike Mounting Kits
- Wrist/Arm Strap
- USB AA battery adapter
- USB Power Bank
- \* Ask your dealer for detail

## From the Editor

One of my Japanese friends once told me: "I can manage our language, which has hundreds of different characters; but I just can't manage a language that has only 26 characters or letters."

"Yes, indeed," I answered, "There are thousands of different characters in my native language, I can manage over 90% of them; Unfortunately, I'm also unable to manage a language which has only 26 characters."

It's hard to learn English. Let me show you some examples: you fill in a form by filling it out and an alarm clock goes off by going on. You get in and out of a car, yet you get on and off a bus. When the stars are out, they are visible, but when the lights are out, they are invisible. And why, when I wind up my watch, I start it, but when I wind up this essay, I end it? English is a strange language ... it doesn't seem know if it is coming or going!

I sincerely hope **GT-11/BGT-11** may guide you where to go. Should you have any questions or comments on this manual, please feel free to let us have your feedback. It would be our great pleasure to improve this manual for you.

Sincerely your, The Editor LOCOSYS Technology Inc.

# **Warning and Cautions**

Taking your eyes off the road can cause accidents and serious damage or personal injury. Do not change any settings on GT-11/BGT-11 while driving or riding. Come to a complete stop or have your passenger make any changes. Do not secure GT-11/BGT-11 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. Never dispose of the GT-11/BGT-11 in a fire. This can cause the built-in lithium-ion polymer rechargeable 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.

Accuracy can also be affected by poor satellite geometry and by various other causes. Do not rely solely on this device for precision measurement or navigation.

The GT-11/BGT-11 does not contain any user serviceable parts. Please contact our authorized dealers for repair. Unauthorized repair will void the warranty.



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# Treasure your GT-11/BGT-11 the same way treasure your bike



# Introduction to GT-11/BGT-11



The GT-11/BGT-11 is a wonderfully compact, business card sized navigator, carefully designed to embody ergonomic principles. It will comfortably fit in the palm of your hand, mount on the handlebar of bike or motorcycle, and can even be worn on your wrist or arm. The stylish unit can stand on your desk as a funky gadget, or, more usefully, can be placed on the dashboard in your car.

The GT-11/BGT-11 can run for up to 32 hours in power saving mode with the built-in lithium ion polymer rechargeable battery. It can be recharged while connected to car cigarette lighter, mains power outlet, or your PC/Notebook. When traveling where no car or mains power is available, you may purchase an AA battery adapter, or a rechargeable power bank (Solar charger) to extend the usage.

A state-of-the-art Thumb Stick allows for simple, one-handed operation. This rugged navigator is waterproof to IPX7 standards or, immersible in the water for 30 minutes at a depth of 1 meter, and, it floats!

**GT-11/BGT-11** is not only developed to handle outdoor activities, but also to handle various professional uses, such as speed, hazard area, zone alerts, altitude, or other alerts defined by the user. To store trip data for longer journeys, there is a SD/MMC slot for extra data storage capacity.



# **Controls**

## **POWER/ESC BUTTON**

- Press this button and hold to Power ON
- Press this button and hold to Power OFF
- When power is turned on, this button functions the same as ESC.
- Press in to escape the current page
- Under any Main Page, it is also used a toggle key to turn On/Off the Backlight

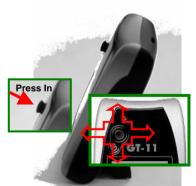
## THUMB STICK (TS) OPERATION

- It's a 5-way directional controller.
- Move the TS Up, Down, Left, or Right to highlight the option.
- Press In the TS to confirm, or execute the option.
- Press **Power/ESC** button to escape the current page.

## **FAST MARK**

- At any stage, press In and Hold the TS, and the current location will be automatically saved as a waypoint. You may edit it later.
- This feature is available only when the position has been fixed





# **Before Getting Started**

GT-11/BGT-11 is designed for easy operation. If this is the first time you have owned a GPS navigator, just follow the instructions in the following pages and you will be quickly become familiar with this unit.

## **Before Use**

- 1) **Charge the battery**. It takes around 4 hours for the built-in battery to charge fully.
- 2) Initialize the receiver. Leave the GT-11/BGT-11S outside with a clear view of sky until it has fixed its position. After that, it needs only around 45 seconds to find its location. When the unit has not been used for long time, or it's taken to a far distance from where you initialized it, you will need to re-initialize the unit before use.
- Configure the system. Set up the parameters under the Settings page. The system will store your configuration on its built-in flash memory.
- 4) Consult with your dealer or contact us, if you have any question about setting up the GT-11/BGT-11. We will be pleased to assist get familiar with the unit.

 Mark and edit waypoints, and create a route (refer to Mark, Waypoint, and Route pages for details)

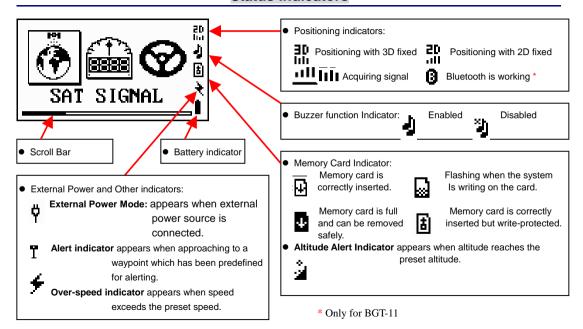
GT-11/BGT-11 can now tell you:

- Where you are
- Where you have been
- Where you are going
- How did you made up your trip, and
- Many other interesting possibilities......

The greatest discovery of my generation is that a human being can alter his life by altering his attitudes of mind.

William James (1842-1910)

## Status Indicators



# **Page System Tree**

# Satellite Signal

- Sat signal
- Sky View
- Fixed Info

# **Trip Meter**

- Time Now
  - Stop Watch
- Trip MAX Speed Trip AVG Speed
- Trip Time
- Trip Odometer
  - Odometer
- Total Time

## **Navigation**

- Speed AVG Speed
- MAX Speed
- Heading
- Bearing
- ODO Meter
- Time Pass
- Altitude Departure
- Arrival
- Status
- To NEXT
- To DST
- Time now
- Sunrise
- Sunset

# Track

- Egg Laying Mark
- Interval
  - STOP
  - Compact 1 Second
  - 5 Seconds
  - 10 Seconds
  - 30 Seconds 1 Minute
- Clear View

  - Mark Go To
  - First Point
  - Last Point
  - Nearest Point
  - Detail
  - Egg Laving
  - Area Calculation
- Settings
  - Speed WPT Name
  - WPT Symbol

## **Position** Mark

Edit and Save

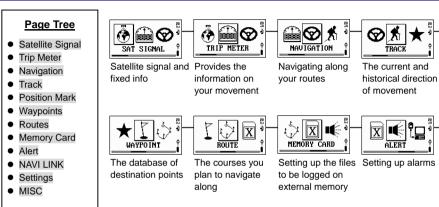
# Waypoint

- List
  - Go To Delete
  - Edit
  - Copy
- Type List
  - Go To
  - Delete
  - Edit
- Copy Delete All
  - Yes or No.

# Page System Tree (continued)

#### **NAVI Link** Route **Memory Card** Alert Settings MISC Buzzer NAVITINK Calendar List Log Switch Language On/Off Down/Upload On/Off Time Format Go To Over Speed Alert the data saved NMFA Items Date Format Edit On/Off on the built-in Time Zone GGA Delete Speed Settings flash memory. GLI Unit of Measure Copy GSA 30-150KMH includina Arrived Reverse GSV waypoints, Altitude Alert Rename Map Datum RMC routes, and Position Format Area Calculation On/Off VTG tracked log New Route User Grid ZDA Altitude Setting Power Mode Edit Above/Below Delete All File Size DGPS Source Target Alert Interface Yes or No. Card Size On/Off **Backlight Time** 128KB Waypoint type Contrast 512KB Distance External Power 1024KB 10m-1KM Mode 2048KB User Name When Card is Usage inserted Serial Number Format Card Version Remove Card

## Main Menu



MISC

A calendar up to

the year 2060

SETTINGS

Configuring the

system

Setting up the files Setting up alarms Connecting to host PC to

 download the waypoints, routes, tracked points that are saved on built-in flash memory, or

POSITION MARK

or for other uses

NAUTI INK

Marking a location

for future reference

 upload the waypoints and routes from host PC to the built-in flash memory on the unit

# Satellite Signal

There are three pages providing the detailed information related to GPS signals.

## Page Tree

- Sat Signal
- Sky View
- Fixed Info



## **GPS Signal**

- Satellite signal strength bars.
   The longer bar, the stronger the GPS signal
- The ID of the GPS being seen



## **SKY View**

- Satellite position. The two circles indicate satellite elevation as seen from your current position
- Satellite number being seen
- Satellite number being tracked
- DOP Position Dilution of Precision. The lower the better

## **GPS Fixed Info**

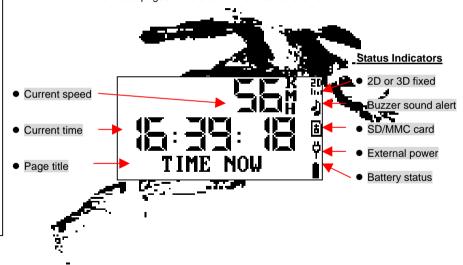
- Day, Month, Year.
- Time, Heading
- Velocity, Altitude.
- Current Location Coordinates

# Trip Meter

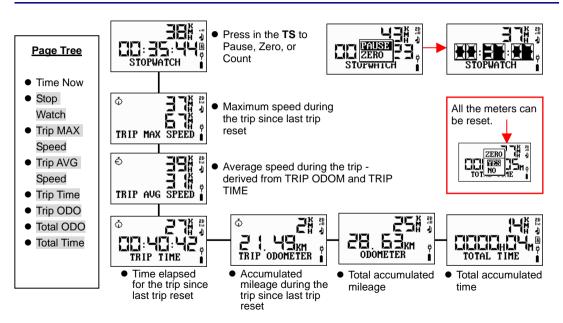
## Page Tree

- Time Now
- Stop Watch
- Trip MAXSpeed
- Trip AVGSpeed
- Trip Time
- Trip ODO
- Total ODO
- Total Time

The Trip Meter pages provide Current Speed, Trip Timer, Average Speed, ODO Meter, and more. All the meter pages have a similar format as follows:



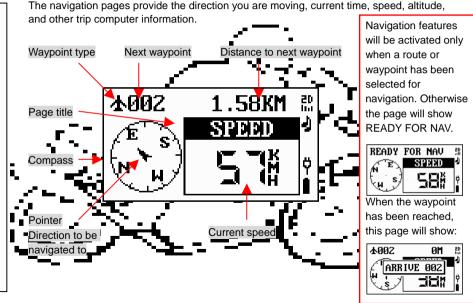
# Trip Meter (continued)



# **Navigation**



- AVG Speed
- Heading
- Bearing
- ODO Meter
- Time Pass
- Altitude
- Departure
- Arrival
- Status
- To NEXT
- To DST
- Time now
- Sunrise
- Sunset



# Navigation (continued)

## Page Tree

- Speed
- AVG Speed
- MAX Speed
- Heading
- Bearing
- ODO Meter
- Time Pass
- A10'0 .................
- Altitude
- Departure
- Arrival
- Status
- To NEXT
- To DST
- Time now
- Sunrise
- Sunset



The current speed



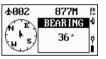
 The average speed of the trip



The maximum speed of the trip



 The direction you are traveling



 The direction of your destination



 Accumulated mileage



 Total time elapsed of the trip



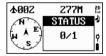
Current altitude



The time of departure



The time arrived at the destination



Waypoint(s) reached.

 Total waypoint(s) of this trip



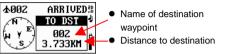
Name of next waypoint

Distance to next waypoint

# Navigation (continued)

## Page Tree

- Speed
- AVG Speed
- MAX Speed
- Heading
- Bearing
- ODO Meter
- Time Pass
- Tille Fass
- Altitude
- Departure
- Arrival
- Status
- To NEXT
- To DST
- Sunrise
- 0
- Sunset
- Compass

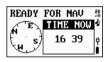




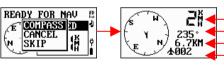
 The time sun rises at the current location



• The time the sun sets at the current location



 At any pages under Navigation, you may press in the TS to select the larger compass display.



Current speedBearing

Distance to destination

Type and Name of destination waypoint



For any reason, you may cancel, or skip current navigation of the trip.

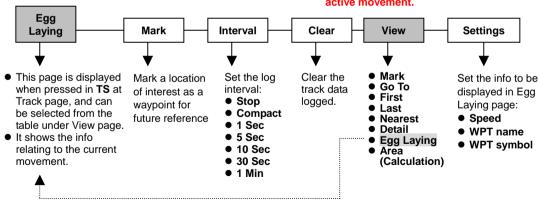
- When CANCEL is selected, current navigation function will be disabled
- When SKIP is selected, the current navigation function will remain effective, but will skip the waypoint that is navigating to, and jump to the next waypoint.

## **Track**



- The active movement of the trip (**Egg Laying** page)
- The historical movement of the trip (View page)

- The track data is logged on the built-in flash memory of GT-11/BGT-11.
- Up to 8192 points can be logged
- To log the track data, you first need to set the Interval.
- In View mode, the system will stop to log active movement.



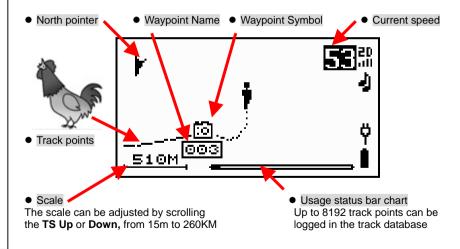
# Track (Egg Laving)

## Page Tree

- Egg Laying
- Mark
- Interval
- - STOP Compact
  - 1 Second
  - 5 Seconds
  - 10 Seconds
  - 30 Seconds
  - 1 Minute
- Clear
- Detail
- View
- - Mark Go to
  - First Point
  - Last Point
  - Nearest Point

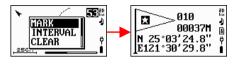
  - Detail
  - Navigation
  - Area Calculation
  - Settinas
  - Speed
  - WPT Name
  - WPT Symbol

Under Track page, when press in the TS, under Track page, the screen will show the current movement with an egg laying drawing. The Current Speed, Waypoint Name, and Waypoint Symbol can be selected to display or not to display under Setting page.



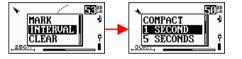
### Page Tree

- Egg Laying
- Mark
- Interval
  - STOP
  - Compact
  - 1 Second
  - 5 Seconds
  - 10 Seconds30 Seconds
  - 1 Minute
- Clear
- View
  - Mark
  - Go To
  - First
  - Last
  - Nearest
  - Detail
  - Egg Laying
     Area Calculation
  - Area Calculation
- Settings
  - Speed
  - WPT Name
  - WPT Symbol



 While the **TS** is pressed in, the current location will be marked as a waypoint.

 Refer to Position Mark page for further details.



- To set the log frequency
- It can be set to log from 1, 5, 10, 30 second, to 1 minute intervals.
- If Compact is selected, the displayed points will be automatically adjusted for better view.



To clear the logged tracking data

 When Clear is selected, it will jump to the Egg Laying page automatically, and the Usage Status Bar Chart will be cleared.

## Page Tree

- Egg Laving
- Mark
- Interval
- STOP

  - Compact 1 Second
  - 5 Seconds
  - 10 Seconds
- 30 Seconds
- 1 Minute.
- Clear
- View
  - Mark
  - Go To
  - First
  - Last

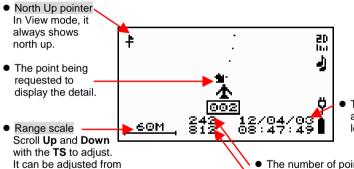
  - Nearest Detail
  - Egg Laving
  - Area Calculation

15m to 260 KM.

- Settings
  - Speed
  - WPT Name
  - WPT Symbol

View: When View page is selected, it will show the detail of the tracked information:

Note: While View Page is selected, the system will stop the track logging.

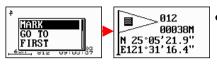


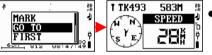
The date/month/year and time the point was logged.

• The number of point being displayed Total number of points being logged

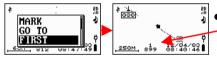
## Page Tree

- Egg Laying
- Mark
- Interval
  - STOP
  - Compact
  - 1 Second
  - 5 Seconds10 Seconds
- 30 Seconds
- 1 Minute
- Clear
- View
  - Mark
  - Go To
  - First
  - Last
  - Nearest
    - Detail
  - Egg Laying
  - Area Calculation
- Settings
  - Speed
  - WPT Name
  - WPT Symbol

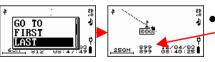




- Pressing in the TS will mark the track point you have selected. The marked point will be automatically assigned a numerical waypoint name. You may edit it with new name and new type.
- While GO TO is selected, the page will jump to Navigation automatically.



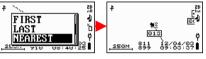
While pressing in the TS, the page will
 show the first point since this trip being logged.

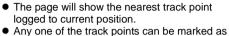


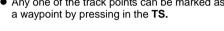
While pressing in the TS, the page will
 show the last point since this trip being logged.

## Page Tree

- Egg Laving
- Mark
- Interval
  - Compact STOP
  - Second
  - Seconds
  - 10 Seconds
  - 30 Seconds 1 Minute
  - Clear
- View
- Mark
  - Go To
- First
- Last
- Nearest
- Detail Egg Laving
- Area Calculation
- Settings
  - Speed
  - WPT Name
    - WPT Symbol

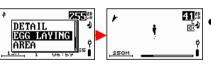








Pressing in the TS, the page will show number of the track point, altitude, heading. speed, and the coordinates of the point being selected



Pressing in the TS, the page will jump to the Egg Laying page and resume the track logging.



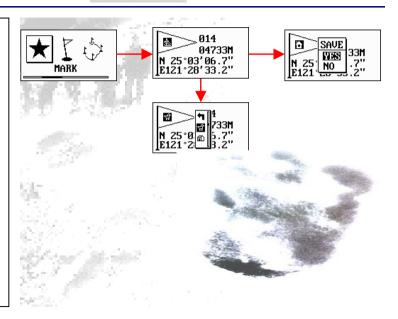
- The system may calculate the area based on the track points traveled, including the distance from the first point to the last point.
- Refer to the page of **How to Calculate Area** for further details

# **Position Mark**

## Description

You may mark the current location as a waypoint and then edit it for future reference. The same page may be accessible from **Track** and **Route** pages.

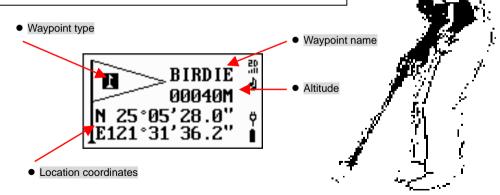
- Pressing in the TS, the page will show the detail of current location, and automatically generate a waypoint name in numerical order.
- All the items can be edited
- Scroll TS to highlight the item and press in to edit it
- Press ESC to show the saving selection
- Scroll TS to highlight next item or press ESC to save



# Waypoint

## **Description**

Waypoint is one of the most import elements of navigation. You will need to either mark a position of interest, or edit a known location as a waypoint to activate the **Navigation** function. The location information in the Waypoint is described below. All of the waypoints can be edited.



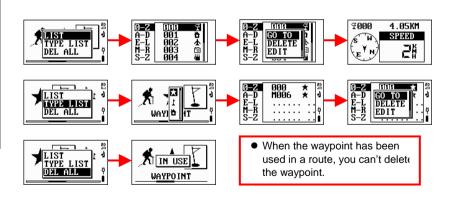
# Waypoint (continued)

## Page Tree

- List
  - Go To
  - Delete
    Edit
  - Copy
- Type List
- Go ToDelete
- Edit
- Copy
- Delete All
  - In useYes or No.

# Description

All the waypoints in database can be displayed by name in alphabetical order (LIST) or by types (TYPE LIST). Then you may select GO TO, Delete, Edit or Copy. Or, you can delete all the waypoints in the database.



# Wavpoint (continued)

ааа

N 25°04'20.6" E121°30'32.8"

00026M

Ŗ

## Page Tree

- List
  - Go To Delete
  - Edit
  - Copy
- Type List
- Go To Delete
- Edit
- Copy
- Delete All
  - In use
  - Yes or No

## GO TO

Select the waypoint to navigate

- Highlight the waypoint you want to navigate to.
- Press in the TS, the page will jump to Navigation page automatically.

#### **F001** 4.16KM 0-Z991 8**-2** 001 A-D E-J K-R S-Z 002 A-D GO TO SPEED JELETE 003 Ŧ 004

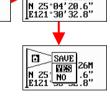
N 25°0 + E121°3

₹ ||326M

## **EDIT**

You can change the waypoint type. name, coordinates, and distance:

- When EDIT is selectd, the screen will display the details of the waypoint to
- be edited
- Scroll the TS Up or Down to select the item(s) you want to edit and press in the TS to confirm the selection.
- When EDIT has been completed, press the **ESC** buttom to save the edition.



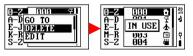
ааа

00026M

## DELETE

When a waypoint is no longer required. vou can delete it from database:

- Highlight the waypoint you want to delete
- Press in the TS. and select Delete to delete the waypoint.



 When the waypoint is being used in a route, you can't delete it

# Waypoint (continued)

## Page Tree

- List All
  - Go To
  - Delete
  - Edit
  - Сору
- By Type
  - Go To
  - Delete
  - Edit
- Copy
- Delete All
  - In use
  - Yes or No

## COPY

You can copy the waypoint in the database for future use.





Waypoint 001 has been copied

# Always carry a first aid kit

There are many bad things that can happen in the outdoors, from minor cuts and bruises, bites or stings, to more serious things like broken bones and head injuries. It always pays to be prepared, and the added weight of a first aid kit is fairly insignificant. Contact your local stores. There are several available specifically designed for day-trippers and backpackers, and........



- Carry GT-11/BGT-11 with you -

# Route

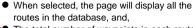
## Page Tree

- Go To
- Fdit
- Delete
- Copy
- Reverse
- Rename
- Area Calculation
- New Route
  - Edit
- Delete All









The total number of waypoints in each route.



- A total of 20 routes can be created
- Up to 13 alphabetical characters can be used for the route name
- Max 125 waypoints can be used per route



 When selected, all the routes in the database will be deleted.



When system is in navigating mode, the

# Route (continued)



- Go To
  - **Fdit**
- Delete
- Rename
- Copy
- Reverse
- Area
- New Route Edit
- Delete All



ΑЙ1

A02

ΑЙ1

APIZ GO TO

NAVIEDIT

NAVILEDIT

Scroll with the TS to highlight the route and press in. The page will show related features for this route



• Press in the TS, the page will jump to Navigation and navigate to the first waypoint in that route.



 When a route is no longer required, you can delete it from the database.

81Y 4

1.24KM

1.06KM 9

2.97KM

When GT-11/RGT-11 is navigating, you can't delete the route.





DEMONE

 When pressed in the TS. it will show all the waypoints in this route.

rANAU I GPSΩ1

1000

**₩**001

**4002** 

**™006** 





 Press the TS in again to show all the waypoints in the waypoint

database.

- You can edit the route with the waypoints in the database.
- Scroll with the TS to select.
- Press in to confirm the selection.

You can edit the route with the wavpoints in the database.

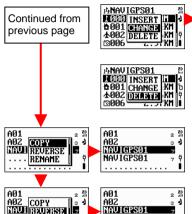
# Route(continued)

0=Z A-D E-L M-R S-Z 006 007 008

009 010 00000

# Page Tree List All

- Go To
- Delete
- 500
- Edit
- Copy
- Reverse (trackback)
  - Rename
- AreaCalculation
- New Route
  - Edit
- Delete All



NAVI RENAME

 Select the waypoint you wish to insert and press in to confirm the selection.

• When the **TS** is pressed in, the route name and the waypoints in the route will be copied.

• Press in the **TS** to delete the waypoint from the route

- Reverse is functioned similar to backtracking.
- When the TS is pressed in, The route name will be copied and all the waypoints in this route will be in reversed order.



7

NAVIGPS01

NAVIGPS01

 Press the TS in again to edit the name of route

# **Memory Card**

## Page Tree

- Log Switch
  - On or Off
- NMFA Items
- GGA
  - GLI
  - GSA
  - GSV
  - RMC
  - VTG
  - 7DA
- File Size
- Card Size
  - 128KB
  - 512KB
  - 1024KB
  - 2048KB

When the card is correctly inserted

- Format Card
- Remove Card

- LOG SWITCH LOG IT OFF FILE SON [ON]
  - Scroll with the **TS Up** or **Down** to highlight the option
  - Press in the **TS** to display the option
  - Scroll Up or Down to select the option, and press in to confirm
  - Move the TS to Right or Left to select the setting Set the log switch **ON** to activate the memory card logging
    - Insert SD/MMC card here
  - The system accepts SD or MMC cards up to 2GB.
  - When SD or MMC card inserted, the screen will display **CARD FOUND**
  - The indicator will be displayed If the card is correctly inserted.



# **Memory Card** (continued)

## Page Tree

- Log Switch
  - On or Off
- NMEA Items
  - GGA
  - GLLGSA
  - GSV
  - RMC
  - KIVI
  - VTG ● ZDA
- File Size
  - Card Size
  - 128KB
  - 512KB
  - 1024KB
  - 2048KB

When the card is correctly inserted

- Format Card
- Remove Card

- LOG SWITCH
  LOG ITPYS
  FILE SIZE

  COST OLL COST OSM 1
- GGA is being set to log at 1 second rate.
- GLL is being set not to log.
- GSA is being set to 1 second.



## NMEA-0183 sentences:

Marked items are being activated.

**GGA:** Global Positioning System fixed data **GLL:** Geographic position - latitude/longitude

GSA: GNSS DOP and active satellites

GSV: GNSS satellites in view

RMC: Recommended minimum specific GNSS data

VTG: Course over ground and ground speed

ZDA: Date and time

Please refer to NMEA 0183 format for further details.

 NMEA-0183 format is defined by the National Marine Electronics Association (NMEA), Standard for Interfacing Marine Electronic Devices, Version 2.20, January 1, 1997.

# **Memory Card** (continued)

# Page Tree

- Log Switch
  - On or Off
- NMEA Items
  - GGA
  - GLL
  - GSA
  - GSV
  - RMC
  - VTG
  - 7DA
- File Size
  - Card Size
  - 128KB
  - 512KB
  - 1024KB
  - 2048KE
- When the card is correctly inserted
- Format Card
- Remove Card



- Select proper size to log the track data.
- File sizes can be set:
   128, 512, 1024, 2048 KB, or card size
- When CARD SIZE is selected, the system will store the data on the card continuously until the card memory is full.

### Note:

To prevent data lost on the memory card, **GT-11/BGT-11** will store the data up to the file size selected, and generates a file automatically. And then, start again to store the data until file size selected has been reached. A new file will be generated accordkingly.

Therefore, it is safer to select small file size. However, it also dependents on post-processing requirement to select file sizes.

If the card is properly inserted, the following pages will be shown:

- Format Card: Format the card to FAT16 file system.
  - Note: All data on memory card will be erased when the Format Card has been selected.
- Remove Card: Before taking out the memory card, execute this function to save the file, or the file could be damaged.

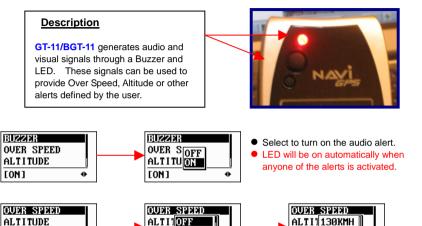
#### **Alert**

#### Page Tree

- Buzzer On/Off
- Over Speed On/Off Speed Setting
- Altitude On/Off Above/Below Altitude Setting
- Target On/Off Wavpoint type Setting

TARGET

[OFF]



 Select the Speed or disable (OFF) the Over Speed alert.

TARGI 30KMH

TOFF 1 40KMH

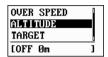
 The over speed alert can be set from 30KM/H to 150 KM/H.

TARGI 140KMH [OFF]

### Alert (continued)

#### Page Tree

- Buzzer On/Off
- Over Speed On/Off Speed Setting
- Altitude On/Off Above/Below Altitude Setting
- Target On/Off Waypoint type Setting





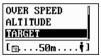


Below or Above alerts





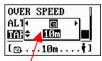
- Scroll up or down the TS to select approaching altitude for the alert
- The range is from 0M to 15240M.
- GT-11/BGT-11 will automatically alert you when approaching the selected altitude.

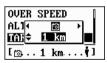


 This product can automatically alert you when approaching the target.



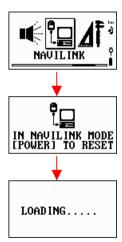
 Move the TS Left or Right to select the target alert (using wavpoint types).





- Scroll up or down the TS to select the approaching distance for the alert.
- The range is from 10M to 1KM.

#### **NAVI LINK**



NAVI LINK feature is to provide the connection between the unit and the host PC/Notebook to download or upload the data.

- Download data includes: Way points, Routes, and track points stored on the built-in flash memory.
- Upload data includes: Way points and Routes
- Before downloading or uploading, make sure the driver USB-Comm Port has been successfully installed on your host PC/Notebook.
   This driver is coming with the package in the Installation CD. Or you can download the driver from our web.
- When data transfer has been completed, press the Power/ESC button to reboot the unit.
- Please refer to How to Download and Upload the Data in this manual for further details

### Settinas

#### Page Tree

- Language
- Time Format Date Format
- Time Zone
- Unit of Measure
- Arrived
- Map Datum
- Position Format
- User Grid
- Power Mode
- DGPS Source
- Interface
- Backlight Time
- Contrast
- External Power Mode
- Bluetooth\* User Name
- Usage
- Serial Number
- Version



 The selected option is shown when the page is highlighted

Currently there is only English language available. Other languages, such as French, Spanish, Russian, Chinese classic, and Chinese simplified will be available downloaded from our web site



Select 24 Hour, or 12 Hour time formats

- Three formats may be selected
- Date-Month-Year
- Month-Date-Year or
- Year-Month-Date

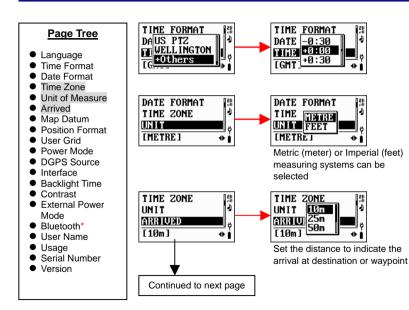


LANGUAGE

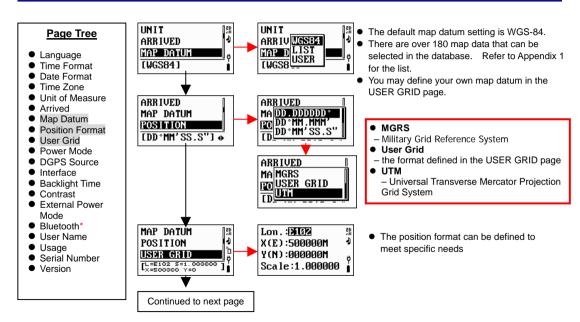
TIME DD/MM/YY

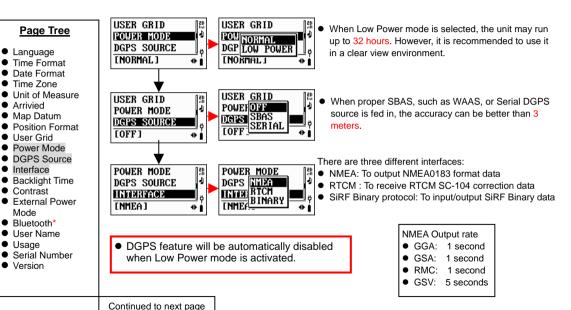
- Select the time zone you are in. 25 cities or states are included in the table
- If you can't find the time zone you need in the table. select Others and set the time difference

Continued to next page



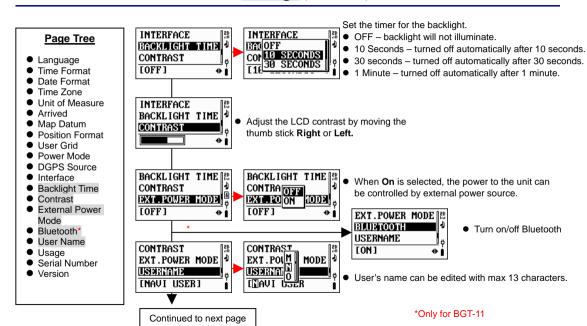
Time Zone				
in Da	tabase			
GMT	New Delhi			
Alaska Day	Rome			
Alaska STD	Sydney			
ALT STD	Taipei			
AST DAY	Tokyo			
Azores	US CTZ			
Baku	US ESZ			
Bangkok	US MT2			
Brazilia	US PT2			
Dhakar	Wellington			
Eniwetok	*Others			
Hawaii				
Hong Kong				
Israel				
Moscow				





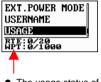
Mode

Usage





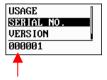
- Language
- Time Format
- Date Format
- Time Zone
- Unit of Measure
- Arrived
- Map Datum
- Position Format
- User Grid
- Power Mode
- DGPS Source
- Interface
- Backlight Time
- Contrast
- External Power Mode
- Bluetooth\*
- User Name
- Usage
- Serial Number
- Version



 The usage status of Route and Waypoint.

The version number

of firmware.



The Series Number of this product.



To update the firmware:

- Connect GT-11/BGT-11 to a PC/Notebook with the USB cable
- · Execute the utilities we provided.
- Follow the instructions to update the firmware.

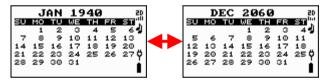
#### **Miscellanies**

#### **Description**

This page provides a 120-year calendar for the date information from the year of 1940 to 2060

#### **Operation**

- Move the Thumb Stick **up** or **down** to select the **year**
- Move the Thumb Stick right or left to select the month
- Press in the Thumb Stick to show the date of today



#### MAY 2005 SU MO TU WE TH FR ST 1 2 3 4 5 6 7 8 9 TODAY 13 14 15 16 TODAY 20 21 22 23 27 28 29 30 31

#### **Managing You Time**

Have a lot of thing to do, but end the day with nothing done?

- Write a To-Do List for tomorrow
- Max 5 items
- Prioritize them
- Work from the number one

#### How To: Track Back to Where You Came On

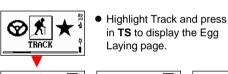
FIRST

LAST

NEAREST

If you want to return to the starting point or waypoint where you came from:

- View the logged data under the Track page
- Select the first point where you started the trip
- Press in the TS to display the table
- Select Go To and press in the TS
- The page will jump to Navigation and guide you the way to go back home.





- Press in the TS to show the table.
- Highlight VIEW.
- Press in the TS again to display the tracking info.

- Press in the **TS** to display the table.
- Highlight First to display the 1<sup>st</sup> point.
- Press in the **TS** again to display the sub-table
- Highlight Go To, the system will guide you to the first point of your trip.



GO TO

FIRST

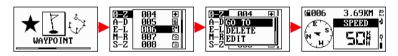
LAST

#### How To: Track Back to Where You Came On (continued)

In addition to using saved waypoints or routes to navigate back where you came from, you may either

- search the waypoint under Waypoint page, then select GO TO, or
- execute the Reverse function to reverse the order of the waypoints in that route, then select GO TO to navigate back the same route you came on:

**For Example:** If you started from a Gas Station (Waypoint 006), and came here following the Route NAVIGPS01, now you want go back to Gas Station:

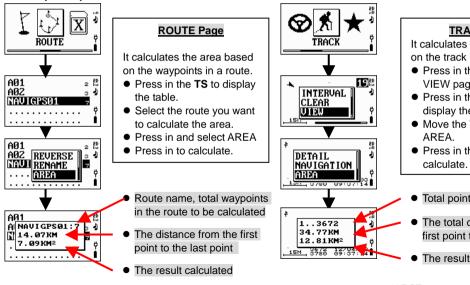


- When Reverse function is activated, the waypoints will be listed in reverse order.
- Highlight the reversed Route, and press in the TS to display the table
- Select GO TO.
- The system will navigate back to the way you came.



### How To: Calculate the Area (Area Calculation)

Area Calculation is a useful feature when you wish to measure an area. There are two pages ROUTE or TRACK in which you may have the access to this feature:



#### TRACK Page

It calculates the area based on the track logged.

- Press in the TS and select VIEW page.
- Press in the TS again to display the table.
- Move the **TS** to highlight
- Press in the TS to
- Total points calculated
- The total distance from the first point to the last point

### **How To: Download and Upload Data**

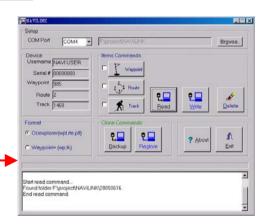
The data stored on internal memory (the flash memory in the unit), including the routes, waypoints, logged tracking data, can be downloaded to a PC or Notebook for post analysis or for other applications. The routes and waypoints edited on PC or Notebook can also be uploaded to the unit:

IN NAUILINK MODE

[POWER] TO RESE!

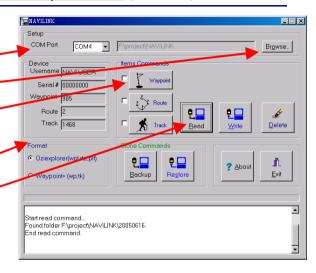
#### Basic Operation of Downloading or Uploading:

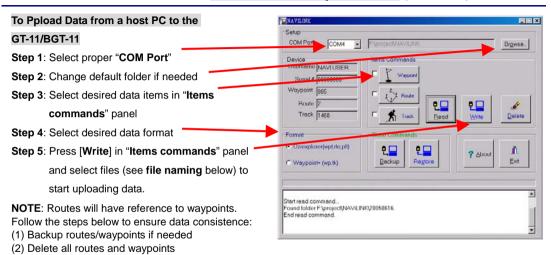
- Make sure the driver of USB-to-Serial Comm Port has been successfully installed on your PC/Notebook.
- Connecting the USB data cable between the unit and your PC/Notebook.
- Power on the unit, and select the NAVI LINK page
- Press in the TS, the unit will the show the page illustrated as
- Execute the utility, NAVILINK.exe on your PC/Notebook.
- You will see the page displayed on the screen illustrated as then select the items you want to download or upload.
- When data transfer has been completed, press the Power/FSC button to reset the unit
- Please refer to the following pages for the detail procedures and formats.



# To Download Data from GT-11/BGT-11 to a host PC

- Step 1: Select proper "COM Port"
- Step 2: Change default folder if needed
- Step 3: Select desired data items in "Items commands" panel
- Step 4: Select desired data format in "Format".
  panel
- Step 5: Press [Read] in "Items commands"
  panel to start downloading data. While
  data downloading, the progress bar will
  display the progress and the related
  message is shown in the message box
  below





(3) Upload new waypoints (\*.wpt) first then upload new routes (\*.rte). All waypoints referred in the new

**NOTE**: The uploaded track will override the original track in the GT-11/BGT-11.

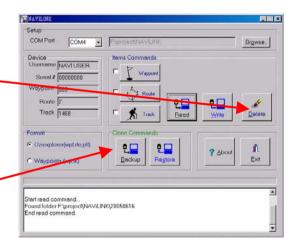
routes should be already uploaded before uploading routes.

#### To Delete Data in GT-11/BGT-11

- Step 1: Select proper "COM Port"
- Step 2: Change default folder if needed
- Step 3: Select the data items in "Items commands" panel to be deleted
- Step 4: Press [Delete] in "Items commands" panel to start deleting data
- **NOTE**: Waypoints cannot be deleted if routes exist since waypoints are referenced by routes.

#### To Backup All Data in the GT-11/BGT-11

- Step 1: Select proper "COM Port"
- Step 2: Change default folder if needed
- Step 3: Press [Backup] in "Clone"
  Commands" panel to start
  downloading data
- Step 4: Save received data



#### To Restore All Data in the GT-11/BGT-11

Step 1: Select proper "COM Port"

Step 2: Change default folder if needed.

Step 3: Press [Restore] in "Clone Commands" panel and select file (usually a backup data file) to start restoring

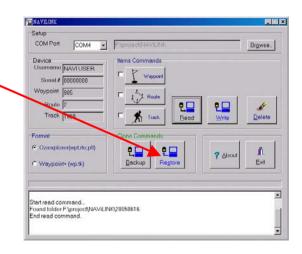
#### File Naming

File names are composed of device serial number and proper file extension. **NAVI LINK** supports two different file formats:

- Oziexplorer: typical file extensions are
  - ".wpt" Waypoint
  - ".rte" Route
  - ".plt" Track

"plt.nmea" - Track in NMEA format

- Waypoint+: typical file extensions are
  - ".wp" Waypoint
  - ".tk" Track



### **How To: Update the Firmware**

From time to time, there will be upgraded new firmware available for download at our web site. You may follow the steps described below to update your **GT-11/BGT-11** 

- .
- Make sure that the driver of USB-to-Serial Comm Port has been installed on your PC/Notebook.
- Connect the USB cable between the unit and PC/Notebook.
- Power on the GT-11/BGT-11
- Execute the utility, NAViFU.exe, on your PC/Notebook. You will see the display on the screen illustrated as Figure 1, then:
  - 1. Select correct COM port that the unit is connected.
  - 2. Click "browse" button to select the file that you want to update. The file is always with an extension file name, .s.
  - 3. Click "execute" button and wait completion.
- Press the POWER/ESC button of the unit to reset.



# Appendix 1

# MAP DATUM LIST

No	Abbrev	Description	
1	ADINDA	Adindan-MEAN FOR Ethiopia, Sudan	
2	ADINDB	Adindan-Burkina Faso	
3	ADINDC	Adindan-Cameroon	
4	ADINDD	Adindan-Ethiopia	
5	ADINDE	Adindan-Mali	
6	ADINDF	Adindan-Senegal	
7	ADINDG	Adindan-Sudan	
8	AFGY	Afgooye-Somalia	
9	AIN70	Ain el Abd 1970-Bahrain	
10	AINSA	Ain el Abd 1970-Saudi Arabia	
11	ANA65	Anna 1 Astro 1965-Cocos Islands	
12	ANT43	Antigua Island Astro 1943 Antigua (Leeward Islands)	
13	ARC50A	Arc 1950 MEAN FOR Botswana, Lesotho, Malawi, Swaziland, Zaire, Zambia, Zimbabwe	
14	ARC50B	Arc 1950-Botswana	
15	ARC50C	rc 1950-Burundi	
16	ARC50D	Arc 1950-Lesotho	
17	ARC50E	Arc 1950-Malawi	
18	ARC50F	Arc 1950-Swaziland	
19	ARC50E	Arc 1950-Zaire	
20	ARC50F	Arc 1950-Zambia	
21	ARC50G	Arc 1950-Zimbabwe	
22	ARC60	Arc 1960-MEAN FOR Kenya, Tanzania	
23	ASC58	Ascension Island 1958 Ascension Island	

24	ASC45	Astro Beacon E 1945-Iwo Jima	
25	ASTHI	Astro DOS 71/4-St Helena Island	
26	AST61	Astro Tern Island (FRIG) 1961 Tern Island	
27	AST52	Astronomical Station 1952 Marcus Island	
28	AUST66	Australian Geodetic 1966 Australia & Tasmania	
29	AUST84	Australian Geodetic 1984 Australia & Tasmania	
30	AYABE	Ayabelle Lighthouse-Djibouti	
31	BELLE	Bellevue (IGN) Efate & Erromango Islands	
32	BERM57	Bermuda 1957-Bermuda	
33	BISSAU	Bissau-Guinea-Bissau	
34	BOGOTA	Bogota Observatory-Columbia	
35	BUKIT	Bukit Rimpah Indonesia (Banka & Belitung Islands)	
36	CAMP	Camp Area Astro Antarctica (McMurdo Camp Area)	
37	CAMPO	Campo Inchauspe - Argentina	
38	CANTO	Canton Astro 1966 - Phoenix Islands	
39	CAPESA	Cape - South Africa	
40	CAPCAN	Cape Canaveral - Bahamas, Florida	
41	CARTH	Carthage - Tunisia	
42	CHTHM	Chatham Island Astro 1971 New Zealand (Chatham Island)	
43	CHUA	Chua Astro - Paraguay	
44	COREGO	Corrego Alegra - Brazil	
45	DEBOLA	Debola - Guinea	
46	DJAKA	Djakarta (Batvia) Indonesia (Sumatra)	
47	DOS68	DOS 1968 New Georgia Islands (Gizo Island)	
48	EAST67	Easter Island 1967 - Easter Island	
49	Eur50	European 1950 MEAN FOR Austria, Belgium, Denmark, Finland, France, West Germany, Gibraltar, Greece, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzer-land	

63 FORT55 Fort Thomas 1955 Nevis, St Kitts (Leeward Islands) 64 GAN70 Gan 1970 - Republic of Maldives 65 GEO49 Geodetic Datum 1949 - New Zealand	and	
52 EUR-C European 1950 - Cyprus 53 EUR-D European 1950 - Egypt 54 EUR-E European 1950 England, Channel Islands, Ireland, Scotland, Shetland Islands 55 EUR-F European 1950 - Finland, Norway 56 EUR-G European 1950 - Iran 58 EUR-H European 1950 - Iran 59 EUR-J European 1950 - Italy (Sardinia) 59 EUR-J European 1950 - Italy (Sicily) 60 EUR-K European 1950 - Malta 61 EUR-L European 1950 - Malta 62 EUR-M European 1950 - Kapin 63 FORT55 Fort Thomas 1955 Nevis, St Kitts (Leeward Islands) 64 GAN70 Gan 1970 - Republic of Maldives 65 GEO49 Geodetic Datum 1949 - New Zealand		
53 EUR-D European 1950 - Egypt 54 EUR-E European 1950 - Egypt 55 EUR-F European 1950 - Finland, Norway 56 EUR-G European 1950 - Greece 57 EUR-H European 1950 - Italy (Sardinia) 58 EUR-I European 1950 - Italy (Sicily) 59 EUR-J European 1950 - Italy (Sicily) 60 EUR-K European 1950 - Malta 61 EUR-L European 1950 - Malta 62 EUR-M European 1950 - Spain 63 FORT55 Fort Thomas 1955 Nevis, St Kitts (Leeward Islands) 64 GAN70 Gan 1970 - Republic of Maldives 65 GEO49 Geodetic Datum 1949 - New Zealand		
54 EUR-E European 1950 England, Channel Islands, Ireland, Scotland, Shetland Islands 55 EUR-F European 1950 - Finland, Norway 56 EUR-G European 1950 - Greece 57 EUR-H European 1950 - Itan 58 EUR-I European 1950 - Italy (Sardinia) 59 EUR-J European 1950 - Italy (Sicily) 60 EUR-K European 1950 - Malta 61 EUR-L European 1950 - Malta 62 EUR-M European 1979 MEAN FOR Austria, Finland, Netherlands, Norway, Spain, Sweden, Switzerla 63 FORT55 Fort Thomas 1955 Nevis, St Kitts (Leeward Islands) 64 GAN70 Gan 1970 - Republic of Maldives 65 GEO49 Geodetic Datum 1949 - New Zealand		
55 EUR-F European 1950 - Finland, Norway  56 EUR-G European 1950 - Greece  57 EUR-H European 1950 - Italy (Sardinia)  58 EUR-I European 1950 - Italy (Sicily)  59 EUR-J European 1950 - Italy (Sicily)  60 EUR-K European 1950 - Malta  61 EUR-L European 1950 - Malta  62 EUR-M European 1979 MEAN FOR Austria, Finland, Netherlands, Norway, Spain, Sweden, Switzerla  63 FORT55 Fort Thomas 1955 Nevis, St Kitts (Leeward Islands)  64 GAN70 Gan 1970 - Republic of Maldives  65 GEO49 Geodetic Datum 1949 - New Zealand		
56 EUR-G European 1950 - Greece 57 EUR-H European 1950 - Iran 58 EUR-I European 1950 - Italy (Sardinia) 59 EUR-J European 1950 - Italy (Sicily) 60 EUR-K European 1950 - Malta 61 EUR-L European - Portugal, Spain 62 EUR-M European 1979 MEAN FOR Austria, Finland, Netherlands, Norway, Spain, Sweden, Switzerla 63 FORT55 Fort Thomas 1955 Nevis, St Kitts (Leeward Islands) 64 GAN70 Gan 1970 - Republic of Maldives 65 GEO49 Geodetic Datum 1949 - New Zealand		
57 EUR-H European 1950 - Iran 58 EUR-I European 1950 - Italy (Sardinia) 59 EUR-J European 1950 - Italy (Sicily) 60 EUR-K European 1950 - Malta 61 EUR-L European - Portugal, Spain 62 EUR-M European 1979 MEAN FOR Austria, Finland, Netherlands, Norway, Spain, Sweden, Switzerla 63 FORT55 Fort Thomas 1955 Nevis, St Kitts (Leeward Islands) 64 GAN70 Gan 1970 - Republic of Maldives 65 GEO49 Geodetic Datum 1949 - New Zealand		
58 EUR-I European 1950 - Italy (Sardinia) 59 EUR-J European 1950 - Italy (Sicily) 60 EUR-K European 1950 - Malta 61 EUR-L European - Portugal, Spain 62 EUR-M European 1979 MEAN FOR Austria, Finland, Netherlands, Norway, Spain, Sweden, Switzerla 63 FORT55 Fort Thomas 1955 Nevis, St Kitts (Leeward Islands) 64 GAN70 Gan 1970 - Republic of Maldives 65 GEO49 Geodetic Datum 1949 - New Zealand		
59 EUR-J European 1950 - Italy (Sicily) 60 EUR-K European 1950 - Malta 61 EUR-L European - Portugal, Spain 62 EUR-M European 1979 MEAN FOR Austria, Finland, Netherlands, Norway, Spain, Sweden, Switzerla 63 FORT55 Fort Thomas 1955 Nevis, St Kitts (Leeward Islands) 64 GAN70 Gan 1970 - Republic of Maldives 65 GEO49 Geodetic Datum 1949 - New Zealand		
60 EUR-K European 1950 - Malta 61 EUR-L European - Portugal, Spain 62 EUR-M European 1979 MEAN FOR Austria, Finland, Netherlands, Norway, Spain, Sweden, Switzerla 63 FORT55 Fort Thomas 1955 Nevis, St Kitts (Leeward Islands) 64 GAN70 Gan 1970 - Republic of Maldives 65 GEO49 Geodetic Datum 1949 - New Zealand		
61 EUR-L European - Portugal, Spain 62 EUR-M European 1979 MEAN FOR Austria, Finland, Netherlands, Norway, Spain, Sweden, Switzerla 63 FORT55 Fort Thomas 1955 Nevis, St Kitts (Leeward Islands) 64 GAN70 Gan 1970 - Republic of Maldives 65 GEO49 Geodetic Datum 1949 - New Zealand		
62 EUR-M European 1979 MEAN FOR Austria, Finland, Netherlands, Norway, Spain, Sweden, Switzerla 63 FORT55 Fort Thomas 1955 Nevis, St Kitts (Leeward Islands) 64 GAN70 Gan 1970 - Republic of Maldives 65 GEO49 Geodetic Datum 1949 - New Zealand		
63 FORT55 Fort Thomas 1955 Nevis, St Kitts (Leeward Islands) 64 GAN70 Gan 1970 - Republic of Maldives 65 GEO49 Geodetic Datum 1949 - New Zealand		
64 GAN70 Gan 1970 - Republic of Maldives 65 GEO49 Geodetic Datum 1949 - New Zealand	European 1979 MEAN FOR Austria, Finland, Netherlands, Norway, Spain, Sweden, Switzerland	
65 GEO49 Geodetic Datum 1949 - New Zealand	Fort Thomas 1955 Nevis, St Kitts (Leeward Islands)	
	Gan 1970 - Republic of Maldives	
66 GPA40 Graciosa Raso SW 1048 Azoros (Enjal Gracias Dica Sao Jorgo Torcoira)	Geodetic Datum 1949 - New Zealand	
00 GIVA49 GIACIOSA BASE SW 1940 AZOIES (1 AIAI, GIACIAS, FICO, SAO JOIGE, TEICEITA)	Graciosa Base SW 1948 Azores (Faial, Gracias, Pico, Sao Jorge, Terceira)	
67 GUAM63 Guam 1963 – Guam		
68 GUNSG Gunung Segara - Indonesia (Kalimantan)		
69 GUX GUX 1 Astro - Guadalcanal Island		
70   HERAT   Herat North - Afghanistan		
71 HJOR Hjorsey 1955 - Iceland		
72 HK63 Hong Kong 1963 - Hong Kong		
73 HUTZU Hu-Tzu-Shan - Taiwan		
74 INDIAB Indian - Bangladesh		
75 INDIAN Indian - India, Nepal		
76 IND54 Indian 1954 - Thailand Vietnam		

77	IND75	Indian 1975 - Thailand
78	IRE65	Ireland 1965 - Ireland
79	ISTS68	ISTS 061 Astro 1968 South Georgia Islands
80	ISTS69	ISTS 073 Astro 1969 - Diego Garcia
81	JI61	Johnston Island 1961 - Johnston Island
82	KANDA	Kandawala - Sri Lanka
83	KRG49	Kerguelen Island 1949 Kerguelen Island
84	KERT48	Kertau 1948 - West Malaysia & Singapore
85	KSA51	Kusaie Astro 1951 - Caroline Islands
86	LC61	L.C. 5 Astro 1961 - Cayman Brac Island
87	LEIGO	Leigon - Ghana
88	LIB64	Liberia 1964 - Liberia
89	LUZON	Luzon Philippines (Excluding Mindanao)
90	LUZMD	Luzon - Philippines (Mindanao)
91	MAH71	Mahe 1971 Mahe Island
92	MASWA	Massawa - Ethiopia (Eritrea)
93	MERCH	Merchich - Morocco
94	MIDW61	Midway Astro 1961 - Midway Islands
95	MINAC	Minna - Cameroon
96	MINAN	Minna - Nigeria
97	MNT58	Montserrat Island Astro 1958 Montserrat (Leeward Islands)
98	MPOR	M'Poraloko - Gabon
99	NAHWA	Nahrwan - Oman (Masirah Island)
100	NAHWB	Nahrwan - Saudi Arabia
101	NAHWC	Nahrwan - United Arab Emirates
102	NAPAR	Naparima BWI - Trinidad & Tobago

NAD27A North American 1927 MEAN for antigua, Barbados, Barbuda, Caicos Islands, Cuba, Dominican Republic Grand Cayman, Jamaica, Turks Islands NAD27B NAD27C North American 1927 MEAN FOR Canada NAD27D North American 1927 MEAN FOR CONUS NAD27C North American 1927 MEAN FOR CONUS NAD27C North American 1927 MEAN FOR CONUS (East of Mississippi River) including Louisiana, Missouri, Minnesota NAD27E North American 1927 MEAN FOR CONUS (West of Mississippi River) NAD27F North American 1927 MEAN FOR CONUS (West of Mississippi River) NAD27F North American 1927 MEAN FOR CONUS (West of Mississippi River) NAD27F North American 1927 Bahamas (Except San Salvador Island) NAD27G North American 1927 Bahamas (San Salvador Island) NAD27I North American 1927 Bahamas (San Salvador Island) NAD27I North American 1927 Canada (Alberta, British Columbia) NAD27I North American 1927 Canada (Manitoba, Ontario) NAD27L North American 1927 Canada (New Brunswick, Newfoundland, Nova Scotia, Quebec) NAD27L North American 1927 Canada (Northwest Territories, Saskatchewan) North American 1927 Canada (Yukon) North American 1927 Canada (Yukon) North American 1927 Canada (Hayes Peninsula) NAD27N North American 1927 Greenland (Hayes Peninsula) NAD27Q North American 1927 Greenland (Hayes Peninsula) NAD28B North American 1928 Gentral America, Mexico North American 1928 Central America, Mexico North American 1939 Acores (Corvo & Flores Islands)  NORTH American 1940 Old Hawaiian MEAN FOR Hawaii, Kauai, Maui, Oahu NORTH AMAUAI Old Hawaiian Kauai					
104 NAD27B North American 1927 MEAN for Belize, Costa Rica, El Salvador, Guatemala, Honduras, Nicaragua 105 NAD27C North American 1927 MEAN FOR Canada 106 NAD27D North American 1927 MEAN FOR CONUS 107 NAD27C North American 1927 MEAN FOR CONUS (East of Mississippi River) North American 1927 MEAN FOR CONUS (West of Mississippi River) 108 NAD27E North American 1927 MEAN FOR CONUS (West of Mississippi River) 109 NAD27F North American 1927 Bahamas (Except San Salvador Island) 110 NAD27G North American 1927 Bahamas (Except San Salvador Island) 111 NAD27H North American 1927 Canada (Alberta, British Columbia) 112 NAD27I North American 1927 Canada (Mainitoba, Ontario) 113 NAD27J North American 1927 Canada (New Brunswick, Newfoundland, Nova Scotia, Quebec) 115 NAD27K North American 1927 Canada (Northwest Territories, Saskatchewan) 116 NAD27M North American 1927 Canada (Vukon) 117 NAD27N North American 1927 Canada (Vukon) 118 NAD27N North American 1927 Canada (Vukon) 119 NAD27N North American 1927 Canada (Mayes Peninsula) 120 NAD27P North American 1927 Greenland (Hayes Peninsula) 120 NAD27Q North American 1928 Alaska, Canada, CONUS 121 NAD83A North American 1938 Alaska, Canada, CONUS 122 NAD83B North American 1938 Central America, Mexico 123 OBS39 Observatorio Metereo 1939 Azores (Corvo & Flores Islands) 124 EGP07 Old Egyptian 1907 - Egypt 125 HAWAME Old Hawaiian MEAN FOR Hawaii, Kauai, Maui, Oahu	103	NAD27A	North American 1927 MEAN for antigua, Barbados, Barbuda, Caicos Islands, Cuba, Dominican Republic,		
105 NAD27C North American 1927 MEAN FOR Canada 106 NAD27D North American 1927 MEAN FOR CONUS 107 NAD27C River) including Louisiana, Missouri, Minnesota 108 NAD27E North American 1927 MEAN FOR CONUS (West of Mississippi River) 109 NAD27F North American 1927 MEAN FOR CONUS (West of Mississippi River) 109 NAD27F North American 1927 Bahamas (Except San Salvador Island) 110 NAD27G North American 1927 Bahamas (Except San Salvador Island) 111 NAD27H North American 1927 Bahamas (San Salvador Island) 112 NAD27I North American 1927 Canada (Alberta, British Columbia) 113 NAD27J North American 1927 Canada (Manitoba, Ontario) 114 NAD27K North American 1927 Canada (Northwest Territories, Saskatchewan) 115 NAD27L North American 1927 Canada (Northwest Territories, Saskatchewan) 116 NAD27M North American 1927 Canada (Yukon) 117 NAD27N North American 1927 Canal Zone 118 NAD27O North American 1927 Cuba 119 NAD27P North American 1927 Greenland (Hayes Peninsula) 120 NAD27Q North American 1927 Greenland (Hayes Peninsula) 121 NAD83A North American 1983 Alaska, Canada, CONUS 122 NAD83B North American 1983 Central America, Mexico 123 OBS39 Observatorio Metereo 1939 Azores (Corvo & Flores Islands) 124 EGPO7 Old Egyptian 1907 - Egypt 125 HAWAME Old Hawaiian MEAN FOR Hawaii, Kauai, Maui, Oahu					
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107 NAD27C North American 1927 MEAN FOR CONUS (East of Mississippi River) including Louisiana, Missouri, Minnesota  108 NAD27E North American 1927 MEAN FOR CONUS (West of Mississippi River)  109 NAD27F North American 1927 Alaska  110 NAD27G North American 1927 Bahamas (Except San Salvador Island)  111 NAD27H North American 1927 Bahamas (San Salvador Island)  112 NAD27I North American 1927 Canada (Alberta, British Columbia)  113 NAD27J North American 1927 Canada (Manitoba, Ontario)  114 NAD27K North American 1927 Canada (New Brunswick, Newfoundland, Nova Scotia, Quebec)  115 NAD27L North American 1927 Canada (Northwest Territories, Saskatchewan)  116 NAD27M North American 1927 Canada (Yukon)  117 NAD27N North American 1927 Canal Zone  118 NAD27O North American 1927 Canal Zone  119 NAD27P North American 1927 Greenland (Hayes Peninsula)  120 NAD27Q North American 1923 Greenland (Hayes Peninsula)  121 NAD83A North American 1983 Alaska, Canada, CONUS  122 NAD83B North American 1983 Central America, Mexico  123 OBS39 Observatorio Metereo 1939 Azores (Corvo & Flores Islands)  124 EGPO7 Old Egyptian 1907 - Egypt  125 HAWAME Old Hawaiian MEAN FOR Hawaii, Kauai, Maui, Oahu  106 ONTH American Hawaii	105	NAD27C	North American 1927 MEAN FOR Canada		
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108 NAD27F North American 1927 MEAN FOR CONUS (West of Mississippi River) 109 NAD27F North American 1927 Alaska 110 NAD27G North American 1927 Bahamas (Except San Salvador Island) 111 NAD27H North American 1927 Bahamas (San Salvador Island) 112 NAD27I North American 1927 Canada (Alberta, British Columbia) 113 NAD27J North American 1927 Canada (Manitoba, Ontario) 114 NAD27K North American 1927 Canada (Mew Brunswick, Newfoundland, Nova Scotia, Quebec) 115 NAD27L North American 1927 Canada (Northwest Territories, Saskatchewan) 116 NAD27M North American 1927 Canada (Yukon) 117 NAD27N North American 1927 Canal Zone 118 NAD27O North American 1927 Cuba 119 NAD27P North American 1927 Greenland (Hayes Peninsula) 120 NAD27Q North American 1923 Mexico 121 NAD83A North American 1983 Alaska, Canada, CONUS 122 NAD83B North American 1983 Central America, Mexico 123 OBS39 Observatorio Metereo 1939 Azores (Corvo & Flores Islands) 124 EGP07 Old Egyptian 1907 - Egypt 125 HAWAME Old Hawaiian MEAN FOR Hawaii, Kauai, Maui, Oahu 126 HAWAI Old Hawaiian Hawaii	107	NAD27C			
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112 NAD27I North American 1927 Canada (Alberta, British Columbia) 113 NAD27J North American 1927 Canada (Manitoba, Ontario) 114 NAD27K North American 1927 Canada (New Brunswick, Newfoundland, Nova Scotia, Quebec) 115 NAD27L North American 1927 Canada (Northwest Territories, Saskatchewan) 116 NAD27M North American 1927 Canada (Yukon) 117 NAD27N North American 1927 Canal Zone 118 NAD27O North American 1927 Cuba 119 NAD27P North American 1927 Greenland (Hayes Peninsula) 120 NAD27Q North American 1927 Mexico 121 NAD83A North American 1983 Alaska, Canada, CONUS 122 NAD83B North American 1983 Central America, Mexico 123 OBS39 Observatorio Metereo 1939 Azores (Corvo & Flores Islands) 124 EGP07 Old Egyptian 1907 - Egypt 125 HAWAME Old Hawaiian MEAN FOR Hawaii, Kauai, Maui, Oahu 126 HAWAI Old Hawaiian Hawaii	110	NAD27G	North American 1927 Bahamas (Except San Salvador Island)		
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115 NAD27L North American 1927 Canada (Northwest Territories, Saskatchewan) 116 NAD27M North American 1927 Canada (Yukon) 117 NAD27N North American 1927 Canal Zone 118 NAD27O North American 1927 Cuba 119 NAD27P North American 1927 Greenland (Hayes Peninsula) 120 NAD27Q North American 1927 Mexico 121 NAD83A North American 1983 Alaska, Canada, CONUS 122 NAD83B North American 1983 Central America, Mexico 123 OBS39 Observatorio Metereo 1939 Azores (Corvo & Flores Islands) 124 EGP07 Old Egyptian 1907 - Egypt 125 HAWAME Old Hawaiian MEAN FOR Hawaii, Kauai, Maui, Oahu 126 HAWAI Old Hawaiian Hawaii	113	NAD27J	North American 1927 Canada (Manitoba, Ontario)		
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118     NAD27O     North American 1927 Cuba       119     NAD27P     North American 1927 Greenland (Hayes Peninsula)       120     NAD27Q     North American 1927 Mexico       121     NAD83A     North American 1983 Alaska, Canada, CONUS       122     NAD83B     North American 1983 Central America, Mexico       123     OBS39     Observatorio Metereo 1939 Azores (Corvo & Flores Islands)       124     EGP07     Old Egyptian 1907 - Egypt       125     HAWAME     Old Hawaiian MEAN FOR Hawaii, Kauai, Maui, Oahu       126     HAWAI     Old Hawaiian Hawaii	116	NAD27M	North American 1927 Canada (Yukon)		
119     NAD27P     North American 1927 Greenland (Hayes Peninsula)       120     NAD27Q     North American 1927 Mexico       121     NAD83A     North American 1983 Alaska, Canada, CONUS       122     NAD83B     North American 1983 Central America, Mexico       123     OBS39     Observatorio Metereo 1939 Azores (Corvo & Flores Islands)       124     EGP07     Old Egyptian 1907 - Egypt       125     HAWAME     Old Hawaiian MEAN FOR Hawaii, Kauai, Maui, Oahu       126     HAWAI     Old Hawaiian Hawaii	117	NAD27N	North American 1927 Canal Zone		
120     NAD27Q     North American 1927 Mexico       121     NAD83A     North American 1983 Alaska, Canada, CONUS       122     NAD83B     North American 1983 Central America, Mexico       123     OBS39     Observatorio Metereo 1939 Azores (Corvo & Flores Islands)       124     EGP07     Old Egyptian 1907 - Egypt       125     HAWAME     Old Hawaiian MEAN FOR Hawaii, Kauai, Maui, Oahu       126     HAWAI     Old Hawaiian Hawaii	118	NAD27O	North American 1927 Cuba		
121     NAD83A     North American 1983 Alaska, Canada, CONUS       122     NAD83B     North American 1983 Central America, Mexico       123     OBS39     Observatorio Metereo 1939 Azores (Corvo & Flores Islands)       124     EGP07     Old Egyptian 1907 - Egypt       125     HAWAME     Old Hawaiian MEAN FOR Hawaii, Kauai, Maui, Oahu       126     HAWAI     Old Hawaiian Hawaii	119	NAD27P	North American 1927 Greenland (Hayes Peninsula)		
122     NAD83B     North American 1983 Central America, Mexico       123     OBS39     Observatorio Metereo 1939 Azores (Corvo & Flores Islands)       124     EGP07     Old Egyptian 1907 - Egypt       125     HAWAME     Old Hawaiian MEAN FOR Hawaii, Kauai, Maui, Oahu       126     HAWAI     Old Hawaiian Hawaii	120	NAD27Q	North American 1927 Mexico		
123 OBS39 Observatorio Metereo 1939 Azores (Corvo & Flores Islands)  124 EGP07 Old Egyptian 1907 - Egypt  125 HAWAME Old Hawaiian MEAN FOR Hawaii, Kauai, Maui, Oahu  126 HAWAI Old Hawaiian Hawaii	121	NAD83A	North American 1983 Alaska, Canada, CONUS		
124EGP07Old Egyptian 1907 - Egypt125HAWAMEOld Hawaiian MEAN FOR Hawaii, Kauai, Maui, Oahu126HAWAIOld Hawaiian Hawaii	122	NAD83B	North American 1983 Central America, Mexico		
125 HAWAME Old Hawaiian MEAN FOR Hawaii, Kauai, Maui, Oahu 126 HAWAI Old Hawaiian Hawaii	123	OBS39	Observatorio Metereo 1939 Azores (Corvo & Flores Islands)		
126 HAWAI Old Hawaiian Hawaii	124	EGP07	Old Egyptian 1907 - Egypt		
	125	HAWAME	Old Hawaiian MEAN FOR Hawaii, Kauai, Maui, Oahu		
127 KAUAI Old Hawaiian Kauai	126	HAWAI	Old Hawaiian Hawaii		
	127	KAUAI	Old Hawaiian Kauai		

128	MAUI	Old Hawaiian Maui	
129	OAHU	Old Hawaiian Oahu	
130	OMAN	Oman - Oman	
131	OS36	Ord. Survey Great Britain 1936 MEAN FOR England, Isle of Man, Scotland, Shetland Islands, Wales	
132	OS36B	Ord. Survey Great Britain 1936 - England	
133	OS36C	Ord. Survey Great Britain 1936 England, Isle of Man, Wales	
134	OS36D	Ord. Survey Great Britain 1936 Scotland, Shetland Islands	
135	OS36E	Ord. Survey Great Britain 1936 - Wales	
136	PICO	Pico de las Nieves - Canary Islands	
137	PIT67	Pitcairn Astro 1967 - Pitcairn Island	
138	PONT58	Point 58 MEAN FOR Burkina Faso & Niger	
139	PONT48	Pointe Noire 1948 - Congo	
140	PORT36	Porto Santo 1936 Porto Santo, Madeira Islands	
141	141 PRV56A Provisional South American 1956 MEAN FOR Bolivia, Chile, Colombia,		
		Ecuador, Guyana, Peru, Venezuela	
142	PRV56B	Provisional South American 1956 - Bolivia	
143	PRV56C	Provisional South American 1956 Chile(Northern, Near 19South)	
144	PRV56D	Provisional South American 1956 Chile(Southern, Near 43South)	
145	PRV56E	Provisional South American 1956 Columbia	
146	PRV56F	Provisional South American 1956 Ecuador	
147	PRV56G	Provisional South American 1956 - Guyana	
148	PRV56H	Provisional South American 1956 – Peru	
149	PRVVEN	Provisional South American – Venezuela	
150	PRV63	Provisional South Chilean 1963 Chile (South, Near 53South) (Hito XVIII)	
151	PUERT	Puerto Rico Puerto Rico, Virgin Islands	
152	QATAR	Qatar National – Qatar	
153	QORNO	Qornoq - Greenland (South)	

154	REUNI	Reunion - Mascarene Islands	
155	ROME40	Rome 1940 - Italy (Sardinia)	
156	SANTO65	Santo (DOS) 1965 Espirito Santo Island	
157	SAOBRZ	Sao Braz Azores (Sao Miguel, Santa Maria Islands)	
158	SAPPR	Sapper Hill 1943 - East Falkland Island	
159	SCHWA	Schwarzeck – Namibia	
160	SELVA	Selvagem Grande - Salvage Islands	
161	SGS85	SGS 85 - Soviet Geodetic System 1985	
162	SA69A	South American 1969 MEAN for Argentina, Bolivia, Brazil, Chile, Colombia, Ecuador, Guyana, Paraguay, Peru, Trinidad & Tobago, Venezuela	
163	SA69B	South American 1969 Argentina	
164	SA69C	South American 1969 Bolivia	
165	SA69D	South American 1969 Brazil	
166	SA69E	South American 1969 Chile	
167	SA69F	South American 1969 Colombia	
168	SA69G	South American 1969 Ecuador	
169	SA69H	South American 1969 Ecuador (Baltra, Galapagos)	
170	SA69I	South American 1969 Guyana	
171	SA69J	South American 1969 Paraguay	
172	SA69K	South American 1969 Peru	
173	SA69L	South American 1969 - Trinidad & Tobago	
174	SA69M	South American 1969 - Venezuela	
175	SASIN	South Asia - Singapore	
176	TAN25	Tananarive Observatory 1925 Madagascar	
177	TIMBA48	Timbalai 1948 Brunei, East Malaysia (Sabah, Sarawak)	
178	TOKTO	Tokyo - MEAN FOR Japan, Korea, Okinawa	
179	TKYJP	Tokyo - Japan	

180	TKYKR	Tokyo - Korea	
181	TKYOK	Tokyo - Okinawa	
182	TRST68	Tristan Astro 1968 - Tristan da Cunha	
183	VITIL6	Viti Levu 1916 Fiji (Viti Levu Island)	
184	WAKE60	Vake - Eniwetok 1960 - Marshall islands	
185	WAKE52	Wake Island Astro 1952 - Wake Atoll	
186	WGS72	WGS 1972 - Global Definition	
187	WGS84	WGS 84-Default	
188	YACER	Yacare - Uruguay	
189	ZANDR	Zanderiji - Suriname	

# Warranty and Repair

#### WARRANTY

LOCOSYS Technology Inc. warrants this product to be free from defect in material and workmanship for 12 months from the date of purchase.

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 have been repaired or altered by other than LOCOSYS Technology Inc. authorized service person, dealer, problem(s) caused by 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 12 months 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.

# Warranty and Repair

#### **REPAPIR**

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. LOCOSYS Technology Inc. reserves the right to charge a "No Fault Found" fee for product returned as defective where no fault could be found by LOCOSYS 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 the 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".

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#### **Authorized Dealer**

#### Revision History

Part Number	Revision	Date	Note
	1.00	2006/02/10	

**Document Number:** 

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### **Federal Communications Commission (FCC) Statement**

#### 15.21

You are cautioned that changes or modifications not expressly approved by the part responsible for compliance could void the user's authority to operate the equipment.

# 15.105(b)

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 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 instructions, may cause harmful interference to radio communications. 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 help.

# **Operation is subject to the following two conditions:**

- 1) this device may not cause interference and
- 2) this device must accept any interference, including interference that may cause undesired operation of the device.

# **FCC RF Radiation Exposure Statement:**

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. End users must follow the specific operating instructions for satisfying RF exposure compliance. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.