



Thuraya Satellite Telecommunications Company

ThurayaMarine

User Manual

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Safety Summary

The following general safety precautions must be observed during all phases of operation, service and repair of this equipment. Failure to comply with these precautions or with specific warnings elsewhere in this manual violates safety standards of design, manufacture and intended use of the equipment. Thuraya assumes no liability for the customer's failure to comply with these requirements.

Microwave Radiation Hazards

During transmission the antenna in this system radiates Microwave Power. This radiation may be hazardous if exposed directly to humans, close to the antenna. During transmission, make sure that nobody gets closer than the recommended minimum safety distance. The minimum safety distance to the antenna on the focal line, is 2m.



Ground the equipment

To minimize shock hazard, the equipment chassis and cabinet must be connected to an electrical ground.



Do not operate in an explosive atmosphere

Do not operate the equipment in the presence of flammable gasses or fumes. Operation of any electrical equipment in such an environment constitutes a definite hazard.

Keep away from live circuits

Operating personnel must not remove equipment covers. Component replacement and internal adjustment must be made by qualified maintenance personnel. Do not replace components with the power cable connected. Under certain conditions, dangerous voltages may exist even with the power cable removed. To avoid injuries, always disconnect power and discharge circuits before touching them.

Do not service or adjust alone

Do not attempt internal service or adjustments unless another person, capable of rendering first aid resuscitation, is present.





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1. Before you start

Welcome to the world of Thuraya! Your newly purchased ThurayaMarine product will open up boundaries of communication, enabling you to communicate from virtually any ocean region in the world using Thuraya's satellite communication services. The ThurayaMarine supports high quality Voice call, Fax call, Data call, SMS, and GmPRS. In addition the ThurayaMarine supports wireless up to 4 handsets.

Please read carefully and make yourself familiar with the safety measures and user instructions in this manual before you start to use your ThurayaMarine.

1.1. For your safety

Read these simple guidelines that will help you get most out of your ThuryaMarine.

For more detailed information, please refer to the complete user guide.

Switch on safely

Do not switch the system on when the use of wireless phone is prohibited or when it may cause interference or danger.

Switch off near blasting

Follow any restrictions.

Do not use the system where blasting is in progress.

1.2. Battery Information

Use only Thuraya approval battery pack for handset, and Thuraya approved chargers for your handset.

- Do not short-circuit the battery. Short-circuiting the terminals may damage the battery or the connecting object.
- Do not expose to high temperatures.
- Please dispose the battery in accordance with local regulations.

1.3. Taking Care of your ThurayaMarine

Your system is a product of superior design and craftsmanship, and should be treated with care. The suggestions below will help you protect your warranty coverage.

- Keep the system dry. Liquids or moisture can contain minerals that will damage electronic circuits. If your handset does get wet, allow the device to dry completely before replacing it.
- Do not use or store the system in dusty or dirty areas. Its moving parts and electronic components can be damaged.
- Do not store the system in hot areas. High temperatures can shorten the life of electronic devices and damage batteries of the handset.
- Do not store the system in cold areas. When the system returns to its normal temperature, moisture can form inside the system and damage electronic circuit boards.
- Do not attempt to open the system other than as instructed in this guide.
- Do not drop, knock, or shake the system. Careless handling can break internal circuit boards and fine mechanics.
- Use only the supplied or approved replacement antenna. Unauthorized antennas, modifications, or attachments could damage the device and may violate regulations governing radio devices.
- Always create a backup of data you want to keep (such as contacts and calendar notes) before sending your device to a service facility.





1.4. ThurayaMarine Package Your package contains the following items;







Introduction

1.5. The ThurayaMarine Service

ThurayaMarine is designed to meet the high-performance, seamless communication demands on all types of water vessels moving across Thuraya satellite footprint.



Ideal communication solution for

- Fishing boats
- Supply vessels, merchant fleets, commercial carriers
- Yachts and leisure crafts

Keeping mariners connected with business, family and friends

- With the ThurayaMarine, seafarers can make voice and data calls, connect to the Internet, send SMS, faxes and e-mails, while moving across waters, whether on motor or sailing boats, yachts or commercial vessels.
- In case of an emergency, Thuraya Region Distress button is available to alert pre-configured contacts.
- Convenient social calling facility for crew and passengers on-board.

Easy to install and to use

- Compact, lightweight, below the deck equipment complies with IP66 casing.
- Wall-mounted or desktop, the main unit can be easily connected to an extension phone, fax machine or laptop.
- Supports up to four wireless handset for on-board mobility.
- Easy to handle omni-directional or stabilized antenna.

Advanced on-board communication

ThurayaMarine supports a wide range of communication services including:

- High quality voice communication
- "Always-on" Internet with ThurayaGmPRS at speeds up to 60/15kbps download/upload
- Web browsing, e-mail, web mail
- File Transfer Protocol (FTP)
- Virtual Private Network (VPN)
- E-commerce and more
- Data 9.6kbps





- Fax 9.6kbps (G3)
- Messaging
- GPS capabilities for location and position tracking
- Thuraya Region Distress button sends multi SMS and e-mail alerts to user-defined contacts
- Flexible postpaid and prepaid pricing plans
- Crew calling with prepaid calling cards

1.6. ThurayaMarine

The ThurayaMarine includes the following system components:

- Main Unit: Main Unit (MU) and AC/DC adapter
- Handset: Wireless Handset (HS), Charger, and Cradle
- Accessories (Manual, Software, cables, etc.)

Note: The external antenna is not included in the product package.



ThurayaMarine Main Unit and Wireless Handset



Intermatica S.p.A. Service Provider ThurayaMarine per l'Italia - www.intermatica.it





ThurayaMarine supports the following services.

- Circuit switched Voice/Data/Fax services
- Packet services
- Messaging
- Supplementary services
- Other functions
 - Phonebook function
 - Position reporting and simple tracking functionality using GPS function
 - Main Unit management S/W application
 - Support 4 wireless handset connection (option)

1.7. ThurayaMarine Main Unit



Main Unit is a satellite communication equipment using Thuraya Satellite on the sea.

Main features of the Main Unit are as following;

- Support waterproof (IP66)
- Fully support the GMPCS service (Voice, Fax, Data, SMS, GmPRS)
- Various external device interface (USB, DTE, RJ-11)
- Include DCT base station module to support the wireless handset
- Graphic LCD display
- Aluminum Die-casting case
- Apply Touch keypad
- Supports total 4 wireless handset access per Main Unit (Option)





1.8. LCD display



1.8.1. Function keys

As the function keys of the Main Unit adopted the touch-pad technology, it is very easy to operate them. The waterproof function is also provided.



	Up/Down Key 2-way direction key for moving focus in menu screen.
ок	OK This key is used to select and confirm menu options.
Cancel	Cancel This key is used to unselect and back to previous menu.
U	Power This key is used to power on/off of Main Unit.
Thuraya Region Distress	Thuraya Region Distress This key is used to send emergency messages.

1.8.2. External Interfaces

The external interface of the Main Unit allows the connection between the Main Unit and other external devices. It is also designed waterproof so that it can be used in the ocean. However, you need to use the exclusive connector enclosed with the product in order to ensure waterproof feature.

Analogue RJ11 connector

The RJ11 ports can be used for connection of analogue telephone and G3 fax machine. For this interface the following services are available:

• Voice call using external telephone





• 9.6kbps fax call using external G3 fax machine

USB connector

USB is an interface that allows a single universal plug to connect PCs. For this interface the following services are available:

- 9.6kbps data call using PC software
- 9.6kbps digital fax call using PC software
- GmPRS
- SMS and GPS tracking service using MU Manager software on PC.

DTE connector

DTE is an interface that allows a single universal plug to connect PCs. For this interface the following services are available:

- 9.6kbps data call using PC software
- 9.6kbps digital fax call using PC software
- GmPRS
- SMS and GPS tracking service using MU Manager software on PC.

External I/O connector

External I/O supports the connection of the external wire distress button. The external wire distress button is not included in the product package.

Satellite antenna connector

Satellite antenna connector supports the connection of the omni-directional antenna or the tracking antenna.

GPS antenna connector

GPS antenna connector supports the connection of the omni-directional antenna or the GPS antenna.

DC power connector

DC power connector supports the connection of AC/DC adapter.

1.8.3. Additional interfaces & functions

SIM card inserter & Key locker

SIM card inserter is an additional interface to insert the Thuraya SIM card. The key locker is convenient when inserting or ejecting the SIM card.

Wireless handset antenna

Wireless handset antenna connects the Main Unit and Handset using radio frequency.

Thuraya region distress

With the Thuraya region distress button, you can make an emergency SMS call in an emergency situation on the sea.





1.9. Handset



The Handset is the primary interface for the Main Unit. It enables the user to dial numbers, it displays status messages, and it can be used to configure the Main Unit and Handset.

The handset is divided into three distinct and inter-working sections.

- The first is the LCD section. This section gives the user visual indications about the operation and status of the system.
- The second is the function buttons section. This section enables the user to interact with the software menu system of the Main Unit and Handset.
- The third is the alphanumeric section. This section enables the user to dial and enter data into the Main Unit and Handset.

Main features of the Handset are as following;

- Apply the DCT solution for wireless handset
- Support total 4 wireless handset access (Option)
- Support Voice/SMS using Handset
- Support Speakerphone function and Ear jack connection for Voice call
- Support Intercom, Transfer, Conference call using Multi Handset
- Provide internal phonebook, CID, etc.
- Check and monitor the Main Unit using Handset





1.9.1. LCD display

The top of the Handset contains the LCD for displaying information to the user. The LCD display is graphically shown below:



	Short message stored at SIM card.
T.ull	The number of bars following this antenna symbol indicates received signal strength. Up to 5 bars. The number of displayed bars may fluctuate during a call. This is due to a signal level between the ThurayaMarine and the Satellite network.
	The number of displayed bars indicates the battery changing status.
SP	The user can turn the external speaker on and off by pressing "SPK" button. When the speaker is turned on, the symbol will be displayed in the LCD screen.

1.9.2. Function of buttons

The function buttons enable the user to enter the menu system of the Handset and change various settings. Each button is described in detail below.

0	[Power] button: Switch the terminal on or off.		
	[Thuraya Region Distress] button:		
DISTRESS	Send the emergency message.		
	[Multi function #1] button:		
	Select the left side function menu.		
	[Multi function #2] button:		
•	Select the middle side function menu.		
	[Multi function #3] button:		
•••	Select the right side function menu.		
7	[Send] button:		
	While in the menu system, press this button to go back one level until the Menu is completely exited.		
	[End] button:		
3	Finish the voice call during voice call.		
	Move menu position from sub-menu to first top menu.		
	[Scroll up/down] button:		
	The primary function is to scroll up and down to menu items not shown		
on the 3-line display of the LCD.			
The secondary function is the CID. Scroll up and down to che			
10 Sec. 10	I mornation of missed calls.		





G	[GPS] button: Select the GPS menu options.
ía	[Phonebook] button: Select the Phonebook menu options.
INT.	[Intercom] button: Select the intercom menu options.
SPK.	[Speakerphone] button: Select/deselect the speaker-phone function.

1.9.3. Alpha-Numeric Buttons

The keypad can be in normal (numeric) mode or alpha mode. Use the normal mode to enter digitals (phone numbers) while using the alpha mode to enter letters (names in the Phonebook). The alpha mode and numeric mode are toggled automatically.

	Key toggles		
1	@ _ * , 1		
2	Abc(2		
3	def)3		
4	g h l # 4		
5	j k l / 5		
6	m n o \ 6		
7	pqrs7		
8	tuv?8		
9	wxyz9		
0	. \$ + - 0		
*			
#			

When entering letters, toggle between upper case and lower case by using the "*" button.

1.9.4. Cradle

Use the cradle when mounting the Handset on the desk or wall. You can also connect the travel charger to the cradle to charge the Handset's battery.





2. Installation

2.1. How to install the Main Unit

(1) Location of Installation

Thanks to the Main Unit's waterproof feature, there is no limitation of location for installation. However, as the case of Main Unit is made of aluminum die-casting, if installed at an open place and exposed to the sunlight too long, the surface and the inside temperature of the Main Unit will increase, resulting in malfunctioning. It is recommended to install the product within a building or below a panel from outside environment.

The Main Unit and Handset can be connected wirelessly using radio frequency. If there is an obstacle between the Main Unit and Handset, this may reduce the communication quality. Therefore, it is recommended to avoid any obstacles when installing the handset on the wall.

(2) Installation

Wall-mounting type

- 1. Check the Main Unit's surface to be installed, and fix the wall-mounting bracket on the wall using screws.
- 2. Hold the Main Unit on the wall-mounting bracket using the wall-mounting hole.
- 3. Separate the support and the back panel from the cradle.
- 4. Fix the back panel on the wall.
- 5. Assemble the front panel of the cradle.
- 6. Hang the handset on the cradle.



How to mount the Main Unit

How to mount the Handset

Desk-mounting type

1. Place the Main Unit and the cradle of the Handset on a flat surface.



(3) External antenna connection

- 1. Separate the waterproof cover of SAT/GPS connector.
- 2. Connect the SAT antenna cable to the TNC connector marked with "SAT".
- 3. Connect the GPS antenna cable to the SMA connector marked with "GPS".
- 4. Connect the antenna for wireless communications (provided with the accessory cable) to



Note: Use Thuraya's authorized antenna to ensure sufficient satellite signaling.

(4) External device connection

The Main Unit supports to connect PC and the Main Unit using both USB port and DTE port. It supports to connect an external device supporting serial communication and the Main Unit using the DTE port only. It also supports to connect the external telephone and G3 Fax machine using RJ-11 port.

- 1. Separate the waterproof cover from external connector.
- 2. Connect the interface cable between the external device and the Main Unit.

Note

- 1. The USB port for the Main Unit supports only the connection between the Main Unit and PC installed USB driver.
- 2. The USB driver can be installed via the Utility CD. If you do not have the CD, please visit the following website to download the installation. (Search for "VCP driver" at http://www.ftdichip.com)

(5) SIM card Insert

Insert the Thuraya SIM card into the Main Unit to ensure normal operation.

- 1. Lift the SIM card cover from the left side of the Main Unit using the lock key.
- 2. Insert the SIM card as shown in the pictures below.
- 3. Close the SIM card cover.



Note: Turn off the power before inserting or removing the SIM card from the ThurayaMarine.

(6) Connecting the Main Unit to Power Supply Adapter

Plug the Power Supply Adapter connector into the DC-In connector on the Main Unit. Use the other end of the Power Supply Adapter to connect the Main Unit to the main power source.

- 1. Connect the DC plug for the AC/DC power adapter to the Main Unit.
- 2. Connect the AC power to the external power source.







(5) Turning on the power of the Main Unit and Initialization

1. Press and hold the power button for a few seconds or until the red LED above the power button lights up.



2. Below is an example of the normal readout of the Main Unit display, while the Main Unit is booting.



It may take for a while for the system to recognize the GPS signals if the antenna has been turned off for a long time or there is no free view to the GPS satellites. When the display reads as shown above, the system is ready to make and receive calls.

Note

1. If the satellite signal strength is weak or GPS signals cannot be received, the following warning will be displayed. In this case, check the factors such as the antenna position or RF cable length which influences the Tx/Rx satellite signals and to remove the factors.



2. If turning on the Main Unit without using the SIM card, the following message will be displayed. In this case, user should turn off the power, insert the SIM card into the Main Unit and then turn on the power again.



3. Once you turned off the power, wait at least 5 seconds before turning on the power again.





2.2. How to start the Handset

(1) Connecting Battery

- 1. Open the battery cover at the back of the Handset using a coin.
- 2. Connect the battery to the battery port of the Handset.
- 3. Close the battery cover using a coin again.

Note: Close the battery cover correctly to keep the Handset waterproof.



(2) Charging the battery

- 1. Plug the charger into the charger socket.
- 2. Connect the charger to an AC source.





How to charge using Travel Charger

How to charge using Cradle

Charge the battery enclosed with the handset package as soon as you can in order to ensure full battery charge. While the battery is charging you can see the bar of battery symbol changing cyclically. It may take approximately 3 hours and 30 minutes to fully charge the battery. The charger stops changing automatically when the battery is full. As long as the charger is not disconnected it restarts charging after a while to keep the battery fully charged.

You may still use the handset while charging the battery.

The internal clock for time, date and alarms will still keep running for about two hours if neither the battery nor the charger is connected, but no alarm will sound unless a charged battery is connected.

(3) Handset power on

1. The handset power button is placed in the upper left corner of the handset. See the figure below. To power on the system, just press the button until you hear a beep sound.



2. When the display reads as shown above, the system is ready to make and receive calls.

12:00 ** 20/ 7		12:00	™ 20/7	
THURAYA		-	THURAYA	
MARITIME	_	UAE		
VERSION 1.0	HANDSET #1			
Menu		Menu	Redial	SMS





Out of range

If the Handset could not receive the enough RF signal from the Main Unit or Main Unit's power was off, the following message will be displayed. In this case, user needs to check the RF condition between the Main Unit and Handset.



SAT ALERT or NO NETWORK

If the Main Unit cannot receive the signals sufficiently from the external antenna, the following message will be displayed.



Note: Once you turned off the power, wait at least 5 seconds before turning on the power again.

2.3. Handset Registration

The Handset should be registered at the Main Unit before using it. Typically, the Handset gets registered at the Main Unit during the manufacturing of ThurayaMarine in the factory

Registration procedure of the Handset

1. Select the "HS Registration" in at the Setting menu of the Main Unit.



3. To complete handset registration, the security code must be entered. The default security code is "0000", and can be changed by the user following registration.

Note: If the Handset was not registered correctly, repeat the 1~3 procedure.





3. Functions of Main Unit

3.1. How to power on/off

Main Unit power on

1. Press and hold the power button for a few seconds or until the red LED above the power button lights up.

Main Unit power off

1. Press and hold the power button for a few seconds.

Notes

- 1. Once you turned off the power, wait at least 5 seconds before turning on the power again.
- 2. The GMT information provided by the embedded GPS receiver is used to automatically display the time and date.
- 3. Accurate display of the time and date indicates normal reception of GPS information.

3.2. Voice calls using External Telephone

To make a call, you must be connected to a network with an adequate SAT signal.

Dialing using Telephone

The Main Unit supports to connect External telephone using RJ-11 port.

- 1. Pick up the handset of the external telephone.
- 2. Enter the phone number using keypad.
- 3. Press "*"



Note: Enter (*) after entering the destination call number.

Receiving using Telephone



3.3. Fax Calls using G3 Fax machine

You can use the Main Unit for receiving and sending fax messages. This can be done by a group 3 Fax machine connected to the RJ-11 interface.

Sending Fax

1. Dial the destination number followed by "#".

2. Press Fax "Start" button.



Note: To make a fax call from a Group 3 Fax machine, you must dial "#" as the last digit after the destination number.





Receiving Fax

1. Switch on the group 3 Fax machine that is connected to the RJ-11 interface.



Notes

- 1. A ring tone in the fax machine indicates an incoming fax call.
- 2. When using the automatic answering feature for faxes, the number of rings must be set to less than three rings.

3.4. Fax Calls using PC Software

You can send/receive a fax through a PC connected to the USB or DTE interface of the Main Unit. This can be done through a PC connected to the USB or DTE interface of the Main Unit. For sending a fax through PC, your PC should have appropriate PC Fax software installed.

Note: While sending a fax through PC connected to the USB or DTE interface, the fax software should be configured in the class 2.0 mode.

Sending Fax

- 1. Connect the PC to the USB or DTE interface of Main Unit.
- 2. Invoke the PC fax software.
- 3. While configuring the fax software, set resolution as 'Fine'.
- 4. Enter the destination number. (e.g. 12345678)
- 5. Select the document/file to be sent.
- 6. Use the appropriate option in the fax software to send the fax.



Note: No need to dial "#" after the destination number while using fax on the PC.

Receiving Fax

- 1. Connect the PC to the USB or DTE interface of the Main Unit.
- 2. Activate the fax software.
- 3. If there is no group 3 fax machine present at the RJ-11 interface of the Main Unit, incoming fax calls will be received by the PC connected to the USB or DTE interface.

	الد ۲ 	FAX		FAX	7 00:00:01		00:05:01
	THURAYA	RINGING		RINGI	NG	CONNE	ст
	UAE	008821622770001		00882	1622770001	008821	1622770001
l	12:00:00A 15.08.07	12:00:00A 15.08.07	J	12:00:00A	15.08.07	12:00:00A	15.08.07

3.5. Data Calls using PC Software

You can use the Main Unit to receive and make data calls. This can be done through a PC connected to the USB or DTE interface. To receive/make data calls by a PC, appropriate data communication software should be installed on the PC.

Note: The DTE port and USB port of the Main Unit support baud rates of 4800/9600/19200/38400/57200bps.

Sending Data from PC

- 1. Invoke the data communication software in your PC.
- 2. Dial the destination number (e.g. ATDT 12345678)
- 3. Select the data file to be sent after call connection.





4. Use appropriate options in the data communication software to send the file now. (Refer to the S/W guide book for more information.)



Receiving Data Calls

The PC should be connected to the Main Unit through USB or DTE interface. To receive a data call on the PC, an appropriate data communication software should be running, e.g. Hyper terminal (default program available on Windows OS).

- 1. Connect PC through USB or DTE interface.
- 2. Invoke the data communication software.
- 3. You will hear a special signal tone in the Main Unit when a data call is coming through.
- 4. The data will be received by the communication software (Refer to the S/W guide book for more information).



3.6. GmPRS Service Access

With the Main Unit, you can access Thuraya's GmPRS network. Use the USB port of DTE port to connect the Main Unit and your PC.

Setting a Phone connection modem to access Thuraya's GmPRS network

 Select "Control Panel → Phone and Modem Option → Modems" and then set a port by adding the "Standard 57600bps Modem" according to the following procedures.



 Right-click the mouse on the "Standard 57600bps Modem" which is newly created in the modems window. Right-click the mouse to select "Properties" and then select "57600" for "Maximum Port Speed". (Enter "at+cgdcont=1,"IP","GET",,0,0" for AT command)





Phone and Madees Options	Standard 56000 bjs Medan Properties 🛛 😨 🗱	Blandard S6000 bys Medice Properties 🛛 😰 🗱
Desg Hall Motor JAbarcal Des United Statutes are Installe: Note: Atlanta for Differentiat 2000/bit Mile Review Re	General Hoden Degrades Advected Deve Part CDHS Part CDHS Product Har Specific STORE	Connect Note: Degenetic Advected Drive
Att. Frees. Protect	La Card	Charge Data & Polizations

3. Select "Control Panel → Network Connections → Create a new connection" to automatically execute the "New Connection Wizard" follow the procedures below to create a phone connection. (Make sure to enter "*99#" for Phone Number to Dial".)



- 4. Once all the settings are complete, a new icon for phone connection will be generated on the main screen.
- Double-click the newly generated phone connection icon to execute phone connection. Select "Properties → General → Configure" and then set "57600" for "Maximum Modem Speed".

Connect THEAYA 2.	L THRAYA Properties	
	General (Options, Security Networking) Advanced Connect using: Woden: Standard 33600 Inc. Modern (CDM1)	
Use same Parwed	Configura.	Notice Certificative 7000 Sender 9000 by Holes (CDH1) Mainum greef (bo) 5100
Seve this user name and password to the following users:	Use daing sites	Haden print 200 Hadena batan Dotte hadena far tar 200 State
Dial 1998 (e) Help	Door con in nullication area when corrected	Contraction company (1100) Crash sushin company (1100) (200) (2000)

6. Select "Internet Protocol Properties" again and then select "Obtain an IP address





automatically". Select "Use the following DNS server address" and then enter "85.115.64.64" for DNS Server Address.



Procedures to access Thuraya's GmPRS network

- 1. Click the phone connection icon on the main screen or from the program.
- 2. See if the dial number is "*99#" and then click "Dial".



3. Then, the "Phone Connection Network" icon will be created on Windows' task bar and you can see "GMPRS" on the LCD which indicates the Main Unit.

T.II			۳.,,11		GMPRS	Ÿ8
THURAYA		GMP	RS		THUR	AYA
UAE		CONNECTING			UA	E
12:00:00A 15.08.07		12:00:00A	15.08.07		12:00:00A	15.08.07

Procedures to disconnect from Thuraya's GmPRS network

1. Click the "Phone Connection Network" on Windows' task bar and then select "End".





3.7. Emergency Call

In case of an emergency, the SSAS emits a ship to shore security alert that indicates the identity of the corresponding vessel, the vessel's location, and the nature of the emergency. The service administration relays the alert to the competent authorities.



According to the second section of the MSC/Circ.1072 "SSAS Equipment Guide", it is not required to follow any internationally standard vessel security alert procedures or for all vessels to be equipped with a universal type of SSAS. In other words, the SSAS can be composed of a variety of systems.

The Main Unit composes an SSAS using the Thuraya network. Pressing the "Thuraya Region Distress" button on the Main Unit executes an emergency call.



SSAS Message

ThurayaMarine01,EMERGENCY,2514.2024,N,05517.3612,E,20,160007.273				
ThurayaMarine01,	ThurayaMarine01, Vessel name			
EMERGENCY,	Message type			
2514.2924,N,055173612,E,	GPS position information, ddmm.mmmm, dddmm.mmmm			
20,	Vessel speed, knots			
160007.273	0007.273 UTC, hhmmss.sss			

Notes

- 1. You can make emergency calls within the area covered by the Thuraya network.
- 2. The user must enter more than one center number and/or center e-mail address. (Up to three can be entered.)
- 3. The emergency call frequency is once every one minutes. An SMS in not transmitted if there is no center number and/or center e-mail address stored, or reception of GPS information is not possible.

3.7.1. How to make a Distress call

- 1. Open the cover of "Thuraya Region Distress" button.
- 2. Press "Thuraya Region Distress" button for 5 seconds.







3.7.2. How to stop a Distress call

- 1. Open the cover of "Thuraya Region Distress" button.
- 2. Press "Thuraya Region Distress" button for 5 seconds.

3.8. GPS Manager

A GPS receiver is embedded in the Main Unit. Using the location information from the GPS and SMS, the Main Unit offers various functions.

3.8.1. Current Position

The current position information consists of latitude, longitude, UTC (Universally Coordinated Time – formally known as GMT), and speed indications.



3.8.2. Waypoint

Display the waypoint list. The corresponding menu on the handset can be used to save waypoint and modify saved waypoint names. A maximum of nine waypoints can be saved in the Main Unit. Detailed information about a waypoint can be viewed by selecting the number of the corresponding waypoint from the waypoint list.



3.8.3. Location Tracking

Display the direction/speed/distance of a selected location from the current vessel location and/or waypoint.



3.8.4. Setting Info

Display the information regarding the Position Tracking.



Ship ID

Display the IMEI number of the ThurayaMarine. The Ship ID can be edited using the Handset.





SMS Format

This option is used to select the SMS format to be used when transmitting GPS location information via the Position Tracking function. The two available SMS formats are Text mode and E-mail mode. Text mode is the default, and the mode in effect is displayed next to the menu.

Tracking Duration

This option is used to select the transmission interval for the Position Tracking function. The cycles supported are 5/15/30/60 minutes.

Center Number or Center Address

Display the telephone number and/or e-mail address of the call center that receives the GPS location information when the Position Tracking function is used.

The telephone number and/or e-mail address of the call center can be modified using the Handset.

3.9. Call Log

Facilitate the searching of the log of calls made via the Main Unit. Up to 40 calls can be saved in the Call Log regardless of a call type.



3.9.1. All

All calls made are displayed regardless of call type (Voice/Fax/Data).

View

Display the telephone number and duration of the call selected from the Call Log list.

Delete

Delete the call log.

3.9.2. Voice Call

Display the full log of voice calls.

View

Display the telephone number and duration of the call selected from the Call Log list. **Delete**

This option deletes the voice call log.

3.9.3. Fax Call

Display the full log of fax calls.

View

Display the fax call number and duration of the call selected from the Call Log list. **Delete**

Delete the fax call log.

3.9.4. Data Call Display the full log of data calls. <u>View</u> Display the data call number and duration of the call selected from the Call Log list. <u>Delete</u> Delete the data call log.





3.10. SSAS Call Center

Display the Call Center numbers or e-mail address.



Select a number and/or e-mail address to view corresponding information in more detail.

3.11. Setting

Perform Register, Clear, Paging Test for the handset, Factory Setting for the main unit.

3.11.1. HS Registration

Perform Register, Clear, Paging Test for the handset with the main unit.



New HS Register

Register the handset with the main unit.

Paging Test

Perform Paging Test for the handset registered with the main unit.

Register Clear

Clear the registration of all the handsets registered with the main unit.

3.11.2. Factory Setting

Return settings on the Main Unit to their factory defaults.



When running Factory Settings, the following items are deleted.

- Handset registration information (re-register to use)
- Call log information
- GPS waypoint list
- GPS position tracking settings information (Ship ID, center number, center e-mail address, etc.)
- SSAS call center list
- SMS outbox, sent messages, drafts list





4. Functions of Handset

4.1. How to power on/off

The main unit of the ThurayaMarine must be turned on first before turning on the power of the Handset.

Handset power on

1. Press and hold the power button for a few seconds.

Handset power off

1. Press and hold the power button for a few seconds.

Notes

- 1. Once you turned off the power, wait at least 5 seconds before turning on the power again.
- 2. The user must set the time and date in a separate menu.

4.2. Voice calls using Handset

To make a call, you must be connected to a network with an adequate SAT signal.

How to make a call

Telephone numbers can be dialed using traditional method.

- 1. Enter phone number using keypad.
- 2. You can use [Redial] button to select the desired number from a list of recently called telephone numbers.
- 3. Press "Send".



The [Redial] list stores up to ten of the most recently called telephone numbers.

How to end a call

1. Press "End".

Accept a call

When there is an incoming call, it is indicated as follows;

- Ring tone (according to melody and volume of current setting) can be heard.
- If caller's number is set to be displayed, the number will be displayed on the screen. If the number is stored in the contacts, the corresponding name of contact is displayed.
- 1. Press "Send".



Reject a call

1. Press "End".





4.3. Options during call using the Handset

Muting/unmuting the microphone

You can switch off the microphone so that the caller is not able to hear what is being said at your end of the line.

The function selection status can be verified by using the Mute On/Mute Off message.

1. Press "Mute" or Press "Unmute".



Selecting/release the Speakerphone

You can change the audio path from Receiver to internal speaker.

The user can use the Speakerphone image to verify the selection status of the function.

1. Press "SPK"



Volume Up/Down

The user may use the Up/Down keys during a call to adjust the audio volume. Volume can be adjusted over four levels.





4.4. SMS

Using the messaging menu of the Handset, you can send and receive the message. Pressing the SMS shortcut button on the handset enters the SMS-related menu.

	12:00 AM 20/ 7	Ⅲ 12:00 ^{▲▲} 20/ 7
	THURAYA	THURAYA
	UAE	UAE
	HANDSET #1	HANDSET #1
	Menu Redial SMS	Menu Redial SMS
Solid	There are unread	d message in your Inbox.
Not display	There is no mess	sage in your Inbox.
Blink	Display the full st	tatus of the mailbox.

4.4.1. Inbox

Arrival of Text message can be viewed in the Inbox. Inbox can store up to 30 messages. The number of messages to be stored may differ depending on the type of the SIM card. Inbox displays the message list from latest ones first. To make the searching of messages easier the first part of message is displayed. New Text messages are shown in the indicator line by Mail box icon.

Contents of Message can be viewed by pressing selected list.







- An (U) in front of a message in the message list indicates a new message and/or unread message.
- An (R) in front of a message in the message list indicates a read message.

Functions supported in Inbox are as below. <u>Read</u> Read the selected message. <u>Delete</u> Delete the selected message.

4.4.2. Outbox

When selecting Send in New Message menu, the entered messages will be automatically stored in Outbox and sent. When all the messages are sent successfully, the messages in Outbox will be shifted to Sent Message. If the transmission was not successful, the sent messages will be shifted to Sent Message while the failed messages remain in Outbox.



Functions supported in Inbox are as below.

Read Read the selected message. Send contents of message. Delete Delete the selected message.

4.4.3. Sent Message

Among messages in the Outbox/Draft folder, successfully transmitted messages are automatically saved.



Functions supported in Inbox are as below.

Read

Read the selected message.

<u>Delete</u>

Delete the selected message.

4.4.4. Draft

The text message saved while composing is saved in Draft folder.



Functions supported in Inbox are as below.

<u>Read</u>

Read the selected message.

<u>Send</u>

Send contents of message. The telephone number of the party to be called can be entered





directly or selected from the phonebook. In E-mail mode, the e-mail address of the party to be contacted must be entered directly.

<u>Delete</u>

Delete the selected message.

4.4.5. Write Message

Edit the message contents.



Functions supported in Inbox are as below.

<u>Send</u>

Send contents of message. The telephone number of the party to be called can be entered directly or selected from the phonebook. In E-mail mode, the e-mail address of the party to be contacted must be entered directly.

Edit

Edit contents of message.

<u>Save</u>

Save the draft message in the draft folder.

Format

Configure the message format either Text or E-mail.

Text: Format for transmitting message in text.

E-mail: Format for transmitting message in E-mail.

4.5. Emergency Call

With the ThurayaMarine, SSAS calls can be executed not only with the Main Unit, but also with the Handset.

More than one center number as well as center e-mail address must be entered in order to transmit emergency calls normally. The ThurayaMarine allows for the input of up to three center numbers and three center e-mail addresses.



4.5.1. How to make a Distress call

1. Press "Thuraya Region Distress" button for 5 seconds.







4.5.2. How to stop a Distress call

1. Press "Thuraya Region Distress" button for 5 seconds.

12:00	™ 20/7	lin1		12:00	™ 20/7	lin!
	[HURAYA	1	[Distress]	٦	THURAYA	۱.
EN	IERGENC	CY			UAE	
HANDSET #1				H/	ANDSET #	<i>‡</i> 1
Menu	Redial	SMS	J	Menu	Redial	SMS

4.6. Phonebook

The ThurayaMarine allows the storing of a phonebook on a SIM card and/or the embedded memory of the Handset. The quantity of telephone numbers that can be saved in a SIM card varies with the SIM card type, with the maximum being 200. Up to 70 telephone numbers can be stored in the Handset memory.

Add New Name

This option is used to enter a new telephone number in the selected telephone number storage space.



SIM or Private

This option is used to select the telephone number storage space. The 'SIM' is used to select a SIM card, and 'Private' is used to select the Handset.



Capacity

Display the phonebook storage capacity on Handset or the SIM card.

Ⅲ 12:00 [▲] 20/ 7	lini.) (Ē
Phonebook			
20/70			
	Back		

Ⅲ 12:00 ^ℳ 20/7	Lul
Memory Statu	IS
25 / 150	
	BACK

View

Display information about the selected telephone number.

12:00 [▲] 20/ 7 (Add New Nan	ne)	[View]	1 Sara	
>1 Sara 2 Ann _{Opt.} View	SMS		008821623	2770002 Back

<u>Edit</u>

This option is used to edit the information of the selected telephone number.



Delete

This option is used to delete the selected telephone number.

4.7. CID

Display information regarding missed calls. The Up/Down buttons can be used to review the information.



The ten most recent calls are automatically stored in the [CID] list.

- 1. Search through the missed calls using the "Up/Down" buttons.
- 2. In the search screen, press the "Send" button.

Delete

Delete the telephone number selected from the CID list.

Save

This option saves the telephone number selected from the CID list to the phonebook.



4.8. GPS

Verify the current location via the GPS receiver embedded in the Main Unit.

4.8.1. Current Position

Display the current location. The location information can be saved as a waypoint.



<u>Save</u>

Saves the current position information as a waypoint



<u>SMS</u>

Transmits the current position information via SMS

4.8.2. Waypoint

Search and manage the saved waypoint list.



<u>Edit</u>

This option is used to edit a waypoint name.

Delete

This option is used to delete a select waypoint from the waypoint list.

<u>SMS</u>

Transmits the waypoint information via SMS

4.8.3. Position Tracking

On/Off the periodic transmission of the current location in SMS format via the Main Unit according to the specified cycle.

Note:

- 1. A center number and/or center e-mail address must be stored in order to operate the position tracking function normally.
- 2. To modify position tracking settings, make sure the program is closed and the setting to be modified is entered.







160007.273

UTC, hhmmss.sss

4.8.4. Continue Position



4.8.5. Setting

When Position Tracking is activated, this function is used to set various settings regarding the transmission of location information.



Duration

This option is used to select the location information transmission cycle. (5/15/30/45/60minuite) **Send Format**

This option is used to select the Position Tracking SMS format.

Ship ID

This option is used to search and/or edit the vessel ID information for Position Tracking.

Center Number

This option is used to enter the telephone number of the Call Center to receive Position Tracking SMS transmissions.

Center E-mail

This option is used to enter the e-mail address of the Call Center to receive Position Tracking SMS transmissions.





4.9. Call Divert

Divert calls that cannot be received by the ThurayaMarine to another number registered previously.

4.9.1. Voice Call

Set the Divert function settings regarding 'All Voice' calls.



4.9.2. Fax Call

Set the Divert function settings regarding 'All Fax' calls.

4.9.3. Data Call

Set the Divert function settings regarding 'All Data' calls.

4.9.4. Clear Divert

Clear all Divert function settings.



4.10. Security

Set security-related settings of the ThurayaMarine.

Note: Thuraya is not liable for any issues arising from the loss of security-related codes (PIN code, PUK code, barring code, security code).

4.10.1. Call Barring

Sets the Call Barring function defined by call type.

Outgoing

This option sets the Call Barring function according to outgoing calls. The setting options are as follows.

- All calls
- International calls except Home



Incoming

This option sets the Call Barring function according to incoming calls.

The setting options are as follows.

All calls

Clear Barring

This option is used to clear all Call Barring settings. The Barring Code must be entered to facilitate clearing.



4.10.2. PIN Code

Activate/deactivate the SIM Lock function when booting the ThurayaMarine.



The PIN (Personal Identification Number; 4 digits) is initially supplied together with the SIM card by your service provider and can be changed later.

- 1. Enter PIN using keys on keypad.
- 2. Press OK to confirm PIN.

Note: If more than 3 errors are made when entering PIN code, PUK code must be entered.





4.10.3. Change Codes

Modify previously set PIN codes/Security codes/Barring code. To modify a code, the previous code must first be entered.



4.10.4. IMEI Number

Searches for the IMEI Number of the ThurayaMarine



4.11. Setting

Modify the Handset settings.

4.11.1. Sound Set the Handset sound.



Ring Sound

Modify the ring tone of incoming calls. There are ten ring tones available for selection.

Ring Volume

Adjust the volume level of the ring tone. The volume levels are as follows.

- Off
- Low

Intermatica S.p.A.

Service Provider ThurayaMarine per l'Italia - www.intermatica.it





- Middle
- High

Keypad Tone

Activate/deactivate the keypad tone of the Handset.

4.11.2. Phone

Turn the information and Room Monitor function of the Handset on/off. After setting, the [Save] button must be pressed in order for any changes to take effect.



Own Number

Enter one's own Voice/Fax/Data call telephone numbers.

Room Monitor

Turn the Room Monitor function on/off.

4.11.3. Handset Clock

Set the time and date on the Handset.



Set Time

Set the time on the Handset.

Time Format

Set the time format (12-hour or 24-hour) on the Handset.

Set Date

Set the date on the Handset. The date format is DD/MM.





4.11.4. Reset Handset

Reset the user settings on the Handset.



Phonebook Reset

Delete all phonebook information stored in the Handset.

Factory Setting

Reset all Handset user settings to factory defaults.

When running Factory Settings, the following items are deleted.

- 1. Handset registration information (re-register to use)
- 2. Time and date settings

4.12. Key Lock

Lock the Handset Keypad in order to prevent errors.



Selecting [Key Lock] in the menu activates the setting, and pressing the [UNLOCK] button deactivates it.

4.13. HS Registration

You can register a handset although it is already registered or cleared. To register the handset again, perform Register in the [Menu] to register the cleared handset, perform Register in the [Menu] or press the [INT] button.

A security code must be entered when registering a handset.







4.14. Other Status Display

Low Battery

This message is displayed when the Handset battery becomes low in power.

12:00	am 20/7	Tail)	12:00 ** 20/7	T.all
1	THURAYA	4			
	UAE			Low Battery	
HANDSET #1					
Menu	Redial	SMS	J		J

<u>Line in Use</u>

When the Main Unit is busy via another external interface, this message appears indicating that the handset of the Main Unit is in use.







5. Additional Functions using Multi-Hands

Up to four Handsets can be registered to one Main Unit. The ThurayaMarine supports a variety of functions using two or more registered Handsets.

5.1. Additional Handset Registration

The Main Unit supports connection of up to a maximum of four Handsets. If additional Handsets have been purchased, registration with the Main Unit must first be performed.

Registration of a Handset should be done as follows.

1. Select "HS Registration" from the Main Unit Settings menu.

GPS MANAGER CALL LOG SSAS CALL CENTER	HS REGISTERATION FACTORY SETTING	NEW HS REGISTER PAGING TEST REGISTER CLEAR	
SETTING 12:00:00A 15.08.07	12:00:00A 15.08.07	12:00:00A 15.08.07	12:00:00A 15.08.07

- 2. When the registration message appears on the Handset, press the "OK" button on the Handset and follow the registration prompts.
- The following message appears if registration of the additional Handset is completed without issue.

ſ	12:00 ^{AM} 20/7	lini.	1 1	12:00 AM 20/7	lini.	12:00 AM	20/7	Ĭ.all	12:00 '	™ 20/7	T.all
	Press OK			Please		Enter			Т	HURAYA	
	To Regist			Wait		Security	Code			UAE	
	Handset			Until beep				0000	HA	NDSET #	# 2
l	ок	Exit				ок	Del	Back	Menu	Redial	SMS

Note: If registration of an additional Handset fails, retry steps 1~3.

5.2. Intercom

Connect voice calls between the Main Unit and a registered handset.

- 1. Press the "INT" button on the Handset.
- 2. In the Handset list displayed, select the Handset for connection.
- 3. When the selected Handset rings, press the "Send" button.



5.3. Conference Call

Support the simultaneous use of two handsets during voice calls.

- 1. During a voice call, press the "Conf" button on a Handset.
- 2. In the Handset list displayed, select the Handset for connection.
- 3. When the selected Handset rings, press the "Send" button.







5.4. Transfer

Change Handsets during a voice call.

- 1. Press the "X-fer" button on the Handset being used for a voice call.
- 2. In the Handset list displayed, select the Handset for transfer.
- 3. When the selected Handset rings, press the "Send" button.
- 4. When the call is connected to the selected Handset, the connection to the previous Handset is ended.



5.5. Room Monitor

The Room Monitor function allows for the hearing of ambient sound in an area in which a Handset is installed via a Handset in a remote location. This function is available only to Handsets that have the Room Monitor function set to 'On'.

1. Select the Handset for Room monitoring.







6. PC Application Software

6.1. About Main Unit Manager Software

Main Unit Manager is the software application on the PC to use the Main Unit. The software operating on Microsoft Windows Series OS enables services including SMS, GPS, and Phonebook. The Main Unit and user's PC is connected with USB port and DTE port.



MU Manager's functional facilities are described below.

NO	Division	Function	Description			
		Signal Tracking	Display GPS signal status with bar graph			
	1 GPS Manager	Position Tracking	Transferring the information of current location to center			
1		Location Tracking (Waypoint Tracking)	Display the Direction / Distance / Speed from current location to destination			
		Way Point	Show the user's current position. Save or delete the way points			
	SWS	New SMS	Send SMS (multi destination number supported) Search SMS in the inbox			
2 Manager		SMS List	Retrieve the received SMS from Main Unit show message list on PC. Manage sent/received messages			
		Phonebook List	Add, edit, delete, and search Phonebook.			
3	Phone	Group Info	Manage telephone number groups			
5	Book	Phonebook Copy	Copy/Move the phonebook in the SIM and phonebook in a PC			
4	SSAS Manager	SSAS Setting	Enter an SSAS call center Transmit an SSAS message and review created messages			
		User information	User's information data base.			
		Serial option	Set up serial COM port for the connection between PC and Main Unit.			
_		Port setting	Select the serial COM port			
5	Tool	Position Report	Setting the option related to Position report			
		Location Tracking	Setting the option related to Location tracking			
		SMS	Setting SMS service parameter			
6	Connect		Connect to the MU via the communications port			
7	About		Display the information of program			

This product operates normally in the following environments.

- Microsoft Windows 2000 Service Pack 4
- Microsoft Windows XP Service Pack 2
- Microsoft Windows 2003
- Microsoft Windows Vista

<u>H/W</u>

- Pentium III or higher (or Pentium-compatible) CPU
- Minimum system memory of 128MB





6.2. Installation

6.2.1. USB Driver Installation

A USB port or DTE port is used to connect the Main Unit with a PC. To use a USB port, the USB driver must first be installed.

- 1. Insert the Utility CD in the PC.
- 2. After the Install Wizard runs automatically, select USB Driver.



3. The following message appears upon successful USB driver installation.



6.2.2. Program Installation

To use the Main Unit Manager, the program must be installed on the PC. Installation procedures are as follows.

- 1. Insert the Utility CD in the PC.
- 2. After the Install Wizard runs automatically, select Install. (refer to the above image)
- 3. The program installation begins, and the installation process is executed in sequence.



6.2.3. Program Uninstallation

The uninstallation procedures for the Main Unit Manager are as follows.

1. Start \rightarrow Main Unit Manager \rightarrow select Uninstall

🖬 Main Unit Manager	•	🛄 Main Unit Manager
		🔣 Uninstall

Or, the following can be done to remove the Main Unit Manager.

1. Control Panel \rightarrow Add/Remove Programs \rightarrow select Main Unit Manager

	.		
<u> </u>	Main Unit Manager	Size	<u>6.86MB</u>
	Click here for support information.	Used	<u>frequently</u>
		Last Used On	7/30/2007
	To change this program or remove it from your computer, click Change/Remove.	Chang	ge/Remove





6.3. Registration

To use the Main Unit Manager program, the user registration must first be completed.

-	-	Registration
	= 10	D
	# P	Password
	# P	Password Confirm
	== N	lame
	= v	/oice Number
	= v	lessel Name
		OK Cancel
		Constraints
ID		alphabet/digit/length(16)
Password		alphabet/digit/length(12)
Name		alphabet/space/length(30)
Voice Number		digit only, "+" input possible
Vessel Name		alphabet/digit/space/length(60)

6.4. Login

The user must use his/her registered ID and password to log into the program. Checking the "Remember Me" box saves the ID and password so that the user does not have to enter them again.



6.5. Menu Bar Functions

There are three functions included in the menu bar of the Main Unit Manager software.



6.5.1. Tool

The tool offers setting functions (user information & Serial Setting, GPS Setting, SMS Setting). The following image shows the function.

User Information

You can input your basic information in the User Information tab. When the user inputs the registered ID and Name, the Voice Number and Vessel Name show up below.

User Difernation Senal Option Postion Report Location Tracking 5945	Deer Information ID 1 12.11 Name 1 (multis) Voice Number 1 (20.1312)4
	Vessel Name : Incl





Serial Option

In Serial Option tab, you can select the serial port number for connection between Main Unit Manager and the Main Unit.



Position Report

In Position Report tab, you can set the options used on GPS Manager Menu.

User Information	# Position Report		
Serial Option	Duration :	5	miti
Position Report	Send Format :	Test	(Position Report Only)
Location Tracking SHS	Center 10 :		
	Carton F.Mali		
	Constant of		

Options	Description
Duration	Set the repeating cycle of Position Report
Send Format	Set the SMS format (TEXT or E-MAIL)
Center ID	Set the destination number of SMS receiving center
Center E-mail	Set the address of SMS receiving Email

Location Tracking

In Location Tracking tab, you can set the options used on GPS Manager Menu.

 User Information 	= Location Tracking
 Serial Option Position Report 	Duration : Sec
Location Tracking	Save duration : 1 🕑 hour
• SM5	Unit : Km/h
	Direction : Angle

Options	Description
Duration	Set the repeating cycle of Location Tracking
Save Duration	Set the repeating cycle of Save Location Tracking at Database
Unit	Set the unit of Speed (Km/h or Knots)
Direction	Set the direction (Degree or Time)

<u>SMS</u>

In SMS tab, you can set the options applied on SMS Manager Menu.





User Information	± \$45		
Position Report	Save Sent Message :	No	
SH5	Send Format :	Text	

Options	Description
Save Sent Message	Select whether to save the Sent message on transmitting SMS
Delivery Report	Select whether to confirm the Delivery Report through SMS on transmitting SMS
Send Format	SMS format (TEXT or E-MAIL)

6.5.2. Connect

Select Connection (or Disconnection) between the Main Unit and PC.



If the Main Unit and PC program are connected successful, the icon turns on blue color which means it is activated, otherwise it remains gray (or can be black).



Disconnection Status

6.5.3. About

This shows the version information of MU Manager Program.



6.6. GPS Manager

6.6.1. Position Report

The Position Report transfers the current information of GPS location in an interval set on the Monitoring Center. The status of GPS signals is displayed on the screen with a graph.







Part		Function Description		
Function	Start	Transmit the information of current location by SMS.		
Buttons	History	Save and display the progressive content of the Position		
	-	Report.		
Position	Duration	Set the renewal time of GPS location information.		
Report Status Display the function selection status of the Positi		Display the function selection status of the Position Report.		
Setting	Send Format	Select the SMS format.		
	Message Type	Transmitting Message Type (Alert, PT, Test)		
	Center ID	Phone number of SMS receiving center		
	Center E-Mail	E-mail address of SMS receiving center		
	Vessel Name	Vessel Name		
	Start Time	Position report start time		

Note: You can use various options related to the Position Report in the Tools option in the Position Report menu. The Center ID and Center E-Mail spaces are empty by default and must be filled in prior to use.





6.6.2. Location Tracking

Location Tracking is displayed on Direction, Distance and Speed from current location to destination.



	Description
Select Way Point	Select the destination.
Speed	Display the current speed (unit: knots or Km/h).
Direction	Display the current direction of the vessel by hour based on the destination
Angle	Display the current direction of vessel by angle based on the destination.
Distance	Remaining distance to destination.
Current Latitude	Display the current latitude.
Current Longitude	Display the current longitude.
Current Altitude	Display the current altitude.
Current Duration	Display the current GPS assessment cycle.

6.6.3. Waypoint

Save the information of the current location on the database in the PC. The selected waypoint on Location Tracking is saved here.





GPS M GPS Pos Latitude Longitue	anager > way puin sition / Way Point ; de° ' de° '	* N 💌 * E 💌	Altitude Acquire GPS	m Clear
Way Po Way Po ay Point	int Nameint Search		Save Search Se Retrieve Data	end As SMS
No	Way Point Name	Latitude	Longitude	Alt

	Description
Acquire GPS	Acquire the current position.
Clear	Delete data.
Send As SMS	Send the acquired current position by SMS.
Save	Save the current position on PC.
Search	Search the information of registered GPS information by name.
Retrieve Data	Retrieve GPS position data from PC.
Delete	Delete the selected Way Point from list.

6.7. SMS Manager

6.7.1. New SMS

<u>Send Message</u> With New SMS, you can write and transfer SMS messages. Check the limitation of bytes for input from Byte number in the Edit message window.





SMS N	Manager > New	SMS		
			HHT Number	
	· ·		Phone Book	Last Dialed Call
		_	Group List	Delete All
		_	Name	
Inbox as	0 / 140 bytes	Clear	SIM Capacity Remain	0/30
No	Received Time	Phone Number	Conter	nts
Save N	Number Copy	to PC	Forward	Reply Delete

Part	Function Description		
	HHT Number	Enter the destination number.	
Receive	E-Mail Addr	Enter the destination e-mail address. (Switch between HHT Number and E-mail Address based on the set SMS Format.)	
	Phonebook	Display the phone number data saved in PC or SIM card. Selected phone number or e-mail address is included to the outgoing list	
	Last Dialed Call	Save five phone numbers of previous SMS calls.	
	Group List	Select a group to send SMS messages.	
	Number List	Send a message to multiple destination numbers.	
	Delete All	Delete the destination number from the number list.	
SIM Capacity Remain		Display SMS storage capacity of the SIM card.	
	SEND	Send a message.	
Edit Window	CLEAR	Clear everything displayed on the message window and number window.	

<u>Received Message List</u> You can search messages conveniently and delete the message manually from this window. You can also check the received messages on the list. To read a message, select the message you want on the list and then double-click it.







Part	Function Description
Save Number	Save the sender's phone number.
Copy to PC	Save the received message in PC.
Forward	Forward the received message to another destination.
Reply	Send a reply to the sender.
Delete	Delete the selected message.

6.7.2. SMS List

The SMS List saves the messages sent or received on PC.

nt Mes	sage		Delete
No	Sent Time	To	Contents
box as	database		Delete
box as No	database Received Time	Phone Number	Contents
box as No	database Received Time	Phone Number	Contents
box as (No	database Received Time	Phone Number	Contents
box as No	database Received Time	Phone Number	Contents
box as No	database Received Time	Phone Number	Contents
box as No	database Received Time	Phone Number	Contents
box as	database Received Time	Phone Number	Contents





6.8. Phonebook Manager

6.8.1. Phonebook List

With Phonebook, you can easily input, modify, delete or search addresses in PC directly. The Phonebook List also displays the phone numbers in the SIM card.

PHONE BOOK MANAGER > PHONE	BOOK LIST
Registration	Search
Name	 Search by Name
Group	Search by Phone Number
Phone Number	Search by E-Mail Address
E-Mail Address	
Save Delete Modify Clea	ar Search
Number List	
No Name	SIM Phone Book Remain 000 / 150
	Phone Book Informations
	Name : Unknown
	Phone Number : Unknown
	Group : Unknown
	E-Mail : Unknown

Part	Function Description	
	Display the maximum phonebook capacity and the quantity of phone	
SIM Phonebook	numbers provided by the SIM card.	
Capacity	Display the information on the Phonebook information when selecting a	
	name from the list.	
Save	Save the information entered during registration to the phonebook.	
Delete	Delete the selected information.	
Modify	Modify the selected information.	
Clear	Initialize the contents.	
Search	Search based on the input condition (Name, Phone number, E-Mail).	





6.8.2. Group Info

Manage the group information of the phonebook.



Part	Function Description
Add	Create a new group.
Modify	Modify the selected group.
Delete	Delete the selected group.

6.8.3. Phonebook Copy

Copy a phonebook from a PC to an SIM card, or vice versa.



Part	Function Description
Copy to	Select either the SIM card or PC to save data.
Copy All	Copy all the data in the list to the set location.
Copy the selected	Copy the selected phone number in the list to the set location.
SIM Phonebook	Display the capacity of the used and free space in the SIM card
Delete	Delete the contents of the SIM card.





6.9. SSAS Manager

Set up the Center ID and Send Format for sending SMS and test the message in case of emergency.

Main Unit Manager	
Direct 🖓 Comment	Rf Abash
Main Unit Manager	(SIAS MANAGER > SSAS BETTING) STAT CODAS
GPS Manager	Center Number
Position Report	
Way Point	E44a
SHS Hanager	
New SNS SNS List	View Message Test SSAS
Plionebook Manager/	
Phonebook List Group John	
Phonebook Copy	Ship Security Alart System
SSAS Manager	
read block	
A	
EDUIT	
	Function Description

Part	Function Description
Save	Save the entered Center ID and SMS Format.
View Message	Check the test message.
Test SSAS	Send a test message.





7. Troubleshooting 7.1. Warnings

7.1. VVallill

Servicing

ThurayaMarine does not contain consumer serviceable components. You are advised not to carry out any kind of troubleshooting. In case you face any problems, contact the nearest service center. Only authorized service personnel can repair the equipment.

<u>Antenna</u>

Use only ThurayaMarine antenna and cable that have been specifically designed for your ThurayaMarine.

Unauthorized antennas, cables and cable length modifications, or attachments could damage ThurayaMarine and may violate the relevant regulations, causing loss of performance and radio frequency (RF) energy above the recommended limits. If your ThurayaMarine antenna gets damaged, please take it to an authorized Service Provider.

<u>General</u>

- Do not place ThurayaMarine in a wet area.
- Do not expose ThurayaMarine to temperatures greater than +55°C Celsius or less than -5°C Celsius.
- Do not expose ThurayaMarine to moisture, dust etc.
- Avoid placing ThurayaMarine close to open flames or any source of heat.
- Do not expose ThurayaMarine to direct sunlight.
- Do not disassemble ThurayaMarine; this will void your warranty.

7.2. Care and Maintenance

ThurayaMarine is a product of superior design and craftsmanship and should be treated with care. The following suggestions will help you to fulfill any warranty obligations and allow you to enjoy this product for many years.

- Do not store it in hot areas. High temperatures can shorten the life of electronic devices, damage batteries, and warp or melt certain plastics.
- Do not attempt to open it. Mishandling of the device may damage it.
- Do not drop, apply pressure or shake it. Rough handling can break internal circuit boards.
- Do not use chemicals, cleaning solvents, or strong detergents to clean it. Wipe it smoothly with a soft cloth.
- Do not paint it. Paint can clog the device's moving parts and prevent proper operation.
- Use only the supplied or approved replacement antenna. Unauthorized antennas, modifications or attachments could damage the ThurayaMarine and may violate regulations regarding radio devices.

If the ThurayaMarine, handset, battery, charger, or any accessory does not function properly, take it to your nearest authorized service center. The personnel there will assist you, and if necessary, arrange for service.





7.3. Common Problems

- There is not enough satellite signal strength (indicated in ThrayaMarine display). Connections are not proper and firm. •
- •
- The SIM card may not be installed properly or it may be expired.

Problem	Solution
	Check the satellite signal level of the main unit.
	Check the PIN code settings using handset.
	If the PIN code is set correctly, connect the external phone
	to the RJ-11 port and try calling.
Cannot make a voice call using	If you cannot make a call properly using external phone, try
external phone	calling by using handset.
	If a call using handset is normal, check the connection
	status of the RJ-11 port.
	If you cannot check the PIN code setting or make a voice
	call using handset, register the handset with the main unit
	again.
	Check the satellite signal level of the main unit.
Cannot send/receive fax by fax	Check the PIN code settings using handset.
machine	Check the connection status of the RJ-11 port.
machine	Check if the fax machine is switched on.
	Check the fax machine's "Auto response mode".
	Check if ThurayaMarine's USB driver is installed in the PC
Cannot send/receive fax by PC	correctly.
	Check if PC Fax software is installed in the PC correctly.
	Check if the settings of PC Fax software are valid.
	Check the satellite signal level of the main unit and the
Cannot make a voice call using	handset.
handset	Check if the handset is "Out of range".
handset	If the handset is within the service range, register the
	handset with the main unit.
Failed in initialization	Confirm that the SIM card is a normal state.
Cannot charge battery despite long charging time	Replace the handset battery.





8. Warranty

Limited Warranty

ThurayaMarine (Main Unit & Handset)

This Limited Warranty is provided to the original purchaser of ThurayaMarine. This Limited Warranty is non-transferable in nature.

Warranty Coverage and Service

Thuraya warrants all new ThurayaMarine to be free from defects in material and workmanship under normal use and wear, for a period of one year (1 year) from the date of purchase.

If under normal use the product becomes defective in materials or workmanship and is returned to a Thuraya Authorized Service Center during the warranty period, the product will be repaired or replaced at no charge to the purchaser. The purchaser shall be required to provide reasonable proof of the date of purchase of the product.

Repair or replacement of the Product is subject to Thuraya System Design's sole and exclusive option. Reconditioned replacement components, parts, units, or materials may be used if the Product is repaired or replaced. Cost incurred in the removal, de-installation or reinstallation of the Product are not covered.

This Limited Warranty will be void in its entirety if the Product is serviced by anyone other than Thuraya or a Thuraya Authorized Service Center.

The User's sole and exclusive solution will be repair or replacement of the product. Thuraya neither assumes nor authorizes any Authorized Service Center or any other person or entity to assume any other obligation or liability beyond that which has been specified in this Limited Warranty.

Limitation of Liability

All liability and obligations of Thuraya under this Limited Warranty shall terminate on the completion of the warranty period of one year, calculated from the date of purchase of the product by the original purchaser. The purchaser shall fill in the warranty card attached in the User's manual and get it duly stamped and signed by the Dealer as proof of purchase.

This limited warranty sets forth the entire responsibility of Thuraya with respect to the product.

There are no other liabilities of Thuraya arising from the sale of the Product whether based on warranty, contract, negligence or any other theories of liability.

This Warranty does not cover the following

Thuraya will not be responsible for products or accessories not manufactured or provided by Thuraya. Thuraya will not take responsibility for the failures caused by misuse, accident, alteration or neglect, removal or repair, neglect or failure to follow instructions as to installation and maintenance, fire, flood or other natural calamities.

Thuraya will not guarantee the performance of the Product when used in combination with other products or equipment.





9. ThurayaMarine Specifications 9.1. Main Unit Specifications The main specifications of the Main Unit are as follows.

Item		Specification	Function
External	TEL/FAX	RJ-45, 8P2C,	Support External telephone & G3 fax connection.
Interface		IP66	
	USB	B-type, IP66	Support PC connection.
	DTE	D-SUB 9, IP66	Support External device connection.
	I/O	4pin I/O, IP66	Support External ERSB connection.
	SAT	TNC (F), IP66	Support Satellite antenna connection.
	GPS	SMA (F), IP66	Support GPS antenna connection.
	DC IN	DC Jack, IP66	DC input port.
	SIM	SIM Connector	Insert SIM connector.
Display	LCD	128x64 pixel	Display the status of MU.
	Power	Red LED	Display the power on/off status.
Keypad	Power	Push button	Main power on/off switch
	Distress	Push button	Emergency on/off switch
	OK/Menu	Touch button	Select a menu function.
	Cancel/Back	Touch button	Cancel a menu function.
	Up	Touch button	Change a menu item.
	Down	Touch button	Change a menu item.
Key lock	SIM card	Key locker	Lock the SIM connector using key.
General	Size	HxWxD	260mm(H) x 220mm(W) x 55mm(D)
	Material	Case	Aluminum Die-casting
	Operation Temperature		-5°C~+55°C
	Input DC Voltage		10~34V DC
	AC/DC	Input	100~240Vac, 50/60Hz
	adapter	Output	12Vdc, 5A (60W)
Type Approval	Safety	·	CE





9.2. Handset Specifications The main specifications of the Handset are as follows.

ltem		Specification	Function
External Interface	Receiver		Audio receiver
	MIC		Audio mike
	Speaker		Audio speaker for speakerphone
	Ear jack	Speaker & MIC	Support normal ear jack connection
	DC IN	DC Jack, IP66	DC input port
Display	LCD	16 Char. x 4 Line	Display the status of Handset
Keypad	Power	Tack switch	Main power on/off button
	F1/F2/F3	Tact switch	Flexible functional key button
	Send	Tact switch	Call start button
	End	Tack switch	Call stop & cancel button
	Navigation	4 way (Tact)	Up/Down & Short key button
	Distress	Tact switch	Emergency on/off switch
	Number	Touch button	Number key
	INT	Touch button	Intercom function key
	SPK	Touch button	Speakerphone function selection key
General	Size	HxWxD	137mm(H) x 53mm(W) x 24mm(D)
	Material	Case	ABS
	Operation Temperature		-5°C~+55°C
	Input Voltage		5V DC
	AC/DC	Input	100~240Vac, 50/60Hz
	adapter	Output	5Vdc, 1A (5W)
Туре	Safety		CE
Approval			