

VHF 7110

D u a l S t a t i o n R a d i o

Quick Start Guide *and Installation Supplement*



NAVMAN

FCC Statement

Note: 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 normal 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 output on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced technician for help.
- A shielded cable must be used when connecting a peripheral to the serial ports.

Industry Canada

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.

It is the owner's sole responsibility to install and use the instrument in such a manner that will not cause accidents, personal injury or property damage.

Navman New Zealand disclaims all liability for any use of this product in a way that may cause accidents, damage or that may violate the law.

Governing Language: This statement, any instruction manuals, user guides and other information relating to the product (Documentation) may be translated to, or has been translated from, another language (Translation). In the event of any conflict between any Translation of Documentation, the English language version of the Documentation will be the official version of the Documentation.

This manual represents the Navman VHF 7110 at the time of printing. Navman New Zealand reserves the right to make changes to specifications without notice.

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Please check out your model. There are slight variations in the keys and some features are not available on every model.

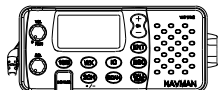
This manual relates to the following models:

- VHF 7110US
- VHF 7110EU

This Quick Start Guide and Installation Supplement for the VHF 7110 is to be used in conjunction with the Navman VHF 7100 Owner's Manual.

For further information on these and other options, including radio setup and DSC options, troubleshooting, and channel charts, refer to the Navman VHF 7100 Owner's Manual.

Volume and Power







Base Unit

- Turn the VOL knob clockwise to power on.
- Continue to turn until a comfortable volume is reached on the base speaker.

Note: this switch controls the power to both the base unit and second station handset.

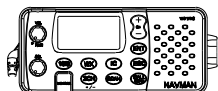


Handset

You can adjust the volume on your handset with the VOL  and  keys on the righthand side of the handset. Hold down VOL  or  to rapidly increase or decrease the volume or press quickly to step through the eight (8) different volume levels. This will not change the volume on the base speaker.



Squelch







Base Unit

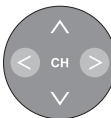
- Turn the SQL knob fully counterclockwise so that random noise is heard.
- Turn SQL slowly clockwise until the random noise disappears.
- Make another 1/4 turn clockwise for best reception in normal open sea conditions.

In areas of high noise (eg close to large cities) reception may improve if sensitivity is reduced. Try turning SQL slowly clockwise or use the LOCAL setting (see the Owner's Manual).

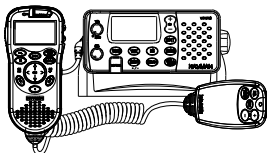


Handset

You can also adjust the squelch with the  and  keys on the handset. Press  or  to step through the eight (8) different squelch settings or hold down to rapidly change the squelch. The squelch setting on the base unit will temporarily change to match. When you put the handset back ON hook, the base unit squelch setting takes precedence again.



Select the Radio Setup OR DSC Call Menu

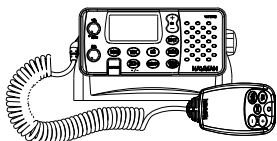


Base Unit, Microphone and Handset

- Press **CALL MENU** on the base unit or handset to show the DSC Call Menu.
- Hold down **CALL MENU** on the base unit or handset to show the Radio Setup Menu.

**CALL
MENU**

Set Backlighting Levels



Base Unit and Microphone

- Hold down **CALL MENU**.
- Use CH **+** or CH **-** to scroll through the menu listing to BACKLIGHT.
- Press **ENT**.
- Press CH **+** or CH **-** to select the desired backlight level. There are eight (8) levels.
- Press **ENT** to store the setting.

**CALL
MENU**

MENU SELECT
BUDDY LIST
LOCAL/DIST
> BACKLIGHT



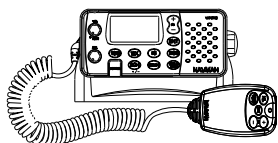
Handset

- Hold down **CALL MENU**.
- Press **▲** or **▼** to scroll through the menu listing to BACKLIGHT.
- Press **ENT**.
- Press **▲** or **▼** to select the desired backlight level. There are eight (8) levels.
- Press **ENT** to store the setting.

**CALL
MENU**

MENU SELECT
BUDDY LIST
LOCAL/DIST
> BACKLIGHT

Set Contrast Levels



Base Unit and Microphone

- Hold down **CALL MENU**.
- Use CH **+** or CH **-** to scroll through the menu listing to CONTRAST.
- Press **ENT**.
- Press CH **+** or CH **-** to select the desired contrast level. There are eight (8) levels.
- Press **ENT** to store the setting.

**CALL
MENU**

MENU SELECT
LOCAL/DIST
BACKLIGHT
> CONTRAST



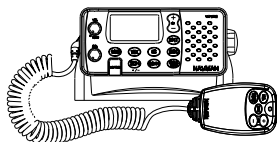
Handset

- Hold down **CALL MENU**.
- Use **▲** or **▼** to scroll through the menu listing to CONTRAST.
- Press **ENT**.
- Press **▲** or **▼** to select the desired contrast level. There are eight (8) levels.
- Press **ENT** to store the setting.

**CALL
MENU**

MENU SELECT
LOCAL/DIST
BACKLIGHT
> CONTRAST

Entering menu data correcting errors



Base Unit and Microphone

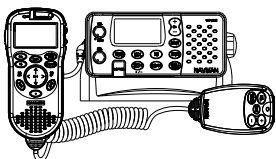
- Only four (4) menu items can be displayed on the LCD at any one time. Press CH **+** or CH **-** to scroll through the menu.
- Press **ESC** to return to the previous menu screen without saving changes OR press **ENT** to confirm changes.
- Press CH **+** or CH **-** to step through the alphabet and numbers. Hold down to scroll rapidly to the desired item.
- To correct errors, press CH **-** then select the < backup character on the display. Then press **ENT** to backup one space at a time.



Handset

- Only four menu items can be displayed on the LCD at any one time. Press **▲** or **▼** to scroll through the menu.
- Press **ESC** to return to the previous menu screen without saving changes OR press **ENT** to confirm changes.
- Press **▲** or **▼** to step through the alphabet and numbers. Hold down to scroll rapidly to the desired item.
- To correct errors, press **▼** then select the < backup character on the display. Then press **ENT** to backup one space at a time.

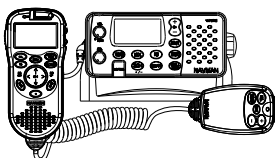
How the base unit microphone and the second station handset work together








Base Unit, Microphone
and Handset

- Neither item works when both are ON hook, but you can hear audio from the handset speaker and adjust the handset volume.
- To use one item when OFF hook, the other must be ON hook.
- If both items are OFF hook, only the base unit microphone works.
- In INTERCOM mode ONLY, both items work OFF hook.

High and Low Power



Base Unit, Microphone
and Handset

- On the VHF 7110 US, press  on the handset or  on the microphone to toggle between HI (High) and LO (Low) (25W or 1W) transmission power for the entire channel bank. A beep sounds and the selection is shown on the LCD.
- On the VHF 7110 EU, press .
- If HI power cannot be used with a particular channel, the annunciator automatically goes to LO power. If you press  or , a warning beep sounds.

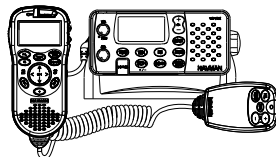
H/L
IC

VHF 7110
US




H/L

VHF 7110
EU

Priority Channel



Base Unit, Microphone
and Handset

- Channel 16 and HI power are automatically selected at power up.
- On the VHF 7110 US, the priority channel can be set to Channel 09. Hold down  on the handset or the base unit until Channel 09 appears on the LCD.
- If you are on a working channel and want to check the priority channel for traffic, just press  or  on the handset or the base unit. Press again to recall your working channel.

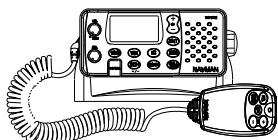
16/9

VHF 7110
US

16

VHF 7110
EU

Channel Select



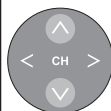
Base Unit and Microphone

- The channel is shown in large numbers on the LCD.
- To step through the channels one at a time, press CH \oplus or CH \ominus to display each channel.
- To change channels rapidly, hold down CH \oplus or CH \ominus to scroll through the channels.

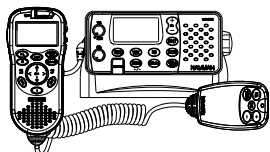


Handset

- The channel is shown in large numbers on the LCD.
- To step through the channels one at a time, press \uparrow or \downarrow to display each channel.
- To change channels rapidly, hold down \uparrow or \downarrow on the handset to scroll through the channels.



Select a Favourite Channel

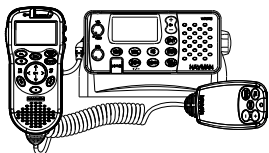


Base Unit, Microphone and Handset

- Press **3CH** to toggle through each of the three favourite channels until the desired channel is shown.

3CH

Store 3 Favourite Channels

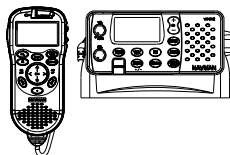


Base Unit, Microphone and Handset

- Select the channel.
- Hold down **3CH** to store this channel as your first favourite channel, CH1.
- Repeat to store your second favourite channel as CH2.
- Repeat again to store your third favourite channel as CH3.

3CH

Scan/Stop Scanning a Favourite Channel

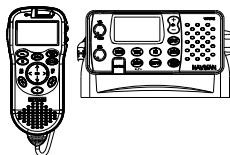


Base Unit and Handset

- Select the favourite channel.
- Press **SCAN** to scan the favourite channel and the priority channel in DUAL or TRI watch mode.
- Press **SCAN** again to stop.

SCAN

Scan all 3 Favourite Channels



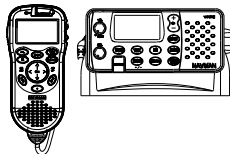
Base Unit and Handset

- Press **3CH**.
- Hold down **SCAN** to scan all three favourite channels and the priority channel.
- Press **SCAN** again to stop.

3CH

SCAN

Delete a Favourite Channel

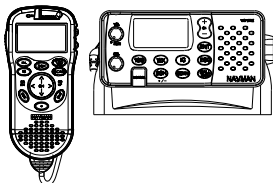


Base Unit and Handset

- Select the favourite channel.
- Hold down **3CH** until the setting (CH1, CH2 or CH3) disappears off the LCD.

3CH

Select ALL SCAN mode

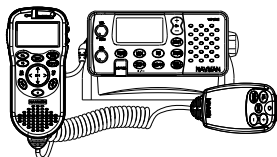


Base Unit and Handset

- Hold down **SCAN** to start scanning all channels (and the priority channel every 1.8 seconds).
NOTE: In Europe, scanning functions may be limited or blocked in some countries.
When a signal is received, scanning stops at that channel. Press **ENT** to skip over an 'always busy' channel and resume scanning.
- Press **SCAN** to stop at the current channel.

SCAN

Use the Intercom



Base Unit, Microphone
and Handset

- On the VHF 7110 US, hold down **H/L IC** to enter INTERCOM mode. This disables the radio receiver except for incoming DSC calls. The intercom calls the other handset.
- On the VHF 7110 EU, press **IC**.
- Press PTT when invited.
- Press **ESC** to exit the INTERCOM mode, or place the handset back ON hook.

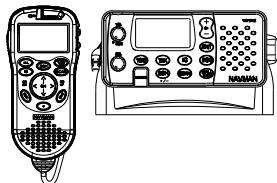
**H/L
IC**

VHF 7110 US

H/L

VHF 7110 EU

Select the Channel Bank (7110 US only)



Base Unit and Handset

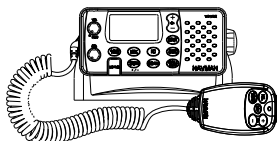
1. Hold down **CALL MENU** on the base unit or handset to show the Radio Setup Menu.
2. Press **ENT** to select UIC.
3. Scroll to the channel bank you want (USA, International, or Canadian), then press **ENT** to select it.

**CALL
MENU**

RADIO SETUP
> UIC
RING VOLUME
INT SPEAKER

UIC
> USA
INT'L
CANADA

Making an Individual Call



Base Unit and Microphone

- Hold down **CALL MENU** until the menu appears on the LCD.
- Use CH **+** or CH **-** to scroll through the menu listing to **INDIVIDUAL** then press **ENT** to show your buddy list.
- Scroll through the buddy list to the buddy that you want to call, then press **ENT**.
- Select the working channel and press **ENT**.
- Press **ENT** again to send the call. The call will be acknowledged when it is received and the working channel is automatically selected.
- Press PTT to talk and release PTT to receive a reply.

**CALL
MENU**

DSC CALL
> INDIVIDUAL
LAST CALL
GROUP

INDIVIDUAL
MANUAL NEW
BUDDY 1
> BUDDY 2

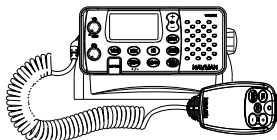
BUDDY 2
INDIVIDUAL
ROUTINE
> SET CHANNEL



Handset

- Hold down **CALL MENU** until the menu appears on the LCD.
- Use **▲** or **▼** to scroll through the menu listing to **INDIVIDUAL** then press **ENT** to show your buddy list.
- Scroll through the buddy list to the buddy that you want to call, then press **ENT**.
- Select the working channel and press **ENT**.
- Press **ENT** again to send the call. The call will be acknowledged when it is received and the working channel is automatically selected.
- Press PTT to talk and release PTT to receive a reply.

Setting Up a Buddy List



Base Unit and Microphone

Use this to alphanumerically store a maximum of 20 favourite names and their associated MMSIDs for DSC calls.

- Hold down **CALL MENU** until the menu appears on the LCD.
- Press **ENT** to show the buddy list, then press **ENT** again.
- Enter the buddy name (maximum of 12 characters) and the MMSID using **CH +** or **CH -** (NOTE: Hold down the keys to scroll rapidly through the sequences.)
- Press **ENT** when you are finished, then press **ENT** again to store the new buddy name. The new buddy name appears immediately in your buddy list.
- Repeat the procedure to store another buddy name.



MENU SELECT
> BUDDY LIST
LOCAL/DIST
BACKLIGHT

BUDDY LIST
> MANUAL NEW

ENTER NAME

> ENTER MMSID

NAME
123456789
> STORE?
CANCEL

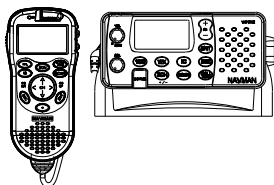


Base Unit and Microphone

Use this to alphanumerically store a maximum of 20 favourite names and their associated MMSIDs for DSC calls.

- Hold down **CALL MENU** until the menu appears on the LCD.
- Press **ENT** to show the buddy list, then press **ENT** again.
- Enter the buddy name (maximum of 12 characters) and the MMSID using **▲** or **▼** (NOTE: Hold down the keys to scroll rapidly through the sequences.)
- Press **ENT** when you are finished, then press **ENT** again to store the new buddy name. The new buddy name appears immediately in your buddy list.
- Repeat the procedure to store another buddy name.

Making a DSC Distress Call



Base Unit and Handset

- Open the red DISTRESS cover.
If time is available to specify the nature of the distress, press and release the DISTRESS key to show the categories. Scroll to your category.
- Hold down the DISTRESS key for about 3 seconds. The LCD starts to flash and beep and warns that a distress call is about to be sent unless it is cancelled.

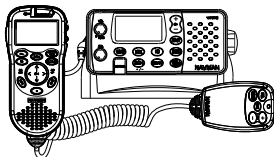
To cancel, press **ESC** or CH **16**. Otherwise, the call is sent and then repeated automatically until an acknowledgement is received or the call is cancelled.



UNDEFINED
FIRE
FLOODING
COLLISION
GROUNDING
LISTING
SINKING
ADRIFT
ABANDONING
PIRACY
OVERBOARD

DISTRESS
AUTO TX
WAITING ACK
> CANCEL

Receiving a Distress Call from another vessel



Base Unit, Microphone and Handset

The Distress Alarm tone sounds and the VHF 7110 automatically tunes to CH16.

- Press any key to stop the alarm.
- Make voice contact on CH16 and lend assistance if needed.

Position and time data and the vessel's MMSID are shown on the LCD, and the data is recorded in the DISTRESS CALL LOG.

DISTRESS
ID123456789
PIRACY
12:45PM LOC

Receiving a Distress Relay from another vessel

An alarm sounds. Maintain a listening watch on CH16 and standby to lend assistance.

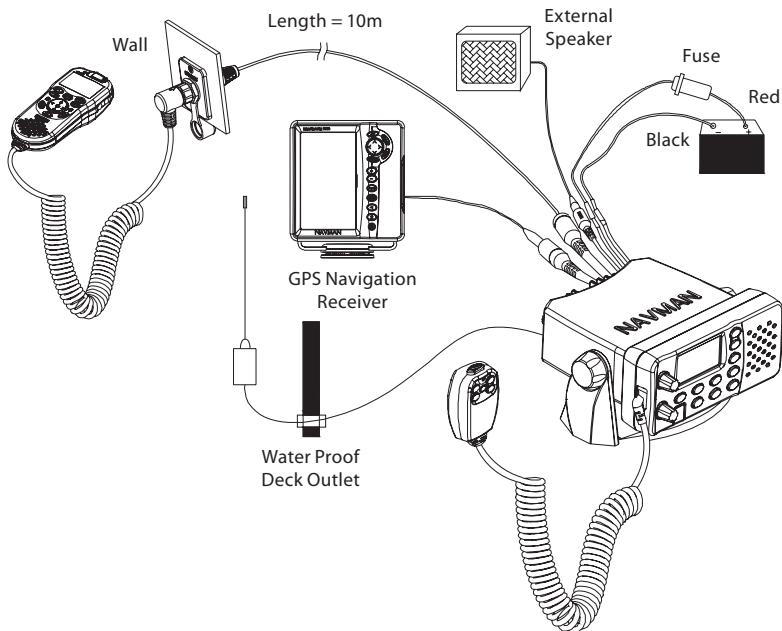
Receiving a Distress Acknowledgement from a coast station

An alarm sounds. Maintain a listening watch on CH16 and standby to lend assistance.

For further information on these and other options, including radio setup and DSC options, troubleshooting, and channel charts, refer to the Navman VHF 7100 Owner's Manual.

Navman VHF 7110 Installation Supplement

This Installation Supplement is designed to be read with the Navman VHF RADIO INSTALLATION SHEET for 7000, 7100US, 7200US, 7100EU, 7200EU. It provides additional information that is specific to your VHF 7110 radio.

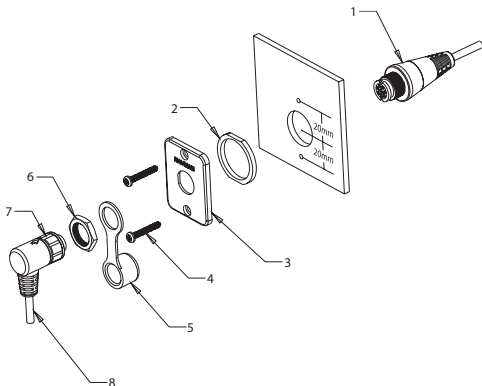


Checklist - The following extra items are supplied in the VHF 7110 box:

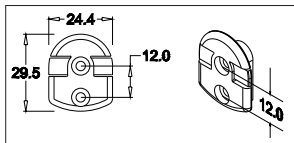
- 1 10m connection cable
- 2 Rubber cushion
- 3 Handset wallplate
- 4 Two screws
- 5 Protective cap
- 6 Hexagonal nut
- 7 Locking nut
- 8 Handset cable

Also supplied, but not shown:

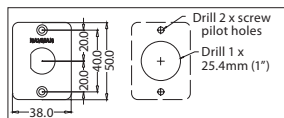
- Two self-tapping screws
- Two flat screws
- Two plain washers
- Two spring washers
- Two nuts
- Handset bulkhead mount



Handset and Microphone Bulkhead mount



Handset Wallplate

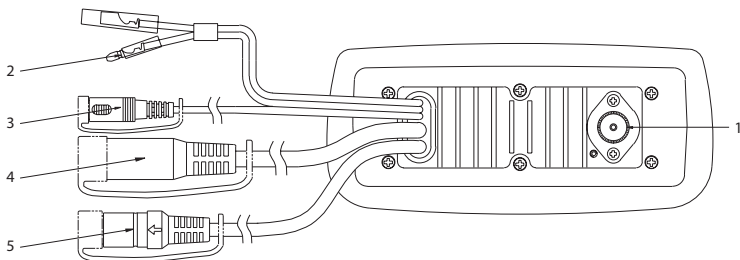


Installation

Before doing any cutting or drilling, check that:

- The intended location for the handset wallplate has reasonable access at the rear so that the 10m connection cable can be easily installed and accessed.
 - The 10m connection cable comfortably reaches from the base unit to the intended location for the handset wallplate.
 - The intended route for the 10m connection cable allows it to be secured to a bulkhead (or similar) along its length.
1. Install the base unit and the microphone bulkhead mount as described in the *Navman VHF RADIO INSTALLATION SHEET for 7000, 7100US, 7200US, 7100EU, 7200EU*.
 2. Drill the 25.4mm (1") hole through the bulkhead at your chosen location.
 3. Install the handset wallplate components in the order shown in the picture. Finger tighten the locking nut on the 3m handset cable to make a waterproof connection.
 4. Install the handset bulkhead mount on the bulkhead, using the screws, nuts and washers provided.

Connect the Radio Cables - Rear view of base unit



1. VHF Antenna connection. (Antenna is not supplied.)
2. Combined power and speaker cable. The end of the power cable splits in two:
BLACK. Earth. Connect to the (-) NEGATIVE battery terminal.
RED. Power. Connect to the (+) POSITIVE battery terminal. Check that a 10A fuse is installed on this power cable, close to the battery.
3. External speaker cable.
4. Handset connection cable.
5. GPS connector cable.

Wiring Details

In case a cable is cut accidentally the pinouts are shown here for information only.
Do not cut cables intentionally.

Cable	Pinout	Color
1 VHF Antenna		
2 Power	1. 13.6V DC +	Red (thick cable)
	2. 13.6V DC -	Black (thick cable)
3 External speaker	1. EXTERNAL SPK +	White (thin cable)
	2. EXTERNAL SPK -	Black (thin cable)
4 Handset connection	1. MIC	White
	2. Shielding core for MIC	Copper-colored
	3. SPEAKER	Black
	4. POWER	Red
	5. Tx D+	Yellow
5 GPS connector (pins used)	4. NMEA IN +	Yellow
	5. NMEA IN -	Green
	2. NMEA OUT +	Orange
	6. NMEA OUT -	Black

NORTH AMERICA

BNT - Marine Electronics
30 Sudbury Rd, Acton, MA 01720.
Toll Free: +1 866 628 6261
Fax: +1 978 897 8264
e-mail: sales@navmanusa.com
web: www.navman.com

OCEANIA

Australia

Navman Australia Pty. Limited
Suite 2, 408 Victoria Road
Gladesville, NSW 2111, Australia.
Ph: +61 2 9879 9000
Fax: +61 2 9879 9001
e-mail: sales@navman.com.au
web: www.navman.com

New Zealand

Absolute Marine Ltd.
Unit B, 138 Harris Road,
East Tamaki, Auckland.
Ph: +64 9 273 9773
Fax: +64 9 273 9099
e-mail: navman@absolutemarine.co.nz

Papua New Guinea

Lohberger Engineering,
Laves Road, Konedobu.
PO Box 810, Port Moresby.
Ph: +675 321 2122
Fax: +675 321 2704
e-mail: loheng@online.net.pg
web: www.lohberger.com.pg

LATIN AMERICA

Argentina

Costanera Uno S.A.
Av Pte Ramón S. Castillo y Calle 13
Ziv 1425 Buenos Aires, Argentina.
Ph: +54 11 4312 4545
Fax: +54 11 4312 5258
e-mail: purchase@costanerauno.com.ar
web: www.costanerauno.ar

Brazil

Equinautic Com Imp Exp de Equip
Nauticos Ltda.
Rua Ernesto Paiva, 139
Clube dos Jangadeiros
Porto Alegre - RS - Brasil
CEP: 91900-200.
Ph: +55 51 3268 6675
+55 51 3269 2975
Fax: +55 51 3268 1034
e-mail: equinautic@equinautic.com.br
web: www.equinautic.com.br

REALMARINE

Av Inf Dom Henrique s/nº - Loja 12
Marina da Glória - Rio de Janeiro - R.J.
Brasil
Cep: 2021-140
Ph: +55 21 3235-6222
Fax: +55 21 3235-6228
e-mail: vendas@realmarine.com.br
website: www.realmarine.com.br

Chile

Equimar
Manuel Rodriguez 27
Santiago, Chile.
Ph: +56 2 698 0055
Fax: +56 2 698 3765
e-mail: mmontecinos@equimar.cl
Mera Vennik
Colon 1148, Talcahuano,
4262798, Chile.
Ph: +56 41 541 752
Fax: +56 41 543 489
e-mail: meravennik@entel.chile.net

Mexico

Mercury Marine de Mexico
Anastasio Bustamante #76
Interior 6 Colonia Francisco Zarabia,
Zapapan, Jalisco, C.P. 45236 Mexico.
Ph: +52 33 3283 1030
Fax: +52 33 3283 1034
web: www.equinautic.com.br

Uruguay

Alvaro Burmudez, Nautica
Puerto del Buceo
11300 Montevideo, Uruguay.
Phone & Fax +59 82 628 6562
e-mail: alvaro@nautica.com.uy
web: www.nautica.com.uy

ASIA

China

Peaceful Marine Electronics Co. Ltd.
Guangzhou, Hong Kong, Dalian,
Qingdao, Shanghai
1701 Yanjiang Building
195 Yan Jiang Zhong Rd. 510115
Guangzhou, China.
Ph: +86 20 3869 8839
Fax: +86 20 3869 8780
e-mail: sales@peaceful-marine.com
web: www.peaceful-marine.com

India

Access India Overseas Pvt. Ltd.
A-98, Sector 21,
Noida - 201 301, India.
Ph: +91 120 244 2697
TeleFax: +91 120 253 7881
Mobile: +91 98115 04557
e-mail: vkpail@de3.vsnl.net.in
Esmario Export Enterprises
Block No. F-1, 3rd Floor, Surya Towers
Sardar Patel Rd, Secunderbad 500 003.
Ph: +91 40 2784 5163
Fax: +91 40 2784 0595
e-mail: gifeee@hd1.vsnl.net.in
web: www.esmaro.com

Korea

Kumhomarine Technology Co. Ltd.
#604-842, 2F, 1118-15, Janglim1-Dong,
Saha-Gu, Busan, Korea.
Ph: +82 51 293 8589
Fax: +82 51 265 8984
e-mail: info@kumhomarine.com
web: www.kumhomarine.com

Japan

PlusGain Inc.
1-A 324-3 Matunoki-Tyoo
Takayama-City, Gifu-Ken, Japan
Ph: +81 577 36-1263
Fax: +81 577 36-1296
email: info@plusgain.co.jp
web: www.plusgain.co.jp

Maldives

Maizan Electronics Pte. Ltd.
Henveyru, 08 Sounmagu.
Male', Maldives.
Mobile: +960 78 24 44
Ph: +960 32 32 11
Fax: +960 32 57 07
e-mail: ahmed@maizan.com.mv

Singapore and Malaysia, Brunei and Indonesia

RIQ PTE Ltd.
Blok 3007, 81 Ubi Road 1, #02-440,
Singapore 408701.
Ph: +65 6741 3723
Fax: +65 6741 3746
e-mail: email@riq.com.sg
web: www.riq.com.sg

Taiwan

Seafirst International Corporation
No. 281, Hou-An Road, Chien-Chen
Dist. Kaohsiung, Taiwan R.O.C.
Ph: +886 7 831 2688
Fax: +886 7 831 5001
e-mail: seefirst@seend.net.tw
web: www.seafirst.com.tw

Thailand

Thong Electronics (Thailand) Co. Ltd.
923/588 Ta Prong Road, Mahachai,
Muang, Samutsakorn 74000, Thailand.
Ph: +66 34 411 919
Fax: +66 34 422 919
e-mail: sales@thongelectronics.com
admins@thongelectronics.com
web: www.thongelectronics.com

Vietnam

HaiDang Co. Ltd.
763 Le Hong Phong St. Ward 12
District 10, Hochiminh City, Vietnam
Ph: +84 8 863 2159
Fax: +84 8 863 2524
e-mail: haidang-co@hcm.vnn.vn
web: www.haidangvn.com

MIDDLE EAST

United Arab Emirates Kuwait, Oman, Saudi Arabia, Bahrain and Qatar

Abdullah Moh'd Ibrahim Trading, opp
Creak Rd, Baniyas Road, Dubai.
Ph: +971 4 229 1195
Fax: +971 4 229 1198
e-mail: sales@amitdubai.com

Egypt

18 Abou El-Atheya St., via Abbas
Al-Akkad St.,
Nasr City, Cairo Egypt
Ph: +202 274 2911
+202 272 8493
Fax: +202 274 5219
e-mail: seet@interneteegypt.com

Lebanon

Balco Stores
Balco Building, Moutran Street,
Tripoli (via Beirut) - Lebanon
P.O. Box: 622.
Ph: +961 6 624 512
Fax: +961 6 628 211
e-mail: balco@cyberia.net.lb

AFRICA

South Africa

Pertec (Pty) Ltd (Coastal Division)
16 Paarden Eiland Road.
Paarden Eiland, 7405
PO Box 527,
Paarden Eiland, 7420
Cape Town, South Africa.
Ph: +27 21 508 4707
Fax: +27 21 508 4888
e-mail: info@kfa.co.za
web: www.pertec.co.za

EUROPE

Plastimo International
15, rue Ingénieur Verrière,
BP435,
56325 Lorient Cedex.
Ph: +33 2 97 87 36 36
Fax: +33 2 97 87 36 49
e-mail: plastimo@plastimo.fr
web: www.plastimo.fr

OTHER COUNTRIES IN EUROPE

Norway

ProNav AS
Fiskarvik Maritime Senter,
Hovlandsveien 52,
N-4370 Egersund, Norway.
Ph: +47 51 494 300
Fax: +47 51 492 100
e-mail: mail@pronav.no
web: www.pronav.no

Finland

Vator Oy
Puuskariin 8,
00850 Helsinki, Finland.
Ph: +35 8 040 300 7212
Fax: +35 8 040 300 7200
e-mail: info@vator.com
web: www.vator.com

Croatia

Meridian Projekt d.o.o.
Savska 58,
Ph: +38 5 1 617 6364
Fax: +38 5 1 617 6365
e-mail: navman@meridianprojekt.com
web: www.meridianprojekt.com

HEADQUARTERS

Navman NZ LIMITED
7-21 Kawana St.
Northcote.
P.O. Box 68 155,
Newton,
Auckland,
New Zealand.
Ph: +64 9 481 0500
Fax: +64 9 481 0590
e-mail: marine.sales@navman.com
web: www.navman.com

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