

#### Specifications

Channels 15 GMRS  
RF Output Power 1 Watt Max.  
Audio Output Power 500mw  
Frequency Stability +5PPM  
Operating Voltage 6.0V  
Dimensions (L x W x D) 3.5 x 2x 1 in.  
Weight (with battery) 7 oz

Porta Phone Co.  
145 Dean Knauss Drive  
Narragansett, RI 02881  
800-233-1113  
In RI: 401-789-8700

# Competitor MC 1000

Professional Wireless  
Communicator

#### Features

15 Channels  
38 Group Mode Tones  
VOX Function  
Call Tone  
1 Watt Power Output  
Low Battery Alarm  
Ni-MH Battery Pack  
Desktop charger  
Range up to 2 Miles



## User's Manual

## Marketing Statement

The Competitor MC - 1000 is a professional two-way transceiver . The radio has been tested and complies with FCC limits with regard to exposure to RF and electromagnetic energy for use by individuals aware of the hazards during the course of employment.

## FCC License Information

### IMPORTANT NOTICE: FCC LICENSE REQUIRED

All professional transceivers that operate in the GMRS band require (Federal Communications Commission) FCC licensing.

A user must be licensed prior to operating on Channels 1 through 7 on high power or 15 through 22, which comprise the GMRS channels of this radio. Serious penalties could result for unlicensed use of GMRS channels, in violation of FCC rules. Operation of this radio is subject to additional rules specified in 47 C.F.R. Part 95.

Licensed users will be issued a call sign by the FCC, which should be used for station identification when operating this radio. GMRS users should also cooperate by engaging in permissible transmissions only, avoiding channel interference with other GMRS users, and being prudent with the length of their transmission time.

For licensing information and application forms, please call the FCC Hotline at 800-418-FORM. Request form #159 and form #605. Questions regarding the license application should be directed to the FCC at 888-CALL-FCC. Additional information is available on the FCC's website at [www.fcc.gov](http://www.fcc.gov) <<http://www.fcc.gov>>.

During the licensing process you may operate your Competitor MC1000 system with the temporary permit included in this manual.

FCC ID: B4HMC1000 Canada: IC: 3064A-MC1000

### FCC Warning Statement:

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: 1) This device may not cause harmful interference, and 2) this device must accept any interference received, including interference that may cause undesired operation.

## Warnings / Basic RF Exposure Instructions



To make sure that your exposure to RF electromagnetic energy is within the FCC allowable limits:

\* DO NOT operate the radio without an antenna attached, or an antenna other than that supplied by the manufacturer. Doing so could cause you to exceed FCC RF exposure limits.

\* DO NOT transmit for more than 50% of total radio use time. Transmitting more than 50% of the time may exceed FCC RF exposure compliance requirements. (This device is authorized to operate at a duty factor not to exceed 50%. In August 1996, the Federal Communications Commission (FCC) adopted RF exposure guidelines with safety levels for handheld wireless devices.)

\* ALWAYS keep the antenna at least 2.5 cm (1 inch) away from the body when transmitting to ensure FCC RF exposure compliance requirements are not exceeded. To provide the best sound quality, hold the antenna at least 5 cm (2 inches) from your mouth, and slightly off to one side.

\* ALWAYS maintain a 2.5 cm separation distance from the antenna to a person(s). You, as the qualified end-user of this radio device must control the exposure conditions of bystanders to ensure the minimum 2.5 cm separation distance is maintained between the antenna and nearby persons for satisfying RF Exposure compliance. The operation of this transmitter must satisfy the requirements of Occupational/Controlled Exposure Environment, for work-related use. Transmit only when person(s) are at least 2.5 cm distance from the properly installed, externally mounted antenna.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. All repairs or maintenance to the transmitter must be performed by, or under the supervision of, a certified land mobile radio technician. Any adjustments to the transceiver that could result in changes of radio performance is a violation of FCC rules and is strictly prohibited.

It is unlawful to replace or substitute any component ie. crystal, semiconductor, etc., or to modify the circuit board of this RF device in any manner. Any component change or modification to the internal circuitry is forbidden and is a violation of the FCC rules.

Failure to comply with these guidelines could cause the user to loose the authority to operate this equipment.

## System Set-Up

### FCC Label Confirmation

Confirm that the FCC ID label is affixed to the inside of the battery compartment before installing the battery and using the Competitor MC-1000.

### Antenna Installation

Firmly attach the antenna to the radio by turning it clockwise until it tightens.

### Belt Clip Assembly

Install the military belt clip with the hardware included. Two Phillips head screws are provided.

### Battery Installation

Your MC - 1000 radio has been shipped with the battery separate from the actual transceiver portion.

To install the battery slide it onto the back of the transceiver until the latch at the bottom clicks and holds it in place. Once the battery is installed follow the charging procedure before operation (See page 5).

## Operating Instructions

Refer to figure 1 for an explanation of controls, adjustments and switches.

1. The Power switch / Volume Control Knob (item 2) turns the transceiver ON and Off and also sets the sound level of incoming signals. Turn the power switch / volume control clockwise to turn the transceiver "on".
2. Set the operating channel via the Channel Selector knob (item 1). Rotate the Channel Knob setting it to your desired channel. Channel numbers and are printed on the radio. In addition the radio features an audible channel announcement and will tell the user the channel selected.
3. Before making a call, monitor the channel to make sure that no-one is using the frequency. To monitor the channel depress and hold the monitor button (item 9).
4. To make a call press and hold the PTT Key (item 7 ) on the side of the radio and speak into the microphone The LED indicator (item 3) will turn red confirming transmission.
5. For best voice translation speak directly into the microphone (item 6) using normal voice levels. Release the PTT key when you are finished speaking.

6. Incoming messages are received through the built in Speaker (item 5). Adjust the speaker sound level by rotating the volume control knob as follows: clockwise - higher, counter clockwise - lower. Incoming messages are confirmed by green light on LED Indicator.

7. The Accessory Jack (item 4) allows addition of audio equipment such a speaker-microphone or headsets. Use only those accessories that are specifically designed for use with this transceiver.

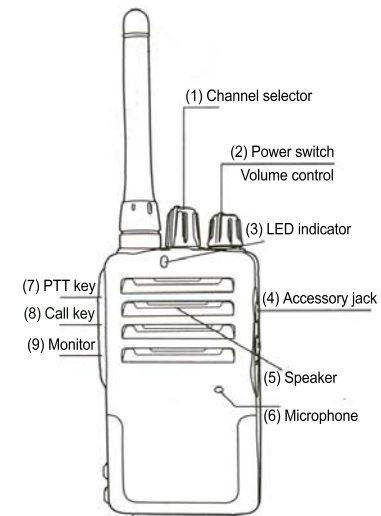
8. The MC-1000 features a Call function that allows users in a group to alert select members of incoming messages. To set the radio to Call Mode press and hold down the Call Key (item 8) while turning the radio "on".

Adjust the channel selector choosing a desired call tone, up to 15 different sounds are available. Press the PTT Key to store this call tone and turn the radio off to set it in the Call Mode.

When you want to announce an eminent transmission to a selected partner press the Call Key before using the PTT Key and actually transmitting. Your partner will be alerted to the incoming message just before it arrives.

Figure 1

Note: When battery voltage becomes low, the LED Indicator on radio will turn solid red color and radio transmissions will stop.



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## CHARGING THE BATTERY PACK

1. After purchase or after extended storage (greater than 2 months) charge and discharge the battery two or three times. After these cycles the battery will return to its normal operating capacity.
2. Plug the AC adapter cable into the jack located on the rear of desktop charger base.
3. Slide the transceiver & battery pack into the charger.
4. Plug adapter into AC outlet.
5. Make sure the battery pack contacts are touching the charging terminals. The charger base LED turns red indicating battery is charging.
6. The charger base LED light will flash when the battery is fully charged in 2.5 to 3 hours.
7. Remove the transceiver from charging base when charging is completed.

## CAUTIONS

1. Only use the supplied battery to operate this transceiver.
2. Do not short the battery terminals or dispose of the battery by fire.
3. Operating the transceiver while charging the battery pack will interfere with charging process.
4. Do not recharge a fully charged battery pack.
5. Do not charge if the battery is wet. Dry with cloth before charging to avoid damage.
6. All batteries can cause property damage and/or bodily injury such as burns if a conductive material touches exposed terminals.

Note: When battery voltage becomes low, the LED Indicator on radio will turn solid red color and radio transmissions will stop.

## VOICE ACTIVATED CONTROL (VOX)

VOX operation allows hands-free transmission when using a headset. This mode allows the user to initiate transmissions with the energy in their voice instead of pressing a push to talk button.

### 1. To Begin VOX

Press and hold CALL & PTT keys while turning power on. A double beep will sound indicating that VOX mode is active. Release keys.

### 2. Set Microphone Sensitivity

Adjust desired VOX sensitivity by turning channel selector (1-16) while listening to beeps.

The lower the number the less sensitive the microphone.

The higher the number the more sensitive the microphone.

For example:

1=Low sensitivity, 8=Mid sensitivity, 16=High sensitivity

Press PTT key again, and microphone sensitivity number will be announced and locked in.

### 3. Select Channel / Frequency

Channel Selector can now be used for Channel/Frequency Selection.

### 4. Attach Headset

Plug in an optional headset into audio jacks, and begin speaking in VOX.

Important: Place microphone 1/4" directly in front of mouth. Speak DIRECTLY into microphone.

### 5. To End VOX

Press PTT key to Cancel VOX transmission.

Note: If the VOX Gain levels are set to a higher sensitivity, lower ambient noise may accidentally activate the microphone.

## Frequency List

Channel #	Receive/Transmit Frequency
1	462.5625 MHz
2	462.5875 MHz
3	462.6125 MHz
4	462.6375 MHz
5	462.6625 MHz
6	462.6875 MHz
7	462.7125 MHz
15	462.550 MHz
16	462.575 MHz
17	462.600 MHz
18	462.625 MHz
19	462.650 MHz
20*	462.675 MHz
21	462.700 MHz
22	462.725 MHz

- Emergency Channel: emergency use only

## Frequency Guard

Tone squelch that eliminates the receipt of unwanted signals in your area.

FQ Guard	FQ Guard	FQ Guard
OFF	110.9 Hz	186.2 Hz
67.0 Hz	114.8 Hz	192.8 Hz
71.9 Hz	118.8 Hz	203.5 Hz
74.4 Hz	123.0 Hz	210.7 Hz
77.0 Hz	127.3 Hz	218.1 Hz
79.7 Hz	131.8 Hz	225.7 Hz
82.5 Hz	136.5 Hz	233.6 Hz
85.4 Hz	141.3 Hz	241.8 Hz
88.5 Hz	146.2 Hz	250.3 Hz
91.5 Hz	151.4 Hz	
94.8 Hz	156.7 Hz	
97.4 Hz	162.2 Hz	
100.0 Hz	167.9 Hz	
103.5 Hz	173.8 Hz	
107.2 Hz	179.9 Hz	

FCC 605  
Schedule F

Temporary Operator Permit for the Ship,  
Aircraft, Restricted Radiotelephone,  
Restricted Radiotelephone-Limited Use  
and GMRS Radio Services

Approved by OMB  
3060 - 0850  
See 605 Main Form Instructions  
or public burden estimate

***Do Not Use if Applying for Ship Exemption***

**DO NOT MAIL THIS SCHEDULE TO THE FCC. - KEEP IT FOR YOUR RECORDS**

If you need a Temporary Operator Permit for the Ship, Aircraft, Restricted Radiotelephone, Restricted Radiotelephone-Limited Use or the GMRS Radio Services while your application is being processed by the FCC (refer to the instructions for restrictions):

- 1) Complete the FCC 605 Main Form and the appropriate Additional Data Schedule and submit them to the FCC
- 2) Complete this FCC 605 Schedule F and keep it for your records.

**Certification Statements for a Temporary Operator Permit**

All applicants must certify:  
I have applied for a Station License by submitting a completed and signed FCC 605 Main Form and appropriate Additional Data Schedule to the FCC, and that the information contained in that application is true and correct.  
I have not been denied a license or had my license suspended or revoked by the FCC.  
I will obey all applicable laws, treaties, and regulations.

**Ship, Aircraft Station, and GMRS Additional Information**

Enter your temporary call sign (see instructions):

**Signature**

Typed or Printed Name:

Signature:

Date of Signature:

Date the FCC 605 Main Form and Additional Data  
Schedule were submitted to the FCC:

**This temporary operator permit is valid for 90 days from the date the FCC 605 Main Form and the appropriate Additional Data Schedule were submitted to the FCC.**

Your authority to operate your radio station under this temporary operator permit is subject to all applicable laws, treaties and regulations and is subject to right of control of the Government of the United States.

You must post this temporary operator permit at your radio station location.