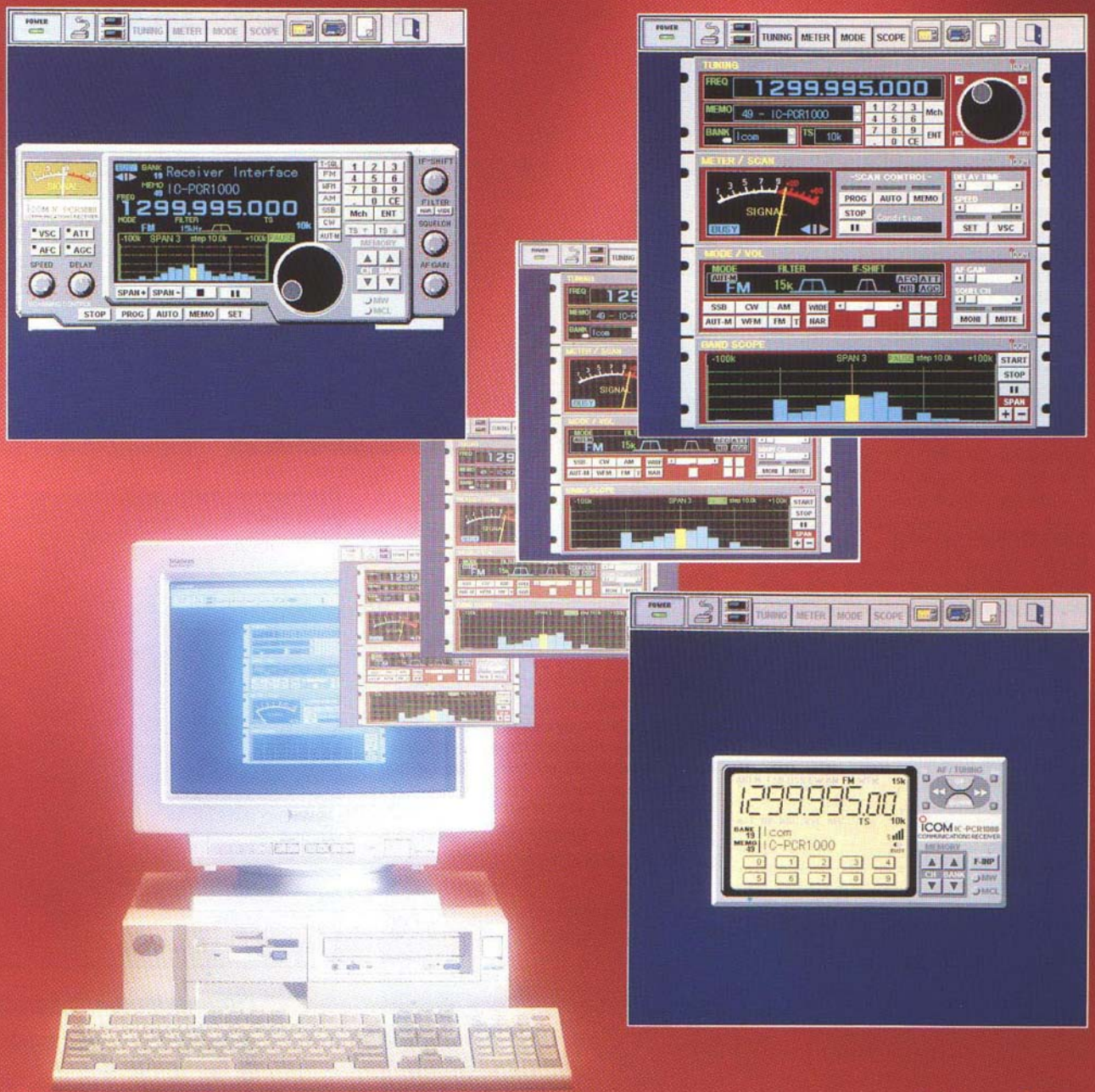
ICOM

COMMUNICATIONS RECEIVER FOR COMPUTER

# IC-PCR1000




● Turn your PC into a wide band receiver

Icom Inc.

# BRING ANOTHER WORLD T

The explosive growth of the Internet in the last few years has brought a wealth of information to PC users around the existed, the airwaves have been filled with communications of all kinds—broadcast radio and television, ham stations The IC-PCR1000 lets you listen in to this exciting world from your computer. Don't miss out!

## ■ 3 interface screens to choose from

The IC-PCR1000 has 3 receiver interface screens as follows:

- **Communications receiver screen:** Shows S-meter (signal strength) level, a large frequency readout, keypad, etc.—what you would see on the front panel of a typical communications receiver.
- **Component-type screen:** Shows all available functions and is divided into 4 components: "TUNING," "MODE/VOL," "METER/SCAN" and "BANDSCOPE"—this screen is ideal for those who are already familiar with full function communications receivers.
- **Radio screen:** Shows preset buttons for stations and frequency readout, etc. like a typical stereo tuner—this provides the simplest operation for monitoring your most-listened-to-stations, such as AM/FM broadcasting and TV, etc.



## ■ External connection

The IC-PCR1000 connects to your PC externally—providing compatibility with many different computer models, even laptops, and offers exceptional receiver performance. Count on us!

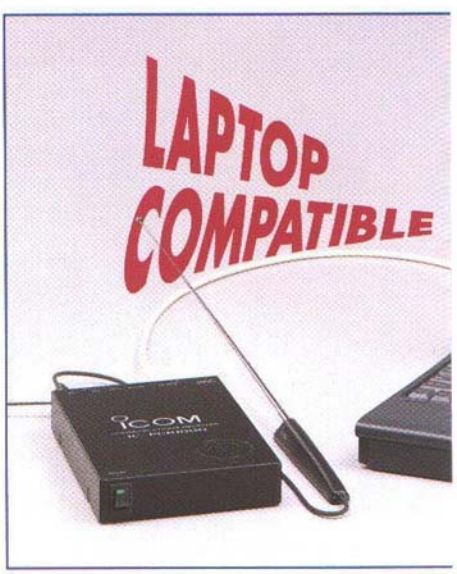
## ■ Real-time bandscope function

The real-time bandscope function makes it easy to find busy frequencies and to observe receive frequency band conditions. The passband width of the bandscope is selectable within the range ±200 kHz. In addition, clicking the busy signal indicator automatically takes you to that frequency immediately. (WFM, FM and AM modes only)

## ■ Wide frequency coverage with all mode receive

The IC-PCR1000 covers a wide frequency range from 0.01–1300 MHz* with all mode (WFM, FM, AM, SSB, CW) receive capability. You can receive not only AM/FM broadcasting and TV (audio only), but also ham, aviation and marine communications, etc. Band tracking RF filters are employed for bands above 50 MHz providing stable receive sensitivity characteristics and improved image response rejection. This also helps minimize distortion from excessively strong signals nearby, such as pager relays, etc.

*Guaranteed 0.5–1300 MHz only; some frequency ranges are restricted depending on version.

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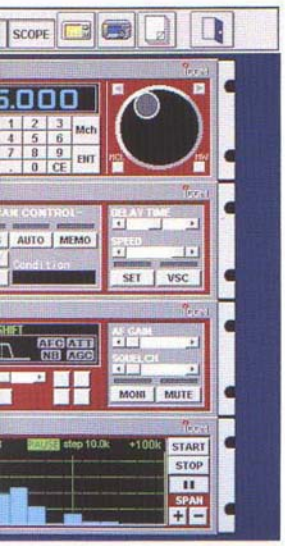
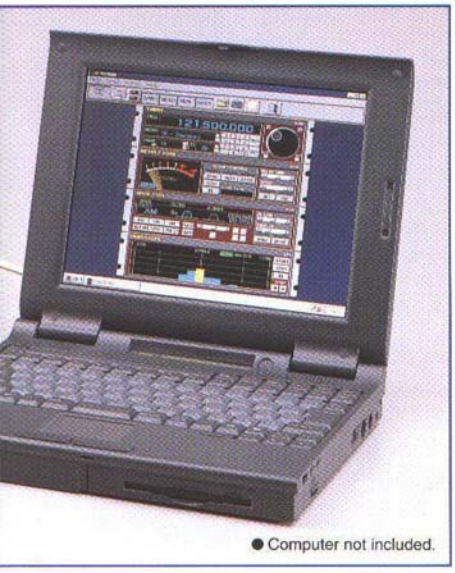
IC-PC

# TO YOUR COMPUTER

world. However, long before the Internet
marine and aviation to name just a few.





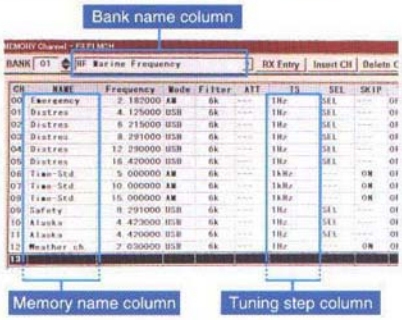


● Computer not included.

## ■ Unlimited number of memory channels

Memory channels are grouped into "banks" of 50 channels each and are stored on your computer's hard disk or on a floppy disk: the number of memories is only limited by your free HD space or the number of floppies used. For easy recognition and better organization, a bank and memory name function is available. Each memory can store not only frequency, receive mode and memory names, but also tuning step, attenuator and filter settings, and more.

## ■ Memory channel list example




## ■ Automatic mode

Input a frequency and this function automatically selects a receive mode, tuning step and filter setting, etc. accordingly. Particularly convenient for listening within your favorite frequency ranges.

## ■ IF shift function

The IF shift function is effective in SSB/CW modes for reducing interference from nearby signals. It does so by electronically shifting the passband of the IF filter. This helps ensure clear reception even during crowded band conditions.

## ■ Noise blanker

The noise blanker circuit suppresses pulse-type noise such as that caused by vehicle ignition systems. This function is only effective in SSB, AM and CW modes.

## ■ Digital AFC function

The AFC (Automatic Frequency Control) function automatically compensates for frequency drift, in FM mode only, keeping the receiver tuned to the center frequency of the tuned station, even when using 6 kHz or 15 kHz filters. This function provides particularly stable reception in the frequency ranges above 1000 MHz.

## ■ VSC function

Icom's original VSC (Voice Scanning Control) function pauses scanning only when modulated signals—those containing voice or music components—are received. This makes scanning more efficient. The VSC also activates as an audio mute control, even when not scanning.

## ■ S-meter squelch

In addition to a regular noise squelch system, the IC-PCR1000 offers an S-meter squelch. When receiving signals stronger than the pre-set S-meter level, the AF mute is released. In this way you can block annoying signals from nearby broadcasting stations, etc. and receive only the signals you want to hear.

**EIVER FOR COMPUTER**

**R1000**

COMMUNICATIONS RECEIVER FOR COMPUTER

# IC-PCR1000

## Other features.....

- CTCSS tone squelch decode function
- A total of six variety of scans are available for searching for signals
- A wide variety of factory pre-programmed tuning steps are available as well as a user-programmable step for special needs
- RF attenuator (20 dB) for protecting receive from distorting due to excessively strong nearby signals
- External speaker level control for using a computer's built-in speaker
- Icom's original DDS (Direct Digital Synthesizer) system provides super fine tuning resolution to 1 Hz
- 9600 baud data receive capability

## SPECIFICATIONS

### GENERAL

- Frequency range : (Unit: MHz)

| Version | Frequency Range |
|---|---|
| U.S.A. | 0.010000–823.999999*<br>849.000001–868.999999<br>894.000001–1300.000000 |
| Europe and others | 0.010000–1300.000000* |

*Specifications guaranteed 0.5–1300 MHz only.

- Mode : USB, LSB, CW, AM, FM, WFM
- Frequency stability : ±3 ppm (at 1300 MHz: ±0°C to +50°C)
- Freq. resolution : 1 Hz (minimum)
- Power supply requirement : 13.8 V DC ±15 % for receiver unit; or, supplied AC adapter (negative ground)
- Current drain (at 13.8 V DC):
  - Power ON (PC power OFF) 0.1 A
  - Max. audio 0.7 A
  - Standby (squelched) 0.6 A
- Usable temp. range : ±0°C to +50°C; +32°F to +122°F
- Antenna connector : BNC (50 Ω)
- RS-232C connector : D-sub 9-pin (female)
- Dimensions (proj. not included) : 127.5(W)×30(H)×199(D) mm; 5(W) × 1 3/16(H) × 7 27/32(D) in
- Weight : approx. 1 kg; 2.2 lb

### RECEIVER

- Receive system : Triple superheterodyne
- Intermediate freq. :
  - 1st 266.7 MHz
  - 2nd 10.7 MHz
  - 3rd 450 kHz (except WFM)
- Sensitivity (typical)* :

| Freq. (MHz) | FM | WFM | AM | SSB/CW |
|---|---|---|---|---|
| 0.5–1.799999 | — | — | 2.5 µV | 0.56 µV |
| 1.8–27.999999 | | | 1.4 µV | 0.28 µV |
| 28–29.999999 | 0.5 µV | | | |
| 30–49.999999 | | | 1.8 µV | 0.35 µV |
| 50–699.999999 | 0.32 µV | 0.79 µV | 1.0 µV | 0.2 µV |
| 700–1300 | 0.4 µV | 1.0 µV | 1.3 µV | 0.25 µV |

*FM and WFM are measured at 12 dB SINAD; AM, SSB and CW are measured at 10 dB S/N.; 230 kHz (for WFM), 15 kHz (for FM), 6 kHz (for AM) and 2.8 kHz (for SSB/CW) passband widths are selected.

- Squelch sensitivity (threshold):

| Freq. (MHz) | FM | WFM | AM | SSB/CW |
|---|---|---|---|---|
| 0.5–1.7999 | — | — | 1.8 µV | 14 µV |
| 1.8–27.99999 | | | 0.89 µV | 7.1 µV |
| 28–29.9999 | 0.63 µV | | | |
| 30–49.9999 | | | | |
| 50–699.9999 | 0.5 µV | 5.6 µV | 0.71 µV | 5.6 µV |
| 700–1300 | 0.63 µV | 7.1 µV | 0.89 µV | 7.1 µV |

- Selectivity :
  - WFM 230 kHz/–6 dB
  - WFM/FM/AM 50 kHz/–6 dB
  - FM/AM 15 kHz/–6 dB
  - FM/AM/SSB/CW 6 kHz/–6 dB
  - AM/SSB/CW 2.8 kHz/–6 dB
- IF shift range : More than ±1.2 kHz
- Max. audio output : 200 mW at 10% distortion with an 8 Ω load
- Ext. speaker connector : 3-conductor 3.5 (d) mm (1/8")/4–8 Ω

### ADDITIONAL REQUIREMENTS

- System : Microsoft® Windows® Version 3.1 or Windows® 95
- CPU : Intel i486 DX4 or better (Pentium® 100 MHz or better recommended)
- Hard disk : At least 10 MB of free space
- Memory : At least 16 MB
- Serial port : Serial interface (38400 bps throughput)
- Display : 640×480 pixel resolution or greater (800×600 pixel recommended)

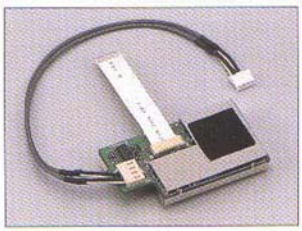
**All stated specifications are subject to change without notice or obligation.**

## UNPACKING

- IC-PCR1000 Receiver unit
- Floppy disk
- Telescoping antenna
- RS-232C serial cable
- AC adapter (depending on version)
- DC power cable (OPC-131; except U.S.A. version)

## OPTION

**UT-106** DSP UNIT
Provides AF DSP capablity, such as noise reduction and auto notch functions.





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