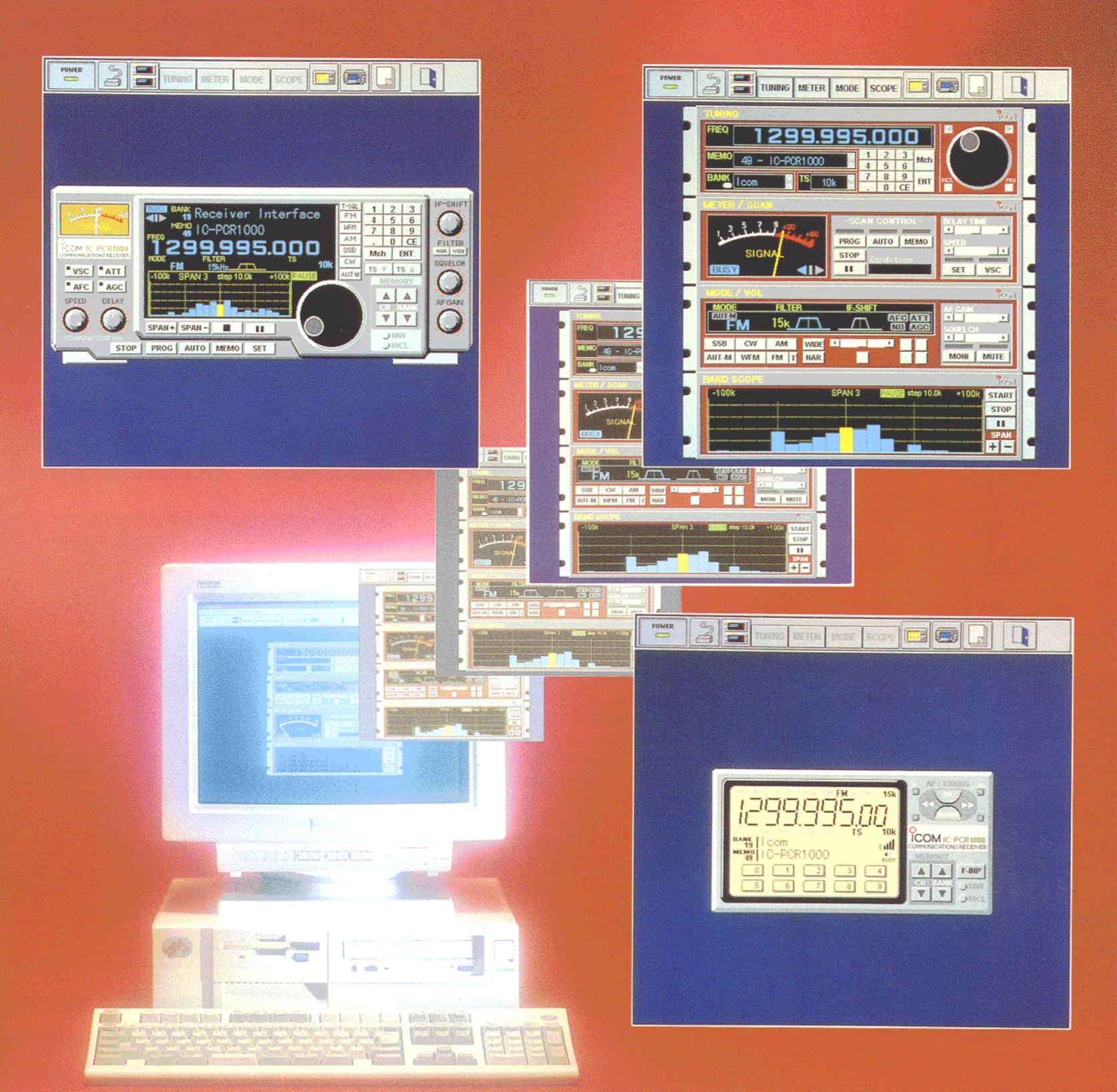


## IC-PCR1000



Turn your PC into a wide band receiver

Icom Inc.

# BRING ANOTHER WORLD

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.

#### Carrier 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.

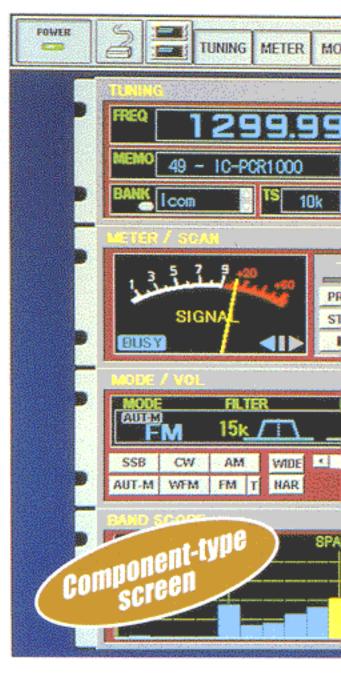
### **■** External connection

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)

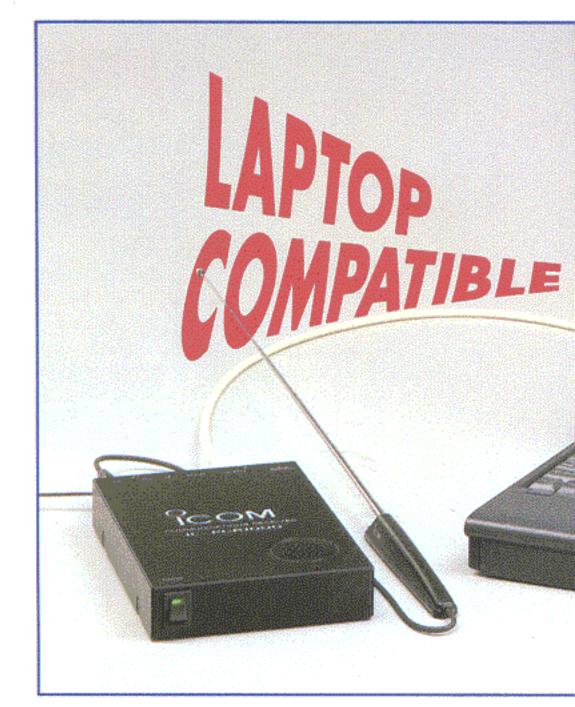




### ■ Wide frequency coverage with all mode receive

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.

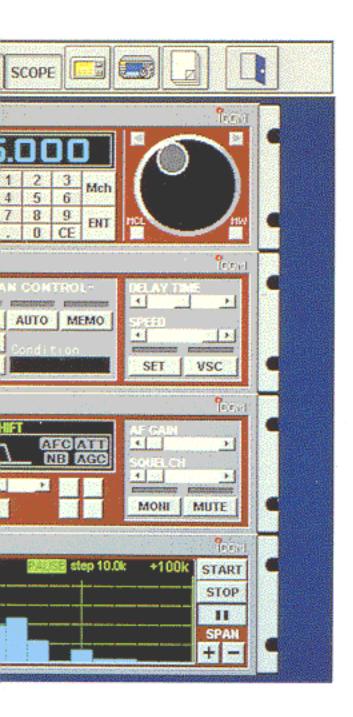




COMMUNICATIONS REC

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









### IVER FOR COMPUTER

R1000

### 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

Bank name column

CH	MANE	Frequency	Mode	Filter	ATT	TS	SEL	SKIP	
00	Emergency	2 182000	AM	6k		1Hz	SEL		0
01	Distres	4.125000	USB	6k		18z	SEL	de serve.	0
02	Distres	6. 215000	USB	6k		1Hz	SEL.		0
03	Distres	8. 291000	USB	6k		1Hz	SEL		0
04	Distres	12, 290000	USB	6k	***	1Hz	SEL		0
05	Distres	16. 420000	0SB	6k		1Hz	SEL		0
06	Time-Std.	5.000000	AM:	6k		1kHz		ON	0
07	Time-Std.	10,000000	AW	6k		1kBz	www.	ON	0
98	Time-Std.	15, 000000	AW	6k		1kHz	AL SECTION AND ADDRESS OF THE PARTY OF THE P	ON.	0
9	Safety	8, 291000	USB	6k		1Hz	SEL	-	0
10	Ataska	4, 423000	USB	6k		1Hz	SEL		0
11	Alaska	4, 420000	usa .	6k ·		THz	SEL		. 0
12	Weather ch.	2, 030000	USB	6k		18z		ON	0
13	SERVICE SERVIC	RESIDENCE PROPERTY.	<b>PROPERTY</b>	<b>ESSENSE</b>		THE REAL PROPERTY.			<b>35</b> 8

### 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 pulsetype 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.

## 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**

equency	range :	(Unit: MH
	Version	Frequency Range
	U.S.A.	0.010000-823.999999* 849.000001-868.999999 894.000001-1300.000000
	Europe and others	0.010000-1300.000000*

**GENERAL** 

\*Specifications guaranteed 0.5-1300 MHz only. : USB, LSB, CW, AM, FM, WFM Mode

Frequency stability: ±3 ppm

(at 1300 MHz: ±0°C to +50°C)

 Freq. resolution : 1 Hz (minimum) : 13.8 V DC ±15 % for receiver Power supply unit; or, supplied AC adapter requirement

(negative ground) Current drain (at 13.8 V DC):

Power ON (PC power OFF) 0.1 A Max. audio 0.7 A 0.6 A Standby (squelched)

•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)

: 127.5(W) × 30(H) × 199(D) mm Dimensions  $5(W) \times 1^{3/16}(H) \times 7^{27/32}(D)$  in (proj. not included)

: approx. 1 kg; 2.2 lb Weight

### RECEIVER

: Triple superheterodyne Receive system

Intermediate freg.

266.7 MHz 1st 2nd 10.7 MHz 450 kHz (except WFM)

3rd

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	υ.5 μν		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	0.00			
30-49.9999	0.63 μV			
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

230 kHz/--6 dB WFM 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  $(1/8")/4-8 \Omega$ 

**ADDITIONAL REQUIREMENTS** 

: Microsoft® Windows® Version 3.1 System

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.

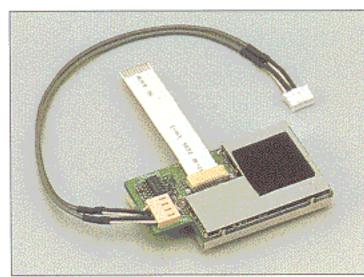
### UNPACKING

- 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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NATIONAL ACCREDITATION F CERTIFICATION BODIES

Icom Inc. (Japan), is an ISO9001 certification acquired company.

Certificate Number Q14190

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