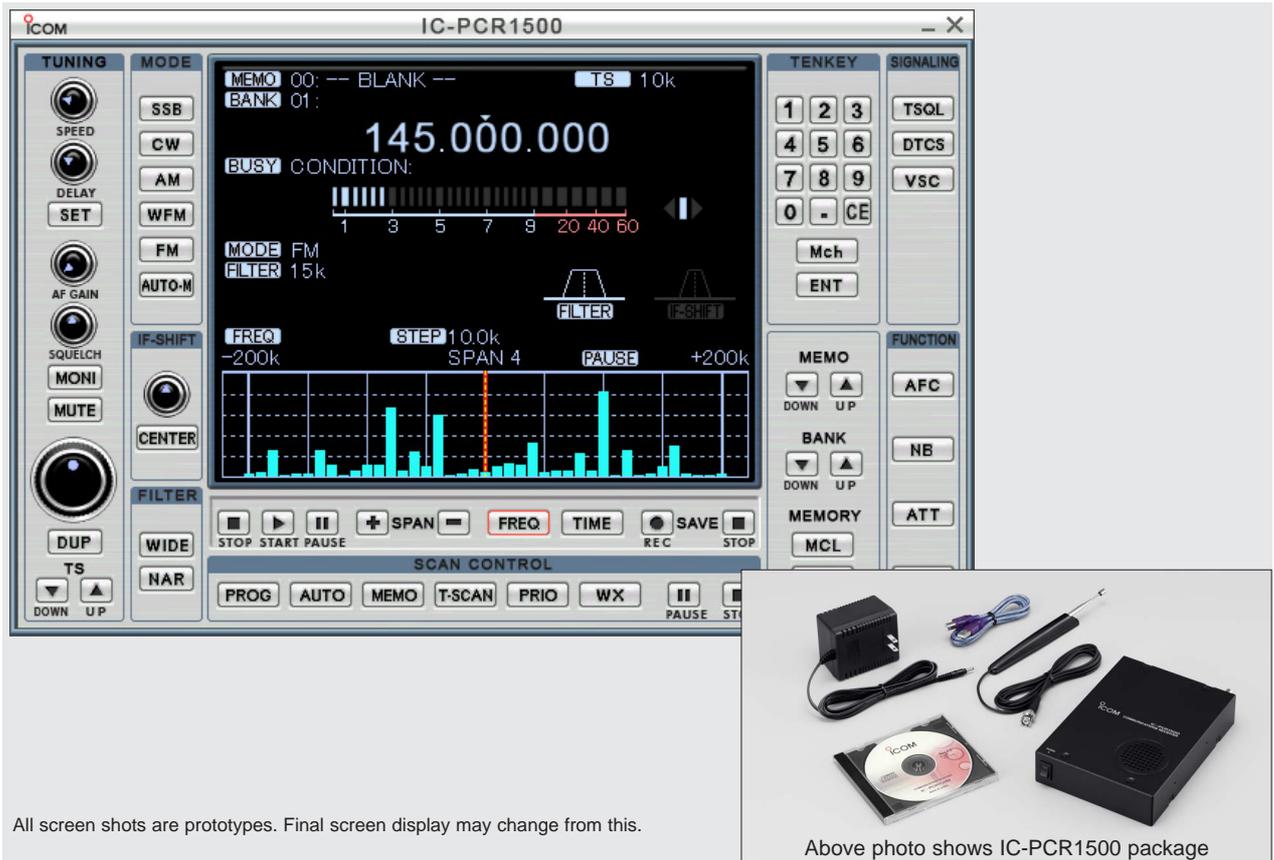




NEW PRODUCT INFORMATION

COMMUNICATIONS RECEIVER

IC-PCR1500



All screen shots are prototypes. Final screen display may change from this.

Above photo shows IC-PCR1500 package

Icom proudly announces the debut of the IC-PCR1500. This computer-controlled receiver is the successor of the IC-PCR1000 and designed for scanner enthusiasts or professional users who monitor various channels. It covers from 0.01 to 3299.999MHz in all modes (0.495-1300MHz only in SSB and CW modes) and versatile functions such as multi-channel monitor, bandscope and IF shift function support efficient and effective reception.

The newly adopted USB cable improves the response and feeling of operation and delivers received audio to the PC through the cable.

SELLING POINTS

- 0.01 to 3299.999MHz wideband coverage with SSB, CW, AM, FM, WFM modes
- User selectable interface screens — “Communications receiver”, “Component-style” and “Compact screen”
- Multi-channel monitor function
- USB cable connection
- Max. 60 ch/sec high speed scanning*
* Depending on PC's capability.
- VSC, CTCSS and DTCS tone squelch
- Two types of bandscope
- Optional DSP unit, UT-106

FEATURES

PC control wideband receiver

The IC-PCR1500 is a PC control receiver and all functions are controllable from mouse click or keyboard input. It covers 0.01–3299.999MHz* in all modes (0.495–1300MHz only in SSB and CW modes). 1Hz fine tuning resolution is available in all bands.

* Frequency range depends on version.

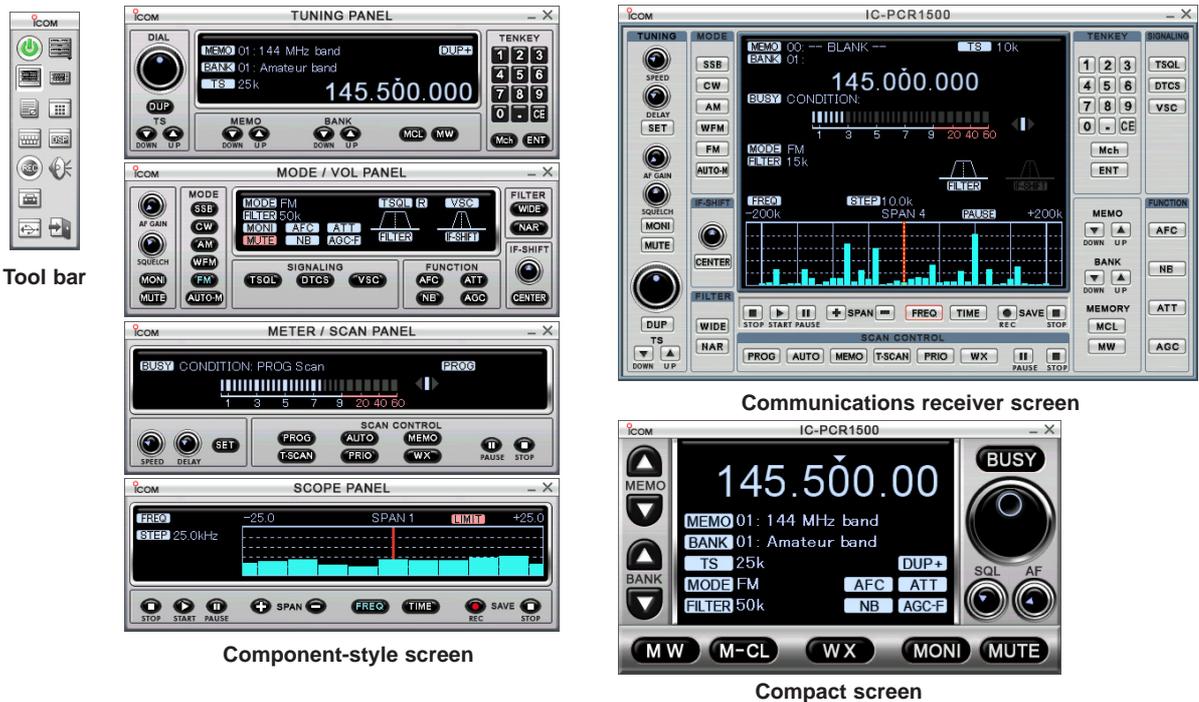
USB cable connection

USB cable is employed for PC to receiver connection. It provides higher data transmission speed than a RS-232C cable and improves the response and the feeling of the operation. It is also possible to transfer the received audio to the connected PC through the USB cable and allows you to hear or record the sound on the PC.

3 selectable interface screens

Depending on a user's needs or level of expertise, 3 operating screens are selectable: "communications receiver" screen, "component-style" screen and "compact" screen.

- The "communications receiver" screen shows unified operating information such as S-meter level, frequency readout and keypad, etc. on a single screen. It is similar to what you see on the front panel of a typical communications receiver.
- The "component-style" screen: Functions are divided into 4 sections – "Tuning", "Mode/Volume", "Meter/scan" and "scope panel". This screen is suitable for users who are already familiar with a full-function communications receiver.
- The "compact" screen shows the minimum preset buttons for stations and frequency readout. This allows simplified operation for beginners. (* Some functions are not available in this screen)



Unlimited number of memory channels

Memory channels are stored in the connected PC's hard disk or other storage devices. Therefore the number of memories is only limited by your remaining memory space.

FEATURES

Multi channel monitor function

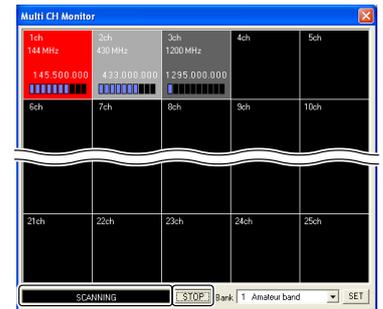
This function allows you to observe the status of up to 25 channels on the screen at a glance. According to the S-meter level, channel activities are indicated by three background colors on the screen. When you click a channel button on the screen, you can easily start listening to the selected channel.

Two types of bandscope

The IC-PCR1500 has two types of bandscope function, allowing you to easily observe the band condition within a specified bandwidth (25kHz to 5MHz) or a specified time period (3 to 100 minutes) and AF output* is emitted while sweeping the range. When you find a signal you want to listen to, click the waveform in the band scope screen, then the receiving frequency moves to the clicked frequency. In addition, the band scope sweep data can be stored on the PC.

* AF output is not emitted in CW, SSB mode.

When setting the bandscope range between 500kHz and 5MHz, AF output is not emitted.



Multi channel monitor screen

Max. 60 channel/second high speed scan

The IC-PCR1500 has a Max. 60 channel/sec. high speed scan capability*. This superior scanning power allows the utmost efficiency when searching a wide frequency range. Auto memory write scan searches for a signal, and when a signal is detected, the received frequency is automatically stored into an auto memory write channel bank.

* Depending on PC's capability. Tuning step is 100kHz or less in program scan mode.

- Full scan
- Mode select scan
- Programmed scan
- Memory scan
- Priority scan
- Tone scan
- Bank scan
- Skip scan
- Auto memory write scan
- Program skip scan
- Program skip area scan

VSC, CTCSS, DTCS tone and S-meter squelch

The VSC (Voice squelch control) opens the squelch only when a modulated signal is detected and ignores unmodulated, beat noise signals. The CTCSS and DTCS tones provide quiet stand-by while waiting for a matched tone signal. In addition to a regular noise squelch system, the S-meter squelch release the AF mute, when only signals stronger than the pre-set S-meter level are received. And more, the pocket beep function alerts you with a beep sound when a matched tone signal is received.

DSP capability

With the optional DSP unit, UT-106, you can add a noise reduction function, which improves the S/N ratio. Also, the automatic notch filter automatically cuts beat interference. These DSP functions pull out desired signals from noise, and provide superior receive quality.

Other Noise reduction functions

- IF filter selection
- IF shift function (SSB/CW mode only)
- Noise blanker (SSB/CW/AM mode only)...Eliminates pulse type noise such as engine ignition noise.
- 20dB RF attenuator (approx. below 1300MHz)
- AFC function (Auto Frequency Control)...Automatically compensates for frequency drift in FM mode and keys the receiver tuned to the center frequency of the tuned station. (BW: 6KHz or 15KHz)
- AGC function ... Fast/slow setting is possible

Other features

- Weather alert function (U.S.A. version only)
- DTMF tone decoder
- Duplex operation
- Recording function ... Allows you to store received audio on the PC in WAV format
- Tuned bandpass filters for VHF/UHF bands

Rear view



"Controller" connector is not available in the IC-PCR1500.

SPECIFICATIONS

Specifications described below are target values. They may be subject to change.

■ GENERAL

- Frequency coverage : 0.010–3299.999MHz*
 Guaranteed range 0.495–3000.000MHz
 * Cellular bands are blocked in the U.S.A. version.
 France 0.010– 29.999*, 50.200– 51.200,
 87.500–108.000, 144.000– 146.000,
 430.000–440.000, 1240.000–1300.000MHz
 * Guaranteed range 0.495–29.999MHz
- Mode : AM, FM, WFM, USB*, LSB*,
 CW*
 * 0.01–1300MHz only.
- Usable temperature range : 0°C to +60°C; +32°F to +140°F
- Frequency stability : Less than ±3ppm on the
 basis of 25°C (–10°C to +60°C)
- Tuning steps : 1Hz (minimum)
- Power supply : 12.0V DC ±15%
- Current drain (12.0V DC, IC-PCR1500):
 Max. audio 0.8A typ.
 Stand-by 0.65A typ.
- Antenna Impedance : 50Ω (BNC)
- Dimensions (W×H×D, projections are not included) :
 146×41×206 mm; 5¾×1½×8½ in
- Weight (approx.) :
 1200g; 2.6lb

■ RECEIVER

- Receiver system : Triple-conversion
 superheterodyne
 + Down converter
- Intermediate frequencies : 1st 266.70MHz,
 2nd 10.70MHz
 3rd 450kHz (Except WFM)
- Sensitivity (Less than) :

| | SSB, CW | AM | FM | WFM |
|--------------------|---------|-------|----------|-------|
| 0.495–1.799MHz | 5.0μV | 25μV | – | – |
| 1.8–49.999MHz | 0.5μV | 2.5μV | 0.63μV*2 | – |
| 50–699.999MHz | 0.4μV | 2μV | 0.5μV | 1.4μV |
| 700–1300.000MHz | 0.5μV | 2.5μV | 0.63μV | 1.8μV |
| 1300*1–2299.999MHz | – | – | 5.6μV | 18μV |
| 2300–3000.000MHz | – | – | 18μV | 56μV |

*1 1300.000001MHz *2 28–49.999MHz
 SSB, CW BW=2.8kHz, AM BW=6.0kHz at 10dB S/N
 FM BW=15kHz, WFM BW=230kHz at 12dB SINAD

- Selectivity :
 SSB, CW, AM More than 2.8kHz/–6dB
 SSB, CW, AM, FM More than 6.0kHz/–6dB
 FM, AM More than 15kHz/–6dB
 FM, AM, WFM More than 50kHz/–6dB
 WFM More than 230kHz/–6dB
- Audio output power : More than 500mW at 10%
 distortion with an 8Ω load
- Ext. speaker connector : 2-conductor 3.5 (d) mm
 (1/8")/8Ω

PC REQUIREMENTS

- Microsoft® Windows® XP/2000/ME/98SE
- Intel Pentium®III 450MHz or faster (Pentium® 4 recommended)
- Hard disk with minimum 50 MB of free disk space
- Minimum 128 MB of memory (256Mb or more recommended)
- Display with 1024 x 768 pixel resolution, high color
- USB 1.1

Note

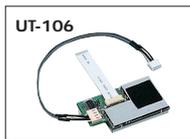
- CD-ROM or DVD drive is required for software installation
- Mouse or other compatible pointing device
- USB audio dropouts or gaps may occur, because of a lack of PC power.
- Additional hard disk space is required for recording sound or storing scope data.

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OPTIONS

- AD-113A/E* AC ADAPTOR: Same as supplied. * New item
- CP-12L CIGARETTE LIGHTER CABLE WITH NOISE FILTER
- OPC-254L DC POWER CABLE
 For use of the receiver with an external power supply. (12V DC required)
- UT-106 DSP UNIT :Provides noise reduction and auto notch filter functions.
- SP-10 EXTERNAL SPEAKER: For all-round mobile operation. Cable length: 1.5 m; 4.9 ft



Supplied accessories:

- Control software (CD)
- AC adapter, AD-113A/E*
- Antenna
- USB cable

(* Depending on version)