COMMUNICATIONS RECEIVER

IC-R20

Scan, Tune, Record — The Expert's Scanner!

Dualwatch capability

The IC-R20 is a dualwatch receiver, which allows you to receive two channels simultaneously. You can listen to FM, AM broadcasts, TV audio, Ham, CB, marine, or other utility communications while scanning or even listening to another channel.

Wideband coverage in all modes

The IC-R20 covers from 150kHz to 3304.999MHz* in SSB, CW, AM, FM and WFM modes. When receiving in dualwatch, the combination of channels is 150kHz to 469.999MHz and 118MHz to 174.999Mhz or 330MHz to 1304.999MHz.

*Depending on version.

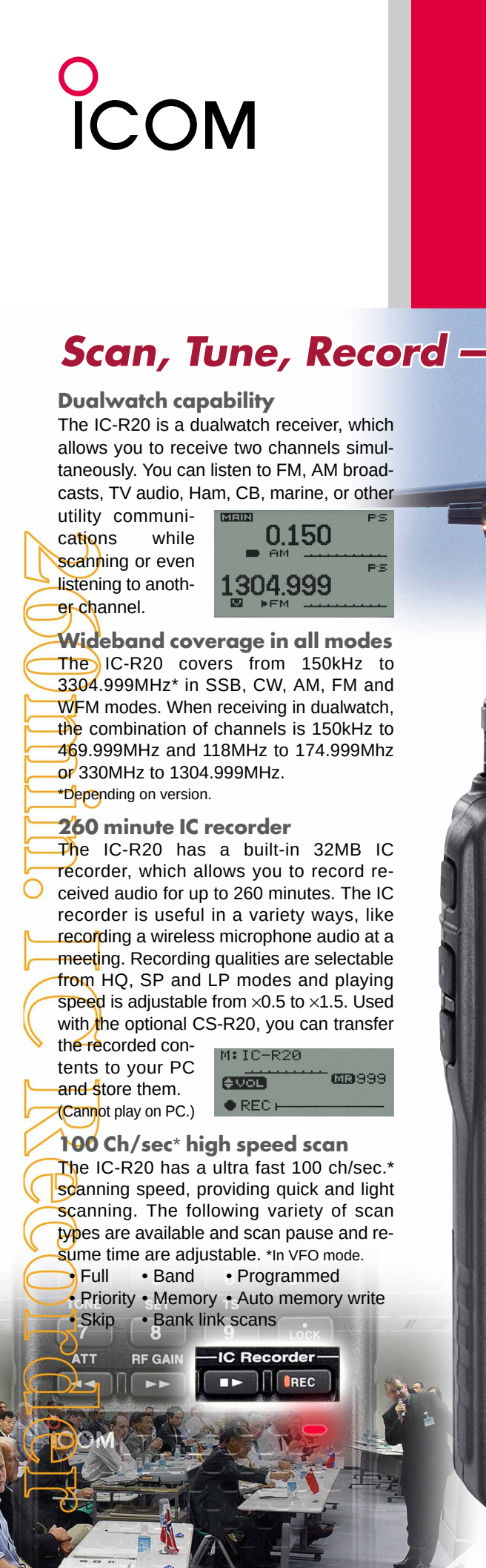
260 minute IC recorder

The IC-R20 has a built-in 32MB IC recorder, which allows you to record received audio for up to 260 minutes. The IC recorder is useful in a variety ways, like recording a wireless microphone audio at a meeting. Recording qualities are selectable from HQ, SP and LP modes and playing speed is adjustable from ×0.5 to ×1.5. Used with the optional CS-R20, you can transfer the recorded contents to your PC and store them. (Cannot play on PC.)

100 Ch/sec* high speed scan

The IC-R20 has a ultra fast 100 ch/sec.* scanning speed, providing quick and light scanning. The following variety of scan types are available and scan pause and resume time are adjustable. *In VFO mode.

- Full
- Band
- Programmed
- Priority
- Memory
- Auto memory write
- Skip
- Bank link scans



1250 alphanumeric memory channels

Make up your own channel names for each of up to 1250 memory channels with 26 memory banks. Channel recognition is easy. The IC-R20 lets you use numbers, letters and 5 icons, when naming channels and banks. Icom's exclusive Dynamic Memory Scan (DMS) system flexibly divides these memories and scans selected banks by simply adding and deleting bank links.

11 hours of continuous receive*

The IC-R20 has a very effective power saving design for long operation. A lithium-Ion battery pack, BP-206 provides 11 hours of continuous receive* and when used with the power saving function, longer operating periods are possible. Power by AC adapter or optional cigarette lighter cable is also possible and the Li-Ion battery pack is simultaneously charged during operation.

* FM mode, at Max. AF audio.

Useful bandscope

The bandscope function visually shows the busy or unoccupied channels within a specified bandwidth (from 1kHz to 100kHz) on the screen. The received audio is emitted while sweeping, allowing you to decide if it contains a modulated signal or not.

PC cloning capability

With the optional cloning software, CS-R20, memory channels, recorded contents and receiver settings are easily managed from your PC. A USB cable for connection with a PC will be supplied with the CS-R20.

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OTHER FEATURES

- VSC (Voice Squelch Control) opens the squelch only when a modulated signal is detected.
- DTCS and CTCSS tone squelch function
- Offset monitor capability for semi-duplex channel monitoring
- Auto squelch and squelch monitor capability
- Built-in attenuator and RF gain control
- Noise blanker, ANL (Auto Noise Limiter), AF filter
- AFC (Auto Frequency Control) function
- CI-V PC remote control capability with optional CT-17
- Built-in ferrite bar antenna for AM broadcast
- FM earphone cord antenna capability
- Dial speed-up function
- Auto power off and power save functions
- Power from 3 alkaline cells possible
- Key lock function
- Rotary selector and up/down buttons are reversible
- Weather channel and weather alert* (* U.S.A. version only)
- TV channels and shortwave stations are preprogrammed.

SPECIFICATIONS

GENERAL

- Frequency coverage : 0.150–1304.999, 1305.000–3304.999MHz* (* Cellular blocked in the U.S.A. version.)
  France 0.150–29.999, 50.2–51.2, 87.5–108, 144–146, 430–440, 1240–1300MHz
- Mode : LSB, USB, CW, AM, FM, WFM
- No. of memory channels : 1250 (1000 regular, 50 scan edges and 200 auto memory write)
- Usable temperature range : –10˚C to +60˚C ; +14˚F to +140˚F
- Tuning steps : 0.01, 0.1, 5, 6.25, 8.33*, 9*, 10, 12.5, 15, 20, 25, 30, 50, 100kHz (* Selectable depending on operating bands.)
- Battery requirement : BP-206 or 3×AA (R6) alkaline cells
- External power supply : 6.0V DC ±5% (with BC-149A/D, CP-18A/E)
- Current drain (at 3.7V DC) (Single receive, IC rec OFF) : Rated audio 150mA typ. (Backlight off); Standby 100mA typ. (Backlight off); Power save 35mA typ. (duty=1:4)
- Antenna impedance : 50Ω (BNC)
- Dimensions (projections not included) : 60(W)×142(H)×34.8(D) mm; 2 3/8(W)×5 19/32(H)×1 3/8(D) in
- Weight (approx.) : 320g; 11.3oz (With antenna and BP-206)

Supplied accessories *depending on version
● BP-206* ● BC-149A/D* ● MB-98 ● Handstrap ● Antenna

RECEIVER

- Receiver system : Triple conversion superheterodyne + down converter
- Intermediate frequencies : 1st 266.7MHz, 429.1MHz, 2nd 19.65MHz, 3rd 450kHz
- Sensitivity (except spurious points; single receive):

FM	1.620–4.999MHz	0.56µV	5.000–221.999MHz	0.4µV
(12dB SINAD)	330.000–832.999MHz	0.56µV	833.000–1304.999MHz	0.71µV
	1330.000–2304.999MHz	5.6µV	2330.000–2999.999MHz	18µV
WFM	76.000–108.000MHz	1.8µV	175.000–221.999MHz	1.8µV
(12dB SINAD)	470.000–769.999MHz	2.5µV		
AM	0.495–4.999MHz	2.2µV	5.000–29.999MHz	1.4µV
(10dB S/N)	118.000–135.999MHz	1.4µV		
SSB, CW	0.495–4.999MHz	0.4µV	5.000–29.999MHz	0.25µV
(10dB S/N)	50.000–53.999MHz	0.25µV	118.000–146.999MHz	0.25µV
	330.000–469.999MHz	0.32µV		

- Selectivity SSB, CW : More than 1.8kHz/–6dB; AM, FM More than 12kHz/–6dB, Less than 30kHz/–60dB; WFM More than 150kHz/–6dB
- AF output power (at 3.7V DC) : 100mW typ. at 10% distortion with an 8Ω load
- External SP connector : 3-conductor 3.5 (d) mm (⅛″) /8Ω

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

OPTIONS

- **BP-206** Li-Ion BATTERY CELL ASSEMBLY
  3.7V/1650mAh Lithium Ion battery pack.
- **BC-149A/D** WALL CHARGER
  6V DC, 1A output AC adapter.
- **BC-156** DESKTOP CHARGER
  Rapidly charges the BP-206 in 2.5 hours (approx.). AC adapter, BC-123A/E supplied with the charger.
- **CP-18A/E** CIGARETTE LIGHTER CABLE
  6V DC, 2A output from 12V cigarette lighter socket.
- **CT-17** CI-V LEVEL CONVERTER
  For receiver remote control from a PC.
- **CS-R20** CLONING SOFTWARE (With USB cable)
  Use a PC to easily edit stored memory channel data. (Microsoft® Windows® 98/Me/XP/2000)
- **LC-158** CARRYING CASE
  Helps protect the receiver from scratches, etc.
- **MB-86** SWIVEL BELT CLIP
  Prevents accidental dropping from your belt.
- **MB-98** BELT CLIP
  Alligator type. Same as supplied.
- **SP-13** EARPHONE
  Provides clear audio even in noisy environments.

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BC-156

CP-18A/E

CT-17

CS-R20

LC-158

MB-86

SP-13

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