COM

Pre-release Product Information

HF/VHF/UHF ALL MODE TRANSCEIVER



IF-DSP Technology Comes To A New Multi-Bander!

$2 \times DSP$

That's two times the DSP in the IC-7000 that will leave many base station rigs in the noise! While it is too early to list all the great features, here are a few to keep you talking!

Improved AGC loop performance

With Multiple AGC loops, you will never experience AGC pumping from a signal filtered out by the DSP! The digital IF filter and manual notch filter are included in the AGC loop, so you will never encounter AGC blocking. As with the 756PROIII and IC-7800, the AGC time constants are adjustable for slow, middle, fast for each operating mode.

Digital IF filters

All the filters you want at your fingertips! You will never have to purchase "Optional" filters as the IC-7000 has 41 different filter widths. You just dial in the width you want and select whether you want a sharp or soft filter shape for SSB and CW modes. Then to pull-in the the weak ones, a quick turn of the the concentric twin PBT

knobs, allow you to either narrow the IF passband, or shift the entire passband to eliminate the QRM.



2 × MNF (Manual Notch Filter)

Pull out the weak signals in crowded band conditions with Icom's NEW two-point MNF manual notch filter. Apply 70 dB of rejection to

two signals at once! Notch width is adjustable - wide, medium, and narrow - and an auto-tuning notch filter is available, too.



Manual notch filter setting

Digital voice recorder (DVR)

Record your callsign, CQ, or other information in 4 transmit playback memories with alphanumeric labels. A total of 90 seconds is available for the four memories. A front panel REC control allows you to record incoming signals, too! The DVR makes portable contesting or mini-expeditions a breeze!

Flexible installation with detachable panel

Smaller than the IC-706MKIIG, the IC-7000 measures only 167(W)×58(H)×180(D) mm*1. With the detachable front panel*2 many installation possibilities are available.

- *1 6%16(W)×2%32(H)×73/32(D) in
- *2 An optional separation cable is required

Remote control Microphone

The supplied HM-151 remote control microphone allows you to control often used functions of the IC-7000. This includes band hopping with Icom's Triple Band Stack registers.

2-mode band scope

The band scope function lets you watch conditions around the band. In Center mode the band scope is centered on the receiving frequency. In Fixed mode the band scope sweeps a fixed range.



Icom Inc.

2.5-inch color TFT display

with TV screen receive capability

The IC-7000's display presents numbers and indicators in bright, con-

centrated colors for easy recognition. You can choose from 3 background colors and 2 font styles to suit your preference. Not only does the display provide radio status, but you can watch NTSC M or PAL B on VHF-TV channels!*



RECEIVER

Intermediate frequencies :

* Not available in all versions

One-touch operation

Eight of the most-used radio functions are controlled by dedicated function keys grouped around the display for easy visibility. One quick touch turns the function and off. A longer touch activates adjustment of the function's setting.

SPECIFICATIONS

GENERAL

• Frequency co	verage*1	:		
Receive	0.030-19	9.999MHz*2	400.000-470	.000MHz*2
Transmit	1.800- 1	.999MHz	3.500- 3.9	99MHz
	5.3305, 5	3465, 5.366	5, 5.3715, 5.40)35MHz*3
	7.000-7	.300MHz	10.100-10.1	50MHz
	14.000-14	.350MHz	18.068-18.1	68MHz
	21.000-21	.450MHz	24.890-24.9	90MHz
	28.000-29	.700MHz	50.000-54.0	00MHz
1	44.000-14	8.000MHz	430.000-450	.000MHz
	*1 Showing	USA version.	Varies according	g to version.
*2 5	Some freque	ncy bands are	not guaranteed.	*3 USB only
 Mode 		: USB, LSB	, CW, RTTY, P	SK31, AM,
		FM, WFM	(Rx only)	
No. of memory	y channels	: 503 (495 re	egular, 2 call, 6 s	scan edges)
 Antenna impe 	dance	: 50 Ω (SO-	239×2 for HF/5	50 MHz and
		VHF/UHF)		
 Power supply 	requiremer	t: 13.8V DC	±15%	
 Operating terr 	np. range	: -10°C to +	-60°C; +14°F to	o +140°F
 Frequency state 	ability	: Less than	±0.5ppm (+0°C	to +50°C)
Current drain		: Transmit	Max. power	22A
		Receive	Standby	1.3A
			Max. audio	1.6A
 Dimensions (W×H×D) 		: 167×58×18	30 mm; 6 ⁹ /16×2	⁹ /32×7 ³ /32 in
(projections not	t included)			
Weight (approx.)		: 2.3kg; 5.1l	b	
÷		0,		

TRANSMITTER

 Output power 	:		
	HF/50MHz	144MHz	440MHz
SSB/CW/RTTY/FM	2-100W	2–50W	2–35W
AM	1–40W	2–20W	2-14W
Spurious emissions : Less than –50dB (Below 30MHz) Less than –60dB (Above 50MHz)			
 Carrier suppression 	: More than 50dB		
 Unwanted sideband suppression 	: More than 50dB		

ale nequenc	103 .				
SSB/CW/AM/FM		124.487MHz, 455kHz, 16.15kHz			
WFM		134.732MHz, 10.700MHz			
Sensitivity (preamp on; except 4–4.5 and 8–9 MHz):					
0.5–1.8MHz	1.8-29.9MHz	50–54MHz	144/440MHz		
-	0.15µV	0.12µV	0.11µV		
4.0μV	2.0µV	1.0µV	1.0µV		
-	0.5µV (28-29.7)	0.25µV	0.18µV		
-	-	10.0µ∖	(76–108MHz)		
SSB/CW, AM : 10dB S/N, FM, WFM : 12dB SINAD					
sensitivity	: SSB Les	s than 5.6µ∖	/		
; pre-amp on)	FM Les	s than 0.3µ∖	/		
y	:				
SSB (BW=2.4kHz) More than 2.4kHz/–6dB					
Less than 3.9kHz/–60dB					
CW (BW=500Hz) More than 50			3		
	Less than	900Hz/-60d	В		
RTTY (BW=350Hz) More than 360Hz/–6dB			3		
Less than 650Hz/-60dB			В		
AM (BW=6kHz) More than 6.0			3		
	Less than	15kHz/-60d	В		
FM (BW=15kHz) More than		12kHz/-6dB	5		
Less than 20kHz/–60dB					
 Spurious and image rejection ratio: 					
50/144/440MHz More than 65dB					
Audio output power : More than 2			BV DC)		
	CW/AM/FM y (preamp on; ε 0.5–1.8MHz – 4.0μV - - M: 10dB S/N sensitivity ; pre-amp on) y (BW=2.4kHz) BW=500Hz) Y (BW=350Hz 3W=6kHz) 3W=6kHz) and image re ands i4/440MHz	134.732M y (preamp on; except 4-4.5 and 8 0.5-1.8MHz 1.8-29.9MHz - 0.15µV - 0.15µV - 0.15µV - 0.5µV - 0.5µV - 0.5µV - 0.5µV (28-29.7) - - MX : 10dB S/N, FM, WFM : 12d sensitivity : SSB Less pre-amp on) FM Less y : (BW=2.4kHz) More than Less than Less than / (BW=350Hz) More than Less than SW=6kHz) More than Less than 3W=15kHz) More than Less than More than and image rejection ratio: ands and image rejection ratio: and and (except 144 More than	CW/AM/FM 124.487MHz, 455kHz, 134.732MHz, 10.7004 134.732MHz, 10.7004 134.732MHz, 10.7004 y (preamp on; except 4-4.5 and 8-9 MHz): 0.5420 0.5-1.8MHz 1.8-29.9MHz 50-54MHz - 0.15µ/ 0.12µ/ 4.0µ/ 2.0µ/ 1.0µ/ - 0.5µ/(28-29.7) 0.25µ/ - - 10.0µ/ M: 10dB S/N, FM, WFM : 12dB SINAD sensitivity : SSB Less than 5.6µ/ : : SCB : : SSB : : : : : SSB : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :		

 Audio output power (8Ω load, 10% distortion)

Supplied accessories:			
 Hand microphone Key plug 	DC power cable Electronic keyer plug	 Spare fuses ACC cable 	

This device has not been approved by the appropriate authorities in each country. This device may not be sold or leased, or be offered for sale or lease, until approval has been obtained. All stated features, appearances, screen shots and specifications may be subject to change without notice. All screens show simulated pictures.

READ ALL INSTRUCTIONS carefully and completely before using the transceiver.

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Icom Inc. (Japan), is an ISO 9001 and ISO 14001 certification acquired company



Memory Keyer

The internal memory keyer provides 4 memories for station information or contest exchanges, calling CQ and call sign with up to 55 characters for each memory. The keyer also performs automatic repeat, automatic contest serial numbers, and "cut-numbers".

Other features

[Installation] • Control circuit for optional antenna tuners

[Operation] • Built-in voice synthesizer • CI-V control capability • Auto repeater functions • Total of 503 channels • Quick band change Multi-function S/PWR/SWR meter
 Backlit buttons
 24-hour Clock [Receiver] • Preamp • Attenuator • 100-step digital noise blanker • 16-step digital noise reduction • RIT • CTCSS, DTCS tone squelch [Transmitter] • ±0.5 ppm high frequency stability • Continuously adjustable RF output power • Digital RF speech compressor • Powerful 35W on 70cm band • Bass and treble audio equalizer Adjustable SSB transmit bandwidth • DTMF memory • ⊿TX • VOX [CW] • Full break-in • CW reverse sideband • Adjustable CW pitch

OPTIONS

- AT-180 HF+50MHz AUTOMATIC ANTENNA TUNER
- AH-4 HF+50MHz AUTOMATIC ANTENNA TUNER
- AH-2b ANTENNA ELEMENT
- CT-17 CI-V LEVEL CONVERTER
- HM-151 REMOTE-CONTROL MICROPHONE
- SM-20 DESKTOP MICROPHONE
- Optional OPC-589 is required.
- SP-10 EXTERNAL SPEAKER
- MB-62 MOBILE BRACKET for main unit or the AT-180
- MB-105 CONTROLLER MOUNTING BRACKET
- MB-65 MOUNTING BASE Optional MB-105 is required.
- MB-106 CARRYING HANDLE
- OPC-1443/OPC-1444 SEPARATION CABLES OPC-1443: 3.5 m (11 ft), OPC-1444: 5 m (16 ft)
- OPC-589 MODULAR 8-PIN CABLE ADAPTER For using a 8-pin type microphone.
- OPC-598 ACC 13 PIN CABLE FOR AT-180 (7 m) • OPC-599 ACC 13 PIN CABLE ADAPTER
- For IC-PW1/EURO OPC-742 ACC 13 PIN CABLE FOR AT-180 WITH
- 2 m/70 cm LINEAR AMPLIFIER IC-PW1/EURO HF+50 MHz 1 kW LINEAR AMPLIFIER
- 2 exciter inputs are available. OPC-599 is required.

REAR VIEW

URL: http://www.icom.co.ip/world/index.html



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Your local distributor/dealer:

