

HAM RADIO PRODUCTS

HF Transceivers

Mobile Transceivers









All Mode Transceivers

Handheld Transceivers

Icom Inc.

HF Transceivers



HF/50MHz TRANSCEIVER IC-7800

+40dBm 3rd order intercept point (in the HF bands)

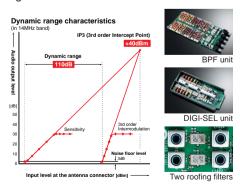
Two completely independent receiver circuits

Four 32-bit DSP units and 24-bit AD/DA converters

+40dBm IP3

(3rd order Intercept Point)

Icom's considerable analog RF circuit experience combined with cutting-edge digital technology results in an astonishing 110dB receiver dynamic range and a +40dBm IP3 in the HF bands. A first in Ham radio! To achieve this superior receiver performance, Icom's engineering team completely re-engineered the whole analog circuit and matched it to the DSP units.



Two completely independent receiver circuits

The dual receiver allows you to receive two different bands simultaneously in different modes, with each receiver not causing any adverse affect to the other one.



Ultra high stability OCXO unit

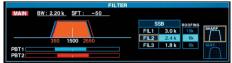
200W output power and highly stable transmitter

Quad processing

The IC-7800 incorporates four independent, 32-bit DSP units and 24-bit AD/DA converters. By having four independent DSP units, the radio will respond to operator changes in an instant, as each DSP unit has a dedicated function. While there is one for each receiver, there is a DSP unit for transmit as well as a DSP unit for the Spectrum Scope.

Digital IF filter

Icom's digital IF filters give you performance that is not possible with crystal or mechanical filters. This allows the operator to adjust filter shaping (sharp or soft), filter bandwidth, and center frequency characteristics, without missing the action. Multiple filter memories store the last used filter settings by using operation mode.



Filter preset screen.

Ultra high stability OCXO unit

The IC-7800 uses the OCXO (Oven Control Crystal Oscillator) unit which is stable to within ±0.05ppm at 0°C to 50°C. This specification means that even on the 50MHz band, frequency error is less than 2.5Hz!

200W output power

The newly designed push-pull power amplifiers using power MOS-FETs work on 48V DC. They provide a powerful 200W output power at full duty cycle. An effective cooling system maintains internal tempera-

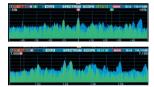
tures within a safe range and prevents thermal runaway.



PA Unit and heat sink

Real time spectrum scope

Due to the DSP unit for the scope, the IC-7800's spectrum scope provides excellent sensitivity, with 80dB of dynamic range. While the scope rivals many of today's commercial test sets, there are 7 steps, ranging from ±2.5kHz to ±250kHz. This is up to 500kHz of spectrum!



Example of spectrum scope centered on the receiving frequency.

Example of fixed spectrum scope range.

7-inch wide color TFT LCD

An active matrix 7-inch (800×400 pixel) TFT color display was selected for the IC-7800. This large display shows main, sub-band frequencies, including various settings, and operating conditions, as well as the spectrum scope, S-meter, and RTTY/PSK31 decoded messages. The "virtual" S-meter shows high quality, analog-looking needle swings that are smooth and accurate.

Other Outstanding Features

· DSP controlled CW keying waveform shaping • Multi-function electronic keyer with adjustable keying speed, dot-dash ratio and paddle polarity • AGC volume knob for fine tuning of the AGC time constant • 3-step manual notch filter • Microphone equalizer and adjustable transmit bandwidth . Built-in RTTY and PSK31 modulator and demodulator • Pre-amplifier and mixer circuit dedicated for 50MHz band • High quality digital voice memory • 64MB CF memory card for storing various personal settings • Digital twin PBT eliminates interference from adjacent signals • 16-step noise reduction • 4 antenna connectors with automatic antenna selector • Triple band stacking register • Automatic antenna tuner Twin peak audio filter for RTTY operation

 Message memory for CW, RTTY and PSK31 operations • 101 memory channels

HF Transceivers



HF/50MHz ALL MODE TRANSCEIVER

IC-756PROI

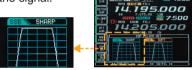
32-bit Floating-Point DSP with 24-bit AD/DA converter

51 types of passband width, soft and sharp filter shapes

Baudot RTTY demodulator/decoder

Sharp and soft filter shapes

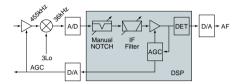
Select an appropriate filter shape, depending on your operating style or band conditions. Independent SSB and CW Filters give you the flexibility you want while listening to the signal.



Filter shape setting screen

AGC Loop Management

The digital IF filter, manual notch filter etc. are adopted in the AGC loop, and controlled by the DSP. This system removes blocking by extremely strong adjacent signals in out of filter passbands. Even very weak signals between crowded strong signals can be clearly extracted from the noise!



Real Time Spectrum Scope

The real time spectrum scope clearly shows band activity with relative strengths of the signals around a center frequency on the 5-inch TFT color display.

Other Outstanding Features

• Dual watch function • Flexible AGC time constants • High stability crystal unit standard • Microphone equalizer • RF speech compressor • Manual notch • Digital twin PBT • Digital voice memories • Digital noise reduction • Analog and digital meters • 8 screens and 7 fonts

HF/50MHz/144MHz ALL MODE TRANSCEIVERS

IC-746PRO·IC-7400

32-bit DSP with 24-bit AD/DA converter

51 types of passband width, soft and sharp filter shapes

100W output on all HF, 50MHz and 144MHz bands

32-bit DSP technology

The IC-746PRO/7400 has employed a 32-bit DSP and a 24-bit AD/DA converter. The DSP with its extremely high performance, dramatically improves signal resolution. The dynamic range of the AD/DA converter is a wide 144dB*, for superior signal management. Clear signals without distortion are realized in any signal conditions.

* Theoretical value at digital operation stage.

IF Filter Shapes

You will never have to purchase optional filters, with over 51 different filter widths, just dial in the width you want. Then select whether you want a sharp or soft filter shape for SSB and CW modes.

RTTY Demodulator and Decoder

The built-in RTTY demodulator and decoder reads baudot RTTY signals on the screen without turning on your PC or other gear. The

RTTY tuning indicator helps critical tuning. The Twin Peak filter removes interfering QRM giving you a more accurate decoded message.



Other Outstanding Features

• Large, multi-function LCD • Digital twin PBT • DSP controlled AGC loop • 108 DTCS and 50 CTCSS codes standard • Built-in Automatic antenna tuner • Memopad • 4 channels memory keyer with 50 characters • FM narrow capability • Triple band stacking register • Quick split • VSC function • Optional voice synthesizer

HF Transceivers



HF ALL BAND TRANSCEIVER 1C-718

Simple, straight forward operation with keypad

General coverage receive with superior performance

Optional DSP capability

Simple operation

The IC-718 is equipped with a minimum number of buttons and controls for superior feature selectability. The 10-key pad on the front panel allows direct entry of an operating frequency, or a memory channel number. The auto tuning step function is activated when turning the dial quickly and helps quick tuning . The band stacking register is convenient when changing operating bands.

Front mounted loud speaker

The IC-718 has the speaker mounted on the front panel. With the speaker facing the operator, audio sounds can be clearly heard without impediment during operation.

Optional DSP capability, UT-106

The DSP capability gives you superior receive quality in your shack, vehicle or during a DX'pedition.



▲ Optional UT-106

General coverage receiver

The IC-718 has 0.03–29.999999MHz* general coverage receive capability. *Guaranteed range: 0.5–29.999999 MHz

Other Outstanding Features

- Built-in electronic keyer Combined squelch and RF gain control 101 memory channels CW full break-in Built-in microphone compressor Preamplifier and attenuator IF shift interference rejection 1Hz tuning Digital S/RF meter
- VOX function for hands-free operation
- Optional automatic antenna tuners



HF/50MHz/144MHz/430(440)MHz ALL MODE TRANSCEIVER

IC-706MKIIG

Covers all HF, 6m, 2m and 70cm bands

Clean, stable and powerful output power

Built-in DSP capability (Optional depending on version)

HF to 70cm band coverage with 100W* output

The IC-706MKIIG covers from the HF band to the 70cm band. Of course, all mode operation (SSB, CW, RTTY, AM and FM) is possible and a full 100W of output power is available for HF and 6m operation; 50W for 2m and 20W for 70cm operation.

(* HF, 50MHz band only)

DSP features

DSP capabilities are available*. These include noise reduction and auto notch functions. Superior receive quality in your shack, vehicle or during DX'peditions.
* UT-106 DSP unit required for some versions.

Compact with detachable panel

With an optional separation cable, OPC-581/OPC-587, the detachable front panel allows easy installation in your shack or in a wide variety of mobile applications.

High stability transmitter

MOS-FET power amplifiers in the PA unit provide stable, high quality output with low IMD and low spurious emissions even during full duty cycle and extended operation.

Other Outstanding Features

- Built-in tone squelch functions Automatic repeater function Simple band scope function Narrow FM capability Up to 3 selectable passband widths with optional filters Built-in electronic keyer IF shift interference rejection Continuously adjustable RF
- output Adjustable SSB carrier point
- Optional automatic antenna tuner

Portable Transceiver



Built-in automatic antenna tuner for portable operation

Optional multi-bag, battery pack for field use

Built-in DSP Capabilities (Optional depending on version)

Built-in automatic antenna tuner

The built-in antenna tuner unit covers from 1.8MHz to 54MHz. Ideal for moving about during portable operation! Latch relays used in the antenna tuner greatly reduce the Built-in antenna tuner power consumption.



Maximum portable convenience

The IC-703 is designed for outdoor, portable operation. The optional battery pack, BP-228 provides 5W output power* and 7 hours* operating time. All the necessary equipment including an antenna, can be packed in the optional multi-bag LC-156.

* 2W on AM mode. Tx:Rx:Stand-by=0.5:0.5:9 in SSB mode.

DSP Capabilities

The built-in DSP unit provides noise reduction and auto notch functions. * UT-106 DSP unit required for some versions.

Other Features

 Standard ±0.5ppm high stability TCXO • Detachable controller with optional separation cables, OPC-581/OPC-587 • Front and rear microphone jacks • RIT, VOX, noise blanker and speech compressor standard • 9600bps data terminal • 3channel memory keyer • RTTY (FSK) mode available • Key backlighting

All Mode Transceiver



VHF/UHF ALL MODE TRANSCEIVER IC-910H

100W output on 144MHz band & 75W output on 430MHz band

Ready-to-install optional 1200MHz band unit, UX-910

Excellent support for satellite mode and PACKET operation



100W of stable output power

A powerful 100W* of output power is provided by the power amplifier circuit. The combination of the aluminum die-cast chassis and efficient cooling fan ensures stable output for continuous operation.

* 75W on 430MHz band and 10W on 1200MHz band

Ready-to-install 1200MHz Band Unit By installing the optional UX-910 1200MHz Band Unit, the IC-910H becomes an all mode tri-band transceiver. Enjoy cross band and full duplex operation.

AO-40 satellite communication

The optional AG-2400 converts a 2.4GHz satellite downlink signal to a 144MHz signal.

Coupled with the satellite mode of the IC-910H, the US mode and LS (UX-910 required) mode satellite operation is ready for use.



▲ Optional AG-2400

Other Outstanding Features

- Continuously adjustable Tx output power
- Excellent 0.11µV sensitivity (at 10dB S/N on SSB, CW mode) • Sweep function • IF shift function • Up to 2 optional DSP units • FMnarrow mode receivable • CTCSS tone encoder/decoder • 9600bps PACKET capability • Memory pad function • Up to 2 optional CW narrow filters

Mobile Transceivers



DUAL BAND FM TRANSCEIVERS

IC-2720H IC-2725E



V/V, U/U simultaneous receive capability

Wideband receiver (Depending on version)

Flexible installation with compact remote controller

Other Features

• Combination brackets, MB-85 or controller bracket, MB-84 with 3.5m (11.5ft) separation cable is supplied as standard depending on version • Total 212 memory channels • Built-in CTCSS, DTCS tones • 9600bps packet data terminal • Sub band auto mute function • 14 DTMF memory channels • Weather alert* • Auto repeater function*

(* Depending on version.)



VHF/UHF FM TRANSCEIVERS

IC-208H IC-E208 Powerful output power 55W/50W (VHF/UHF)

Wideband receiver (Depending on version)

Compact, detachable front panel with separation cable

Other Features

• 144 and 430 (440) MHz dual bander • Total 512 alphanumeric memory channels with 10 memory banks • Easy to manage bank link scan system • Amber, green and yellow, triple color LCD illumination • CTCSS, DTCS encoder/decoder • Pocket beep and tone scan • 16 DTMF memory channels • 9600bps packet data terminal



144MHz FM TRANSCEIVER

IC-V8000



Unbeatable 75W output power with efficient cooling fan

Remote control microphone, HM-133V

Total 200 memory channels with 10 memory banks

Other Features

Front mounted speaker • Amber and green backlit LCD • Built-in CTCSS and DTCS tones • Pocket beep and tone scan • Rugged construction
 • Standard DTMF encoder • Optional DTMF decoder, UT-108 • Weather channel with weather alert* • FM narrow switchable capability*

(* Depending on version)



144MHz FM TRANSCEIVER
IC-2200H

Stable 65W output power

Optional digital unit, UT-115

User-friendly interface and durable construction

Other Features

• 207 alphanumeric memory channels with DMS (Dynamic memory scan) system

 Built-in CTCSS and DTCS tone squelch • Amber and green LCD illumination • 24 DTMF autodial memories • FM narrow switchable capability*

• Weather channel with weather alert function* • Selectable squelch delay

(* Depending on version)

Handheld Transceivers



5W output power on 50, 144, and 430(440)MHz band

Wideband receiver

— 495kHz to 999.990MHz -

555 alphanumeric memory with 18 memory banks



Backlit LCD and keypad • Colors for backlit keypad selectable from green, orange and yellow • 104 DTCS or 50 CTCSS codes • Ultra compact body with splash resistance (Equivalent to JIS Grade 4)
 10 DTMF memories • Morse code synthesizer • High speed scanning • 13 scanning modes • Antenna tip replaceable for 50MHz band • PC Programmable

VHF/UHF MULTIBAND FM TRANSCEIVERS

IC-T90A IC-E90



144, 430(440) MHz dual bander

Independent band controls with VHF/UHF exchange function

200 memory channels with memory name capability

Other Features

- Powerful 5W output power with BP-173
- · Guide function provides quick reference
- Tone squelch standard LCD and key backlighting for nighttime use Crossband full duplex capability Handheld-to-handheld cloning capability Auto power OFF function Channel indication Weather channel receive capability*
- * Depending on version.







6W powerful output for both 144 and 430(440) MHz bands*

MIL standard durable construction

Built-in tone squelch with tone scan and pocket beep functions

Other Features

- Large, easy-to-push PTT switch 50 CTCSS tone encoder/decoder with pocket beep and tone scan functions Optional HM-75A, microphone for simple remote control Thumb-touch lock switch
 Channel indication 9 DTMF memories with up to 16 digits each Auto power saver with selectable duty
- * Typical; with 13.5V DC.

VHF/UHF FM TRANSCEIVER



5.5W (typ.) of powerful output power with supplied battery pack

MIL grade tough construction

Reversible up/down buttons and rotary selector

Other Features

16 button keypad for easy to access functions
Built-in 50 CTCSS and 104×2 DTCS tones with pocket beep and tone scan functions
100 memory channels with 5-characters alphanumeric naming
5 DTMF memory channels
Optional, UT-108 DTMF decoder
Fast scanning speed 40 channels per second (Program scan only)

144MHz FM TRANSCEIVERS

OPTIONS FOR DESKTOP & PORTABLE TRANSCEIVERS

	HAN	ND MICROPHO	NES	DESKTOP MI	CROPHONES		EXTERNAL	SPEAKERS	
MODEL NAME	HM-12	HM-36	HM-103	SM-6	SM-20	SP-7	SP-10	SP-20	SP-21
IC-7800		V			V			V	
IC-756PROII		V		/	~	'		/	/
IC-746PRO, IC-7400		V		V	V	V		V	✓
IC-718		V		/	~	'		/	/
IC-706MK∏G			V	(Use with OPC-589)	(Use with OPC-589)	V	V		
IC-703			V	(Use with OPC-589)	(Use with OPC-589)	'	/		
IC-910H	V			V	V	V		V	V

	EVTEDNAL CDEAVEDS	DC POWER SUPPLY	LINEAR AMPLIFIER	ANTENNA	ELEMENTS	A NITENNI /	TUNERS	FOLDED DIPOLE ANTENNA	FILTERS
				-					_
MODEL NAME	SP-23	PS-125 13.8V/25A	IC-PW1 Not available for EU countries	AH-2b 2.5m (8.2ft) an- tenna element.	AH-703 Covers 7, 14, 21, 28, 50MHz bands.	AH-4	AT-180	AH-710	FL-100 500Hz/–6dB FL-101 250Hz/–6dB
	15. pag	Room	F 100 100 100 100 100 100 100 100 100 10				Воми	30 m; 98.4 ft	FL-103 2.8kHz/-6dB FL-223 1.9kHz/-6dB FL-232 350Hz/-6dB
IC-7800			/						
IC-756PROII	V	~	V	V		V		~	
IC-746PRO, IC-7400	V	✓	V	V		V		V	
IC-718	~	~	(Use with OPC-599)	~		~	~	~	
IC-706MKIIG		/	(Use with OPC-599)	V		V	V	V	(Up to two filters)
IC-703		(Use with OPC-1248)		/	✓	/	/	/	
IC-910H	V	V							

	FILT	ERS	HIGH STA	BILITY CRYST	TAL UNITS	VOICE SYNTHESIZER	DSP UNIT	CI-V CONVERTER	MULTI-BAG
MODEL NAME	FL-52A 500Hz/-6dB FL-53A 250Hz/-6dB FL-222 1.8kHz/-6dB FL-257 3.3kHz/-6dB	FL-132 500Hz/–6dB (for Main band) FL-133 500Hz/–6dB (for Sub band)	CR-282 Frequency sta- bility: ±0.5ppm	CR-293 Frequency sta- bility: ±0.5ppm	CR-338 Frequency stability: ±0.5ppm	UT-102	UT-106	CT-17	LC-156
IC-7800								V	
IC-756PROII					(CR-338 installed)	V		V	
IC-746PRO, IC-7400					V	V		V	
IC-718	(One of these filters)				'	V	V	V	
IC-706MKIIG			V			V	(Installed depnding on version)	V	
IC-703	(One of these filters)					V	(Installed depnding on version)	V	✓
IC-910H		V		V		V	(Up to two units)	V	

: Applicable	: Not applicabl
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OPTIONS FOR DESKTOP & PORTABLE TRANSCEIVERS

	BATTERY PACK	CHARGER	CARRYING	HANDLES	MOBILE MOUNT	TING BRACKETS	CONTROLLER BRACKET	MOUNTING BASES	SEPARATION CABLES
MODEL NAME	BP-228 9.6V/2800mAh (Ni-Cd)	BC-155A/D	MB-23	MB-72	IC-MB5	MB-62	MB-63	MB-65	OPC-581 3.5m;11.5ft OPC-587 5.0m;16.4ft
IC-7800									
IC-756PROII									
IC-746PRO, IC-7400									
IC-718			V		/				
IC-706MK∏G				V		V	V	(Use with MB-63)	/
IC-703	V	V		/		V	V	(Use with MB-63)	✓
IC-910H			/		V				

	MIC ADAPTER CARLE	ADAPTER CARLE	ACC 13-PIN CABLE	POWER SUPPLY ADAPTER	DC POWE	R CABLES	WATERP	ROOF PREAM	IPI IFIFRS
MODEL NAME	OPC-589	OPC-599 13-pin ACC socket to 7-, 8-pin ACC sockets	OPC-742 Connection cable between	OPC-1248 Connection cable between IC-703 and PS-125.	OPC-025A 20A cable OPC-025D 30A cable OPC-1229 4A cable	OPC-639 20A cable with Noise Filter	AG-25 144MHz. Not available for EU countries	AG-35 430MHz. Not available for EU countries	AG-1200 1200MHz. Not available for EU countries
IC-7800									
IC-756PROII					(Use OPC-025D)				
IC-746PRO, IC-7400					(Use OPC-025D)				
IC-718		V			(Use OPC-025A)				
IC-706MKIIG	V	V	V		(Use OPC-025D)	(Europe Version)			
IC-703	V	/		V	(Use OPC-1229)				
IC-910H					(Use OPC-025D)		V	V	(Use with UX-910)

	DOWN CONVERTER	1200MHz BAND UNIT				
MODEL NAME	AG-2400 Converts 2400–	UX-910				
	2402MHz to					
	144 –146MHz.					
	ina!	The state of the s				
IC-7800						
IC-756PROII						
IC-746PRO, IC-7400						
IC-718						
IC-706MKIIG						
IC-703						
IC-910H	V	V				

V	: Applicable	: Not applicable

OPTIONS FOR MOBILE TRANSCEIVERS

	HAN	ID MICROPHO	NES	MOBILE BRACKET	CONTROLLE	R BRACKETS	MOUNTING BASE	COMBINATION BRACKET	DC POWER CABLES
MODEL NAME	HM-118N	HM-118TN w/DTMF keypad	HM-133/V w/DTMF keypad	MB-17A	MB-58	MB-84	MB-65	MB-85	OPC-347 7.0m: 23ft OPC-1132 3.0m: 9.8ft
IC-2720H, IC-2725E	V	V	(Use HM-133)	V		V	(Use with MB-84)	V	V
IC-208H, IC-E208	✓	V	(Use HM-133)	/	V		(Use with MB-58)		✓
IC-V8000	/	V	(Use HM-133V)						✓
IC-2200H	/	V	(Use HM-133V)	V					✓

	SEPARATIO	ON CABLES	SPEAKER CABLE	MICROHONE CABLES	MIC ADAPTER CABLE	EXTERNAL	SPEAKERS	DTMF DECODER UNIT	DIGITAL UNIT
MODEL NAME	OPC-600/R 3.5m: 11.5ft OPC-601/R 7.0m: 23ft	OPC-1156 3.5m: 11.5ft with modular cable	OPC-441 5.0m: 16.4ft	OPC-440 5.0m: 16.4ft OPC-647 2.5m: 8.2ft	OPC-589	SP-7	SP-10	UT-108	UT-115
IC-2720H, IC-2725E		V	V	V	V	V	V		
IC-208H, IC-E208	V		~	V	V	V	'		
IC-V8000			V	V	V	V	V	V	
IC-2200H			V	V	V		/	/	'

	CI	ONING CABL	ES	CLONING SOFTWARE			
MODEL NAME	OPC-474 Between trans- ceivers	OPC-478 Transceiver to PC RS-232C cable	OPC-478U Transceiver to PC USB cable	CS-208 CS-2200H CS-2720 CS-V8000			
IC-2720H, IC-2725E	V	V	V	(Use CS-2720)			
IC-208H, IC-E208	/	✓	✓	(Use CS-208)			
IC-V8000	✓	✓	✓	(Use CS-V8000)			
IC-2200H	/	V	✓	(Use CS-2200H)			

: Applicable : Not applicable

OPTIONS FOR HANDHELD TRANSCEIVERS

	В	ATTERY CASE	S		BATTERY PACKS						
MODEL NAME	BP-170 AA(R6)×4 cells	BP-208 AA(R6)×6 cells	BP-216 AA(R6)×2 cells	BP-171 4.8V/700mAh (Ni-Cd)	BP-172 4.8V/950mAh (Ni-Cd)	BP-173 9.6V/650mAh (Ni-Cd)	BP-180 7.2V/600mAh (Ni-Cd)	BP-209 7.2V/1100mAh (Ni-Cd)	BP-210 7.2V/1650mAh (Ni-MH)		
IC-T90A, IC-E90			V								
IC-W32A/E	~			~	V	V	V				
IC-T7H	/			V	V	V	V				
IC-V8, IC-T3H		/						V	V		

	BATTER	Y PACKS	WALL CHARGER		DESKTOP (CHARGERS		AC ADA	APTERS
MODEL NAME	BP-217 7.4V/1300mAh (Li-lon)	BP-222 7.2V/600mAh (Ni-Cd)	BC-110A/D/V /AR/DR 12V/200mA	BC-119N Rapid charger	BC-139 Rapid charger Includes AC adapter.	BC-144 Rapid charger	BC-146 Regular charger	BC-145 16V/1A	BC-147 12V/200mA
IC-T90A, IC-E90	V		V		V				
IC-W32A/E			V	(Use with AD-51+AD-75+BC-145)				(Use with BC-119N)	
IC-T7H			V	(Use with AD-56+AD-75+BC-145)				(Use with BC-119N)	
IC-V8, IC-T3H		V	V	(Use with AD-94+BC-145)		(Use with BC-145)	(Use with BC-147)	(Use with BC-144 or BC-119N)	(Use with BC-146)

		CHARGER	ADAPTERS		CIGARETTE LIC	GHTER CABLES	DC POWER CABLE	SPEAKER-MI	CROPHONES
MODEL NAME	AD-51	AD-56	AD-75	AD-94	CP-12L w/noise filter	CP-19 w/DC-DC converter	OPC-254L	HM-46/L	HM-54
IC-T90A, IC-E90						V		V	V
IC-W32A/E	(Use with AD-75 + BC-119N)		(Use with AD-51 + BC-119N)		V		V	V	~
IC-T7H		(Use with AD-75 + BC-119N)	(Use with AD-56 + BC-119N)		V		V	V	V
IC-V8, IC-T3H				(Use with BC-119N)				V	V

	SPEAKER-MICROPHONES		HEAD	HEADSETS EARPHONE		BELT CLIPS			
MODEL NAME	HM-75A	HM-131/L	HS-51 5.0V type.	HS-85 3.3V type.	SP-13	MB-68	MB-74 Aligator type.	MB-83 Swivel type.	MB-87 Swivel type.
	8	8			P _a				
IC-T90A, IC-E90	V	V		V	V			V	
IC-W32A/E	V	V		/	/				
IC-T7H	V	V		V	V				
IC-V8, IC-T3H	V	V	V		/	V	~		V

/	: Applicable	: Not applicab

OPTIONS FOR HANDHELD TRANSCEIVERS

	LEATHER BE	LT HANGERS		CARRYIN	G CASES		DTMF DECODER UNIT	CLONING	CABLES
MODEL NAME	MB-96 Swivel type. MB-87 swivel joint supplied.	MB-96F Fixed type	LC-128	LC-136	LC-137	LC-152A	UT-108	OPC-474 Between transceivers.	OPC-478 Transceiver to PC RS-232C cable
IC-T90A, IC-E90	(Use with MB-83 swivel joint)					✓		V	~
IC-W32A/E			V					V	'
IC-T7H				(Use with BP-170/171/172)	(Use with BP-173/BP-180)			V	/
IC-V8, IC-T3H	V	✓					V	V	✓

	CLONING SOFTWARE	ANTENNA ADAPTER	ANTENNAS			
MODEL NAME	CS-T7 CS-T90A CS-V8 CS-W32		FA-1443B FA-B2E FA-B270C FA-B270D FA-S6270D			
IC-T90A, IC-E90	(Use CS-T90A)	V	(Use FA-S6270D)			
IC-W32A/E	(Use CS-W32)		(Use FA-B270C/D)			
IC-T7H	(Use CS-T7)		(Use FA-1443B/B270C)			
IC-V8, IC-T3H	(Use CS-V8)		(Use FA-B2E)			

: Applicable : Not applicable

SPECIFICATIONS

DESKTOP TRANSCEIVERS

		IC-7800	IC-756PROII	IC-746PRO IC-7400	
	Frequency coverage (Differs according to version)	Tx: 137kHz*1, 1.8, 3.5, 5*1, 7, 10, 14, 18, 21, 24, 28, 50MHz bands Rx: 30kHz–60MHz*2 *1 Depending on version. *2 Guaranteed range 0.5–29.999, 50–54MHz.	Tx: 1.8, 3.5, 7, 10, 14, 18, 21, 24, 28 50MHz bands Rx: 30kHz–60MHz* ¹ * ¹ Guaranteed range 0.5–29.999, 50–54MHz.	Tx: 1.8, 3.5, 7, 10, 14, 18, 21, 24, 28, 50, 144MHz bands Rx:30kHz-60MHz, 108-174MHz*1 *1 Guaranteed range 0.5-29.995, 50-54MHz, 144MHz band.	
	Modes	USB, LSB, CW, RTTY, PSK31, AM, FM	USB, LSB, CW, RTTY, AM, FM	USB, LSB, CW, RTTY, AM, FM	
<u></u>	Frequency stability	±0.05ppm (0°C to +50°C; +32°F to +122°F, after warm up)	±0.5ppm (–10°C to +50°C; +14°F to +122°F)	±7ppm (From 1 min. to 60 min. after power ON at 25°C; +77°F)	
General	Maximum current drain	800VA	23A at 13.8V DC	23A at 13.8V DC	
Ğ	Power supply requirement	85–265V AC	13.8V DC ±15%	13.8V DC ±15%	
	Antenna connector	SO-239 × 4 + BNC × 2 (50Ω)	SO-239 × 2 + phono [(RCA) 50Ω]	$SO\text{-}239 \times 3$ (2 for HF/50MHz and 1 for 144MHz bands; 50Ω)	
	Number of memory channels	101 (99 regular, 2 scan edges)	101 (99 regular, 2 scan edges)	102 (99 regular, 2 scan edges and 1 call)	
	Dimensions (W×H×D); Projections are not included.	424×149×435 mm; 16¹¹/₁6×57⁄6×17¹/6 in	340×111×285 mm; 13%×4%×11⅓₂ in	287×120×316.5 mm; 11 ⁵ ⁄16×4 ²³ ⁄32×12 ¹⁵ ⁄32 in	
	Weight (approx.)	25kg; 55lb	9.6kg; 21.2lb	9.0kg; 19.8lb	
	Output power	SSB, CW, RTTY, PSK31, FM: 5–200W AM: 5–50W 137kHz (CW): More than –20dBm	SSB, CW, RTTY, FM: 5–100W AM: 5–40W	SSB, CW, RTTY, FM: 5–100W AM: 5–40W	
Transmitter	Spurious emissions	Less than –60dB (HF) Less than –70dB (50MHz)	Less than –50dB (HF) Less than –60dB (50MHz)	Less than -50dB (HF) Less than -60dB (50/144MHz)	
rans	Carrier suppression	More than 63dB	More than 40dB	More than 40dB	
=	Unwanted sideband	More than 80dB	More than 55dB	More than 55dB	
	Microphone connector	8-pin connector (600Ω)	8-pin connector (600Ω)	8-pin connector (600Ω)	
	Sensitivity (typical) Preamp ON SSB, CW, RTTY, AM: at 10dB S/N FM, WFM: at 12dB SINAD	SSB, CW, RTTY, PSK31 0.1–1.799MHz 0.5µV 1.8–29.999MHz 0.16µV 50–54MHz 0.13µV AM 0.1–1.799MHz 6.3µV 1.8–29.999MHz 2µV 50–54MHz 1µV FM 28–29.999MHz 0.5µV 50–54MHz 0.32µV	SSB, CW, RTTY: 1.8–30MHz 0.16μV 50–54MHz 0.13μV AM: 0.5–1.8MHz 13μV 1.8–30MHz 2.0μV 50–54MHz 1.0μV FM: 28–30MHz 0.5μV 50–54MHz 0.32μV	SSB, CW, RTTY, FM: 1.8–29.99MHz 0.16µV 50MHz band 0.13µV 144MHz band 0.11µV AM: 0.5–1.8MHz 13µV 1.8–29.99MHz 2.0µV 50/144MHz bands 1.0µV FM: 28–29.99MHz 0.5µV 50MHz band 0.25µV 144MHz band 0.18µV	
Receiver	Selectivity	SSB 2.4kHz/–3dB (2.4kHz) 3.6kHz/–60dB CW 500Hz/–3dB (500Hz) 700Hz/–60dB RTTY, PSK31 360Hz/–60dB (350Hz) 650Hz/–60dB AM 6.0kHz/–3dB (6kHz) 15kHz/–60dB FM 12kHz/–6dB (15kHz) 20kHz/–60dB *variable between 50Hz and 3.6kHz	SSB, RTTY: 2.4kHz/–6dB (2.4kHz) 3.2kHz/–40dB 3.6kHz/–60dB 4.3kHz/–80dB CW: 500Hz/–6dB (500Hz) 700Hz/–60dB AM: 6.0kHz/–6dB (6kHz) 15kHz/–6dB FM: 12kHz/–6dB (15kHz) 20kHz/–6dB *variable between 50Hz and 3.6kHz	SSB: 2.4kHz/-6dB (2.4kHz) 3.2kHz/-40dB 3.6kHz/-60dB 4.3kHz/-80dB CW: 500Hz/-6dB (500Hz) 700Hz/-60dB RTTY: 360Hz/-6dB (350Hz) 650Hz/-60dB AM: 6.0kHz/-6dB (6kHz) 15.0kHz/-6dB FM: 12kHz/-6dB (15kHz) 20kHz/-60dB *variable between 50Hz and 3.6kHz	
	Spurious and image rejection (except IF)	More than 70dB	More than 70dB	More than 70dB (HF, 50MHz bands) More than 60dB (144MHz band) (Except IF point on 50MHz band)	
	AF power at 10% distortion with an 8Ω load	More than 2.6W	More than 2.0W	More than 2.0W	
	External speaker connector	2-conductor 3.5 (d) mm ($^{1}\!/_{\!8}"$)/8 Ω ×2 (for main and sub bands)	2-conductor 3.5 (d) mm (1/e")/8Ω	2-conductor 3.5 (d) mm (1/8")/8Ω	

SPECIFICATIONS

DESKTOP AND PORTABLE TRANSCEIVERS

		IC-718	IC-706MKIIG	IC-703	IC-910H	
	Frequency coverage (Differs according to version)	Tx: 1.8, 3.5, 7, 10, 14, 18, 21, 24, 28MHz bands Rx: 30kHz-29.999MHz* ¹ * Guaranteed range 0.5-29.999MHz.	Tx: 1.8, 3.5, 7, 10, 14, 18, 21, 24, 28, 50, 144, 430(440)MHz bands Rx:30kHz—200, 400—470MHz* ¹ *1 Guaranteed range 0.5–29.995MHz, 50–54, 144, 430(440)MHz bands.	Tx: 1.8, 3.5, 5*1, 7, 10, 14, 18, 21, 24, 28, 50*1 MHz bands Rx: 30kHz–60MHz*2 *15MHz, 50MHz band is available depending on version. *2 Guaranteed range 0.5–29.995, 50–54MHz.	U.S.A. version: Tx: 144–148, 430–450, 1240–1300*1 MHz Rx: 136–174*², 420–480*², 1240–1320*1 MHz Europe version: Tx/Rx: 144–146, 430–440 1240–1300*1 MHz	
	Modes	USB, LSB, CW, RTTY, AM	USB, LSB, CW, RTTY, AM, FM, WFM* (*Rx only)	USB, LSB, CW, RTTY, AM, FM	USB, LSB, CW, FM, FM-N (FM-N is not available in 1200MHz band)	
<u>a</u>	Frequency stability	Less than 200Hz (From 1 min. to 60 min. after power ON at 25°C; +77°F)	±7ppm (From 1 min. to 60 min. after power ON at 25°C; +77°F)	±0.5ppm (0°C to +50°C; +32°F to +122°F)	±3ppm (–10°C to +60°C; +14°F to +140°F)	
General	Maximum current drain	20A at 13.8V DC	20A at 13.8V DC	3.0A typical at 13.8V DC 2.0A typical at 9.6V DC	23A at 13.8V DC	
	Power supply requirement	13.8V DC ±15%	13.8V DC ±15%	9–15.8V DC ±15%	13.8V DC ±15%	
	Antenna connector	SO-239 (50Ω)	SO-239 × 2 (for HF/50MHz and 144/430(440)MHz bands: 50Ω)	SO-239 (50Ω)	144MHz SO-239 (50Ω) 430 (440) MHz Type-N (50Ω) 1200* ¹ MHz Type-N (50Ω)	
	Number of memory channels	101 (99 regular + 2 scan edges)	107 (99 regular, 6 scan edges and 2 call)	105 (99 regular and 6 scan edges)	328*1 (99 regular, 6 scan edges and 1 call for each band plus 10 satellite memories)	
	Dimensions (W×H×D); Projections are not included.	240×95×239mm; 9 ⁷ / ₁₆ ×3 ³ / ₄ ×9 ¹³ / ₃₂ in	167×58×200mm; 6 ⁹ / ₁₆ ×2 ⁹ / ₃₂ ×7 ⁷ / ₈ in	167×58×200mm; 6 ⁹ /16×2 ⁹ /32×7 ⁷ /8in	241×94×239mm; 91/2×3 ¹¹ /16×9 ¹³ /32in	
	Weight (approx.)	3.8kg; 8.4lb	2.45kg; 5.4lb	2.0kg; 4.4lb	4.5kg; 9.9lb (IC-910H) 850g; 1.9lb (UX-910)	
tter	Output power	SSB, CW, RTTY: 2–100W AM: 2–40W	SSB, CW, RTTY, FM: 1.8–50MHz 5–100W 144MHz 5–50W 430(440)MHz 2–20W AM: 1.8–50MHz 2–40W 144MHz 2–20W 430(440)MHz 2–8W	SSB, CW, RTTY, FM: at 13.8V DC 0.1–10W at 9.6V DC 0.1–5W AM: at 13.8V DC 0.1–4W at 9.6V DC 0.1–2W	144MHz 5–100W 430 (440) MHz 5–75W 1200MHz* ¹ 1–10W	
Transmitter	Spurious emissions	Less than -50dB	–50dB typical (HF) Less than –60dB (other bands)	Less than -50dB (HF) Less than -60dB (50MHz)	Less than -60dB (144/430MHz) Less than -50dB (1200MHz*1)	
Ĕ	Carrier suppression	More than 40dB	More than 40dB	More than 40dB	More than 40dB	
	Unwanted sideband	More than 50dB	More than 50dB	More than 50dB	More than 40dB	
	Microphone connector	8-pin connector (600Ω)	8-pin modular (600Ω)	8-pin modular (600Ω)	8-pin connector (600Ω)	
Receiver	Sensitivity (typical) Preamp ON SSB, CW, RTTY, AM: at 10dB S/N FM, WFM: at 12dB SINAD	SSB, CW, RTTY 1.8–29.999MHz 0.16μV AM: 0.5–1.799MHz 13μV 1.8–29.999MHz 2.0μV	SSB, CW: 1.8–30MHz 50MHz 0.15µV 144/430(440)MHz0.11µV AM: 0.5–1.8MHz 13µV 1.8–30MHz 2.0µV 50MHz 1.0µV 144/430(440)MHz1.0µV FM: 28–30MHz 0.5pV 50MHz 144/430(440)MHz1.8µV WFM: 76–108MHz 10µV	SSB, CW: 1.8–30MHz 0.16μV 50MHz 0.13μV AM: 0.5–1.8MHz 13μV 1.8–30MHz 2.0μV 50MHz 1.0μV FM: 28–30MHz 0.5μV 50MHz 0.25μV	SSB, CW: 0.11μV FM: 0.18μV	
Rece	Selectivity	SSB, CW, RTTY: 2.1kHz/–6dB 4.5kHz/–60dB AM: 6.0kHz/–6dB 20kHz/–40dB	SSB, CW, RTTY: 2.4kHz/–6dB 4.8kHz/–60dB AM, FM-N: 8.0kHz/–6dB 30kHz/–36dB FM: 12kHz/–6dB 30kHz/–50dB	SSB, CW: 2.4kHz/–6dB (2.4kHz) 4.0kHz/–60dB AM, FM-N: 9.0kHz/–6dB (6kHz) 20kHz/–50dB FM: 15kHz/–6dB (15kHz) 30kHz/–50dB	SSB, CW: 2.3kHz/–6dB 4.2kHz/–60dB FM: 15kHz/–6dB 30kHz/–60dB FM-N: 6.0kHz/–6dB 18kHz/–60dB	
	Spurious and image rejection (except IF)	More than 70dB	More than 70dB (HF) More than 65dB (other bands; except IF point on 50MHz band)	More than 70dB (HF) More than 65dB (50MHz band; except IF point)	More than 60dB (144/430MHz band) More than 50dB (1200MHz band*1)	
	AF power at 10% distortion with an 8Ω load	More than 2.0W	More than 2.0W	More than 1.0W (at 13.8V DC)	More than 2.0W	
	External speaker connector	2-conductor 3.5 (d) mm (1/8")/8Ω	2-conductor 3.5 (d) mm (½")/8Ω	2-conductor 3.5 (d) mm (1/8")/8Ω	2-conductor 3.5 (d) mm (½")/8 Ω × 2 (for Main and Sub bands)	

 $^{^{\}star 1}$ An optional UX-910, 1200MHz band unit is required for 1200MHz operation. $^{\star 2}$ Guaranteed range 144–148, 430–450MHz

SPECIFICATIONS

MOBILE TRANSCEIVERS

	IC-2720H IC-2725E	IC-208H IC-E208	IC-V8000	IC-2200H
Frequency coverage (Differs according to version, Unit: MHz)	IC-2720H (U.S.A.): Tx 144–148,	IC-208H (U.S.A.): Tx 144–148, 440–450 Rx *1 118–173.995, 230–549.995, 810–999.990 IC-E208 (Europe): Tx 144–146, 430–440 Rx *2 118–173.995, 230–549.995, 810–999.990 IC-E208 (Europe-1) Tx/Rx 144–146, 430–440	U.S.A version Tx 144–148 Rx 136–174* ³	U.S.A. version: Tx
Max. current drain	VHF 12A UHF 11A	VHF 12A UHF 11.5A	15A	15A
Dimensions (WxHxD; Projections are not included.)	Main unit: 140×40×187mm; 5½×1 ⁹ /16×7 ³ /sin Controller: 140×50×24.5mm; 5½×1 ³¹ /s2× ³ /s2in	141×40×185.4mm; 5%16×1%16×75%16in	150×50×150mm; 5 ²⁹ ⁄32×1 ³¹ ⁄32×5 ²⁹ ⁄32in	140×40×146mm; 5½×19⁄16×53⁄4in
Weight (approx.)	Main unit: 1.25kg; 2.8lb Controller: 150g; 5.3oz	1.2kg; 2.65lb	1.09kg; 2.2lb	1.25kg; 2.75lb
Output power (at 13.8V DC; Differs according to version)	144MHz High: 50W Mid.: 15W (approx.) Low: 5W (approx.) 430 (440) MHz High: 35W Mid.: 15W (approx.) Low: 5W (approx.)	144MHz High: 55W Mid.: 15W (approx.) Low: 5W (approx.) 430(440)MHz High: 50W Mid.: 15W (approx.) Low: 5W (approx.)	High: 75W Mid-Hi: 25W (approx.) Mid-Lo: 10W (approx.) Low: 5W (approx.)	High: 65W Mid-Hi: 25W (approx.) Mid-Lo: 10W (approx.) Low: 5W (approx.)
Sensitivity (at 12dB SINAD)	Less than 0.18µV (144, 430(440) MHz bands)	Less than 0.18µV (144, 430(440) MHz bands)	0.15μV typ.	0.133 <i>µ</i> V typ.

^{*1} Guaranteed range 144–148 and 440–450MHz. Cellular blocked. *2 Guaranteed range 144–146 and 430–440MHz. *3 Guaranteed range 144–148MHz. *4 Guaranteed range 144–146MHz.

HANDHELD TRANSCEIVERS

	IC-T90A IC-E90	IC-W32A/E	IC-T7H	IC-T3H IC-V8
Frequency coverage (Differs according to version, Unit: MHz)	IC-T90A (U.S.A.): Tx 50-53.995 144-148 430-450*2 Rx 0.495-999.990*3 IC-E90 (Europe): Tx 50-52 144-146 430-440 Rx 0.495-999.990	U.S.A. Version: Tx 144–148	U.S.A. Version Tx 144–148 430–450*2 Rx 118–174*1 400–470*2 Europe Version Tx/Rx 144–146 430–440	IC-V8 (U.S.A.): Tx
Dimensions (WxHxD; Projections are not included.)	58×87×29mm; 2 ⁹ ⁄ _{32×} 37⁄ _{16×} 1 ⁵ ⁄ ₃₂ in	57×137×33mm; 2 ¹ /4×5 ¹³ / _{82×} 15/16in with BP-173/BP-180	57×122×29mm; 2 ¹ /4×4 ¹³ / _{16×1} 5/ _{16in} with BP-173/BP-180	54×132×35mm; 2½×5¾6×1¾in
Weight (approx.)	280g; 9.9oz with antenna and BP-217	450g; 1 lb with antenna and BP-173	320g; 11.3oz with antenna and BP-180	350g; 12.3oz with antenna and BP-222
Output power (typical values)	5W, 0.5W at 8.0V DC	5W, 0.5W at 13.5V DC	6.0W, 0.5W at 13.5V DC	5.5W, 0.5W at 7.2V DC
Sensitivity (at 12dB SINAD)	0.16µV typ. (50, 144, 430 (440) MHz bands)	Less than 0.16 μ V (Less than 0.32 μ V for sub band)	Less than 0.18μV	0.16μV typ.

^{*1} Guaranteed range 144–148MHz. *2 Guaranteed range 440–450MHz. *3 Cellular blocked. *4 Guaranteed range 144–146MHz. *5 Guaranteed range 430–440MHz.



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