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SCON

ISB

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AF/RF/SOL

NOX

TWIN PBT

FIL2 P.AMPT MN NB

070,50

HF/50/144/430 MHz MULTIMODE PORTABLE TRANSCEIVER



Be Active In the field with the IC-705

MULTIGE

CENT/FIX EXPD/SET

MENU PUNCTION M.SCOPE QUICK BATT

RITATX

XFC

MPAD

SCAN

1888 PES

HF to 430 MHz Multiband and Multimode Inclu "Base Station" performance and features in the palm of your h

HF/50/144/430 MHz Multimode

From HF to 50/144/430 MHz, you can enjoy a variety of bands in the D-STAR DV, SSB, CW, RTTY, AM and FM modes. The IC-705 receives continuously from 30 kHz through the 144 MHz band. You can also enjoy FM broadcast and air band reception.

RF Direct Sampling System

The IC-705 employs an RF direct sampling system, where RF signals are directly converted to digital data. Then processed in the FPGA (Field-Programmable Gate Array), making it possible to simplify the circuit construction as well as reducing internal noise that can mask weak signals. * The down-conversion IF sampling method is used for 25 MHz and above.



Real-Time Spectrum Scope and Waterfall Display



Display example of real-time spectrum scope and waterfall

Performance seen with the IC-7300 and IC-9700 spectrum scope is at the tip of your fingers for field operation. You can quickly see band activity as well as finding a clear frequency, all in the compact radio and not as an expensive add-on.

Large Touch Screen Colour Display

The large 4.3" colour TFT touch LCD, same size as the IC-7300 and IC-9700, offers intuitive operation of functions, settings, and various operational visual aids, such as the band scope, waterfall, and audio scope functions.



Menu screen example

Compact and Lightweight Design



"Base Station" performance in the palm of your hand! You will quickly see how this compact radio is rugged, for outdoor use, in a small, lightweight package, weighing approximately 1.1 kg.

BP-272 Li-ion Battery Pack or 13.8 V DC External Power Supply



BP-272 attached (Rear panel view)

Utilizing the high capacity Li-ion battery from the ID-51E and ID-31E handheld radios. A 13.8 V DC external power supply can be used for operation and charging of the BP-272.



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Maximum Output Power 5 W (BP-272), 10 W (13.8 V DC)

In portable mode, the IC-705 has the maximum output power of 5 W from the BP-272 which can last approximately 3 hours*. This is perfect for true 5 W QRP as well as the 0.5 W QRPp operations. Once you setup with a 13.8 V DC power source, you have up to 10 W.

tenna and antenna connector are not included

* TX : RX : Standby = 1 : 1 : 8 (The Power Save function ON, in the FM mode)

WLAN/Bluetooth® Technologies Bluetooth

Utilize WLAN/Bluetooth® technologies for linking and remote control*, for a true wireless operation. The VS-3 headset (optional) enables more comfortable operation via Bluetooth®.

* Those features will be available with future firmware upgrades.

GPS Functions

An internal GPS receiver and antenna enhance your operations by providing location logging*, RX/TX locations via D-PRS, "Near Me" repeater search/scan, QSO recording with metadata*, and internal clock synchronization.

* A microSD memory card is required.

microSD Card Slot

The microSD card slot enables the storage of user profiles, QSO recording, TX voice memory keyer, RTTY logging, GPS data, screen capture, firmware upgrades, and programming.

Micro USB Connector

In addition to the two COM ports, radio control plus audio, the IC-705 can be charged via the micro USB port.

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In the field with the IC-705 **D-STAR Functions**



Enjoy the latest DV mode features with the IC-705. Have direct access to the D-STAR network with Terminal/Access point modes. Additionally, the IC-705 has the Photo Share feature introduced with the IC-9700. Share photos, without the need of a computer with other uses with an IC-705 and IC-9700.



Programmable **Speaker Microphone**

Enjoy portable operations with the supplied HM-243, programmable speaker microphone. Perfect for operation with the IC-705 safely secured in the optional LC-192 backpack. User assignable buttons put functions like frequency and volume adjustments at the tip of your fingers, without removing your backpack.

Optional Backpack, LC-192, Ideal for Field Operations

Designed to be the "Ultimate", must have accessory for the IC-705, the LC-192 is the perfect utility backpack. Features like a safety strap, with a 1/4"-20 mounting lug to keep the IC-705 from accidentally falling out of the custom radio compartment, to the user adjustable internal panels for custom compartments for antennas, battery packs, or other items necessary for an afternoon SOTA activation

705

HF/50/144/430 MHz MULTIMODE PORTABLE TRANSCEIVER





LC-192 Multi-function backpack



IC-705

SPECIFICATIONS

	Receiver	0.030-199.999*2, 400.000-470.000*2				
Frequency coverage ^{*1} (Unit: MHz)	Transmitter		3.500-3.800 14.000-14.350 24.890-24.990 44.000-146.000	7.000-7.200 18.068-18.168 28.000-29.700 430.000-440.000		
Mode		USB, LSB, CW, RTTY, AM, DV, FM, WFM (Rx only)				
No. of memory channels		500 regular (100 groups), 25 scan edges, 4 call (2 ch × 2 bands) channels				
Antenna connector		BNC connector (50 Ω)				
Power supply requirement		13.8 V DC ±15% (with external power supply) 7.4 V DC (with BP-272)				
Operating temperature range		-10°C to +60°C				
Frequency stability		Less than ± 0.5 ppm (-10°C to +60°C)				
Frequency resolution		1 Hz				
Current drain		13.8 V DC		7.4 V DC		
	TX (Max. power)	Less than 3 A (1	0 W) Le	ss than 2.5 A (5 W)		
	RX (Max. audio)	0.5 A (typica	ul)	0.8 A (typical)		
	RX (Standby)	0.3 A (typica	l)	0.5 A (typical)		
Dimensions (W×H×D, projections not included)		200 × 83.5 × 82 mm				
Weight (approximate)		1.1 kg (including BP-272)				

Some nequency bands are not g

TRANSMITTER					
		13.8 V DC	7.4 V DC		
Output power	SSB/CW/RTTY/FM/DV	0.1 – 10 W	0.1 – 5 W		
	AM	0.025 – 2.5 W	0.025 – 1.25 W		
Modulation system	em	SSB : Digital PSN modulation, AM : Digital low power modulati FM : Digital reactance modulation, DV : Digital GMSK modulati			
Spurious emissi	ons	Less than -50 dB (HF), Less Less than -60 dB (144/430 M			
Carrier suppress	Carrier suppression More than 50 dB				
Unwanted sideband		More than 50 dB			

Receiver 0.030-2		4.999 MHz	RF Direct Sampling				
		and above		ion IF Sampling	а а		
Intermediate frequencies		25 MHz and above: 38.85 MHz±0.5 MHz					
Sensitivity			0.500-1.799 MHz	1.800-29.999 MHz	50 MHz	144/430 MHz	
		SSB/CW (10 dB S/N)	_	0.20 µV	0.15 µV	0.11 µV	
(HF: Preamp 50 MHz: Prea	amp-2 ON,	AM (10 dB S/N)	13.0 µV	2.0 µV	1.0 µV	1.0 µV	
144/430 MHz: Preamp ON)		FM (12 dB SINAD)	0.5 µV (28.000-29.700 MHz)		0.25 µV	0.18 µV	
	DV (1% BER)(PN9)	1.0 µV (28.000	–29.700 MHz)	0.63 µV	0.35 µV		
Sensitivity for		1.8-2.999 MHz	3.0-29.995 MHz	50 MHz	144/430 MHz		
	RED version (HF: Preamp-1 ON,	SSB (BW=2.4 kHz)	10 dBµV emf	0 dBµV emf	-6 dBµV emf	–6 dBµV em	
50 MHz: Prea 144/430 MH	amp-2 ON,	AM (4 kHz, 60% modulation)	16 dBµV emf	6 dBµV emf	0 dBµV emf	0 dBµV emf	
Preamp ON)	FM (7 kHz, 60% modulation)	0 dBµV emf (28.0)	00 to 29.700 MHz)	-6 dBµV emf	−6 dBµV em		
Selectivity (Filter: SHARP)		More than		Less than			
SSB (BW=2.4 kHz)		2.4 kHz/-6 dB		3.4 kHz/-40 dB			
CW (BW=500 Hz)		500 Hz/–6 dB		700 Hz/–40 dB			
RTTY (BW=500 Hz)		500 Hz/–6 dB		800 Hz/–40 dB			
AM (BW=6 kHz) FM (BW=15 kHz)		6.0 kHz/–6 dB		10 kHz/-40 dB			
		12.0 kHz/-6 dB 22 kHz/-40		–40 dB			
Ī	DV (12.5	5 kHz spacing)) Less than –50 dB				
Spurious and image rejection ratio (SSB/CW/AM/FM)		HF More than 70 dB* (except for ADC aliasing) 50 MHz More than 70 dB* 144 MHz More than 65 dB 430 MHz More than 54 dB *At Intermediate frequency in 25-30 MHz or 50-54 MHz; More than 50 dB					
Audio out	tput	Internal SP	More than 530	mW (12 Ω load	at 10% distorti	on)	
power	External SP	More than 200	mall/ (0 O laged	at 100/ distantia			

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

Supplied Accessories

• HM-243 Speaker microphone • BP-272 Battery pack • OPC-2421 DC power cable



Optional Accessories

- BC-202IP3L Rapid charger (An AC adapter or CP-25H is required.)
- BC-123S AC adapter for BC-202IP3L single unit (Straight plug type is required)
- BC-228 AC adapter for BC-202IP3L multiple connections (Up to 6 x BC-202IP3L)
- BP-272 Li-ion battery pack 7.4 V, 2000 mAh (typ.)
- BP-307 Li-ion battery pack 7.2 V, 3150 mAh (typ.) (Available at a later date)
- CP-25H Cigarette lighter cable for single BC-202IP3L
- CS-705 Programming software for Windows®*
- HM-243 Speaker microphone
- OPC-2421 DC power cable
- OPC-2417 Data cable (Micro USB Micro USB)
- OPC-2418 Data cable (USB Type C Micro USB)
- RS-BA1 Version 2 IP remote control software
- RS-MS1A Remote control software for Android™*
- RS-MS3A Remote control software for Android™*
- RS-MS3W Remote control software for Windows®*
- ST-4001A Picture utility software for Android™*
- ST-4001I Picture utility software for iOS™*
 ST-4001W Picture utility software for Windows®*
- VS-3 Bluetooth® headset
- V3-3 Didelootin headset
- AH-705 Antenna tuner (Available at a later date)
 * Download free software



Preferred Partner Product

AL-705
 QRP Portable Magnetic Loop Antenna
 10 – 40 meter (7.0 – 29.7 MHz)
 by Alpha Antenna ™
 Deployed Diameter: 67 cm
 Stored Size: 25 × 28 × 6 cm
 Antenna Weight: 860 g

* For purchasing, please contact your local Icom dealer.

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