O ICOM

VHF AND UHF TRANSCEIVERS

IC-F3162DT IC-F3162T IC-F3162DS IC-F3162S

IC-F4162DT IC-F4162T IC-F4162DS IC-F4162S





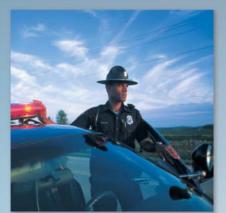


IP55



Analogue **IDAS[™] dPMR**[™] IDAS[™] NXDN[™]









512 ch / 128 zones Conventional/ BIIS 1200 mode

IDAS[™] dPMR[™] IDAS[™] NXDN[™]

2-Tone, 5-Tone CTCSS, DTCS

VHF 5W, UHF 5W output

14 hrs. operating time with BP-232H

Full dot-matrix LCD

Digital'/Analogue Multi-Mode Pro

* With IC-F3162D/F4162D "D" version.



▲ IC-F3162DT/T



battery case BP-240 provides a convenient back up and great reassurance in an emergency. * Typical operation Tx:Rx:Stand-by=5:5:90, power save on

iet resistance

Most popular signalings built-in

IP55 Dust-protection and water

The IC-F3162/D series meets IP55 requirements for dust-protection and water jet resistance. Its durable construction is backed up by the aluminum die-cast chassis and polycarbonate casing, allowing reliable operation under harsh weather and environmental conditions.

The 2300mAh Li-Ion battery pack, BP-232H. provides 14 hours* of operating time. Icom's rugged dual-rail guide securely locks the battery to the radio. The optional

Lithium-Ion battery pack

The 2-Tone, 5-Tone, CTCSS, DTCS and BIIS signaling capabilities are built-in for group communication or selective calling. Also, the IC-F3162/D series can decode ten 2-Tone codes or eight 5-Tone codes on a channel. When a matched tone is received, the following actions are programmable for each code. Bell icon

- Beep sound
- Auto TX
- Scan • Radio stun/kill/revive

Answer back call

Wide frequency range and large channel capacity

The IC-F3162/D series covers a wide frequency range in one version (VHF 136-174 MHz, UHF 400-470MHz). The 512 memory channel capacity with 128 zones allows you to divide and store a variety of flexible channel groupings. Memory channel selection can be made with a simple rotation of the rotary channel knob. Wide, middle and narrow channel bandwidth (25/20/ 12.5kHz)* is also programmable.

* Programmable 25/12.5kHz or 20/12.5kHz

Voting operation (Analogue mode only)

The voting mode scanning detects the signal strength level of repeater stations and automatically selects the strongest station, useful for roaming between 2 or more repeater sites. Once you program the voting mode to a memory zone, you can easily start voting mode operation by changing the zone setting.

UHF TRANSCEIVERS IC-F4162DT/T IDAS digital/analogue FM with 10-keypad

▲ IC-F4162DS/S

IC-F4162DS/S IDAS digital/analogue FM without 10-keypad

ofessional

Full dot-matrix LCD

Using a large full dot-matrix LCD (32×18 mm), the IC-F3162/D series shows upper and lower case characters clearly. The display setting is selectable from 1 line, 12 characters or 2 lines 24 characters via programming. The bottom row shows assigned functions to the [P0] to [P3] buttons.



Enhanced audio

The IC-F3162/D series employs a BTL amplifier that increases the audio output and the built-in audio compander provides clear. low noise communications.

Built-in inversion-type voice scrambler

The built-in inversion type analogue voice scrambler* provides secure conversation as standard. When a more secure system is required, optional voice scrambler UT-109R or UT-110R are available.

* Inversion type voice scrambler is not compatible with UT-109R/UT-110R voice scrambler.

BIIS 1200 compatible

The following selective calling and data features are available with the built-in BIIS system.

- 32 abbreviated call memories
- 7 group IDs • 24-status Messages
- Send 12-character SDM (Short Data Message)
- Receive up to 95 characters of free text
- · GPS position reporting function with optional HM-170GP

Other features

- Built-in LTR[™] trunking and MDC 1200 capability* (* Depending on version)
- 8 DTMF autodial memories
- · 2 step reduced power setting
- · Power on password
- Busy, repeater lockout functions
- Surveillance function temporarily turns off the LED backlight and beep sound
- Powerful 5W output and more...

DTIONIC

OPTIO	NS	Some opt	ions may not be ava	ailable in som	e countries	. Please	ask your dealer f	or details.
BATTERY PACKS AND CASE				Battery packs	Type and capacity		Operating time*	Output power
			Law Control of Control	BP-230N	Li-lon 7.4V/ 980mAh		5.5 hours	5W
In a second	tos entres tes - Tablica			BP-232N	Li-lo 7.4V/200		12 hours	5W
Company and the second se	A lange and the set of a set of the set of a set of a set of the set of the set of a set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set	A design and the second secon		BP-232H	Li-lo 7.4V/230		14 hours	5W
Land Land La			4	BP-240	AAA (LR03) batteries × 6		_	1W
BP-230N	BP-232N	BP-232H	BP-240	* Operating tim Power save of		imate time	(at 20°C). Tx: Rx:	standby=5:5:90.
REGULAR CHARGER RA			RAPID CHARGE	R		RAPID	CHARGER	
BC-1475*	Der l	71	BC-1455"	BC-160		BC-1	455*1	BC-119N
Charges the BP-2			Charges the BP-232			Charge	e the BP-232N in	3 hours. (approx.)
BC-145/BC-147		9	AC. SV for 240V AC.	BC-145SUK fo INTERNAL UT-109R Non-rolling t voice scram	UNITS	HIOR ng type scrambler	UT-124R Man down unit	UT-126H NXDN CAI-based IDAS digital unit
*2 Charger adap								
SPEAKER-MICF	OPHONES	GPS	-	EA	RPHONE	s		-

SP-27

CP-23L

BC-119N

Tube earphone

POWER SUPPLY CABLES



HEADSETS AND PTT/VOX UNIT





IDAS digital mode ready

IDAS (Icom Digital Advanced System) is Icom's digital land mobile system using the 6.25kHz narrowband FDMA technology. IDAS has choice of an NXDN™ protocol or an ETSI dPMR[™] protocol. See the IDAS and dPMR brochures for details.



OPC-515L For use with BC-119N

SP-13

Earphone

with For use BC-197

OPC-656

AD-52

Required when

these earphone

using any of

- FA-SC56VS: 150–162MHz FA-SC57VS: 160–174MHz • FA-SC73US: 450-490MHz • FA-SC61VC: 136-174MHz • FA-SC61UC: 380-520MHz HIGH GAIN ANTENNAS • FA-SC62V: 150-160MHz • FA-SC63V: 155-165MHz
- FA-SC25V: 136–150MHz • FA-SC55V: 150-174MHz
- FA-SC25U: 400-430MHz
- FA-SC57U: 430-470MHz



SPECIFICATIONS

	IC-F3162DT/DS IC-F3162T/S	IC-F4162DT/DS IC-F4162T/S			
GENERAL	101101021/0	10111021/0			
Frequency coverage	136–174MHz	400–470MHz			
Number of channels	512 channels/128 zones				
Channel spacing	25/20/12.5kHz				
	6.25kHz (Digital version)				
Type of emission	16K0F3E, 14K0F3E, 8K50F3E,				
	4K00F1E/F1D (Digital version)				
Frequency stability	±1.0ppm				
Antenna impedance	50Ω				
Operating temperature range	–25°C to +55°C				
Power supply voltage	7.2V DC nominal				
Current drain (at 7.2V DC)					
TX 5W	1.5A	1.8A			
RX Stand-by	100mA	100mA			
Digital	150mA	140mA			
Rated output	600mA	600mA			
Dimensions (W×H×D)	53×136×38.5 m	53×136×38.5 mm (with BP-232N)			
(Projections not included)	Projections not included)				
Weight (approx.)	340g (with BP-232N)				
TRANSMITTER					
Output power	5W, 2W, 1W (Hi, L2, L1)				
Max. frequency deviation	±5.0kHz/±4.0kHz/±2.5kHz (W/M/N)				
Spurious emissions	0.25µW (≤1GHz)				
	1.0µW (>1GHz)				
Audio harmonic distortion	3% typ. (AF 1kHz, 40% deviation)				
FSK error (Digital)	5% Max.				
Modulation limiting	60–100% of max. deviation				
Ext. microphone connector	9-pin multi connector/2.2kΩ				
RECEIVER					
Sensitivity 20dB SINAD	-4dBµV typ. (emf)				
5% BER	-8dBµV typ. (emf)				
Adjacent channel selectivity	75/75/68dB typ. (W/M/N)				
Spurious response	70dB min.				
Intermodulation rejection	67dB typ.				
Hum and noise ratio	55/53/50dB typ. (W/M/N)				
Audio output power	500mW typ. at 5% distortion with an 8Ω load				
Ext. speaker connector 9-pin multi connector/8Ω					
Measurements made in accord	dance with EN 300-086.				

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

Applicable U.S. Military Specifications & IP Rating

Icom makes rugged products that have been tested to and passed the following MIL-STD requirements and Ingress Protection standards.

Standard	MIL 810F				
Stanuaru	Method	Procedure			
Low Pressure	500.4	I, II			
High Temperature	501.4	I, II			
Low Temperature	502.4	I, II			
Temperature Shock	503.4	Ι			
Solar Radiation	505.4	Ι			
Rain Blowing/Drip	506.4	I, III			
Humidity	507.4	-			
Salt Fog	509.4	-			
Dust Blowing	510.4	Ι			
Vibration	514.5	Ι			
Shock	516.5	I, IV			

Also meets equivalent MIL-STD-810-C, -D and -E.

Ingress Protection Standard

IP55 (Dust-protection and water jet resistance) Dust & Water

VERSION COMPARISON

	IC-F3162DT/DS IC-F4162DT/DS (IDAS dPMR version)	IC-F3162DT/DS IC-F4162DT/DS (IDAS NXDN version)	IC-F3162T/S IC-F4162T/S (FM version)
CTCSS/DTCS (Analogue)	~	~	 ✓
5-Tone enc/dec (Analogue)	~	 ✓ 	 ✓
2-Tone enc/dec (Analogue)	~	 ✓ 	 ✓
DTMF autodial (Analogue)	~	 ✓ 	 ✓
DTMF decoder (Analogue)	~	 ✓ 	~
BIIS 1200 (Analogue)	~	 ✓ 	~
MDC 1200 (Analogue)	-	 ✓ 	 ✓
LTR trunking (Analogue)	-	 ✓ 	~
Voice scrambler (Analogue)			
Inversion	✓	~	~
Non-Rolling	UT-109R	UT-109R	UT-109R
Rolling	UT-110R	UT-110R	UT-110R
Man Down Function	UT-124R	UT-124R	UT-124R
IDAS dPMR			
Mode 1/2	 ✓ 	-	-
Mode 3	Planned	-	-
IDAS NXDN			
Conventional mode	-	✓*	UT-126H
Single-site type D trunking	-	✓*	UT-126H
Multi-site type D trunking	-	✓*	UT-126H

* UT-126H is already installed in the IDAS NXDN version.



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