



VHF AND UHF TRANSCEIVERS

IC-F12

(VHF transceiver, 16 channel type)

IC-F12S

(VHF transceiver, 2 channel type)

IC-F22

(UHF transceiver, 16 channel type)

IC-F22S

(UHF transceiver, 2 channel type)

Rugged

MIL-STD 810

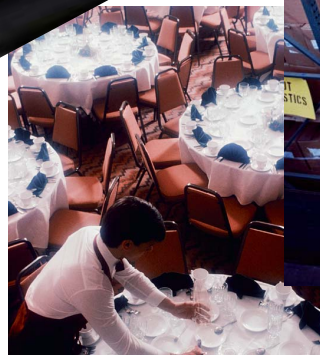


▲ Toggle type

- Simple operation with minimum switches
- Built-in 5-tone, CTCSS, DTCS encode/decode plus DTMF encode
- MIL specification rugged construction
- 16 position rotary channel type or 2 position toggle channel type
- Powerful 5W of VHF and 4W of UHF output power
- Selectable 12.5kHz or 25kHz channel spacing
- Optional Ni-MH battery pack or alkaline battery case available
- Wide range of accessories available

Simple but effective for your Business

◀ Rotary type



Icom Inc.

SPECIFICATIONS

GENERAL

- Frequency coverage (MHz)
 - IC-F12/S : 146-174
 - IC-F22/S : 400-430 440-470
- Channel spacing : 12.5/25kHz or 12.5/20kHz
- Number of channels : 16 (IC-F12, IC-F22)
 - 4 (IC-F12S, IC-F22S)
- PLL channel step
 - IC-F12/S : 2.5kHz or 3.125kHz
 - IC-F22/S : 5kHz or 6.25kHz
- Power supply requirement : 7.2V DC
- Current drain (approx.)
 - Tx High (VHF/UHF) : 1.6A
 - Rx Rated audio : 250mA
 - Standby : 70mA
- Frequency error : ±2.0kHz (wide, middle)
 - ±1.5kHz (narrow)
- Operating temp. range : -25°C to +55°C
- Dimensions (proj. not included) : 54(W)×128(H)×37(D)mm
- Weight (approx.) : 310g (with BP-209)

TRANSMITTER

- Output power (at 7.2V DC)
 - IC-F12/S : 5W, 2W, 1W
 - IC-F22/S : 4W, 2W, 1W
- Max. frequency deviation: ±5.0kHz (wide)
 - ±4.0kHz (middle)
 - ±2.5kHz (narrow)
- Spurious emissions : 0.25µV (below 1GHz)
- Adjacent channel power : 70dB (wide, middle)
 - 60dB (narrow)
- External mic. connector : 3-conductor 2.5(d)mm /2.2kΩ

RECEIVER

- Sensitivity (at 20dB SINAD) : 0.63µV typ. emf
- Squelch sensitivity : 0.3µV typ. (threshold)
- Adjacent Ch. selectivity : 70dB (wide, middle)
 - 60dB (narrow)
- Spurious response : 70dB
- Intermodulation rejection : 65dB

- Audio output power : 500mW typ. (at 5% distortion at 7.2V DC) with an 8Ω load)
- External SP. connector : 2-conductor 3.5(d)mm /8Ω

Supplied accessories:
 • Battery pack; BP-209N • Belt clip; MB-103 • Antenna

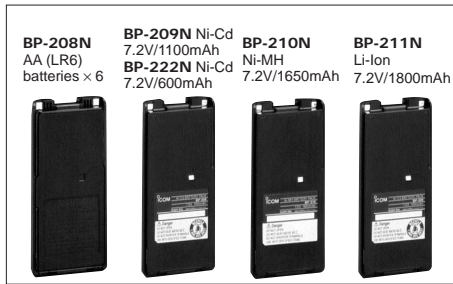
Applicable U.S. Military Specifications

Standard	MIL 810 C		MIL 810 D		MIL 810 E		MIL 810 F	
	Method	Proc.	Method	Proc.	Method	Proc.	Method	Proc.
Low Pressure	500.1	I	500.2	I, II	500.3	I, II	500.4	I, II
High Temp.	501.1	I	501.2	I, II	501.3	I, II	501.4	I, II
Low Temp.	502.1	I	502.2	I, II	502.3	I, II	502.4	I, II
Temp. Shock	503.1	I	503.2	I	503.3	I	503.4	I
Solar Radiation	505.1	I	505.2	I	505.3	I	505.4	I
Rain	506.1	I, II	506.2	I, II	506.3	I, II	506.4	I, II
Humidity	507.1	I, II	507.2	II, III	507.3	II, III	507.4	-
Salt Fog	509.1	I	509.2	I	509.3	I	509.4	-
Dust	510.1	I	510.2	I	510.3	I	510.4	I
Vibration	514.2	VIII, X	514.3	I	514.4	I	514.5	I
Shock	516.2	I, II, V	516.3	I, IV	516.4	I, IV	516.5	I, IV

Measurements made in accordance with ETS 300 086. All stated specifications are subject to change without notice or obligation.

OPTIONS

Some options may not be available in some countries. Please ask your dealer for details.



BATTERY PACKS AND CASE	BP-208N	BP-209N	BP-210N	BP-211N	BP-222N
OUTPUT POWER	1W typ.	5/4W typ.	5/4W typ.	5/4W typ.	5/4W typ.
BATTERY LIFE	-	8.5hours	13hours	14hours	4.5hours

Battery life is approx. time; (Tx (Hi): Rx: standby=5:5:30)



BC-146 DESKTOP CHARGER + BC-147A/E AC ADAPTER
 Charges the battery pack, BP-209N, BP-210N or BP-222N with/without transceiver in 12, 18.5, 6.5 hours (approx.), respectively. Cannot charge Li-Ion battery pack, BP-211N.



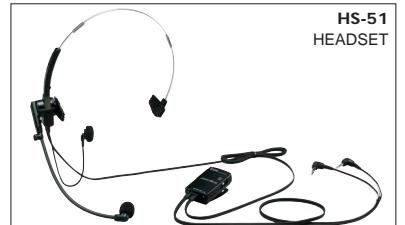
BC-144N DESKTOP CHARGER + BC-145A/E/V AC ADAPTER
 For rapid charging battery pack, BP-209N, BP-210N or BP-222N in 1.5 to 2 hours. An AC adapter, BC-145, is supplied with the charger depending on version. Cannot charge Li-Ion battery pack, BP-211N.
BC-119N+AD-101+BC-145A/E/V rapidly charges BP-211N as well as other battery packs.
BC-121N MULTI-CHARGER + AD-101 DESKTOP CHARGER ADAPTER + BC-124 AC ADAPTER
 For rapid charging up to 6 battery packs (includes BP-211N) in 1.5 to 2 hours. Six AD-101s are required.
OPC-656 DC POWER CABLE; For use with the BC-121N. (12-20V DC required.)



SPEAKER-MICROPHONE
 Slim dimensions. Equipped with an earphone jack and a transmit indicator.



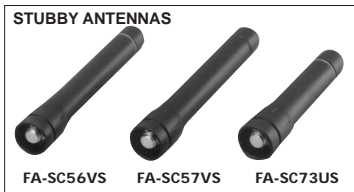
HEADSETS and PTT/VOX UNIT
 HS-94: Earhook headset with flexible boom microphone.
 HS-95: Behind-the-head headset with flexible boom microphone.
 HS-97: Throat microphone fits around your neck and picks up a speech vibration.
 VS-1L: PTT/VOX unit. Required when using these headsets with the transceiver.



HS-51 HEADSET
 For hands-free operation. Includes VOX, PTT and "one-touch" PTT with a time-out timer.



BELT CLIPS
 MB-103: Alligator type clip.
 MB-86: Swivel belt clip.



	Freq. range	Length	Ring Color
FA-SC56VS	146-162MHz	80mm	Red
FA-SC57VS	160-174MHz	80mm	Green
FA-SC73US	450-490MHz	60mm	Red



SP-13 EARPHONE
 Provides clear audio in noisy environments.



AD-98FSC ANTENNA CONNECTOR ADAPTER
 Allows you to connect a BNC-type antenna. (For maintenance use only)



LEATHER BELT HANGERS
 MB-96N: Swivel type belt hanger.
 MB-96F: Fixed type belt hanger for use with MB-103.

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