



VHF AND UHF TRANSCEIVERS

IC-F11
(VHF transceiver, rotary type)

IC-F11S
(VHF transceiver, toggle type)

IC-F21
(UHF transceiver, rotary type)

IC-F21S
(UHF transceiver, toggle type)



Perfect for Business, Big or Small

The on-site communications solution

For small business, hotels, hospitality, landscape, nursery, etc. who need economical and instant two-way communications. Also a wireless intercom solution for large retailers, warehouses, etc.

Keep in touch without interruption

Keep all your associates in-touch instantly without the interruption of a public address system or the expense and complication of a cell phone. Answer customer inquiries, check stock, arrange special handling, and provide better service to your customers right from the retail sales floor. Increase productivity at the same time you improve service.

Twice as much power than other models

Use a full 5/4 watts when you need it, or select a lower setting if you don't...you decide. Increase the range of your transmissions out-doors, and indoors where obstacles and walls offer challenges to your current equipment. Crystal clear communications.

Simple controls, easy to use

Transmit button, volume control and channel selector are all you need. All three controls may be operated without removing from your belt. The perfect business tool that doesn't require training to use. Great for high turnover or retail shift situations.

Military rugged construction

Don't let the light weight or compact body fool you. This is a military spec. rugged radio that can take abuse and keep working. Don't worry about special training. Just put them out in the workplace and let them do their job.

Wide/narrow capability - a good investment

May be operated on 12.5 or 25kHz wide channels. Easy transition to the new narrow channels as regulations will move in that direction in several years. A good investment that will adapt to the future. Won't be obsolete as the rules change.

Multiple group and individual selective calling

Use the built-in signaling capability (2-tone, 5-tone, CTCSS, DTCS) to set up your own talk groups and quiet the radio when others are talking. You can set up selective calls to individuals too. Keep private communications private and eliminate unnecessary interruptions and gossip in the workplace.

Other features

- Compact and lightweight – carry all day with no fatigue
- Ni-Cd battery and drop-in battery charger* included (* depending on versions)
- Optional speaker mic, VOX headset, and much more
- Optional alkaline or Ni-MH battery pack

Rugged
MIL-STD 810



IC-F21S
Toggle type radio

IC-F21
Rotary type radio

Icom Inc.

SPECIFICATIONS

GENERAL

- Frequency coverage (MHz)
 - IC-F11/IC-F11S : 146–174
 - IC-F21/IC-F21S : 400–430 440–470
- Channel spacing : 12.5/25 kHz
- Number of channels : 16 (IC-F11, IC-F21)
- PLL channel step : Max. 4 (IC-F11S, IC-F21S)
- Power supply requirement : 2.5kHz, 3.125kHz (VHF) 5kHz, 6.25kHz (UHF)
- Current drain (approx.) : 7.2V DC
 - Tx High (5W/4W) : 1.6A
 - Rx Rated audio : 250mA
 - Standby : 70mA
- Frequency stability : ±5ppm (VHF), ±2.5ppm (UHF)
- Operating temperature range : –30°C to +60°C ; –22°F to +140°F
- Dimensions (W×H×D) : 54×128×37 mm (proj. not included) ; 2 1/8×5 1/32×1 1/8 in
- Weight (with BP-209N) : 310g; 10.9oz

TRANSMITTER

- Output power (at 7.2V DC) : 5W, 2W or 1W (VHF) 4W, 2W or 1W (UHF)
- Max. frequency deviation : ±5.0kHz (at 25kHz) ±2.5kHz (at 12.5kHz)
- Spurious emissions : 73dBc typ.
- Adjacent channel power : 70dB typ. (at 25kHz) 60dB typ. (at 12.5kHz)
- External mic. connector : 3-conductor 2.5 (d) mm (1/16")/2.2kΩ

RECEIVER

- Sensitivity : 0.25µV typ. (at 12dB SINAD)
- Squelch sensitivity : 0.3µV typ. (at threshold)
- Adjacent channel selectivity : 70dB typ. (at 25kHz) 65dB typ. (at 12.5kHz)
- Spurious response rejection : 70dB typ.
- Intermodulation rejection : 70dB typ.

- Audio output power : 500mW (typical at 5% distortion with an 8Ω load) (at 7.2V DC)
- External speaker connector : 2-conductor 3.5 (d) mm (1/8")/8Ω

Supplied accessories:

- Battery pack; BP-209N*
- Belt clip; MB-103
- Antenna (varies from versions)
- * depending on version

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 EIA-152-C/204D or TIA-603. 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	–	8.5 hours	13hours	14hours	4.5hours

Battery life is approx. time; (Tx (Hi): Rx: standby=5:5:90)



BC-146 DESKTOP CHARGER + BC-147 AC ADAPTER
Charges the Ni-Cd or Ni-MH battery pack, BP-209N, BP-210N, BP-222N with/without transceiver in 12, 18.5, 6.5 hours (approx.). The BC-147 AC adapter is additionally required. Cannot charge Li-Ion battery pack, BP-211N.



BC-144N DESKTOP CHARGER + BC-145A/E/V AC ADAPTER
For rapid charging of battery pack, BP-209N, BP-210N or BP-222N. An AC adapter, BC-145, is supplied with the charger depending on version. Charging time: 1.5 to 2 hours. 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 CHARGER ADAPTER + BC-157 AC ADAPTER
For rapid charging of up to 6 battery packs (including BP-211N) in 1.5 to 2 hours. Six AD-101s are required. OPC-656 DC POWER CABLE; For use the BC-121N with a DC power supply (12–20 V DC).



HM-153L: Durable earphone-microphone with revolving clip and screw-type connector.
HM-158L: Compact and durable body with screw-type connector.
HM-159L: Full size durable speaker microphone with revolving clip.
HM-46L: Slim dimensions speaker microphone.



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 HS-51 is also optionally available. Includes VOX, PTT and "one-touch" PTT with a time-out timer. (UHF only in U.S.A. and Canada)



ANTENNA CONNECTOR ADAPTER AD-98FSC: 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. Use with MB-103.
EARPHONE SP-13: Provides clear audio in noisy environment.
STUBBY ANTENNAS
FA-SC56VS: 150–162MHz, 80mm
FA-SC57VS: 160–174MHz, 80mm
FA-SC73US: 450–490MHz, 60mm
CUT ANTENNAS
FA-SC61VC: 136–174MHz
FA-SC61UC: 380–520MHz
Cut the antenna element to tune to a specific center frequency.

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