



## 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

Meets  
**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 (rotary type)  
4 (toggle type)
- PLL channel step : 2.5kHz, 3.125kHz (VHF)  
5kHz, 6.25kHz (UHF)
- Power supply requirement : 7.2V DC
- Current drain (approx.)
  - 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 1/2 in
- Weight (with BP-209) : 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

- 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-209
- Antenna (varies from versions)
- AC adapter; BC-147\*
- Belt clip; MB-68
- Battery charger; BC-146\*
- \* 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	502.4-3	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.

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.

OPTIONS



BATTERY PACKS AND CASE	BP-208	BP-209	BP-210	BP-211	BP-222
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-147A/E AC ADAPTER**  
Charges the Ni-Cd or Ni-MH battery pack, BP-209, BP-210, BP-222 with/without transceiver in 12, 18.5, 6.5 hours (approx.), respectively. The BC-147 AC adapter is additionally required. Cannot charge Li-Ion battery pack, BP-211.



**BC-144 DESKTOP CHARGER + BC-145A/E/V AC ADAPTER**  
For rapid charging of battery pack, BP-209, BP-210 or BP-222. 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-211.  
**BC-119N+AD-101+BC-145A/E/V** rapidly charges BP-211 as well as other battery packs.  
**BC-121N MULTI-CHARGER + AD-101 CHARGER ADAPTER + BC-124 AC ADAPTER**  
For rapid charging of up to 6 battery packs (Six AD-101s are required), BP-209, BP-210, BP-211 or BP-222. An AC adapter, BC-124, may be supplied, depending on version. Charging time: 1.5 to 2 hours.



**SPEAKER-MICROPHONES**  
HM-46L: Slim dimensions. Equipped with an earphone jack and a transmit indicator.  
HM-75A: Allows you to remotely select operating channel, etc., according to program.  
HM-128L: Compact and durable body. Equipped with an earphone jack and a revolving clip.  
HM-128L: Light weight earphone-mic. Compact microphone with PTT Switch clips to your lapel.



**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 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)

**AD-98FSC ANTENNA CONNECTOR ADAPTER**  
Allows you to connect a BNC-type antenna. (For maintenance use only)  
**MB-74 BELT CLIP**  
Alligator type.  
**MB-68 BELT CLIP**  
Same as that supplied.  
**OPC-656 DC POWER CABLE**  
For use the BC-121N with a DC power supply (12-20 V DC).  
**SP-13 EARPHONE**  
Provides clear audio in noisy environment.  
**STUBBY ANTENNA**  
FA-SC56VS: 146-162MHz, 80mm  
FA-SC57VS: 160-174MHz, 80mm  
FA-SC73US: 450-490MHz, 60mm

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Certificate Number Q14190

Icom Inc. (Japan), is an ISO9001 certification acquired company.

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