

# IC-F21BR

## Personal and Business Use, All In One Radio

- **GMRS**

General Mobile Radio Service – simple license required

Including 7 channels shared with

**FRS** Family Radio Service channels

- **BRS**

Business Radio Service – license required

## Combine Them As You Wish!



Use them for pleasure...



...AND for work!



### A better communications solution for pleasure...

For sportsmen, families, clubs, hobbies, boating, camping, fishing, hunting, biking, hiking, skiing and other leisure time activities. An FRS upgrade for more features, more power, and longer range.

### ...Or for business use

The perfect on-site communications solution designed 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.

### Increase productivity & reduce cost

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 and improve service.

### 4x more power than standard FRS

Get a full 2 watts when you need it. Increase the range of your transmissions outdoors up to 5 miles\*, and indoors where obstacles and walls offer challenges to your current equipment. Crystal clear communications in almost any situation!

\* Communications range may vary depending on operating environment, weather conditions.

### More channels than a standard FRS

With the popularity of FRS, many of those channels are busy. Choose from 36 higher power BRS or GMRS channels to locate a quiet channel for your use. 7 channels of GMRS are shared with FRS channels. You can communicate with any FRS radio on these 7 channels.

### Simple operation

All channels are pre-programmed internally. You simply select the ones you want and assign to the channel selector. Do it yourself, no programming required by your re-seller. A simple radio for anyone to operate, even those not familiar with radios.

### 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 to protect them.

### Other features

- Compact and light weight
- "Frequency Find" feature
- "Tone Find" feature (group code)
- Built-in CTCSS signaling capability
- Wide/narrow capability (12.5 or 25kHz wide channels)
- Adjustable squelch
- Drop-in battery charger included
- Optional speaker mic and VOX headset available
- Optional alkaline or Ni-MH battery pack

**SPECIFICATIONS**

- Frequency coverage : 462.550–469.550MHz
- Number of channels : 2 from 36 channels
- Power supply requirement : 7.2V DC (negative ground)
- Current drain :
  - Tx 1.2A
  - Rx Rated audio 250mA
  - Standby 70mA
- Operating temperature range :
  - 30°C to +60°C ; –22°F to +140°F
- Dimensions (WxHxD) : 54×128×37 mm (proj. not included) ; 2 1/8×5 1/32×1 15/32 in
- Weight (with BP-222) : 300g; 10.6 oz
- Output power (at 7.2V DC) : less than 2W
- External mic. connector : 3-conductor 2.5 (d) mm (1/10")/2.2kΩ
- Audio output power : 500mW (typical at 5% distortion with an 8Ω load)
- External speaker connector : 2-conductor 3.5 (d) mm (1/8")/8Ω

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

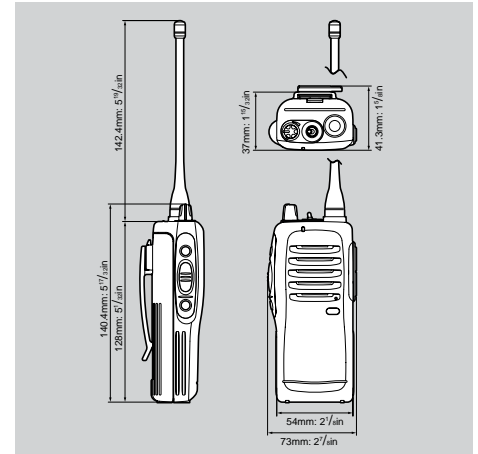
**Supplied accessories:**

- Battery pack; BP-222N
- Battery charger; BC-146
- Antenna; FA-SC57U
- Belt clip; MB-103
- AC adapter; BC-147A

**Applicable U.S. Military Specifications**

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

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



**OPTIONS**

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

**BP-208N** AA (LR6) batteries × 6

**BP-209N** Ni-Cd 7.2V/1100mAh

**BP-210N** Ni-MH 7.2V/1650mAh

**BP-211N** Li-Ion 7.4V/1800mAh

**BP-222N** Ni-Cd 7.2V/600mAh

BATTERY PACKS AND CASE	BP-208N	BP-209N	BP-210N	BP-211N	BP-222N
OUTPUT POWER	1W typ.	2W typ.	2W typ.	2W typ.	2W typ.
BATTERY LIFE	–	10hours	15.5hours	16.5hours	5.5hours

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

**BC-146** DESKTOP CHARGER + **BC-147A** 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.), respectively. The BC-147A AC adapter is additionally required. Cannot charge Li-Ion battery pack, BP-211N.

**BC-144N** DESKTOP CHARGER + **BC-145A** AC ADAPTER

For rapid charging of battery pack, BP-209N, BP-210N or BP-222N. An AC adapter, BC-145A, 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** 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 with the BC-121N with a DC power supply (12–20 V DC).

**SPEAKER-MICROPHONE**

**▲HM-158L**

HM-158L : Compact and durable body with screw-type connector.  
HM-46L: Slim dimensions speaker microphone.

**HEADSETS**

**▼HS-94**

**▲HS-95**

**▲HS-97**

**▲VS-1L**

**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** : VOX/PTT case. Required when using these headsets with the transceiver.  
**HS-51** : Headset is also optionally available. Includes VOX, PTT and "one-touch" PTT with a time-out timer. (UHF only in U.S.A. and Canada)

**BELT CLIP**

**▲MB-86**

**MB-86** : Swivel type belt clip. A fast and easy way to remove the radio from your belt.  
**MB-103** : Alligator type. Same as supplied.

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

**FA-SC73US** STUBBY ANTENNA  
60mm (2 3/8 inch) stubby antenna. Frequency range: 450–490MHz

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

**SP-13** EARPHONE  
Provides clear audio even in noisy environment.

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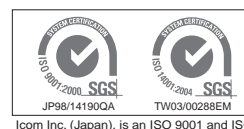
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