



PROFESSIONAL LICENCE-FREE DIGITAL TRANSCEIVER

# IC-F4029SDR

# Digital Radio

*A new era in licence-free communication!*

Digital

**16ch +**  
Analogue **8ch**

- No licence required
- A first for Europe and the World\*
- 16 digital plus 8 analogue channels with 6.25kHz ultra-narrow channel spacing
- Digitally-modulated sound provides secure conversation for commercial and private users
- 32-code status for exchanging short messages



- Large capacity, lithium-Ion battery with 2-step power-saver
- Compact, lightweight, tough body
- Compatible with existing analogue, licence-free channels with CTCSS/DTCS tones
- Hands-free operation available with optional headset

**DIGITAL**

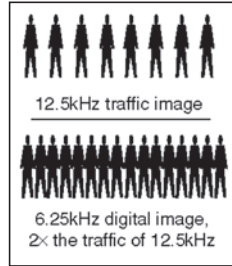
\* As of February 2006

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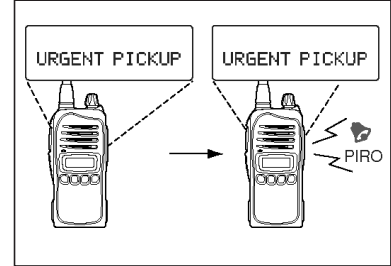
6.25kHz Spectrum Efficiency

Digital PMR 446 utilises 4FSK/FDMA modulation and 6.25kHz digital narrow channel spacing, which is half the channel spacing of the existing analogue PMR 446 system. This way, the 100kHz band width allocated for digital PMR 446 is efficiently divided into 16 channels, or twice the current analogue voice channel capacity.



32-Status messages

32 codes of pre-fixed status messages can be sent and received. 16-character messages and 6 types of alert beeps that sound for call reception, are programmable for each message with optional cloning software, CS-F4029.



SPECIFICATIONS

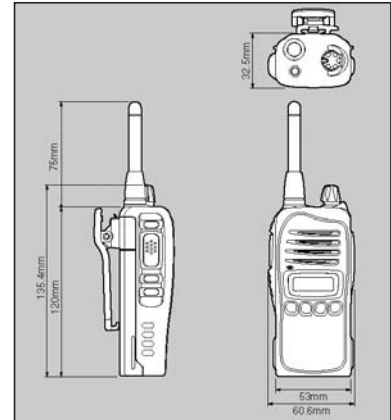
- Frequency range (MHz) :
  - PMR 446 446.00625–446.09375
  - Digital PMR 446 446.103125–446.196875\*
- Number of channels :
  - PMR 446 8 ch
  - Digital PMR 446 16 ch
- Channel spacing :
  - 12.5kHz (PMR 446),
  - 6.25kHz (Digital PMR 446)
- Power supply requirement : 7.2V DC (nominal)
- Current drain (at 7.2V DC; approx.):
  - Transmit High (0.5W) 0.5A
  - Receive AF max. 350mA
  - Stand-by 80mA (PMR 446)
  - 115mA (Digital PMR 446)
- Operating Temp. range : -25°C to +55°C
- Dimensions (WxHxD) : 53x195x32.5 mm (Fixed type antenna included)
- Weight (with BP-231) : 280g (approx.)
- Output power : 0.5W (ERP)

- External MIC connector : 3-conductor 2.5 (d) mm /2.2kΩ
  - External SP connector : 2-conductor 3.5 (d) mm /8Ω
  - Audio output power : 0.5W typical at 5% distortion with an 8Ω load
  - Communication range\* : Approx. 3km (Wide open space)
- \* Communication range may differ depending on operational environment or weather conditions, etc.

Supplied accessories: (May differ according to version)

- Battery pack, BP-231
- Belt clip, MB-94
- Battery charger, BC-160
- AC adapter, BC-145E/UK

Measurements made in accordance with ETS 300 296 for PMR 446 and EN 301 166-2 for digital PMR 446. 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.

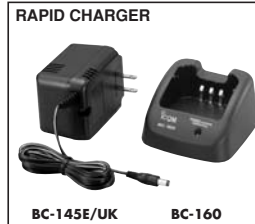


Battery packs	Type and capacity	Operating time*
BP-230	Li-Ion 7.4V/ 800mAh	5.7/7 hours
BP-231	Li-Ion 7.4V/1150mAh	8/10.4 hours
BP-232	Li-Ion 7.4V/2000mAh	14/18 hours
BP-240	AAA (LR03) batteries x 6	-

\* Digital/analogue. Tx: Rx: standby=5:5:90. Power save on. Operating time is approximate time (at 20°C).



**BC-171 DESKTOP CHARGER + BC-147E AC ADAPTER**  
Charges the battery pack in 8–10 hours (approx.). Coming soon.



**BC-160 DESKTOP CHARGER + BC-145E/UK AC ADAPTER**  
Charges the BP-231 in 2 hours (approx.).  
**BC-119N + AD-106 + BC-145E/UK** is also available.



**BC-121N MULTI-CHARGER + AD-106 CHARGER ADAPTER + BC-157 AC ADAPTER**  
Rapidly charges up to 6 battery packs (Six AD-106s are required). Charging time: 2 hours (approx.) when BP-231 is attached.



**HM-153L:** Durable earphone-microphone with revolving clip.  
**HM-158L:** Compact and durable body with screw connector.  
**HM-159L:** Full size durable microphone with revolving clip.



**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 speech vibration.  
**VS-1L:** PTT/VOX unit. Required when using these headsets with the transceiver.

**EARPHONE**  
**SP-13:** Provides clear audio in noisy environments.

**CLONING SOFTWARE AND CABLES**  
**CS-F4029:** Allows quick and simple setting from a PC.  
**OPC-478/OPC-478U:** PC to transceiver programming cable. (OPC-478: RS-232C type, OPC-478U: USB type)

**BELT CLIPS**  
**MB-93:** Swivel type belt clip.  
**MB-94:** Alligator type. Same as supplied.

**LEATHER BELT HANGERS**  
**MB-96N:** Swivel type belt hanger.  
**MB-96F:** Fixed type belt hanger. For use with MB-94.

**DC POWER CABLE**  
**OPC-656:** Replaces AC adapter BC-157 when using DC power with battery charger, BC-121N. (12–16 V DC required)



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Count on us!