

Digital PMR446

Digital (16ch) *A new era for* Analogue (8ch)
licence-free radio

6.25kHz

DIGITAL

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



- A first for Europe and the World*
- 6.25kHz ultra narrow channel spacing
- No licence** is required to use the radio
- Digitally modulated secure conversation for commercial and private users
- 32-code status messages for exchanging a short message



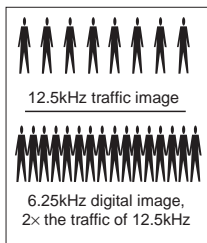
- Common ID code for group communication
- Compatible with existing analogue PMR 446 channels with CTCSS/DTCS tones
- Large capacity Lithium-Ion battery with 2-step power saver
- Compact, lightweight design and tough body
- Hands-free operation with optional headset
- Optional programming software allows quick and simple settings of radio parameters

(* Researched by Icom as of February 2006

**Simple licence or application may be required in some countries)

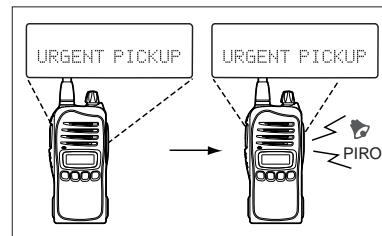
■ 6.25kHz Spectrum Efficiency

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 (W×H×D) : 53×195×32.5 mm (Fixed type antenna included)
- Weight (with BP-231) : 280g (approx.)
- Output power : 0.5W (ERP)

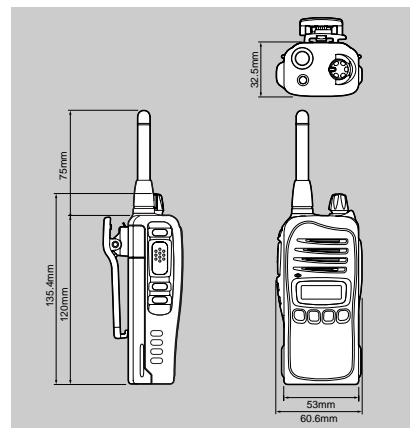
- External MIC connector : 3-conductor 2.5 (d) mm /2.2kΩ
 - External SP connector : 2-conductor 3.5 (d) mm /8Ω
 - Audio output power : 0.5W typical at 5% distortion with an 8Ω load
 - Communication range* : Approx. 3km (Wide open space)
- * Communication range may differ depending on operational environment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

* As of February 2006, some countries have yet to allocate the 446.1–446.2MHz digital PMR 446 frequency range. We suggest you confirm the allocation status in your country before you use.

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.



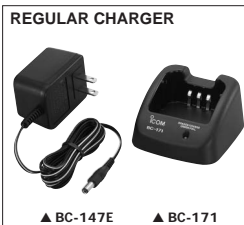
OPTIONS

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

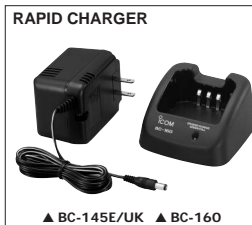


Battery packs	Type and capacity	Operating time*
BP-230	Li-Ion 7.4V/800mAh	5.7/7 hours
BP-231	Li-Ion 7.4V/1150mAh	8/10.4 hours
BP-232	Li-Ion 7.4V/2000mAh	14/18 hours
BP-240	AAA (LR03) batteries × 6	–

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



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



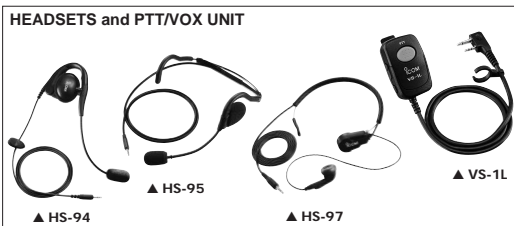
RAPID CHARGER
BC-160 DESKTOP CHARGER + BC-145E/UK AC ADAPTER
 Charges the BP-231 in 2 hours (approx.).
BC-119N + AD-106 + BC-145E/UK is also available.



MULTI-CHARGER
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.



SPEAKER-MICROPHONES
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.



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 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)

Icom Inc. 1-1-32, Kamiminami, Hirano-ku, Osaka 547-0003, Japan Phone: +81 (06) 6793 5302 Fax: +81 (06) 6793 0013 URL: <http://www.icom.co.jp/world/index.html> Count on us!

Icom America Inc.
 2380 116th Avenue NE,
 Bellevue, WA 98004, U.S.A.
 Phone: +1 (425) 454-8155
 Fax: +1 (425) 454-1509
 E-mail: sales@icomamerica.com
 URL: <http://www.icomamerica.com>

Icom New Zealand
 146A Harris Road, East Tamaki,
 Auckland, New Zealand
 Phone: +64 (09) 274 4062
 Fax: +64 (09) 274 4708
 E-mail: inquiries@icom.co.nz
 URL: <http://www.icom.co.nz>

Icom (UK) Ltd.
 Unit 9, Sea St., Herne Bay,
 Kent, CT6 8LD, U.K.
 Phone: +44 (01227) 741741
 Fax: +44 (01227) 741742
 E-mail: info@icomuk.co.uk
 URL: <http://www.icomuk.co.uk>

Asia Icom Inc.
 6F No. 68, Sec. 1 Cheng-Teh Road,
 Taipei, Taiwan, R.O.C.
 Phone: +886 (02) 2559 1899
 Fax: +886 (02) 2559 1874
 E-mail: sales@asia-icom.com
 URL: <http://www.asia-icom.com>

Icom Canada
 Glenwood Centre #150-6165 Highway 17,
 Delta, B.C., V4K 5B8, Canada
 Phone: +1 (604) 952-4266
 Fax: +1 (604) 952-0090
 E-mail: info@icomcanada.com
 URL: <http://www.icomcanada.com>

Icom (Europe) GmbH
 Communication Equipment
 Himmelgeister Str. 100,
 D-40225 Düsseldorf, Germany
 Phone: +49 (0211) 346047
 Fax: +49 (0211) 333639
 E-mail: info@icom-europe.com
 URL: <http://www.icom-europe.com>

Icom France S.a
 Zac de la Plaine, 1,
 Rue Brindejonc des Moulinais BP 5804,
 31505 Toulouse Cedex, France
 Phone: +33 (5) 61 36 03 03
 Fax: +33 (5) 61 36 03 00
 E-mail: icom@icom-france.com
 URL: <http://www.icom-france.com>

Beijing Icom Ltd.
 10C07, Long Silver Mansion, No.88, Yong Ding
 Road, Haidian District, Beijing, 100039, China
 Phone: +86 (010) 5889 5391/5392/5393
 Fax: +86 (010) 5889 5395
 E-mail: bjicom@bjicom.com
 URL: <http://www.bjicom.com>

Icom (Australia) Pty. Ltd.
 A.B.N. 88 006 092 575
 Unit 1 / 103 Garden Road,
 Clayton VIC 3168 Australia
 Phone: +61 (03) 9549 7500
 Fax: +61 (03) 9549 7505
 E-mail: sales@icom.net.au
 URL: <http://www.icom.net.au>

Icom Spain S.L.
 Ctra. Rubi, No. 88 "Edificio Can Castanyer"
 08190, Sant Cugat del Valles, Barcelona, Spain
 Phone: +34 (93) 590 26 70
 Fax: +34 (93) 589 04 46
 E-mail: info@icomspain.com
 URL: <http://www.icomspain.com>

Icom Polska
 Sopot, 3 maja 54, Poland
 Phone: +48 (58) 550 7135
 Fax: +48 (58) 551 0484
 E-mail: icompolkska@icompolkska.com.pl
 URL: <http://www.icompolkska.com.pl>

Your local distributor/dealer:

Apex Radio Systems Ltd.
 102 Tantobie Road
 Denton Burn
 Newcastle upon Tyne
 NE15 7DQ



Tel 0191 228 0466
 Fax 0191 228 0467
 Email info@apexradio.com