



VHF AND UHF TRANSCEIVERS

IC-F12

(VHF transceiver, rotary type)

IC-F12S

(VHF transceiver, toggle type)

IC-F22

(UHF transceiver, rotary type)

IC-F22S

(UHF transceiver, toggle type)

Meets

MIL-STD 810



▲ Toggle type

- Simple operation with minimum switches
- Built-in 5-tone, CTCSS, DTCS encode/decode plus DTMF encode
- MIL specification rugged construction
- 16 position rotary channel type or 2 position toggle channel type
- Powerful 5W of VHF and 4W of UHF output power
- Selectable 12.5kHz or 25kHz channel spacing
- Optional Ni-MH battery pack or alkaline battery case available
- Wide range of accessories available

*Simple but
effective for
your Business*

◀ Rotary type



Icom Inc.

SPECIFICATIONS

GENERAL

- Frequency coverage : IC-F12/S 146-174MHz
IC-F22/S 440-470MHz
- Channel spacing : 25kHz and 12.5kHz
- PLL channel step : IC-F12/S 2.5kHz or 3.125kHz
IC-F22/S 5kHz or 6.25kHz
- Power supply requirement : 7.2V DC (negative ground)
- Current drain (approx.) : Tx High (IC-F12/S: 5W) 1.6A
(IC-F22/S: 4W) 1.6A
Rx Rated audio 250mA
Standby 70mA
- Frequency error : ±2.0kHz (wide)
±1.5kHz (narrow)
- Operating temperature range : -25°C to +55°C
- Dimensions (proj. not included) : 54(W)×128(H)×37(D)mm
- Weight (with BP-209) : 310g

TRANSMITTER

- Output power (at 7.2V DC) : IC-F12/S 5W, 2W or 1W
IC-F22/S 4W, 2W or 1W
- Max. frequency deviation : ± 5.0kHz (wide)
± 2.5kHz (narrow)
- Spurious emissions : 0.25µW (below 1GHz)
- Adjacent channel power : 70dB (wide)
60dB (narrow)
- External mic. connector : 3-conductor 2.5(d)mm
/2.2kΩ

- Intermodulation rejection : 65dB
- Audio output power : 500mW typ. (at 5% distortion with an 8Ω load)
- External speaker connector : 2-conductor 3.5(d)mm /8Ω

Supplied accessories:

- Battery pack; BP-209
- Belt clip; MB-68
- Antenna

The IC-F12/S and IC-F22/S meet MIL-STD requirements and strict environmental standards for shock (MIL 810C, D, E) and vibration (MIL 810C, D, E).

RECEIVER

- Sensitivity (at 20dB SINAD) : 0.63µV typ. emf
- Squelch sensitivity : 0.3µV typ. (threshold)
- Adjacent channel selectivity : 70dB (wide)
60dB (narrow)
- Spurious response rejection : 70dB

Measurements made in accordance with ETS 300 086. All stated specifications are subject to change without notice or obligation.

OPTIONS

BATTERY PACKS AND CASE

BP-208 AA (R6) batteries × 6	BP-209 Ni-Cd 7.2V/1100mAh	BP-210 Ni-MH 7.2V/1650mAh	BP-222 Ni-Cd 7.2V/600mAh
---	--	--	---------------------------------------

BATTERY PACKS AND CASE	BP-208	BP-209	BP-210	BP-222
OUTPUT POWER	1W typ.	5/4W typ.	5/4W typ.	5/4W typ.
BATTERY LIFE	-	8.5hours	13hours	4.5hours

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

REGULAR CHARGER

▼BC-147A/E
▲BC-146

BC-146 DESKTOP CHARGER + BC-147A/E AC ADAPTER
Charges the battery pack, BP-209, BP-210 or BP-222 with/without transceiver in 12, 18.5, 6.5 hours (approx.), respectively. The BC-147 AC ADAPTER is additionally required.

RAPID CHARGERS

▼BC-145 A/E/V
▲BC-144
▲BC-121+AD-94 (6 pcs.)
▲BC-124

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. BC-119 is also available for rapid charging.
BC-121 MULTI-CHARGER + AD-94 (#1) DESKTOP CHARGER ADAPTER + BC-124 AC ADAPTER
For rapid charging of up to 6 battery packs (Six AD-94s are required), BP-209, BP-210 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 ▲HM-75A ▲HM-131L

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 cloning.
HM-131L: Compact and durable body. Equipped with an earphone jack and a revolving clip.

HS-51 HEADSET

For hands-free operation. Includes VOX, PTT and "one-touch" PTT with a time-out timer.

HM-128L EARPHONE-MICROPHONE

The light weight earphone-mic. has a compact microphone with PTT Switch that clips to your lapel.

HS-94 EARHOOK-HEADSET + VS-1L VOX SWITCH CASE
Flexible boom microphone and rotating earbud with a spring earhook.

BELT CLIPS

MB-74 MB-68

MB-74: Alligator type. Clips to almost anything in a variety of convenient places.
MB-68: Same as that supplied.

AD-98FSC ANTENNA CONNECTOR ADAPTER

Allows you to connect a BNC-type antenna. (For maintenance use only)

STUBBY ANTENNAS

FA-SC56VS FA-SC57VS FA-SC73US

	Freq. range	Length	Ring Color
FA-SC56VS	146-162MHz	80mm	Red
FA-SC57VS	160-174MHz	80mm	Green
FA-SC73US	450-490MHz	60mm	Red

SP-13 EARPHONE

Provides clear audio in noisy environments.

Icom Inc.

1-1-32, Kamiminami, Hirano-ku, Osaka 547-0003, Japan Phone: 06 6793 5302 Fax: 06 6793 0013 URL: <http://www.icom.co.jp/world/index.html>

Count on us!

Icom America Inc.

<Corporate Headquarters>
2380 116th Avenue N.E., Bellevue, WA 98004, U.S.A.
Phone: (425) 454-8155 Fax: (425) 454-1509
URL : <http://www.icomamerica.com>
<Customer Service> Phone : (425) 454-7619

Icom Canada

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

Icom (Australia) Pty. Ltd.

A.B.N. 88 006 092 575
290-294 Albert Street, Brunswick, Victoria, 3056, Australia
Phone: 03 9387 0666 Fax: 03 9387 0022
URL : <http://www.icom.net.au>

Icom New Zealand

146A Harris Road, East Tamaki, Auckland, New Zealand
Phone: 09 274 4062 Fax: 09 274 4708
URL : <http://www.icom.co.nz>

Icom (Europe) GmbH

Communication Equipment
Himmelgeister Str. 100, D-40225 Düsseldorf, Germany
Phone: 0211 346047 Fax: 0211 333639
URL : <http://www.icomeurope.com>

Icom Spain S.L.

Crta. de Gracia a Manresa Km. 14.750
08190 Sant Cugat del Valles Barcelona, SPAIN
Phone: (93) 590 26 70 Fax: (93) 589 04 46
URL : <http://www.icomspain.com>

Icom (UK) Ltd.

Unit 9, Sea St., Herne Bay, Kent, CT6 8LD, U.K.
Phone: 01227 741741 Fax: 01227 741742
URL : <http://www.icomuk.co.uk>

Icom France S.a

Zac de la Plaine, Rue Brindejonc des Moulinas
BP 5804, 31505 Toulouse Cedex, France
Phone: 561 36 03 03 Fax: 561 36 03 00
URL : <http://www.icom-france.com>

Asia Icom Inc.

6F No. 68, Sec. 1 Cheng-Teh Road,
Taipei, Taiwan, R.O.C.
Phone: (02) 2559 1899 Fax: (02) 2559 1874
URL : <http://www.asia-icom.com>

Your local distributor/dealer:



Certificate Number Q14190

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

SPECIFICATIONS

GENERAL

- Frequency coverage : IC-F12/S 146-174MHz
IC-F22/S 440-470MHz
- Channel spacing : 25kHz and 12.5kHz
- PLL channel step : IC-F12/S 2.5kHz or 3.125kHz
IC-F22/S 5kHz or 6.25kHz
- Power supply requirement : 7.2V DC (negative ground)
- Current drain (approx.) : Tx High (IC-F12/S: 5W) 1.6A
(IC-F22/S: 4W) 1.6A
Rx Rated audio 250mA
Standby 70mA
- Frequency error : ±2.0kHz (wide)
±1.5kHz (narrow)
- Operating temperature range : -25°C to +55°C
- Dimensions (proj. not included) : 54(W)×128(H)×37(D)mm
- Weight (with BP-209) : 310g

TRANSMITTER

- Output power (at 7.2V DC) : IC-F12/S 5W, 2W or 1W
IC-F22/S 4W, 2W or 1W
- Max. frequency deviation : ± 5.0kHz (wide)
± 2.5kHz (narrow)
- Spurious emissions : 0.25µW (below 1GHz)
- Adjacent channel power : 70dB (wide)
60dB (narrow)
- External mic. connector : 3-conductor 2.5(d)mm
/2.2kΩ

- Intermodulation rejection : 65dB
- Audio output power : 500mW typ. (at 5% distortion with an 8Ω load)
- External speaker connector : 2-conductor 3.5(d)mm /8Ω

Supplied accessories:

- Battery pack; BP-209
- Belt clip; MB-68
- Antenna

The IC-F12/S and IC-F22/S meet MIL-STD requirements and strict environmental standards for shock (MIL 810C, D, E) and vibration (MIL 810C, D, E).

RECEIVER

- Sensitivity (at 20dB SINAD) : 0.63µV typ. emf
- Squelch sensitivity : 0.3µV typ. (threshold)
- Adjacent channel selectivity : 70dB (wide)
60dB (narrow)
- Spurious response rejection : 70dB

Measurements made in accordance with ETS 300 086. All stated specifications are subject to change without notice or obligation.

OPTIONS

BATTERY PACKS AND CASE

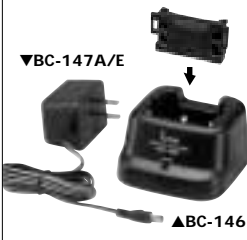
BP-208 AA (R6) batteries × 6	BP-209 Ni-Cd 7.2V/1100mAh	BP-210 Ni-MH 7.2V/1650mAh	BP-222 Ni-Cd 7.2V/600mAh
------------------------------------	---------------------------------	---------------------------------	--------------------------------



BATTERY PACKS AND CASE	BP-208	BP-209	BP-210	BP-222
OUTPUT POWER	1W typ.	5/4W typ.	5/4W typ.	5/4W typ.
BATTERY LIFE	-	8.5hours	13hours	4.5hours

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

REGULAR CHARGER



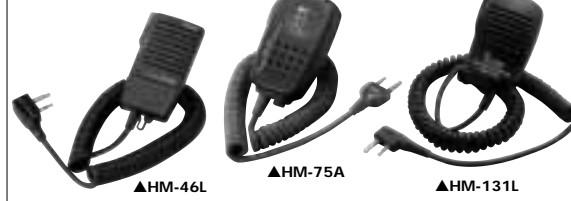
BC-146 DESKTOP CHARGER + BC-147A/E AC ADAPTER
Charges the battery pack, BP-209, BP-210 or BP-222 with/without transceiver in 12, 18.5, 6.5 hours (approx.), respectively. The BC-147 AC ADAPTER is additionally required.

RAPID CHARGERS

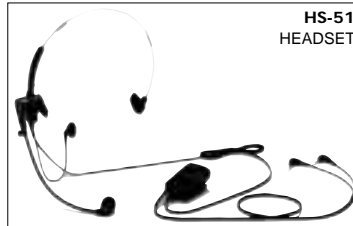


BC-145 A/E/V AC ADAPTER
For rapid charging of battery pack, BP-209, BP-210 or BP-222. An AC adapter, BC-145, is supplied with the charger depending on version. Charging time: 1.5 to 2 hours. BC-119 is also available for rapid charging.
BC-121 MULTI-CHARGER + AD-94 (#1) DESKTOP CHARGER ADAPTER + BC-124 AC ADAPTER
For rapid charging of up to 6 battery packs (Six AD-94s are required), BP-209, BP-210 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 cloning.
HM-131L: Compact and durable body. Equipped with an earphone jack and a revolving clip.

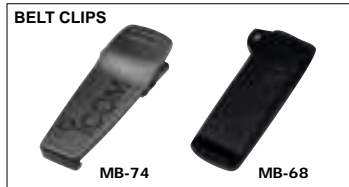


For hands-free operation. Includes VOX, PTT and "one-touch" PTT with a time-out timer.



The light weight earphone-mic. has a compact microphone with PTT Switch that clips to your lapel.

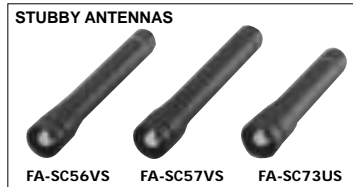
HS-94 EARHOOK-HEADSET + VS-1L VOX SWITCH CASE
Flexible boom microphone and rotating earbud with a spring earhook.



MB-74: Alligator type. Clips to almost anything in a variety of convenient places.
MB-68: Same as that supplied.



Allows you to connect a BNC-type antenna. (For maintenance use only)



	Freq. range	Length	Ring Color
FA-SC56VS	146-162MHz	80mm	Red
FA-SC57VS	160-174MHz	80mm	Green
FA-SC73US	450-490MHz	60mm	Red



Provides clear audio in noisy environments.

Icom Inc.

1-1-32, Kamiminami, Hirano-ku, Osaka 547-0003, Japan Phone: 06 6793 5302 Fax: 06 6793 0013 URL: <http://www.icom.co.jp/world/index.html>

Count on us!

Icom America Inc.

<Corporate Headquarters>
2380 116th Avenue N.E., Bellevue, WA 98004, U.S.A.
Phone: (425) 454-8155 Fax: (425) 454-1509
URL : <http://www.icomamerica.com>
<Customer Service> Phone : (425) 454-7619

Icom Canada

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

Icom (Australia) Pty. Ltd.

A.B.N. 88 006 092 575
290-294 Albert Street, Brunswick, Victoria, 3056, Australia
Phone: 03 9387 0666 Fax: 03 9387 0022
URL : <http://www.icom.net.au>

Icom New Zealand

146A Harris Road, East Tamaki, Auckland, New Zealand
Phone: 09 274 4062 Fax: 09 274 4708
URL : <http://www.icom.co.nz>

Icom (Europe) GmbH

Communication Equipment
Himmelgeister Str. 100, D-40225 Düsseldorf, Germany
Phone: 0211 346047 Fax: 0211 333639
URL : <http://www.icomeurope.com>

Icom Spain S.L.

Crta. de Gracia a Manresa Km. 14,750
08190 Sant Cugat del Valles Barcelona, SPAIN
Phone: (93) 590 26 70 Fax: (93) 589 04 46
URL : <http://www.icomspain.com>

Icom (UK) Ltd.

Unit 9, Sea St., Herne Bay, Kent, CT6 8LD, U.K.
Phone: 01227 741741 Fax: 01227 741742
URL : <http://www.icomuk.co.uk>

Icom France S.a

Zac de la Plaine, Rue Brindejonc des Moulinas
BP 5804, 31505 Toulouse Cedex, France
Phone: 561 36 03 03 Fax: 561 36 03 00
URL : <http://www.icom-france.com>

Asia Icom Inc.

6F No. 68, Sec. 1 Cheng-Teh Road,
Taipei, Taiwan, R.O.C.
Phone: (02) 2559 1899 Fax: (02) 2559 1874
URL : <http://www.asia-icom.com>

Your local distributor/dealer:



Certificate Number Q14190

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