

DUAL BAND FM TRANSCEIVERS

IC-2720H (U.S.A.) IC-2725E (EURO)



Icom's new IC-2720H/IC-2725E, a dual band V/V, U/U mobile transceiver is the model many have been waiting for. The VHF/VHF UHF/UHF and VHF/UHF simultaneous receive capability and independent tuning knobs are inherited from the popular IC-2710H. Selectable amber and green display, MOS-FET power amplifier and a new multi-function microphone, ensure simple and reliable operation for both beginners and experienced users. Also, the IC-2720H/IC-2725E will satisfy users demand of simultaneous reception or packet communication, even the user who cannot satisfy with the IC-207H.

SELLING POINTS

- *V/V, U/U simultaneous receive capability*
- *Separated controller from main unit*
- *Independent tuning knobs for each band*
- *Selectable amber and green display*
- *MOS-FET power amplifier*
- *HM-133, remote control microphone*
- *9600bps data terminal*
- *104×2 DTCS/50 CTCSS tone squelch operation*
- *Selectable squelch attenuator*
- *Selectable squelch delay*
- *212 memory channels*

FEATURES

V/V, U/U simultaneous receive capability

The IC-2720H/IC-2725E is true dual band transceiver. VHF/VHF, UHF/UHF as well as VHF/UHF simultaneous receive is possible. A simple push of a button allows you to change between the main (transmit) band and sub-band. An extended range receiver* offers extra listening enjoyment.

* Not available for some versions.

Separated controller from main unit

The controller is separated from the main unit for flexible installation, and the microphone connectors are equipped both on the controller and the main unit. Install the controller on the dashboard and the main unit under a seat or in the trunk, as you please. A 3.5m separation cable, OPC-1156, is supplied. In addition, optional MB-85 allows mounting of the controller to the main unit

Independent tuning knob for each band

The IC-2720H/IC-2725E provides easy to use ergonomic operation. Our original independent tuning knob provides simple and quick tuning. Volume, squelch and other function switches are symmetrically laid out for each band. In addition, there are two speaker jacks for each band on the main unit.

Selectable amber and green display

The LCD backlit color is selectable from amber and green. Select a suitable color for your lighting condition, or your preference. In addition, the display shows a diversity of information with operational icons and an S-meter shows the received signal strength.

MOS-FET power amplifier

A MOS-FET power amplifier provides powerful 50W in the 144MHz band and 35W in the 430(440)MHz band. Output power is selectable in 3 steps. In addition, a silent cooling fan is very efficient in discharging internal heat.

HM-133, remote control microphone

The supplied HM-133, remote control microphone extends the utility of the IC-2720H/IC-2725E. The 10-key pad allows you to enter the frequency directly. The F1/F2 buttons memorize the transceiver's full settings. As if switching between two separate radios, all operating frequencies, tone settings as well as the display color, fan speed, and set mode settings are memorized.

9600bps data terminal

For direct packet modem connection at 9600bps, there is a mini DIN (6-pin) connector on the front panel of the main unit. Of course, 1200bps packet communication is also possible from the packet terminal or the microphone connector.

104×2 DTCS/50 CTCSS tone squelch operation is standard

CTCSS and DTCS tone signaling systems provide quiet stand-by and useful functions such as pocket beep and tone scan. The pocket beep alerts the operators with a beep sound, when the transceiver receives a signal containing a preset tone. Tone scan detects the tone frequency used for opening a repeater or for tone squelch operation.

Selectable squelch attenuator

This convenient feature reduces interference from strong nearby signals. Rotate the squelch control deeper than the 12 o'clock position and the squelch attenuator is activated to reduce receiving signal level by approx. 10dB.

Selectable squelch delay

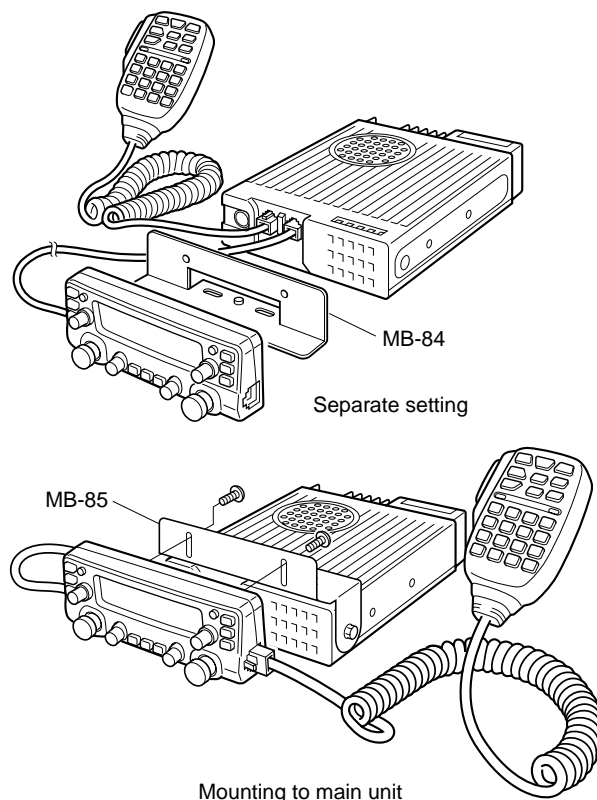
This function keeps the squelch in an open condition for a specified period, even when a received signal becomes suddenly weaker than the threshold level. The period is selectable from long or short. You will not miss operating message contents, when a signal suddenly weakens, etc.

212 memory channels

The IC-2720H/IC-2725E has a total of 212 memory channels, 200 regular channels, 2 call channels and 10 scan edges. Each memory channel stores tone frequency, skip information and so on. Our Dynamic Memory Scan (DMS) system divides these memories into 10 groups, A to J, and provides easy channel selection. Of course, bank scanning is also possible.

Other outstanding features

- FM narrow capability (IC-2725E only)
- 4-step LCD backlighting
- Sub-band auto mute function
- 12 DTMF memory channels (24 digits)
- Auto power off
- Auto repeater function
- High speed Tx/Rx switching time for digital repeater access (as a mobile transceiver)



SPECIFICATIONS

Specifications described below are target values. They may be subject to change.
DO NOT incorporate this information in your advertisements until it has been confirmed.

■ GENERAL

- Frequency coverage : (Unit: MHz)

Version	Transmit	Receive
Euro	144-146, 430-440	144-146, 430-440
Italy	144-146, 430-434, 435-438	144-146, 430-434, 435-438
U.S.A	144-148, 440-450	118-550 (Left side), 118-174, 375-550, 810-999.99 (Right side)*1
Korea	144-146, 430-440	144-146, 430-440
Taiwan	144-146, 430-440	144-146, 430-440
Australia	144-148, 430-440	144-148, 430-440
S.E.Asia	140-150, 430-440*2	136-174, 430-440*2
Export	136-174, 400-479*2	118-550 (Left side), 118-174, 375-550, 810-999.99 (Right side)*2

*1 Receive range except 824.040-848.970, 869.040-893.970MHz.

Guaranteed 144-148, 440-450MHz only.

*2 Guaranteed 144-148, 430-440MHz only.

- Type of emission : F3E, F2D (FM)
- No. of memory Ch. : 212 (incl. 10 scan edges and 2 call)
- Frequency resolution : 5, 10, 12.5, 15, 20, 25, 30 and 50kHz
- Frequency stability : ± 10 ppm (-10°C to $+60^{\circ}\text{C}$)
- Power supply requirement :
13.8V DC ± 15 %
- Current drain (VHF/UHF; at 13.8V DC):
Transmit max. power 12.0A/11.0A
Receive stand-by 1.2 A
max. audio 1.8 A
- Antenna impedance : 50 Ω (SO-239)
- Dimensions (projections not included):
Controller 140(W) \times 50(H) \times 27(D) mm
Main unit 140(W) \times 40(H) \times 187(D) mm
- Weight (approx.) : 1.4kg

■ TRANSMITTER

- Modulation system : Variable reactance
- Output power : High* 50W/35W
(VHF/UHF) Mid approx. 20W
Low approx. 5W
- *25W for both VHF and UHF for Taiwan version
- Spurious emissions : Less than -60dB
- Microphone impedance : 600 Ω (8-pin modular)

■ RECEIVER

- Receiver system : Double superheterodyne
- Intermediate freq. : 1st 38.85MHz (Left side)
46.05MHz (Right side)
2nd 450kHz (Left side)
455kHz (Right side)
- Sensitivity : Less than 0.18 μV at 12dB SINAD
- SQL sensitivity : Less than 0.13 μV at threshold
- Selectivity :
Wide More than 12kHz/-6dB
Less than 30kHz/-60dB
Narrow More than 6kHz/-6dB
(Europe and Italy ver. only) Less than 18kHz/-60dB
- Spurious and image rejection ratio:
More than 60dB
- Audio output power : More than 2.4W
(at 13.8 V DC) at 10% distortion with an 8 Ω load
- Ext. SP connector : 2-conductor 3.5 (d) mm (1/8")/
8 Ω

OPTIONS

- **CS-2720*** CLONING SOFTWARE
+**OPC-478** CLONING CABLE
- **HM-118N** HAND MICROPHONE
- **HM-118TN/TAN** DTMF MICROPHONE
- **OPC-440/OPC-647** MIC EXTENSION CABLES
(5m/2.5m)
- **SP-10/SP-12** EXTERNAL SPEAKERS
- **OPC-441** SPEAKER EXTENSION CABLE (5m)
- **OPC-1132/OPC-347** DC POWER CABLES (3m/7m)
- **MB-17A** MOBILE MOUNTING BRACKET
- **MB-65** MOUNTING BASE
- **MB-84*** CONTROLLER MOUNTING BRACKET
- **MB-85*** COMBINATION KIT
- **OPC-1156*** CONTROLLER EXTENSION CABLE (3.5m)

*New option