IC-7410

HF/50MHz ALL MODE TRANSCEIVER

The Best Balance of Technology, Performance and Fun!

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**Faster DSP unit and in-house DSP expertise**

Icom brings out the best DSP performance combining more than ten years of DSP technical know-how and much faster DSP processors. Icom’s in-house DSP experts have developed a IC-746PRO/7410 series replacement that every operator will be proud to own. In addition to the higher speed DSP, the ADICA converter, AK4620B, provides a higher dynamic range and superior SN ratio.

**32-bit floating point DSP**

Internal clock speed: 333MHz

* In 14MHz band.

**Internal clock speed:** 333MHz

**ADSP-21369**

**Double-conversion superheterodyne**

Introduced with the IC-7800, a double conversion superheterodyne design, with an image rejection mixer for the 2nd mixer stage is employed in the IC-7410. This receiver design not only reduces the distortion points from older triple and quadruple conversion receivers.

**Three first IF filters (3/6/15kHz)**

The IC-7410 accommodates three 1st IF filters with the 15kHz, 1st IF filter supplied, while the 3kHz FL-431 and 6kHz FL-430 are optional for better receiver performance by protecting the desired signal from nearby strong signals. **(Fixed for 15kHz in FM mode.)**

**Wide range of DSP features**

Using the latest algorithms, the digital features give flexibility and speed needed for working in tough RF conditions.

* Digital IF filter allows you to choose filter width and shape factor
* Digital TEN LOG removes interference by changing the IF bandwidth and/or shifting the IF frequency
* AGC loop management with programmable AGC time constant
* Auto/manual Notch Filter provides more than 70dB attenuation and eliminates unwanted beat tones
* Noise Reduction can enhance the receiver’s signal-to-noise ratio
* Noise Blanker reduces interference from pulse-type noise
* RF Speech Compressor increases average talk power, improving signal strength and readability
* User programmable tone control: microphone equalizer, SSB transmit passband width, receive HF/LF and receive audio equalizer

**Large, multi-function LCD**

The display increases in width from the IC-746PRO/7410 series. The large multi-function LCD shows frequency, 9-character channel name, channel number, multi-function meter (includes 5-meter, RF output, SWR, ALC and COMP level). The dot-matrix portion of the LCD shows the following items:

- Channel name
- Band scope
- Memory keyer contents
- RTTY decoder screen
- Graphical SWR scale

**USB connector for PC control**

The IC-7410 has a standard type B USB connector and can be connected to a PC. Modulation input, audio output, RTTY demodulator output and G3 command can be controlled via the USB cable. Also, the conventional G3-V remote control jack is built in to the IC-7410.

**Optional RS-BA1 IP remote control software**

The optional RS-BA1 allows you to use the IC-7410 from another room using your home network or even from a remote location over the Internet.

**Ample CW functions**

All of the following CW capabilities are included in the IC-7410:

- Large CW pitch knob and independent BK-IN (break-in) delay knob
- CW waveform controlled by the DSP
- 4 key channels with 70 characters of transmit memory per channel
- Multi-function electronic keyer with adjustable keying speed from 6–48 wpm, dot-dash ratio from 1:1.2 to 1:1.4, and possible polarity
- Bug keyer and full break-in function
- Continuously adjustable CW pitch control from 300–900Hz
- Double key jacks (Front and rear panels): CW reverse

**Wide range of DDS features**

Uses the latest DDS algorithms, the digital features give flexibility and speed needed for working in tough RF conditions.

- Digital IF bandpass filter allows you to choose filter width and shape factor
- Digital TEN LOG eliminates interference by changing the IF bandwidth and/or shifting the IF frequency
- AGC loop management with programmable AGC time constant
- Auto/manual Notch Filter provides more than 70dB attenuation and eliminates unwanted beat tones
- Noise Reduction can enhance the receiver’s signal-to-noise ratio
- Noise Blanker reduces interference from pulse-type noise
- RF Speech Compressor increases average talk power, improving signal strength and readability
- User programmable tone control: microphone equalizer, SSB transmit passband width, receive HF/LF and receive audio equalizer

**High frequency stability**

A high stability TCXO crystal oscillator provides ±0.5ppm of high frequency stability over a wide temperature range (0°C to +50°C). This allows for a long steady operating time in digital modes.

**Large heat sink**

When compared to the IC-746PRO series, the IC-7410’s large heat sink improves heat dissipation. Even during long hours of heavy-duty cycle operation, the IC-7410 provides stable output power.
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**Specifications**

- **Power Supply Requirement:** 13.8V DC ±15% (negative ground)
- **Frequency Stability:** Less than ±0.5ppm
- **Dimensions (W×H×D):** 315×116×343 mm
- **Max. Power (Tx):** 23A
- **Number of Memory Channels:** 101 (99 regular, 2 scan edges)
- **Mode:** USB, LSB, CW, RTTY, AM, FM
- **Receive System:** Double conversion superheterodyne
- **Selectivity (SSB):** Less than 3.4kHz / –40dB
- **Selectivity (FM):** Less than 5.6μV
- **Spurious and Image:** More than 12.0kHz / –6dB

**Options**

- **Supplied Accessories:**
  - MC-17A microphone
  - Speaker accessories
  - DC power adaptors
  - CW key plug

- **Matching Impedance Range:**
  - 14.000–14.350MHz (HF bands)
  - 7.000–7.300MHz
  - 28.000–29.700MHz

- **Intermediate Frequencies:**
  - 0.16μV*1
  - 0.32μV*3
  - 0.5μV*1

- **Reception:**
  - VSWR 1:1.5 or less
  - VSWR 1:2.5

- **Output Power:**
  - CW (BN): 500mW, 300mW
  - SSB: 50W, 35W
  - AM: 2–27W
  - FM: 0.5μV*1

- **Selectivity:**
  - CW: 2kHz
  - AM: 2kHz
  - FM: 15kHz

- **Maximum Permissible Input Power:**
  - 1W

- **Specifications are subject to change without notice or obligation.**

**Details**

- **Options:**
  - CI-V LEVEL
  - CONTROL SOFTWARE
  - CARRYING HANDLE
  - CABLE ADAPTER
  - FL-450 (16-pin IF FILTER)
  - MB-132 (CARRYING HANDLE)
  - OPO-039 (CABLE ADAPTER)

- **Supplied Accessories:**
  - Mc-17a microphone
  - speaker accessories
  - DC power adaptors

- **ICW-910C/PHV900D 144MHz linear amplifier** (covers 440–450MHz and 450–480MHz)

- **IC-7410 Options:**
  - CI-V LEVEL
  - CONTROL SOFTWARE
  - CARRYING HANDLE
  - CABLE ADAPTER
  - FL-450 (16-pin IF FILTER)
  - MB-132 (CARRYING HANDLE)
  - OPO-039 (CABLE ADAPTER)

**Count on us!**