

# ICOM IC-7610

## HF/50 MHz ALL-MODE DUAL SDR BASE TRANSCEIVER



The new Icom IC-7610 HF/50 MHz base transceiver employs a RF Direct-sampling/digital up-conversion HF/6m transceiver with two independent, identical receivers. MAIN and SUB receivers that can operate independently on different bands and modes (emissions)

Below you will find the features and specifications.

### Features

Direct-sampling/digital up-conversion HF/6m transceiver with two independent, identical receivers

MAIN and SUB receivers can operate independently on different bands and modes (emissions)

SUB receiver tuning knob available by plugging RC-28 controller into front-panel USB-A port

MAIN/SUB Tracking (simultaneous tuning) from main tuning knob (enabled by menu option)

Each receiver front end has dedicated ADC, ADC driver/preamp, BPF group and "Digi-Sel tracking preselector

Separate DSP/audio chains for MAIN and SUB receivers; binaural reception possible

Separate AF/SQL controls and EXT SP jacks for MAIN and SUB receivers

Independent MAIN and SUB spectrum scope/waterfall displays(can be stacked L/R or MAIN above SUB)

Dual clock displays

Headphone left/right mix can be turned on or off

MULTI knob for easier operation (similar to IC-7300)

ANT1 and ANT2 ports with switched hybrid splitter for user-selectable dual-antenna (e.g. diversity) or Dual Watch configurations

RX ANT IN/OUT BNC break jacks switchable between MAIN and SUB receiver 10 MHz EXT REF I/O and Transverter I/O BNC jacks

PGA has MAIN and SUB inputs (from ADC's) and outputs (to DSP's), and display data channel to display driver subsystem

New low-phase-noise clock oscillator with ultra-low-noise clock source provides high target RMDR of 105 dB (1 kHz offset), 113 dB (2 kHz offset) and excellent transmitter phase noise performance (also check review october 2018 attached!)

100W MOSFET PA unit

High-speed relay-type auto-ATU

Ethernet LAN port supports internal RS-BA1 server as in IC-7851, IC-7700 (FW V2.0 & higher), IC-7800 (FW V3.0 & higher)

LAN Output Select menu option for AF (baseband) or IF

Multiple memory functions

Two rear-panel USB-B ports for CAT control/PCM audio

Two front-panel USB-A ports for USB stick, mouse, RC-28 controller, keyboard etc.

SD card slot for data capture, record/playback, firmware upgrade etc.

Firmware upgrade via SD card or USB stick

External meter and keypad jacks on rear panel

**Article id:** ICOM IC-7610

**Price:** € 3195,00

**ex VAT € 2640,50**

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## HF/50 MHz ALL-MODE DUAL SDR BASE TRANSCEIVER

7" (diagonal) high-definition touch-screen display  
Independent MAIN and SUB real-time FFT spectrum scope/waterfall displays with high dynamic range (100 dB)  
Screen image capture to SD card  
Scope/waterfall windows can be stacked side-by-side or MAIN above SUB  
Multi-purpose real-time audio scope and FFT audio spectrum analyzer  
Rear-panel DVI-D port for external video display  
Large RAM reserve for future firmware expansion

### Operating refinements

- Mute band by pressing corresponding volume knob
- Mic DC bias can be disabled for dynamic mc
- Keyer memories can use F1-F8 on keyboard
- Can record and capture directly to USB drive or SD card
- Adjustable independent beep tones for the main and sub bands from 500-2000Hz

### Specifications

Frequencyrange : Rx 0,030 tot 60,000 MHz | Tx 135.7 kHz to 137.8 kHz (CW mode) -1,800 tot 1,999 MHz - 3,500 tot 3,999 MHz - 7,000 tot 7,200 MHz - 10,100 tot 10,150 MHz - 14,000 tot 14,350 MHz - 18,068 tot 18,168 MHz - 21,000 tot 21,450 MHz - 24,890 tot 24,990 MHz - 28,000 tot 29,700 MHz - 50,000 tot 54,000 MHz  
Modification is required for TX 60 meters; upon purchase, on request this modification can be performed by us free of charge)  
Modes : USB, LSB, CW, RTTY, PSK31, AM, FM  
Output : SSB, CW, RTTY, FM 1-100 W | AM 1-25 W  
Number of channels : 101  
Frequency stability : <  $\pm 0,5$  ppm  
Antennatuner : automatic antennatuner included  
Power supply requirement : 13,8 VDC  $\pm 15$  % (neg. ground)  
Power consumption : TX max. 23,0 A | RX max. 3,5 A | Stand-by 3,0 A  
Antenna connector : 2x SO-239 (50 Ohm) | 1x BNC (RX only)  
Dimensions : B 340 x H 118 x D 277 mm (housing only)  
Weight : ca. 10 kg

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