



HF/50/70MHz Transceiver

Getting Started with the Icom 7300

Quick Guide

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As being a total novice to this radio myself and lucky enough to purchase the Icom 7300 from its launch in the U.K in early 2016.

I have compiled this brief set up document for the Icom 7300.

For the beginner , novice to set up this radio from scratch.

I can not be responsible for any procedure that might be done wrong and cause any damage to there radio.

The configuration is what I have used to operate my radio And found successful.

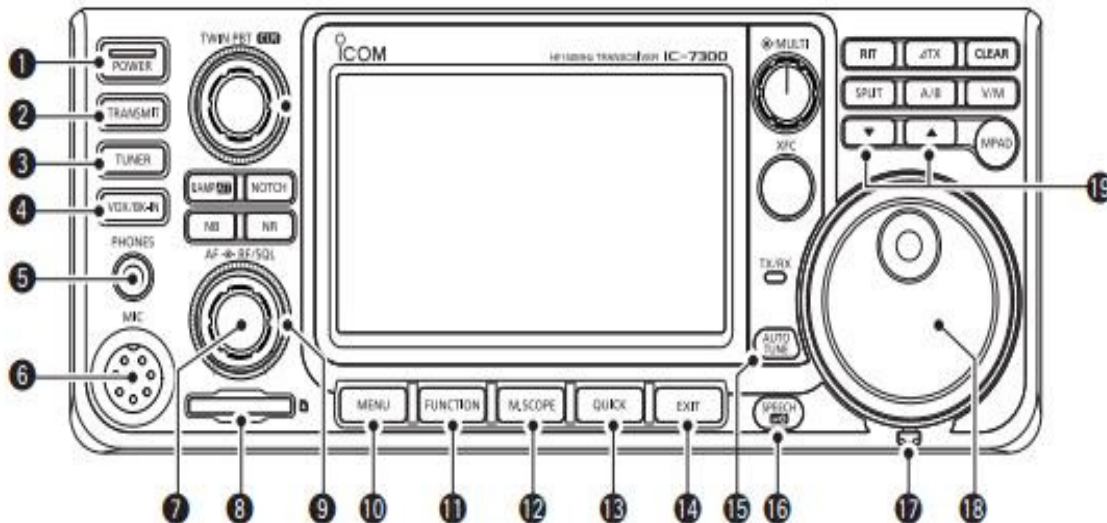
If in doubt please check the Instruction manual

Specification IC7300

70MHz band (European versions only)
Class Leading Real-Time Spectrum Scope
High-Resolution Waterfall Function
Audio Scope Function
RF Direct Sampling System
New “IP+” Function
Class Leading RMDR (Reciprocal Mixing Dynamic Range) and
Phase Noise Characteristics
Large Touch Screen Colour TFT LCD
Multi-Dial Knob for Smooth Operation
SD Memory Card Slot for Saving Data
15 Discrete Band-Pass Filters
Built-In Automatic Antenna Tuner
Superior Sound Quality
New HM-219 hand microphone supplied
Effective large cooling fan system
A Multi-function meter
101 memory channels (99 regular, 2 scan edges)
Optional RS-BA1 IP remote control software (the spectrum
scope with the waterfall can be observed)
CW functions: Full break-in, CW reverse, CW auto tuning
- See more at: [http://www.icomuk.co.uk/IC-7300/](http://www.icomuk.co.uk/IC-7300/Amateur_Radio_Ham_Base_Stations#sthash.hYEPvTEb.dpuf)
Amateur_Radio_Ham_Base_Stations#sthash.hYEPvTEb.dpuf

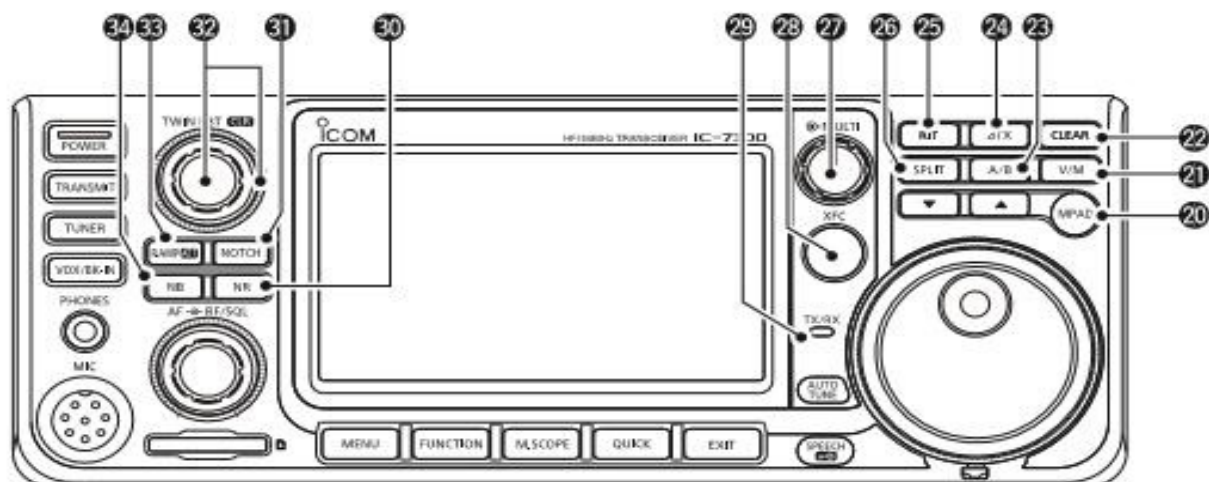
Front panel

This section describes the keys, controls and dials that you use to operate the IC-7300. Refer to the pages posted beside each key, control, or dial for details.



- 1 POWER KEY** **POWER** (p. 3-1)
Turns the transceiver ON or OFF.
- 2 TRANSMIT KEY** **TRANSMIT** (p. 3-9)
Toggles between transmit and receive.
- 3 ANTENNA TUNER KEY** **TUNER** (p. 7-1)
Turns the antenna tuner ON or OFF, or activates the tuner.
- 4 VOX/BREAK-IN KEY** **VOX/BK-IN**
Turns the VOX function (p. 4-7) and Break-in function (p. 4-12) ON or OFF.
- 5 HEADPHONE JACK** **[PHONES]** (p. 2-1)
Connects to a standard stereo headphones.
- 6 MICROPHONE CONNECTOR** **[MIC]** (p. 2-1)
Connects to the supplied or an optional microphone.
- 7 VOLUME CONTROL** **AF-RF/SQL** (p. 3-1)
Adjusts the audio output level.
- 8 SD CARD SLOT** **[SD CARD]** (p. 6-1)
Accepts an SD card.
- 9 RF GAIN CONTROL/SQUELCH CONTROL** **AF-RF/SQL** (p. 3-9)
Adjusts the RF gain and squelch threshold levels.
- 10 MENU KEY** **MENU** (p. 1-6)
Opens the MENU screen.
- 11 FUNCTION KEY** **FUNCTION** (p. 1-6)
Displays the FUNCTION screen.
- 12 MINI SCOPE KEY** **M.SCOPE** (p. 5-1)
Displays the Mini Scope or Spectrum Scope.
- 13 QUICK KEY** **QUICK** (p. 1-6)
Displays the QUICK MENU.
- 14 EXIT KEY** **EXIT** (p. 1-6)
Exits a setting screen or returns to the previous screen.
- 15 AUTO TUNE KEY** **AUTO TUNE** (p. 4-13)
Automatically tunes the operating frequency to a received CW signal.
- 16 SPEECH/LOCK KEY** **SPEECH** (p. 3-9)
Announces the operating frequency or receiving mode, or electronically locks **MAIN DIAL**.
- 17 TENSION ADJUSTER**
Adjusts the friction of **MAIN DIAL**.
- 18 MAIN DIAL** **MAIN DIAL** (p. 3-3)
Changes the operating frequency.
- 19 MEMORY CHANNEL UP/DOWN KEY** **▲/▼**
Changes the Memory channel.

Front Continued



20 MEMO PAD KEY (MPAD)

Sequentially calls up the contents in the Memo Pads, or saves the displayed contents into the Memo Pad.

21 VFO/MEMORY KEY (V/M) (p. 3-1)

Switches between the VFO and Memory mode, or copies the memory channel contents to the VFO.

22 CLEAR KEY (CLEAR)

Clears the RIT or ΔTX shift frequency.

23 A/B KEY (A/B) (p. 3-1)

Switches between VFO A and VFO B, or sets the selected VFO's frequency to the other VFO.

24 ΔTX KEY (ΔTX) (p. 4-8)

Turns the ΔTX function ON or OFF.

25 RIT KEY (RIT) (p. 4-1)

Turns the Receiver Incremental Tuning (RIT) function ON or OFF.

26 SPLIT KEY (SPLIT) (p. 4-10)

Turns the Split function ON or OFF.

27 MULTI-FUNCTION CONTROL (MULTI) (p. 1-6)

Displays the Multi-function menu for various adjustments, or selects a desired item.

28 TRANSMIT FREQUENCY CHECK KEY (XFC) (p. 4-8)

Enables you to monitor the transmit frequency while holding it down in the Split mode.

29 TX/RX INDICATOR (p. 3-9)

Lights red while transmitting and lights green while receiving.

30 NOISE REDUCTION KEY (NR) (p. 4-6)

Turns the Noise Reduction function ON or OFF.

31 NOTCH KEY (NOTCH) (p. 4-6)

Turns the Notch filter ON or OFF.

32 TWIN PASSBAND TUNING CONTROL (TWIN PBT) (p. 4-3)

Adjusts the IF filter's passband width.

33 PREAMP/ATTENUATOR KEY (PAMPATT) (p. 4-1)

Turns ON or OFF, and selects one of two receive RF preamplifiers or turns the Attenuator ON or OFF.

34 NOISE BLANKER KEY (NB) (p. 4-5)

Turns the Noise Blanker ON or OFF.

Rear



1 DC POWER SOCKET [DC 13.8 V] (p. 2-2)
Accepts 13.8 V DC through the DC power cable.

2 GROUND TERMINAL [GND] (p. 2-1)
Connects to ground to prevent electrical shocks, TVI, BCI and other problems.

3 ANTENNA CONNECTOR [ANT] (p. 2-2)
Connects to a 50 Ω PL-259 coax connector.

4 SOCKET [ACC] (p. 2-2)
Connects to devices to control an external unit or to control the transceiver.

5 USB PORT (B TYPE) [USB] (p. 2-2)
Connects to a PC.

6 CI-V REMOTE CONTROL JACK [REMOTE] (p. 2-2)
• Connects to a PC or other transceiver for external control.

7 EXTERNAL SPEAKER JACK [EXT-SP] (p. 2-2)
Accepts a 4~8 Ω external speaker.

8 KEY JACK [KEY] (p. 2-2)
Connects to a straight key, external electronic keyer, or a paddle with 6.35 mm (1/4") stereo plug.

9 SEND CONTROL JACK [SEND] (p. 2-2)
Connects to control transmit with non-Icom external units.

10 ALC INPUT JACK [ALC] (p. 2-2)
Connects to the ALC output jack of a non-Icom linear amplifier.

11 TUNER CONTROL SOCKET [TUNER] (p. 2-2)
Accepts the control cable from an optional AH-4 or AH-740 AUTOMATIC ANTENNA TUNER.

12 COOLING FAN
Cools the PA unit when necessary.

Basic Connection to rear IC7300

Earth radio

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Connect Icom power supply

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Antenna plug

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Usb — Dplug radio to computer

No 5 (on rear) **USB PORT (B TYPE) [USB]**



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USB CT17 CAT interface lead

No 6 (on rear) **Connects to a PC any usb port or other transceiver for external control.**

(I have found in the past to obtain one of these from)

As I no these work .

<http://www.g4zlp.co.uk/unified/IcomCAT.shtml>



Powering up and setting up

As this is a club radio (NARC) the main settings will be already installed for basic radio use and will not require changing.

So lets go to the main lcd screen and start up.

(1) Power on radio (start up screen and icom logo)

(2)Menu (10) Gives you icon screen with choices .

(3) Press SCOPE icon this will give you the frequency and waterfall. Using the AF RF/SQL knob you can vary the amount of signal on the scope + or - vary the amount of R F and colour into the screen. You should now with good signals coming in see white graphic lines vertical on the waterfall.

Bye touching one of these lines the radio will go nearly spot on the frequency, you can fine tune by touching the frequency and using the VFO.

(Example) frequency 14.144.647

Touch the 14 and you can change the band

Touch the 144 and this will give you fast tune using VFO.

Touch the 647 and this will give you fine tune using VFO.

(4)Now we are going to set the power, comp, monitor.

Pressing the (27) Multi knob (top right) it will bring up the above icons if you touch any of these icons it will highlight it in blue so it is active by using the multi knob you can adjust these to your Preference, my personal settings are as follows:

**RF Power 50%, MIC GAIN 88%, COMP 8,
MONITOR OFF 66%**

I have had good reports on Audio from these settings using the standard supplied microphone.

To Tune The Radio IC7300

This is quite simple and straight forward .

- (1) Set to required band and frequency as described on previous page on spectrum scope.**
- (2) Press Multi knob and set RF power to required tuning power (I use 15 to 20 % (watts) .**
- (3) Press Tuner and hold slightly (it will light up tune in the left top corner and colour will change from Red to White, its now tuned**

You have probably noticed on the Lcd screen the TX is in red this is normal and on TX transmissions it will highlight in white on TX

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Now your ready to go

I have tried to keep this brief to get you started . I have found that the Icom 7300 is a easy radio to use and has many more features that I could explain.

I Found a lot of good videos on You Tube and it helped me setting up most of the modes I use so take a look.

**I hope this has been helpful for the first timer ?
If you need to know more I will try to help if I can.**

John 2E0TWQ Norfolk Amateur Radio Club

Icom 7300 set Menu



Press set to Start

FUNCTIONS- SETTINGS

FUNCTION 1- 4

BEEP LEVEL	50 %
BEEP LEVEL LIMIT	ON
BEEP CONFIRMATION	ON
BAND EDGE DEEP	DEFAULT
RF/SQL CONTROL	AUTO
MF BAND ATT	ON
TX DELAY	—
TIME- OUT TIMER (CI-V)	OFF
SPLIT	—
TUNER - SWITCH	MANUAL
PTT START	OFF
PRESET MEMORY CLEAR	—
RTTY MARK FREQ	2125
RTTY SHIFT WIDTH	170
RTTY KEYING POLARITY	NORM
SPEECH LANGUAGE	ENGLISH
SPEECH SPEED	FAST
S-LEVEL SPEECH	ON
MODE SPEECH	OFF
SPECLEVEL	50 %
SPEECH/ LOCK	—
LOCK FUNCTION	MAIN DIAL

FUNCTION 5 - 8

MEMO PAD QUANTITY	5
MAIN DIAL AUTO TS	HIGH
MIC UP/DOWN SPEED	FAST
QUICK RIT/ TX CLEAR	OFF
NOTCH SWITCH SSB	AUTO/MAN
NOTCH SWITCH AM	AUTO/MAN
SSB/CW SYNCH TUNING	OFF
CW NORMAL SIDE	LSB
SCREEN CAPTURE POWER SW	OFF
SCREEN CAPTURE FILE TYPE	PNG
KEYBOARD TYPE	FULL
CALIBRATION MARKER	OFF
REF ADJUST	50 %

Icom 7300 set Menu



Press set to Start

CONNECTORS / DISPLAY SETTINGS

CONNECTORS 1-4

ACC/USB OUTPUT SELECT	AF
ACC/USB AF OUTPUT LEVEL	82 %
ACC/USB AF SQL	OFF (OPEN)
ACC/USB AF BEEP / SPEECH OUTPUT	OFF
ACC/USB IF OUPUT LEVEL	50 %
ACC/MOD LEVEL	50 %
USB MOD LEVEL	40 %
DATA OFF MOD	MIC / ACC
DATA MOD	USB
CI- V	—
USB SERIAL FUNCTION	CI-V
RTTY DECODE BAUD RATE	9600
USB SEND	RTS
USB KEYING (CW)	DTR
USB KEYING (RTTY)	DTR

DISPLAY 1-4

LCD BACKLIGHT	45 %
DISPLAY TYPE	A
DISPLAY FONT	ROUND
METER PEAK HOLD	ON
MEMORY NAME	ON
MNQ	ON
BW POP UP PBT	ON
BW POP UP FIL	ON
SCREEN SAVER	OFF
OPENING MESSAGE	ON
MY CALL	??????
POWER ON CHECK	ON
DISPLAY LANGUAGE	ENGLISH
<u>TIME SET</u>	
<u>SD CARD</u>	
<u>ETC OTHERS</u>	

ICOM 7300

Connecting to Ham Radio Deluxe

Last free Version (V 5..23.0.38)



This version V5.23.0.38 is the last free version and can be found on <https://www.egr.msu.edu/msuarc/software/ham-radio-deluxe/> I have found this link safe and secure and have used it on many occasions. Download and install to computer - Click on desktop HRD icon. Now you will see the Connect Unregistered (registration is free). A good manual can be found on :[http://www.ham-radio.ch/doc/Ham%20Radio%](http://www.ham-radio.ch/doc/Ham%20Radio%20Manual.pdf)

Connect: Unregistered - Registration is Free!

Select a Preset or New definition and press 'Connect'

New Preset Serial Ports Help

Company: ICOM

Radio: IC-7700

COM Port: Auto-detect

Speed: 9600

CI-V Add: 94

Flow control / Interface power

CTS DTR RTS

Always connect to this radio when starting HRD

Start HRD in Full Screen mode

Start: Digital Master 780

Logbook

Rotator

Satellite Tracking

Connect

✗ Fill in the registration form as same as the jpg picture on the left, The details are correct and work fine, you will notice that the Radio is set on **IC7700**. This is because there is no IC7300 on this software and you use the **IC7700** as the equivalent.

If you put the **com port on auto detect** It will find it. Your Speed this is your **baud rate 9600** as set in the radio also your **CI-V Add** must be changed from (74) to **94** .

Do not tick the CTS , DTR. RTS as they are not required. Tick always start HRD and full screen mode and also your Logbook . **NOW CONNECT**.

You radio will connect to your pc and software Next step is to Fill in your log book details , I.e Call sign , Address and so on and your ready to go

More settings can be found on You Tube as there are plenty of instructional videos on