IC 7300 Settings for Digital

This page describes how to adjust the settings on the IC-7300 to use digital modes like FT8, JS8, or Winlink. To make it convenient to switch between digital and voice, we use an SD Card to save the settings and load them up when needed.

So before doing anything, let's backup the current settings in case something goes wrong:

- Insert an SD Card in the radio.
- Go to `MENU` → `SD Card`
- The first time, `Format` the card. This will erase everything on the card.
- Press `Save Setting` → `" New File"` → Pick a file name.

Later on, these settings can be applied using the `Load Setting` option.

Connector Settings

Now that the settings are backed up, let tweak a few things.

VA7FI has the following settings on his radio. The settings in light grey are there for reference only and can be different, but the settings in black should probably match these:

`MENU` → SET → Connectors:	
ACC/USB Output Select	AF
ACC/USB AF Output Level	40%
ACC/USB AF SQL	OFF (Open)
ACC/USB AF Beep Speech... Output	OFF
ACC/USB IF Output level	50%
ACC MOD Level	50%
USB MOD Level	40%
DATA OFF MOD	MIC
DATA MOD	USB
`MENU` → SET → Connectors → CI-V:	
CI-V Baud Rate	Auto
CI-V Address	note it
CI-V Transceive	ON
CI-V USB→Remote Tx Address	N/A
CI-V Output (for ANT)	OFF
CI-V USB Port	Link to [REMOTE]
`MENU` → SET → Connectors:	
USB Serial Function	CI-V
`MENU` → SET → Connectors → USB SEND Keying:	
USB SEND	RTS
USB Keying (CW)	OFF
USB Keying (RTTY)	OFF

Inhibit Timer at USB Connection	ON

Filter Settings

Next, we adjust the filter width:

- Press the FIL1 (or FIL2 or FIL3) button at the top of the screen (above the frequency) and select FIL1.
- Press and hold FIL1 (yes, the same button as before).
- Press the BW button and turn the VFO knob until it says "3.6k"
- Then turn the inner and outer TWIN PBT knobs (top left) to adjust the boundaries to 600 and 2600 (even though the picture shows 650 and 3400).[1]
- Optionally, press FIL1 again to also customize FIL2 and FIL3.
- When done, press the MENU button and select the screen you usually like to see (SCOPE, METER, etc)

ACG Adjustments

- Pick a clear frequency.
- Press FUNCTION button.
- Press and hold the AGC button.
- Select the FAST button and turn the VFO knob until it reads OFF.
- Optionally, set the MID to 0.3s and the SLOW to 2.0s.
- Press <MENU> and select SCOPE, or METER, or …

Digital and Voice settings

Mode	Digital	Voice
Defaut Frequency	7.078.00 USB-D	3.739.00 LSB
MUTI (select and turn the knob)		
RF POWER	30%	100%
MIC GAIN	40%	40%
COMP	N/A	ON 4
MONITOR	ON 100%	OFF 100%
FUNCTION		
P.AMP ATT	OFF	OFF
AGC	OFF	SLOW
NOTCH	OFF	OFF
NB	OFF	ON
NR	OFF	OFF
IP+	OFF	OFF
VOX	OFF	OFF
COMP	N/A	ON
1/4	OFF	WIDE

Mode	Digital	Voice
MONI	ON	OFF

[1)](javascript:void(0))

The filter boundaries can be tweaked anytime on the fly to filter out unwanted signals at the edge of the band. This is useful if say you've got strong RTTY signals activating your AGC, thus reducing the strength of the signals you're interested in.