

K0PIR Icom 7300 SDR HF/6m Transceiver (<http://www.k0pir.us/>)

Icom 7300, 7000, Flex 1500, Raspberry Pi - Ham Radio K0PIR

ICOM 7300 HAM RADIO DELUXE SETUP



Icom 7300 Ham Radio Deluxe Setup is so easy and in this example I use a couple of cables. Why use two cables? Because I want to use the radio to it's full capability while keeping it simple. Yes, In the long run I believe two cables are easier than one.

Ham Radio Deluxe has been my go to software for rig control, logbook and digital mode operation for many years now. It was originally developed by Simon

HB9DRV and Peter PH1PH. Free to use for years and now available for purchase and technical support. The free version is what I use and is still available here (<http://www.iw5edi.com/software/ham-radio-deluxe-5-download-links>).

So if you're interested in the "swiss army knife of ham radio" and using it with the Icom 7300, you're in the right place.

Icom 7300 Ham Radio Deluxe Setup

Two cables are used in this setup. One is the USB cable ([https://rover.ebay.com/rover/1/711-53200-19255-0/1?](https://rover.ebay.com/rover/1/711-53200-19255-0/1?ff3=4&toolid=11800&pub=5575171312&campid=5337860891&mpre=http%3A%2F%2Fwww.ebay.com%2Fitm%2F)

[ff3=4&toolid=11800&pub=5575171312&campid=5337860891&mpre=http%3A%2F%2Fwww.ebay.com%2Fitm%2F](https://rover.ebay.com/rover/1/711-53200-19255-0/1?ff3=4&toolid=11800&pub=5575171312&campid=5337860891&mpre=http%3A%2F%2Fwww.ebay.com%2Fitm%2F) Speed-A-B-Cable-Ferrite-Chokes-Premium-Double-Shielded-Male-USB-2-0-6-Feet-

[%2F262272346235%3Fhash%3Ditem3d10a6687b%3Ag%3AuisAAOSwL7VWsQVi](https://rover.ebay.com/rover/1/711-53200-19255-0/1?ff3=4&toolid=11800&pub=5575171312&campid=5337860891&mpre=http%3A%2F%2Fwww.ebay.com%2Fitm%2F)) connected to the radios

USB port and the other is a CI-V cable ([https://rover.ebay.com/rover/1/711-53200-19255-0/1?](https://rover.ebay.com/rover/1/711-53200-19255-0/1?ff3=4&toolid=11800&pub=5575171312&campid=5337860891&mpre=http%3A%2F%2Fwww.ebay.com%2Fitm%2F)

[ff3=4&toolid=11800&pub=5575171312&campid=5337860891&mpre=http%3A%2F%2Fwww.ebay.com%2Fitm%2F](https://rover.ebay.com/rover/1/711-53200-19255-0/1?ff3=4&toolid=11800&pub=5575171312&campid=5337860891&mpre=http%3A%2F%2Fwww.ebay.com%2Fitm%2F)

connected to the radios CI-V port. Use the CI-V for rig control and the USB for the soundcard. I have found this to be the easiest, because later on I added cw keying and RTTY (FSK) to the mix.

If you just want to use a USB Cable with HRD and operate some PSK31 or RTTY (AFSK), take a look at this video (<https://www.youtube.com/watch?v=bzChmae2O6c>).

Step one, if you haven't already, download and install the USB driver from Icom for your Icom IC-7300. USB Driver (Ver 1.2) (https://www.icom.co.jp/world/support/download/firm/IC-7600/usb1_20/). Do not connect the USB cable until you have downloaded and installed the driver.

Step two, connect both cables.

Step three, setup the Icom 7300 using the radio's menu. Set the following menu items under MENU>SET>Connectors. These are the changes, leave everything else to default settings. I have included a couple of extra settings that will help later on when using PSK31, RTTY (FSK) and CW keying.

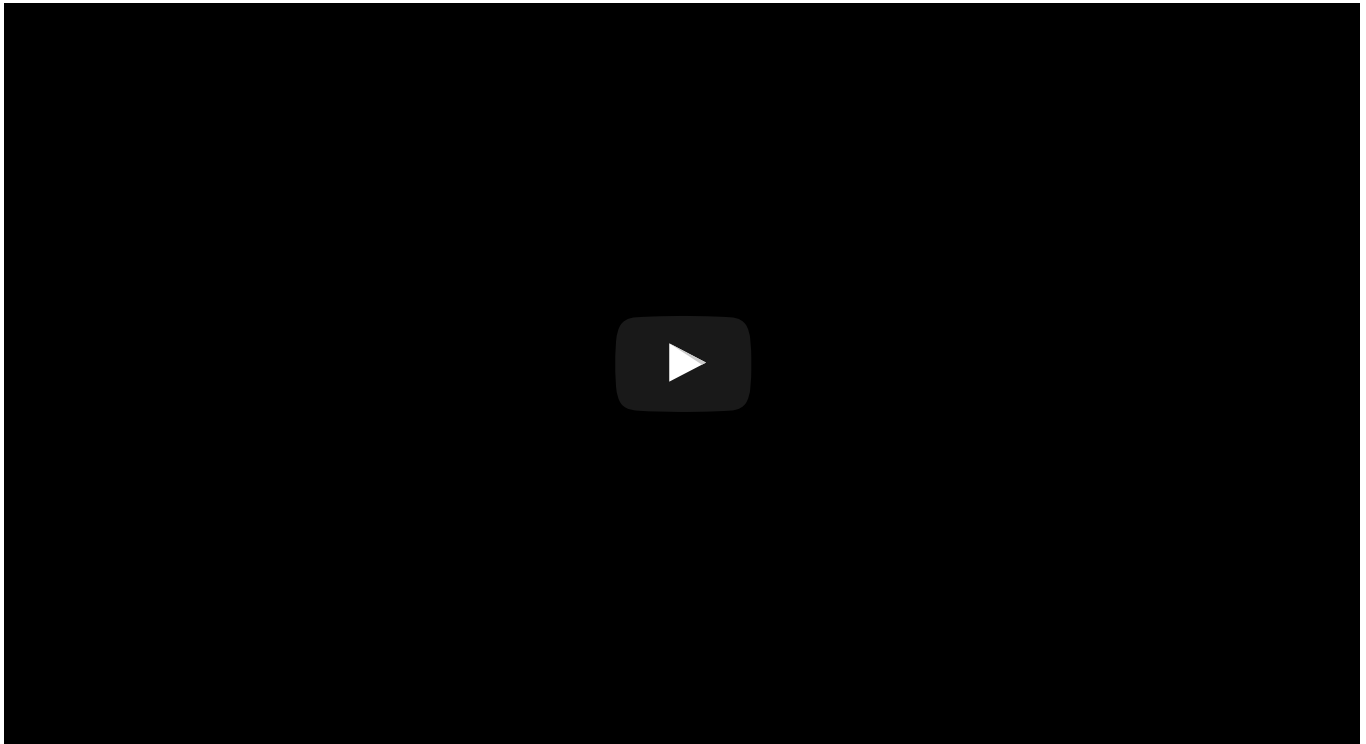
- DATA MOD : Change to USB
- USB SEND: RTS
- USB Keying (CW): DTR
- USB Keying (RTTY): DTR
- Here are some screenshots (http://www.k0pir.us/files/7300_for_hrd_screenshots/).

Step four, if you don't already have it, download and install HRD. For this tutorial we will be using the free version (<http://www.iw5edi.com/software/ham-radio-deluxe-5-download-links>). You can download and install the paid or trial version. It shouldn't be much different. The paid and trial version has the IC-7300 listed under radios, where-as in the free version we will choose the IC-7700.

Step five, start Ham Radio Deluxe and on the Rig Connection Screen choose the New tab.

- Next to Company choose ICOM.
- Next to Radio choose IC-7700 (IC-7300 if using the paid or trail version).
- Next to COM Port choose the CI-V port (mine is COM6 and you can look under Windows device manager to find the correct Port, look for Prolific USB-to-Serial Comm Port (http://c.affil.walmart.com/t/api02?l=https%3A%2F%2Fwww.walmart.com%2Fip%2FSerialGear-SerialGear-Industrial-4-Port-RS-232-USB-to-Serial-Adapter-Compact-Metal-Case-with-1m-Octopus-Cable-DIN-rail%2F167659355%3Faffp1%3D_93OZurneWBM6MzHk8r3K6tk2tBvAeWU96b4VwBPQH0%26affilsrc%3Dapi)).
- Next to Speed choose 9600
- Next to CI-V Add enter 94 (94 if using the free version, if using the trail or paid version the correct setting will automatically be selected).
- Under Flow control/Interface power select RTS. Double check everything listed and make sure the speed is still at 9600.
- I usually choose to start Digital Master 780 and Logbook at startup, so you can check those off to the right if you like.
- Click Connect at the bottom left of the window.

You should now be connected. See the video below for a visual.



My next article on DM780 for PSK31, RTTY (AFSK) and CW. (<http://www.k0pir.us/icom-7300-dm780-setup/>)

Thanks for dropping by and looking at the Icom 7300 Ham Radio Deluxe Setup. I hope you find this interesting and useful.

If you have a suggestion or do things differently, please comment below. How's the Icom 7300 and HRD working for you? Best 73, good health and good DX. – Rich, K0PIR

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🕒 April 29, 2016 👤 K0PIR (<http://www.k0pir.us/author/rich/>) 📁 Icom 7300 (<http://www.k0pir.us/category/icom-7300/>) , Software (<http://www.k0pir.us/category/software/>) 💬 27 Comments (<http://www.k0pir.us/icom-7300-ham-radio-deluxe-setup/#comments>)

(<http://www.k0pir.us/tag/dm780/>)

(<http://www.k0pir.us/tag/ham-radio-deluxe/>)

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(<http://www.k0pir.us/tag/install/>)

(<http://www.k0pir.us/tag/psk31/>)

(<http://www.k0pir.us/tag/screenshots/>)

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(<http://www.k0pir.us/tag/usb-driver/>)

(<http://www.k0pir.us/tag/video/>)

← *Icom 7300 RTTY FSK with MMTTY and N1MM Logger* (<http://www.k0pir.us/icom-7300-rtty-fsk-mmtty/>)
Icom 7300 One Month Review → (<http://www.k0pir.us/icom-7300-one-month-review/>)

💬 27 Comments



Larry

May 12, 2016 at 6:43 am (<http://www.k0pir.us/icom-7300-ham-radio-deluxe-setup/#comment-13>) | Reply
(<http://www.k0pir.us/icom-7300-ham-radio-deluxe-setup/?replytocom=13#respond>)

What interface do you use for the PC to CI-V jack on the IC-7300? USB to RS232?



K0PIR (<http://www.k0pir.us>)

May 12, 2016 at 7:01 am (<http://www.k0pir.us/icom-7300-ham-radio-deluxe-setup/#comment-14>) | Reply
(<http://www.k0pir.us/icom-7300-ham-radio-deluxe-setup/?replytocom=14#respond>)

Hi Larry,

I got a cheap one off of ebay. I have two, one for the mobile rig (IC-7000) and one for in the house. On these I believe I had to roll back the driver. The latest one doesn't work with Windows 10. Here's a link to help with that in case you do: http://www.miklor.com/COM/UV_Drivers.php#install

(http://www.miklor.com/COM/UV_Drivers.php#install)

Thanks for asking. Take care, 73. – Rich, K0PIR

[http://www.ebay.com/itm/272037085710?](http://www.ebay.com/itm/272037085710?_trksid=p2057872.m2749.l2649&ssPageName=STRK%3AMEBIDX%3AIT)

[_trksid=p2057872.m2749.l2649&ssPageName=STRK%3AMEBIDX%3AIT](http://www.ebay.com/itm/272037085710?_trksid=p2057872.m2749.l2649&ssPageName=STRK%3AMEBIDX%3AIT)

([http://www.ebay.com/itm/272037085710?](http://www.ebay.com/itm/272037085710?_trksid=p2057872.m2749.l2649&ssPageName=STRK%3AMEBIDX%3AIT)

[_trksid=p2057872.m2749.l2649&ssPageName=STRK%3AMEBIDX%3AIT](http://www.ebay.com/itm/272037085710?_trksid=p2057872.m2749.l2649&ssPageName=STRK%3AMEBIDX%3AIT))



K0PIR (<http://www.k0pir.us>)

May 12, 2016 at 7:11 am (<http://www.k0pir.us/icom-7300-ham-radio-deluxe-setup/#comment-15>) | Reply

(<http://www.k0pir.us/icom-7300-ham-radio-deluxe-setup/?replytocom=15#respond>)

The Prolific driver version I'm using is 3.3.81.357 and the date of the driver is 9/4/2015.



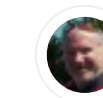
Larry

May 12, 2016 at 7:25 pm (<http://www.k0pir.us/icom-7300-ham-radio-deluxe-setup/#comment-16>) | Reply

(<http://www.k0pir.us/icom-7300-ham-radio-deluxe-setup/?replytocom=16#respond>)

Rich, thanks very much. It's very helpful.

Larry



K0PIR (<http://www.k0pir.us>)

May 12, 2016 at 8:30 pm (<http://www.k0pir.us/icom-7300-ham-radio-deluxe-setup/#comment-17>) | Reply

(<http://www.k0pir.us/icom-7300-ham-radio-deluxe-setup/?replytocom=17#respond>)

You bet Larry. Take care 73 Rich, K0PIR



robert

May 13, 2016 at 7:28 pm (<http://www.k0pir.us/icom-7300-ham-radio-deluxe-setup/#comment-18>) | Reply

(<http://www.k0pir.us/icom-7300-ham-radio-deluxe-setup/?replytocom=18#respond>)

Hello Larry,

I'm new to the radio and the idea of control via computer which I find interesting and I am willing to try and make work. Please help me understand what Icom is saying on page 2-3 of the manual under the USB description. The first bullet states "Remotely controls the transceiver using CI-V commands". Words to this effect are used on the remote jack as well. Can one operate the radio using just the USB port with HRD version 5.24.38. When I tried this for the first time the rig went into transmit 3 seconds after the connection was made.

Thank you for any help you may have and I realize it is not your duty to school the newbies.

Robert K6FX



K0PIR (<http://www.k0pir.us>)

May 13, 2016 at 7:41 pm (<http://www.k0pir.us/icom-7300-ham-radio-deluxe-setup/#comment-19>) | Reply

(<http://www.k0pir.us/icom-7300-ham-radio-deluxe-setup/?replytocom=19#respond>)

Hi Robert,

Yes you can use the USB to control the radio. I think I understand your problem. When pulling up the HRD Connect screen choose Icom, IC-7700, "your com port", "your speed", CI-V address of 94 and choose DTR instead of RTS. After choosing DTR go back and make sure the speed is still correct. Then try to connect.

Hope this helps, 73 – Rich, K0PIR



robert

May 14, 2016 at 9:49 am (<http://www.k0pir.us/icom-7300-ham-radio-deluxe-setup/#comment-20>) | Reply

(<http://www.k0pir.us/icom-7300-ham-radio-deluxe-setup/?replytocom=20#respond>)

Hello Rich,

That did it, thank you for your help. It is clear I have much to learn and I'll give it a go. Please forgive me for getting your name wrong...what a goofball.

Robert



K0PIR (<http://www.k0pir.us>)

May 14, 2016 at 10:45 am (<http://www.k0pir.us/icom-7300-ham-radio-deluxe-setup/#comment-21>) | Reply

(<http://www.k0pir.us/icom-7300-ham-radio-deluxe-setup/?replytocom=21#respond>)

Hey Robert no problem, glad that did it. I did the same thing awhile back. 73 and good DX. – Rich, KOPIR



Fred

June 11, 2016 at 4:58 am (<http://www.k0pir.us/icom-7300-ham-radio-deluxe-setup/#comment-22>) | Reply

(<http://www.k0pir.us/icom-7300-ham-radio-deluxe-setup/?replytocom=22#respond>)

'73 for all de KI4RMF Fred!!!



KOPIR (<http://www.k0pir.us>)

June 11, 2016 at 5:27 am (<http://www.k0pir.us/icom-7300-ham-radio-deluxe-setup/#comment-23>) | Reply

(<http://www.k0pir.us/icom-7300-ham-radio-deluxe-setup/?replytocom=23#respond>)

Thanks Fred! 73 Best DX – Rich, KOPIR



Larry Woram

June 12, 2016 at 12:34 pm (<http://www.k0pir.us/icom-7300-ham-radio-deluxe-setup/#comment-24>) | Reply

(<http://www.k0pir.us/icom-7300-ham-radio-deluxe-setup/?replytocom=24#respond>)

I followed the steps above when setting up HRD 5.24 and the rig control seemed to work on first try however it put the IC-7300 into transmit. I was not able to put it back into receive without turning power off. Any suggestions?



KOPIR (<http://www.k0pir.us>)

July 9, 2016 at 4:49 am (<http://www.k0pir.us/icom-7300-ham-radio-deluxe-setup/#comment-25>) | Reply

(<http://www.k0pir.us/icom-7300-ham-radio-deluxe-setup/?replytocom=25#respond>)

Hi Larry,

Did you get it to work? Try alternating between DTR and RTS in the HRD connect window.



Tim Ricke

September 21, 2016 at 4:54 pm (<http://www.k0pir.us/icom-7300-ham-radio-deluxe-setup/#comment-32>) | Reply
(<http://www.k0pir.us/icom-7300-ham-radio-deluxe-setup/?replytocom=32#respond>)

I have had the DM780 working and have made several QSO's. I wanted to add CW so I purchased a CI-V cable and followed your instructions with HRD ver. 6.30.557. Now when I transmit I see a yellow vertical line on the radio instead of red and I am not getting out. What should I change?



K0PIR (<http://www.k0pir.us>)

September 21, 2016 at 5:58 pm (<http://www.k0pir.us/icom-7300-ham-radio-deluxe-setup/#comment-33>) | Reply
(<http://www.k0pir.us/icom-7300-ham-radio-deluxe-setup/?replytocom=33#respond>)

Hi Tim,

You should be able to hear the code being sent. Your power meter will kick up too. Use the Audio Scope and you should see the transmission. Is that happening?



Doug Quackenbush

November 3, 2016 at 2:56 am (<http://www.k0pir.us/icom-7300-ham-radio-deluxe-setup/#comment-40>) | Reply
(<http://www.k0pir.us/icom-7300-ham-radio-deluxe-setup/?replytocom=40#respond>)

Thank you for the detailed article. I believe I followed all of the steps; however, HDR becomes unresponsive once I press connect. Any ideas what I may be doing incorrectly to cause this connection problem? I've verified that the USB port is set to 9600 bps. I'm running HDR 6.3.0.501.

Thanks for any advice,

Doug



K0PIR (<http://www.k0pir.us>)

November 7, 2016 at 8:18 pm (<http://www.k0pir.us/icom-7300-ham-radio-deluxe-setup/#comment-41>) | Reply

(<http://www.k0pir.us/icom-7300-ham-radio-deluxe-setup/?replytocom=41#respond>)

Hi Doug,

If it locks up on you I would say you have a comm port problem. Restart the computer. Make sure you're using the correct comm port. Also, try alternating RTS & DTR settings in the connect window. Does it give you an error message? Did you get it working?

P.S. HRD 6+ requires quite a bit of RAM and processing power. Does your computer meet the requirements?



Bart

November 10, 2016 at 1:38 pm (<http://www.k0pir.us/icom-7300-ham-radio-deluxe-setup/#comment-46>) | Reply

(<http://www.k0pir.us/icom-7300-ham-radio-deluxe-setup/?replytocom=46#respond>)

When using DM780 for RTTY (FSK) do you have the IC-7300 set for RTTY or DATA ?

Thanks, Bart



K0PIR (<http://www.k0pir.us>)

November 10, 2016 at 5:23 pm (<http://www.k0pir.us/icom-7300-ham-radio-deluxe-setup/#comment-47>) | Reply

(<http://www.k0pir.us/icom-7300-ham-radio-deluxe-setup/?replytocom=47#respond>)

Hi Bart,

When using DM780, I have the old (free) version, so it is set to DATA. If you have a new version 6.0+ I believe it will do FSK.



Phil Mujllins

December 18, 2016 at 8:08 pm (<http://www.k0pir.us/icom-7300-ham-radio-deluxe-setup/#comment-52>) | Reply

(<http://www.k0pir.us/icom-7300-ham-radio-deluxe-setup/?replytocom=52#respond>)

Thank for the details... I am using the USB only and have toggled between DTR, RTS, both on both off, and each one one. The IC-7300 still goes to TX after about 3 seconds. : any suggestions? I will get a CV-I cable if that will correct the problem. Using a Dell E6550 with Win10 OS. and IC-7300 firmware

is updated.

73's

Phil Mullins, W4PRE



K0PIR (<http://www.k0pir.us>)

December 18, 2016 at 8:29 pm (<http://www.k0pir.us/icom-7300-ham-radio-deluxe-setup/#comment-53>) | Reply
(<http://www.k0pir.us/icom-7300-ham-radio-deluxe-setup/?replytocom=53#respond>)

Hi Phil,

What version of HRD Phil? There was an issue with HRD 6.3 and an update solved it.

See: <http://forums.hrdsoftwarellc.com/forum/hrd-6-x-peer-support-forums/hrd-6-2-rig-control/40410-switching-to-tx-after-connect> (<http://forums.hrdsoftwarellc.com/forum/hrd-6-x-peer-support-forums/hrd-6-2-rig-control/40410-switching-to-tx-after-connect>)

73,

Rich, K0PIR



John Ulmer (<http://none>)

January 31, 2017 at 3:09 pm (<http://www.k0pir.us/icom-7300-ham-radio-deluxe-setup/#comment-58>) | Reply
(<http://www.k0pir.us/icom-7300-ham-radio-deluxe-setup/?replytocom=58#respond>)

Rich:

I am attempting to set up HRD v 6.3.0.613. Encountered a couple of problems. Computer shows rig connected to COM 5, but that won't show up on the rig connect screen of HRD. Get error msg "The system cannot find the file specified".

Also rig switches to TX when HRD is activated. No way to turn off. Tried suggestions from posts above, but no success.

John WB4AVX



K0PIR (<http://www.k0pir.us>)

January 31, 2017 at 4:42 pm (<http://www.k0pir.us/icom-7300-ham-radio-deluxe-setup/#comment-59>) | Reply
(<http://www.k0pir.us/icom-7300-ham-radio-deluxe-setup/?replytocom=59#respond>)

Hi John,

Are you using one or two cable?

If you are just using the USB cable then in the Icom 7300 menu under connectors see what USB SEND is set to. For just a USB cable set it to OFF. When the HRD Connect window comes up it should have RTS checked.

For the com port not showing up in the HRD connect window, you may want to restart your computer and check device manager to make sure you have the correct com port (sounds like you do), in the HRD connect window just go down the list for the "New" connection. ICOM, IC-7300, COM5, Baud (I use 9600), CI-V 94, RTS checked. The click Connect. All should be well

Are you using two cables? Let me know.

Best 73,

Rich, K0PIR



John Ulmer (<http://none>)

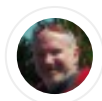
February 1, 2017 at 1:11 pm (<http://www.k0pir.us/icom-7300-ham-radio-deluxe-setup/#comment-61>) | Reply

(<http://www.k0pir.us/icom-7300-ham-radio-deluxe-setup/?replytocom=61#respond>)

Thanks Rich:

Using 2 cables. Also using Signalink sound card. Restarted computer. Com 5 did not show up in device manager. Opened HRD connect. IC-7300 shows in both Com 3 and Com5. However Device manager has Signalink using Com3. Com 5 connection won't work. Seems I am going in circles.

John



K0PIR (<http://www.k0pir.us>)

February 1, 2017 at 6:32 pm (<http://www.k0pir.us/icom-7300-ham-radio-deluxe-setup/#comment-62>) | Reply

(<http://www.k0pir.us/icom-7300-ham-radio-deluxe-setup/?replytocom=62#respond>)

Hi John,

Okay, I see. The Signalink is not needed. All you need are the cables connected to the radio from the computer. So, remove the Signalink and probably restart the computer again

When you go to Device Manager you'll see two com ports. One is the Prolific USB to Serial and the other is the Silicon Labs CP210x. Prolific for rig control (CAT) and Silicon Labs is for sound (data). Your radio is the sound card.

Okay?

If you still have trouble send me an e-mail, the address is on QRZ.com or Rich at mycallsign.us

It'll work! Just have to get the connections going.

Rich, K0PIR



John (<http://none>)

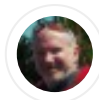
February 23, 2017 at 3:01 am (<http://www.k0pir.us/icom-7300-ham-radio-deluxe-setup/#comment-79>) | Reply

(<http://www.k0pir.us/icom-7300-ham-radio-deluxe-setup/?replytocom=79#respond>)

Hi Rich,

One other thing to be aware of is that there are apparently two different chipsets used to make up the CI-V cables. The first is the Prolific chipset which apparently has a lot of knockoffs (not true Prolific brand) and some of them are pretty shoddy. They simply won't work properly. The second is the FTDI chipset which I understand is more "stable", but the drivers are not as robust if you are using more than one FTDI cable per computer. I went through this when hooking up a Yaesu FT-450D for CAT control. The plug on the Yaesu is a RS232 so one needs an adapter cable with chipset to make the USB connection to the computer. Separately, I heard my first Contestia CQ today while using DM780. I tried to respond, but the IC7300 wouldn't transmit. I'm using just the USB cable at present. I was puzzled why I couldn't respond until I read this article, then the light came on. I think I too will opt for the two cable setup. Thanks much for sharing your wisdom.

John, KC9TND



K0PIR (<http://www.k0pir.us>)

February 23, 2017 at 5:05 am (<http://www.k0pir.us/icom-7300-ham-radio-deluxe-setup/#comment-82>) | Reply

(<http://www.k0pir.us/icom-7300-ham-radio-deluxe-setup/?replytocom=82#respond>)

Hi John,

Thank you for commenting and excellent point! I still have an old cable in my vehicle with my 7000. It tends to give me problems occassionally and I should just buy a new one. The link I have to the CI-V cable is the one I use with the Icom 7300 and I haven't had any trouble with it. That being said,

a search specifically for the “FTDI USB CI-V” cable provides a few good results. It is probably worth it from what I have read.

From my experience more people use just the USB cable and that’s the way I started out. I only use two because I wanted FSK with MMTTY and N1MM Logger+. I don’t think I’ve had the issue you describe with contestia, at least yet

Thank you again and best 73! Hope to hear you on the bands.

Rich, K0PIR

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