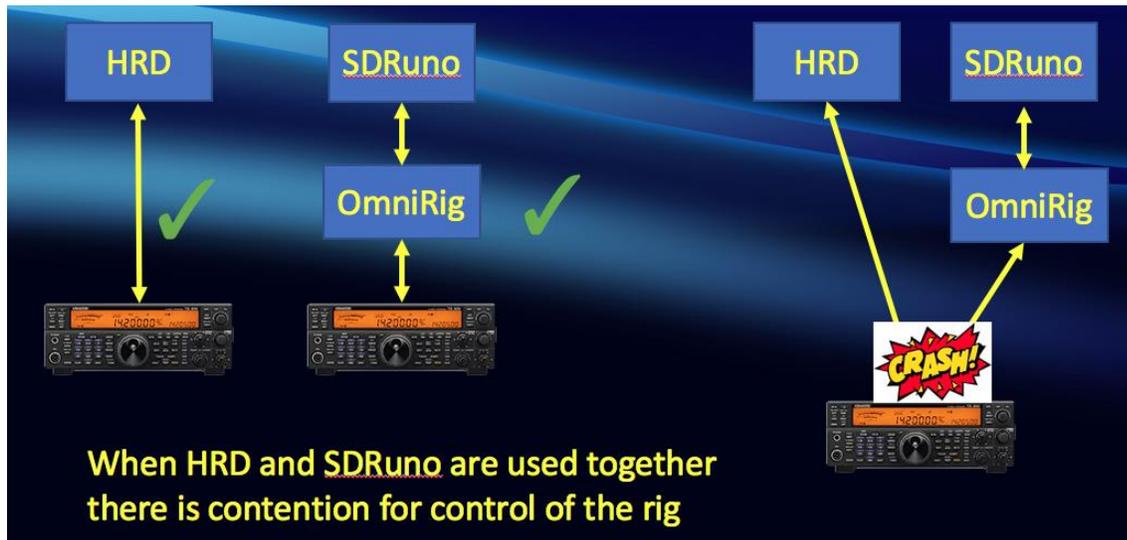


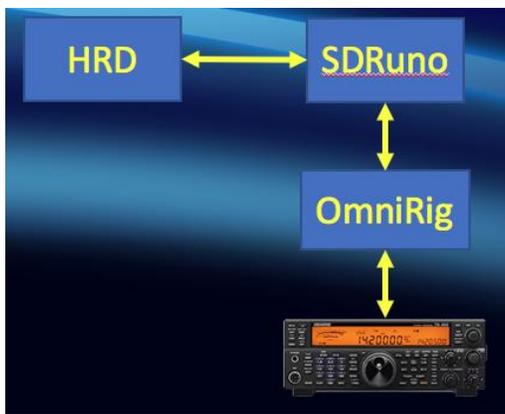
Ham Radio Deluxe revisited

[Ham Radio Deluxe](#) (HRD) is very popular with many hams who use it for logging, digital decoding and/or rig control. However, some users have had issues when they add an RSP to the mix and SDRuno software. They find they are able to control the rig with HRD or SDRuno, but have problems when they try to run both together:



An earlier Applications Note ([AN008](#)) described how to eliminate contention between HRD itself, which tries to synchronize with the rig, and OmniRig, which is used by SDRuno, to also try and synchronize the rig. That is still our recommended approach, but there is an alternative:

Original Recommendation



Alternative Approach

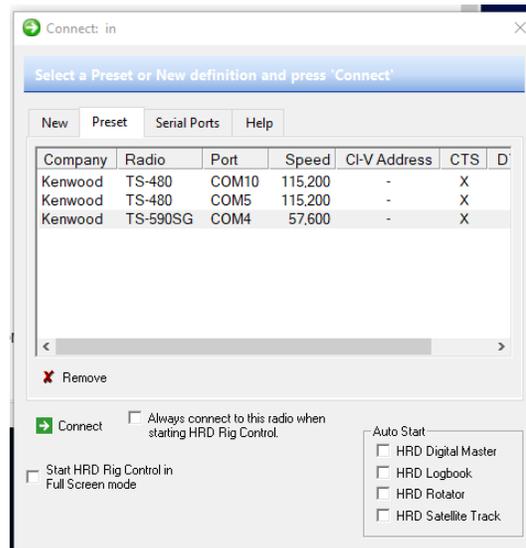


Why the alternative?

The original approach works well and is easy to set up, however, there are some additional rig control features available in HRD that are not present when using SDRuno/Omnirig. Therefore the alternative approach allows HRD to assume rig control duties and then we sync HRD and SDRuno together.

1. HRD Rig Control

Use the Connect dialog in HRD to establish connection with your particular rig:



2. Setup your virtual COM port pair

In the original application note we showed how to set up VSPE from Eterlogic. An alternative is to use com0com, which is described in an application video [here](#). We will assume you have set up COM5 and COM6 to illustrate setup, substitute whatever COM ports you set up for your system, just ensure they do not conflict with the rig's physical COM port or any other COM ports in use on your system.

3. Set up Third Party Serial port in HRD

Select "Hardware/3rd Party Serial Port" from the tools menu in HRD.

Then select:

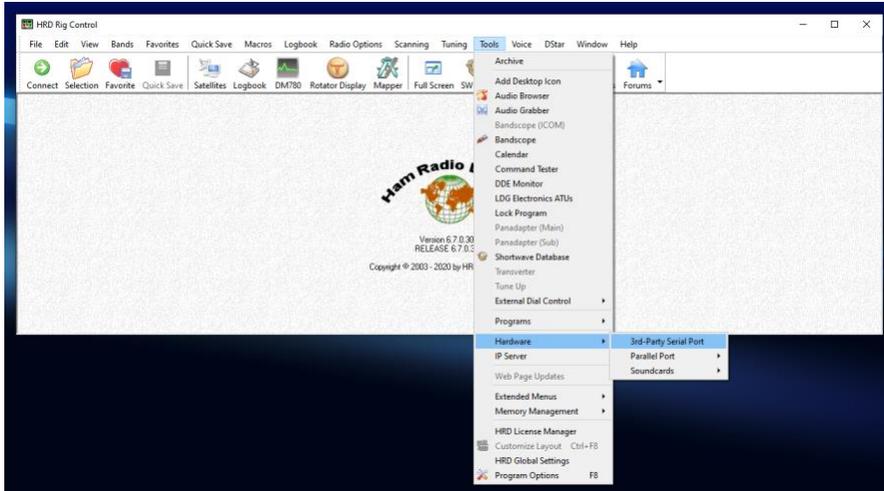
Port: COM5 (first of your virtual COM port pair)

Mode: None

Speed: 57,600 (default)

Check the "Enable" box, then click on "Apply"

Look for status at the bottom to show "Connected"

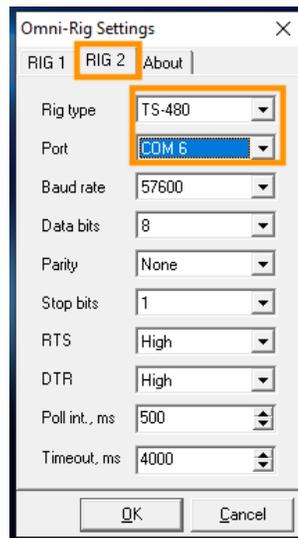
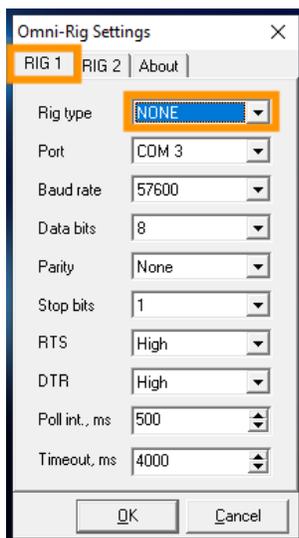


4. Set up Omnirig

Surprisingly we will not be using the usual CAT tab in SDRuno's VRX settings for this. That is because there is no automatic polling on HRD's third party serial port connection. Instead we will be using Omnirig and allow the Omnirig server to take care of polling duties.

Open up the Omnirig settings window. Most likely you already have RIG 1 settings in place for your rig. Now we have to disable this to prevent conflicts with HRD, so in the "Rig type" dropdown select "None"

Note: if you want to just run SDRuno in the future, as a panadapter for your rig for example, without HRD running, you will have to restore this connection.



Now click on the RIG 2 tab and we'll set it up to talk to HRD:

Rig type: TS-480

(SDRuno responds to the TS-480 command set, always select TS-480 here regardless of what make and model rig you have!)

Port: COM6 (second of your virtual COM port pair)

5. Setup SDRuno

In the Main SETTINGS window select the ORIG tab. We should see RIG2 Type showing TS-480, status online, and “Connected to Omnirig server.”



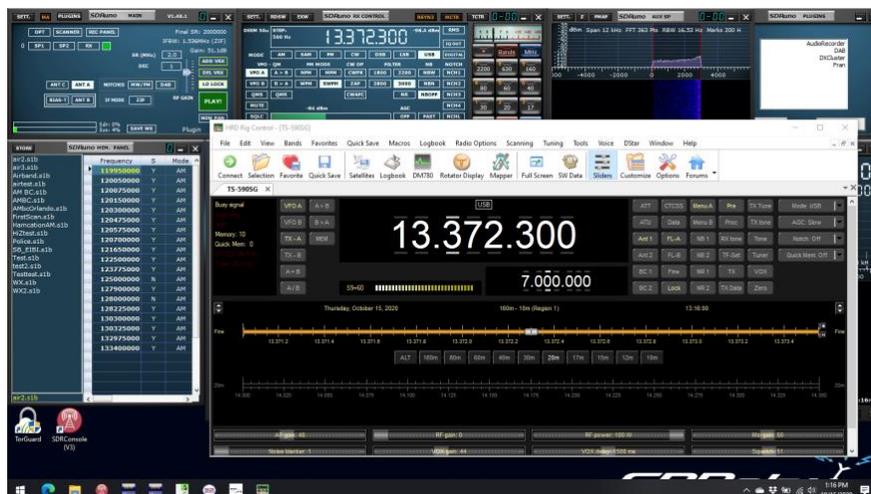
In RX SETTINGS, CAT tab, make sure “Enable & Connect” is **NOT** checked. On the ORIG tab select RIG2.

Once RIG2 is selected we notice the RSYN button at the top of the RX Control window now shows as “RSYN2”, click it and connection will be established as can be verified in the Main SETTINGS window:



That completes the set up, you should now be able to tune from SDRuno, HRD or the rig itself, and everything should stay in sync.

Note: If you want to change bands from the rig or HRD please ensure you first turn off LO LOCK in the SDRuno Main window!



For more information about SDRplay, the RSP family of receivers, other application notes, and further technical information please visit our website at www.sdrplay.com

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