## Beginner's Guide:

## Almost "All in one Place" Setup Instructions for Win 10 computer --> Winlink Express --> Digirig --> HT

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Please post comments/corrections to the Digirig forum.

## Digirig (DR)

Note: Computer powers Digirig
Good practice: Plug Digirig into computer before HT.

Check these in *Device Manager* after plugging DR into computer:

Com port driver:

Silicon Labs CP210x USB to UART Bridge (COM7)

Drivers available at: https://www.silabs.com/developers/usb-to-uart-bridge-vcp-drivers

### USB PNP Sound Device:

- Sound, video and game controllers
  - H1 Hands-Free AG Audio
  - H1 Stereo
    iDea V201 Hands-Free AG Audio
  - iDea V201 Stereo
  - Intel® Smart Sound Technology for Digital Microphones
  - Intel® Smart Sound Technology for USB Audio
  - M99+ Hands-Free AG Audio
  - M99+ Stereo
  - Realtek(R) Audio
  - USB PnP Sound Device

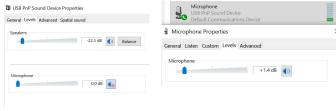
## Check/modify Sound devices:

Search for "Sound" (its in Control Panel).

Check Playback and Recording devices:

- Should be named USB PnP Sound Device (or Digirig if you changed the names).
- PNP devices should not be "default" devices. OK for them to be "default communication devices."
- Set volume levels to < 20% (I use ~ 5% or dB equivalent), disable any custom features (AGC, Spatial Sound, etc.).

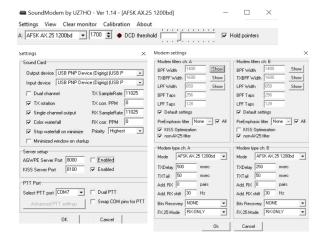
# Settings on my Win 10 laptop:



More info on setting audio levels, etc:

https://digirig.net/setting-audio-levels-for-digital-modes/

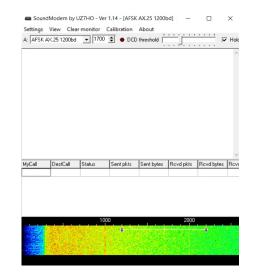
### SoundModem



Match the COM port to the Silicon Labs port shown in Device Manager.

## HT Settings -- Tuning HT receive to Soundmodem

- Units I use: TYT or Retevis HT (both very similar to Baofeng UV5R). Also Anytone UV878
- Volume: Very low.
- Setting volume is very sensitive.
- Shooting for waterfall in Soundmodem to look like image at right. (If you don't see the waterfall you are not connected properly).
- (Red line is RFI from HT being too close to DigiRig and laptop).
- (Red line is RFI from F11 being too close to DigiRig a
- Vox: Off
- Squelch: 0
- HamRadioCrashCourse says to use Squelch = 1 on Baofengs.
- Power: Low for close-up testing. High for > ~ 1/8 mile.
- Bandwidth: Wide (25Khz)



# Winlink Express

Packet Winlink/P2P Setup



Put location of Soundmodem .exe here.

X

Since taking this screenshot I've updated to TX delay of 500 Msec.