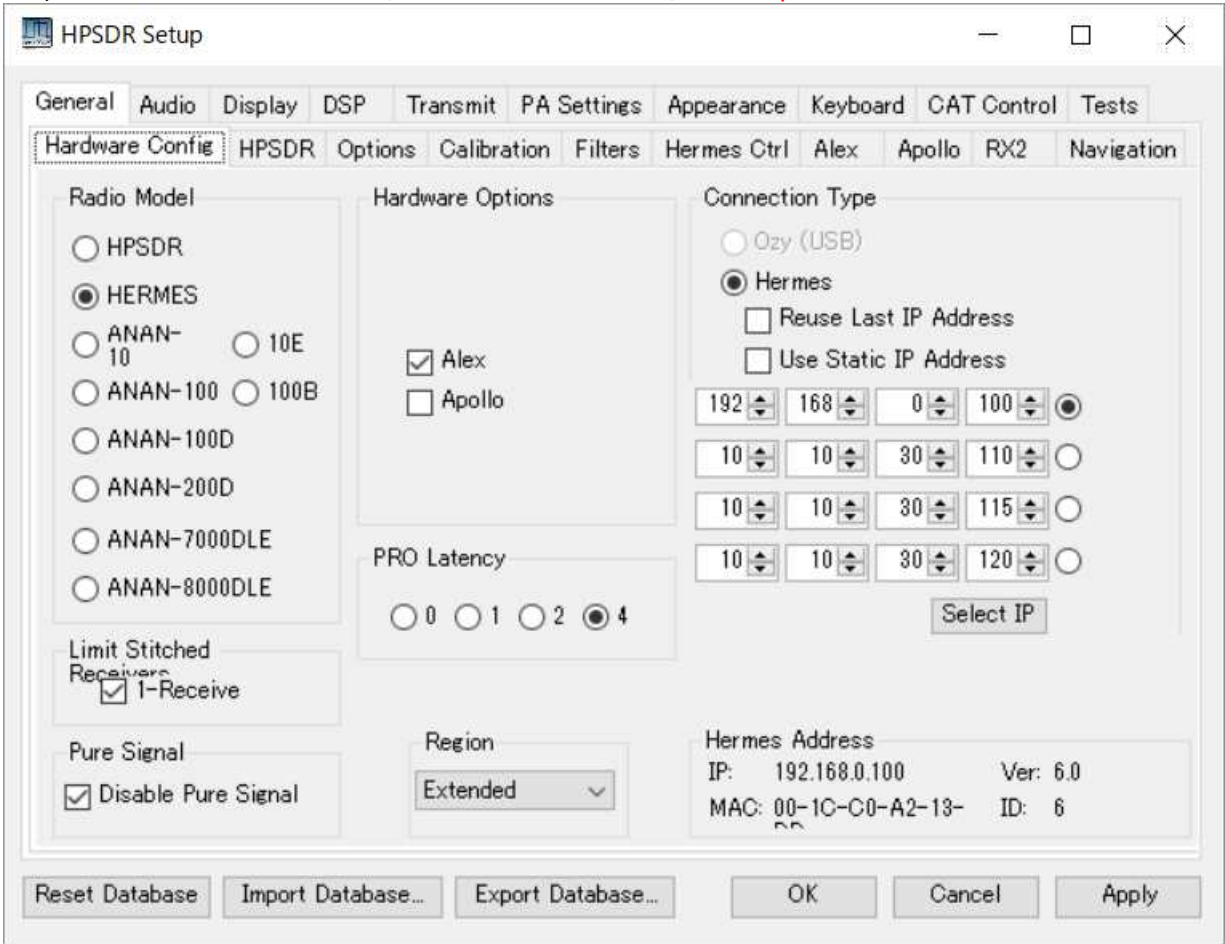


PowerSDR Setting

13 Oct, 2019 JI1UDD

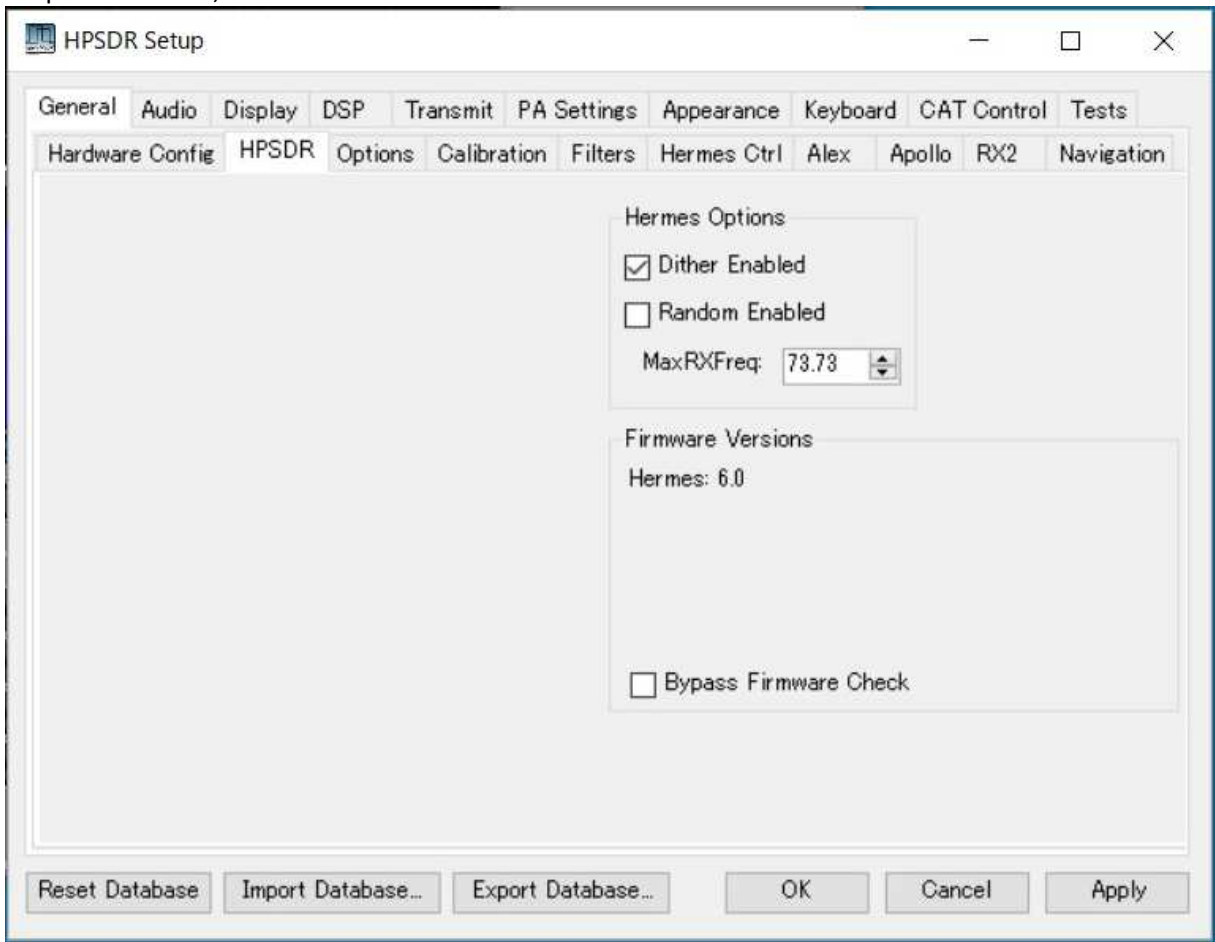
[Hardware Config]

- If ATU (eg. ICOM AH-4) control function is disabled, Select **Alex**. If enabled, Select **Apollo**.



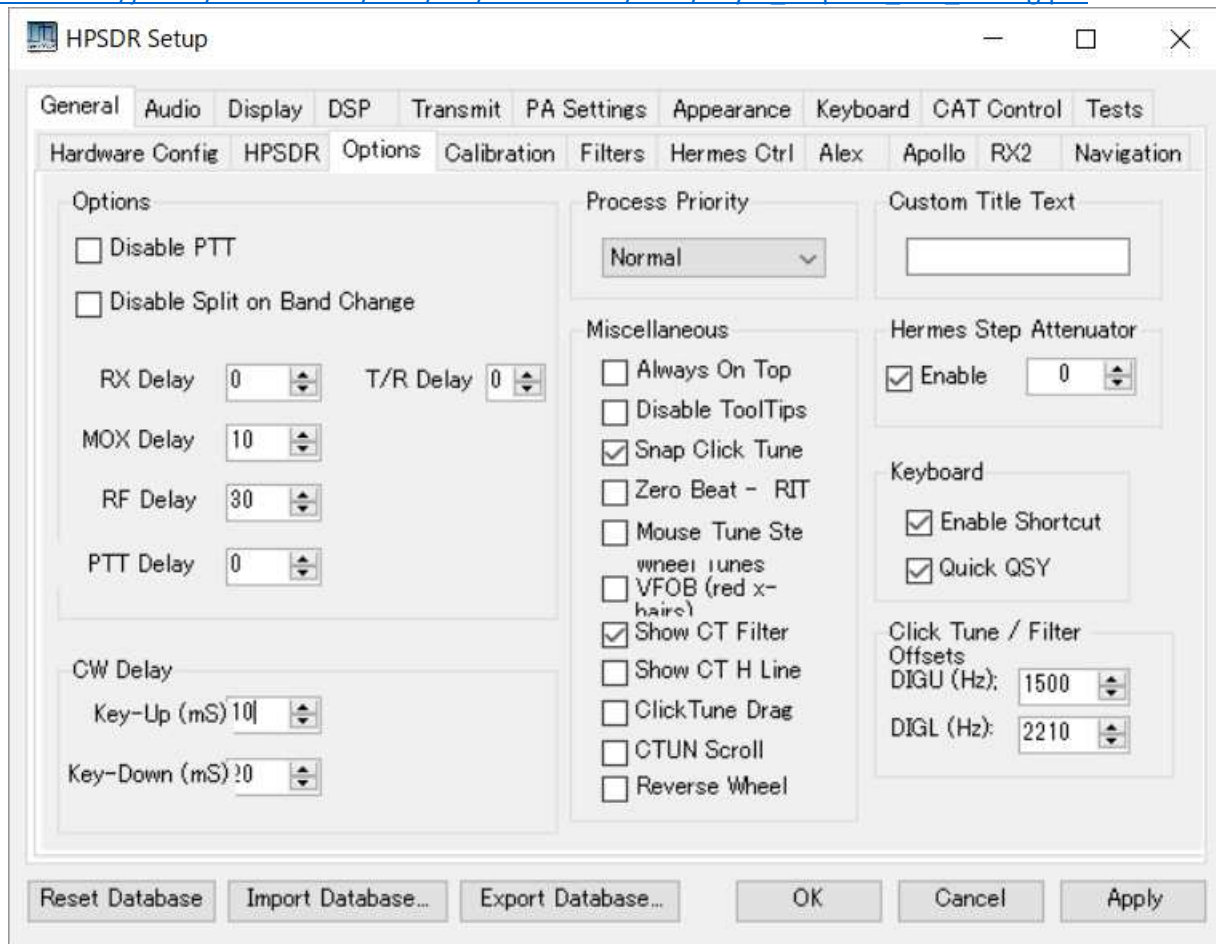
[HPSDR]

• If AK4951 Speaker output is enabled, Select **Dither Enabled**. * Gateway 191008 and before : Random is used.



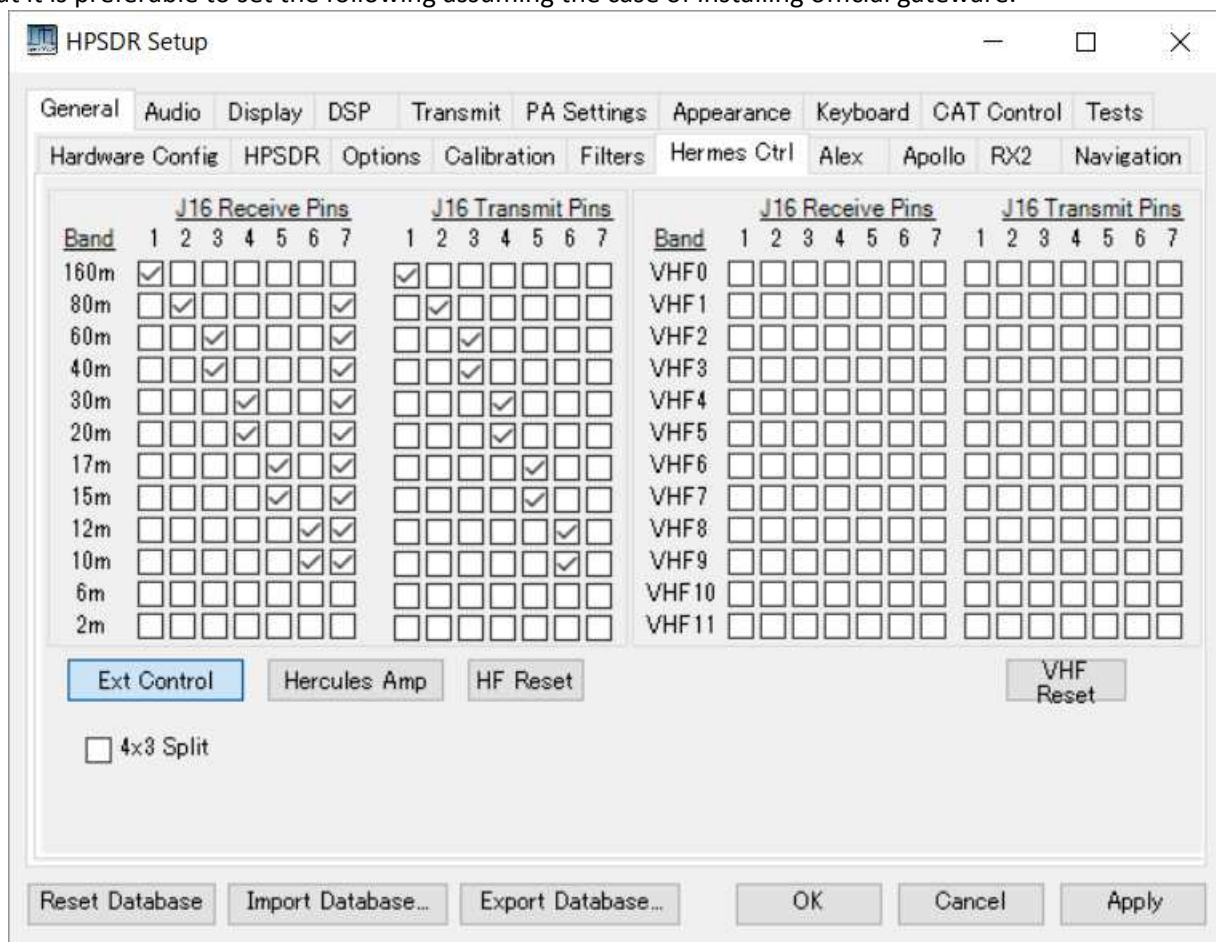
[Option]

- CW Delay Key-Up and Key Down is adjustable.
- Refer to https://github.com/ji1udd/Hermes-Lite/blob/6M/audiocodec/docs/Keyer_Sequence_and_setting.pdf



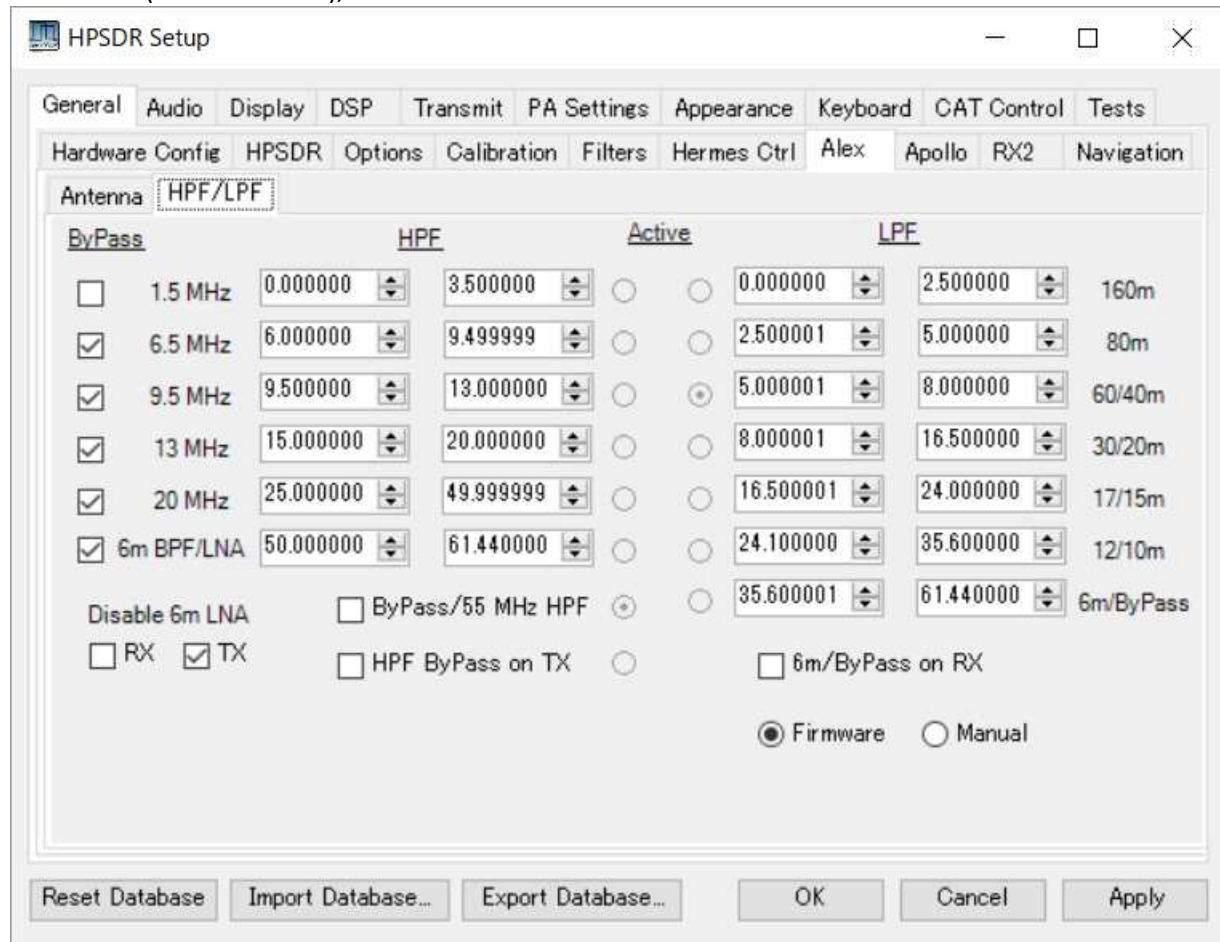
[Hermes Ctrl]

- No need to set. But it is preferable to set the following assuming the case of installing official gateway.



[Alex - HPF/LPF]

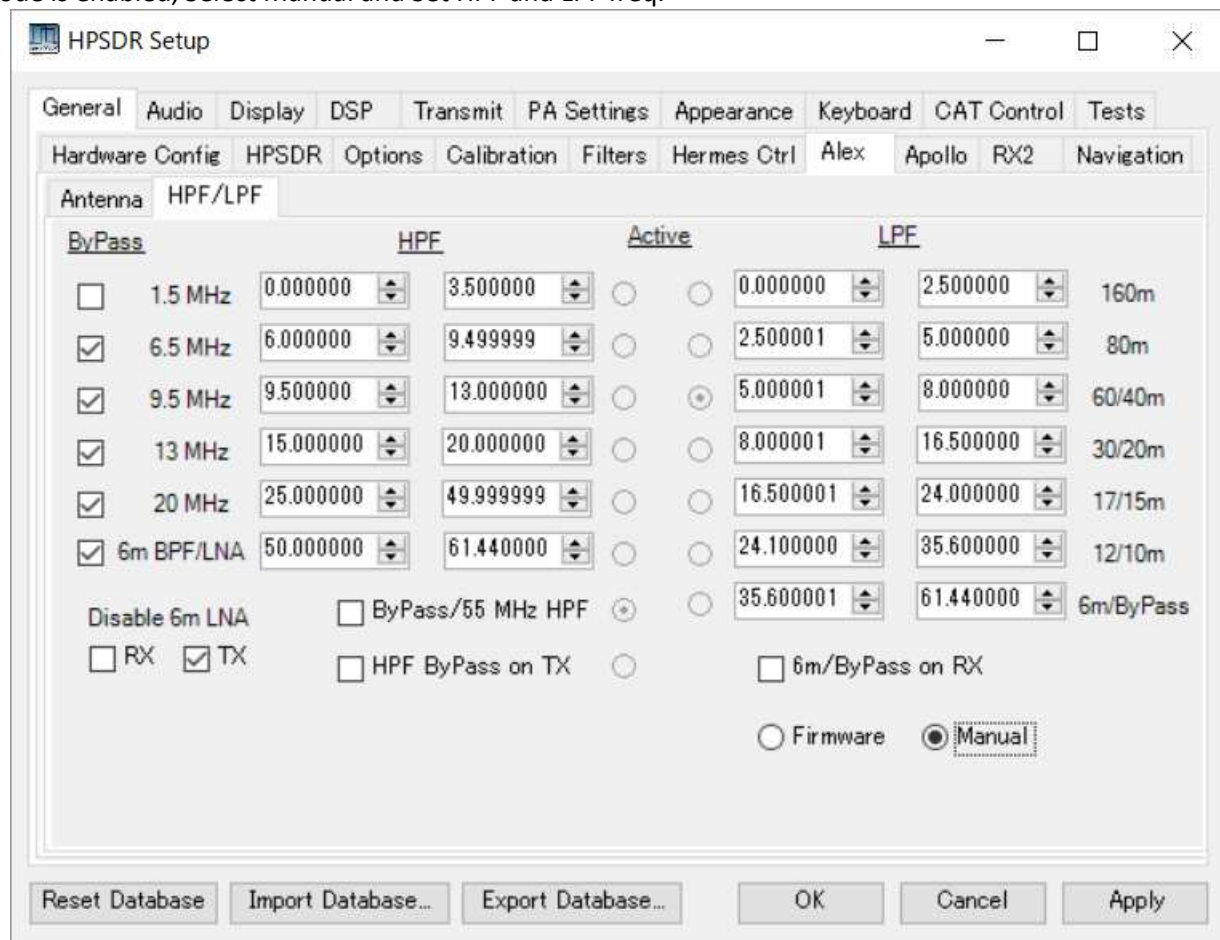
- If Auto filter mode is enabled (recommended), Select **Firmware**.



The screenshot shows the 'HPSDR Setup' window with the 'Antenna' tab selected. The 'HPF/LPF' sub-tab is active. The 'Active' column has the 'Firmware' radio button selected. The 'ByPass' column has the '6m BPF/LNA' checkbox checked. The 'HPF' column has the '13 MHz' and '20 MHz' checkboxes checked. The 'LPF' column has the '160m' and '80m' checkboxes checked. The '6m/ByPass' checkbox is also checked. The 'Disable 6m LNA' checkbox is unchecked. The 'RX' checkbox is unchecked, and the 'TX' checkbox is checked. The 'HPF ByPass on TX' checkbox is unchecked. The '6m/ByPass on RX' checkbox is unchecked. The 'Firmware' radio button is selected, and the 'Manual' radio button is unselected.

ByPass	HPF	Active	LPF
<input type="checkbox"/> 1.5 MHz	0.000000	<input type="radio"/>	0.000000
<input checked="" type="checkbox"/> 6.5 MHz	6.000000	<input type="radio"/>	2.500001
<input checked="" type="checkbox"/> 9.5 MHz	9.500000	<input checked="" type="radio"/>	5.000000
<input checked="" type="checkbox"/> 13 MHz	15.000000	<input type="radio"/>	8.000000
<input checked="" type="checkbox"/> 20 MHz	25.000000	<input type="radio"/>	16.500000
<input checked="" type="checkbox"/> 6m BPF/LNA	50.000000	<input type="radio"/>	24.000000
Disable 6m LNA	ByPass/55 MHz HPF	<input checked="" type="radio"/>	35.600000
<input type="checkbox"/> RX	<input type="checkbox"/> HPF ByPass on TX	<input type="radio"/>	61.440000
<input checked="" type="checkbox"/> TX			6m/ByPass
		<input checked="" type="radio"/> Firmware	<input type="radio"/> Manual

- If Manual filter mode is enabled, Select Manual and Set HPF and LPF freq.

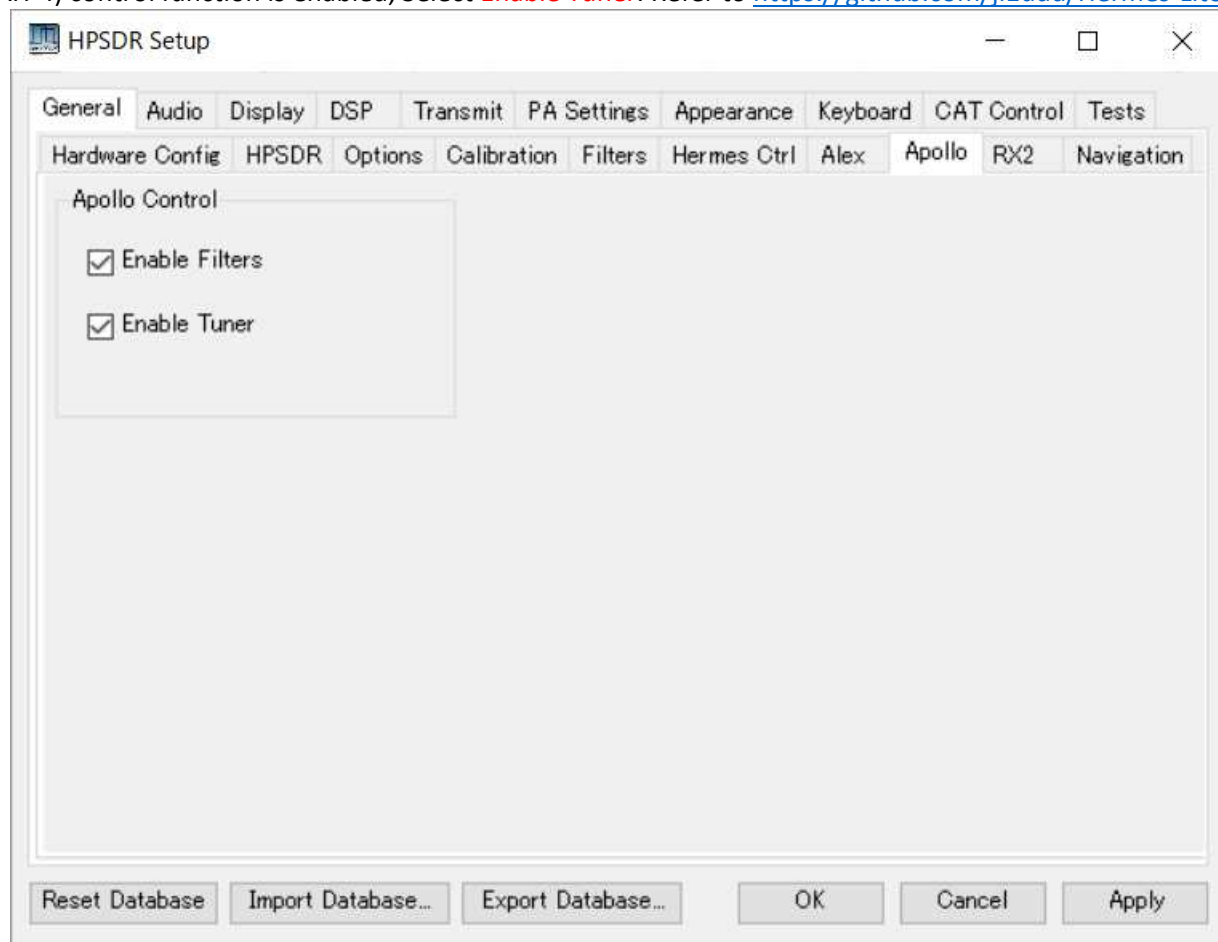


The screenshot shows the 'HPSDR Setup' window with the 'Antenna' tab selected. The 'HPF/LPF' sub-tab is active. The 'Manual' radio button is selected under the 'Active' column. The 'ByPass' column has the '6m BPF/LNA' checkbox checked. The 'HPF' column has the '13 MHz' and '20 MHz' checkboxes checked. The 'LPF' column has the '160m' and '80m' checkboxes checked. The '6m/ByPass' checkbox is also checked. The 'Disable 6m LNA' checkbox is unchecked. The 'RX' checkbox is unchecked, and the 'TX' checkbox is checked. The 'HPF ByPass on TX' checkbox is unchecked. The '6m/ByPass on RX' checkbox is unchecked. The 'Firmware' radio button is unselected, and the 'Manual' radio button is selected.

ByPass	HPF	Active	LPF
<input type="checkbox"/> 1.5 MHz	0.000000	<input type="radio"/>	0.000000
<input checked="" type="checkbox"/> 6.5 MHz	6.000000	<input type="radio"/>	2.500001
<input checked="" type="checkbox"/> 9.5 MHz	9.500000	<input checked="" type="radio"/>	5.000000
<input checked="" type="checkbox"/> 13 MHz	15.000000	<input type="radio"/>	8.000000
<input checked="" type="checkbox"/> 20 MHz	25.000000	<input type="radio"/>	16.500000
<input checked="" type="checkbox"/> 6m BPF/LNA	50.000000	<input type="radio"/>	24.000000
Disable 6m LNA	ByPass/55 MHz HPF	<input checked="" type="radio"/>	35.600000
<input type="checkbox"/> RX	<input type="checkbox"/> HPF ByPass on TX	<input type="radio"/>	61.440000
<input checked="" type="checkbox"/> TX			6m/ByPass
		<input type="radio"/> Firmware	<input checked="" type="radio"/> Manual

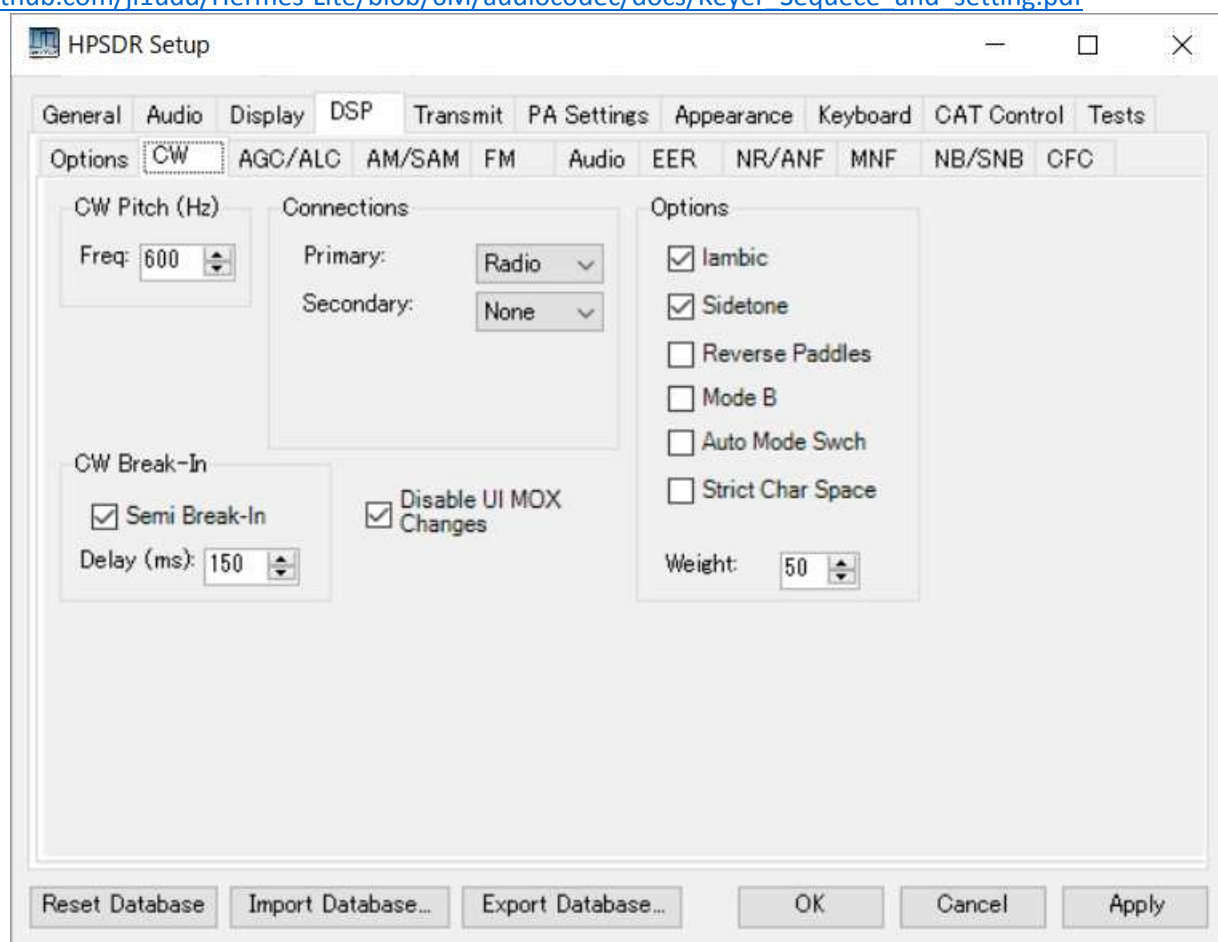
[Apollo]

- If Apollo is selected on Hardware Config tab, Select **Enable Filters**.
- If ATU (eg. ICOM AH-4) control function is enabled, Select **Enable Tuner**. Refer to <https://github.com/ji1udd/Hermes-Lite2/tree/ATU>



[DSP - CW]

- Select **Radio** on Primary pull-down menu.
- Refer to https://github.com/ji1udd/Hermes-Lite/blob/6M/audiocodec/docs/Keyer_Sequence_and_setting.pdf



[Transmit]

- Select **Mic In**.
- If Mic Boost is needed, Select **20dB Mic Boost**.

The screenshot shows the 'HPSDR Setup' window with the 'Transmit' tab selected. The window contains several configuration sections:

- Profiles:** A dropdown menu set to 'Default' with 'Save' and 'Delete' buttons.
- Tune:** 'Power' set to 10, 'TX Meter' set to 'Fwd Pw', and a checked 'Use Drive Power' checkbox.
- VOX:** 'Enabled' checkbox is unchecked, 'Sensitivity' is 100, 'Delay (ms)' is 250, and 'Gain' is 1.
- Transmit Filter:** 'High' is 3100 and 'Low' is 200.
- DE / Noise Gate:** 'Enabled' checkbox is unchecked, 'Threshold (dB)' is -40, and 'Attenuate (%)' is 80.
- Mic Gain:** 'Max' is 50, 'Min' is -70, and 'Mic In' is selected with a radio button. The '20dB Mic Boost' checkbox is unchecked.
- Monitor:** 'TX AF' is 50.
- AM:** 'Carrier' is 100.0.
- External TX Inhibit:** 'Enable TX Inhibit' and 'Rev Input Logic' checkboxes are unchecked.
- Speech Processor:** 'CESSB Overshoot Control' checkbox is unchecked, 'Use Peak Meter' is checked, 'Reading for TX COMP and ALC' is checked, and 'Limit Drive on Ext. Amp. Overload' checkbox is unchecked.
- Additional TX Profiles:** A list box containing 'Default', 'Default DX', 'Digi 1K@1500', 'Digi 1K@2210', 'AM', 'Conventional', and 'D-104'. 'Include' and 'Export Current Profile' buttons are below it.
- Auto Save TX Profile:** 'Auto Save TX Profile on PowerSDR close' is checked, and 'Auto Save TX Profile on change' is unchecked.

At the bottom are buttons for 'Reset Database', 'Import Database...', 'Export Database...', 'OK', 'Cancel', and 'Apply'.

[PA Settings]

- Set **38.8dB** (all band).

The screenshot shows the 'HPSDR Setup' window with the 'PA Settings' tab selected. The 'PA Gain' sub-tab is active, showing a grid of gain settings for various frequency bands. All values are set to 38.8 dB.

Gain By Band (dB) Hermes		
160m: 38.8	VHF0: 38.8	VHF7: 38.8
80m: 38.8	VHF1: 38.8	VHF8: 38.8
60m: 38.8	VHF2: 38.8	VHF9: 38.8
40m: 38.8	VHF3: 38.8	VHF10: 38.8
30m: 38.8	VHF4: 38.8	VHF11: 38.8
20m: 38.8	VHF5: 38.8	VHF12: 38.8
17m: 38.8	VHF6: 38.8	VHF13: 38.8
15m: 38.8		
12m: 38.8		
10m: 38.8		
6m: 38.8		

A 'Reset' button is located at the bottom right of the gain grid.

At the bottom of the window are buttons for 'Reset Database', 'Import Database...', 'Export Database...', 'OK', 'Cancel', and 'Apply'.