

# PowerSDR Setting

15 Sep, 2019 JI1UDD

## [ Hardware Config ]

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

The screenshot shows the 'HPSDR Setup' dialog box with the 'Hardware Config' tab selected. The 'Radio Model' section has 'HERMES' selected. The 'Hardware Options' section has 'Alex' checked and 'Apollo' unchecked. The 'Connection Type' section has 'Hermes' selected, with IP address fields set to 192, 168, 0, and 100. The 'PRO Latency' section has '4' selected. The 'Limit Stitched Receivers' section has '1-Receive' checked. The 'Pure Signal' section has 'Disable Pure Signal' checked. The 'Region' dropdown is set to 'Extended'. The 'Hermes Address' section shows IP: 192.168.0.100, Ver: 6.0, MAC: 00-10-C0-A2-13-00, and ID: 6. At the bottom are buttons for 'Reset Database', 'Import Database...', 'Export Database...', 'OK', 'Cancel', and 'Apply'.

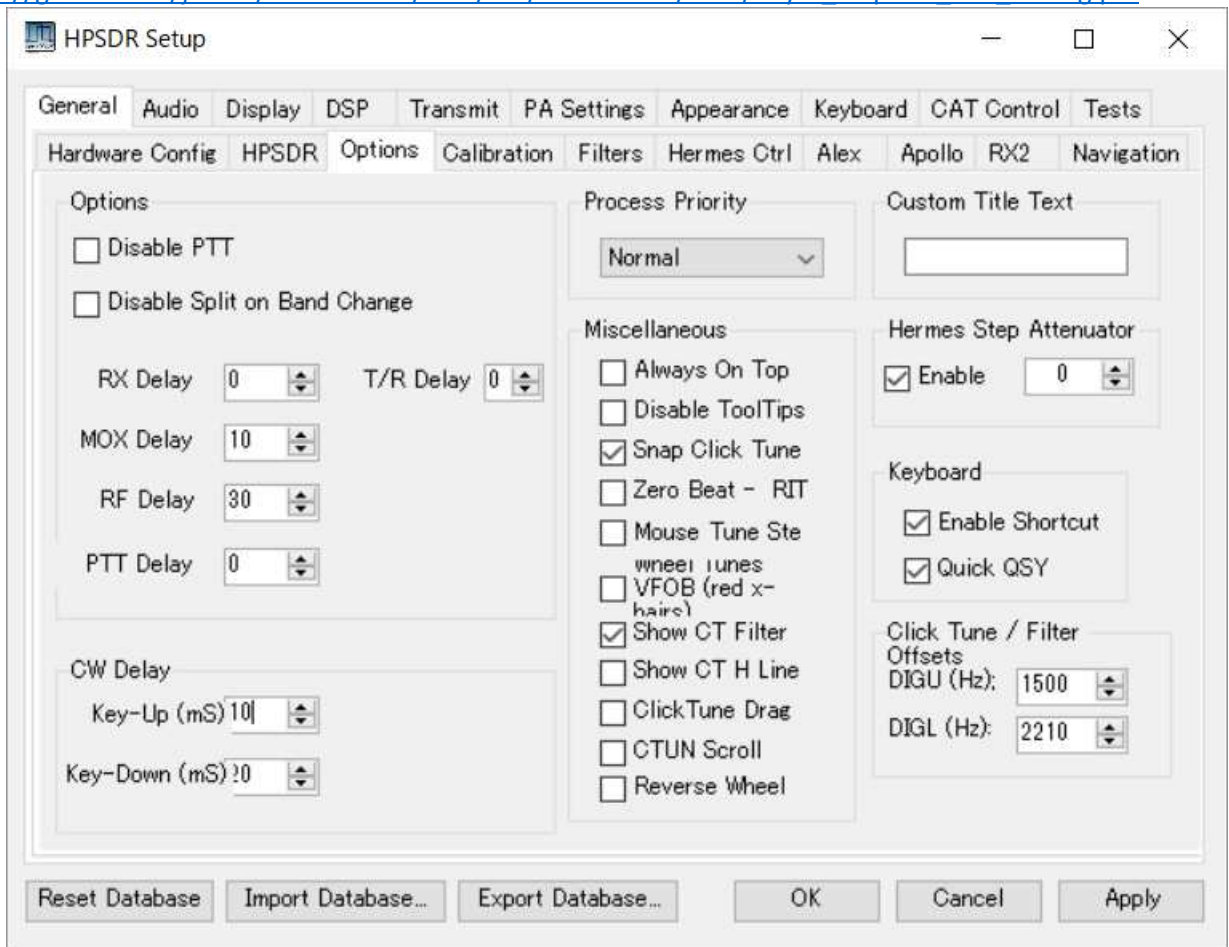
## [ HPSDR ]

• If AK4951 Speaker output is enabled, Select **Random Enabled**.

The screenshot shows the 'HPSDR Setup' dialog box with the 'HPSDR' tab selected. The 'Hermes Options' section has 'Dither Enabled' unchecked and 'Random Enabled' checked. The 'MaxRXFreq' is set to 73.73. The 'Firmware Versions' section shows 'Hermes: 6.0'. At the bottom is a 'Bypass Firmware Check' checkbox which is unchecked. At the bottom are buttons for 'Reset Database', 'Import Database...', 'Export Database...', 'OK', 'Cancel', and 'Apply'.

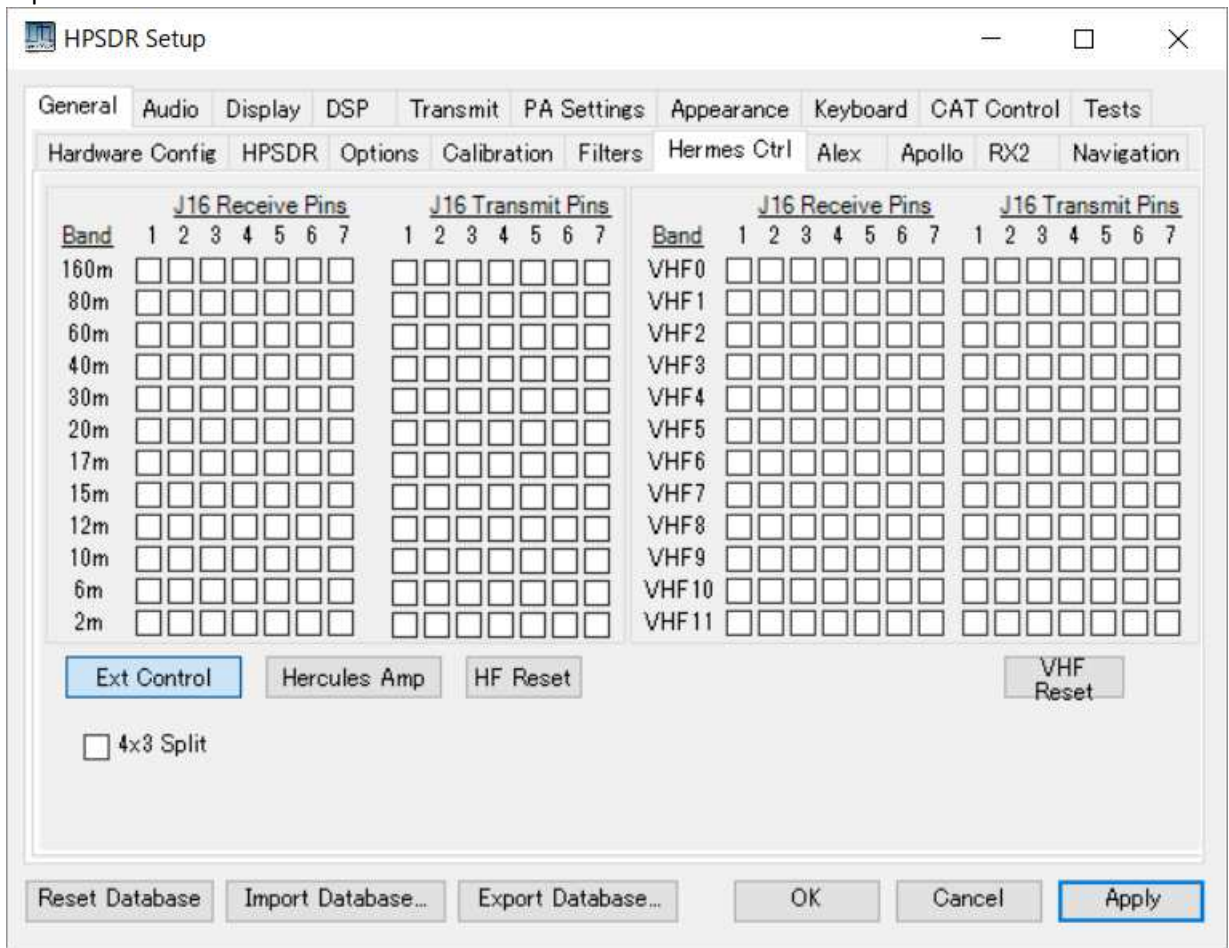
[ Option ]

- 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](https://github.com/ji1udd/Hermes-Lite/blob/6M/audiocodec/docs/Keyer_Sequence_and_setting.pdf)



[ Hermes Ctrl ]

- No need to setup.



[ 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 configuration table is as follows:

ByPass	HPF	Active	LPF	
<input type="checkbox"/> 1.5 MHz	0.000000	<input type="radio"/>	0.000000	160m
<input checked="" type="checkbox"/> 6.5 MHz	6.000000	<input type="radio"/>	2.500001	80m
<input checked="" type="checkbox"/> 9.5 MHz	9.500000	<input checked="" type="radio"/>	5.000001	60/40m
<input checked="" type="checkbox"/> 13 MHz	15.000000	<input type="radio"/>	8.000001	30/20m
<input checked="" type="checkbox"/> 20 MHz	25.000000	<input type="radio"/>	16.500001	17/15m
<input checked="" type="checkbox"/> 6m BPF/LNA	50.000000	<input type="radio"/>	24.100000	12/10m
		<input type="radio"/>	35.600001	6m/ByPass

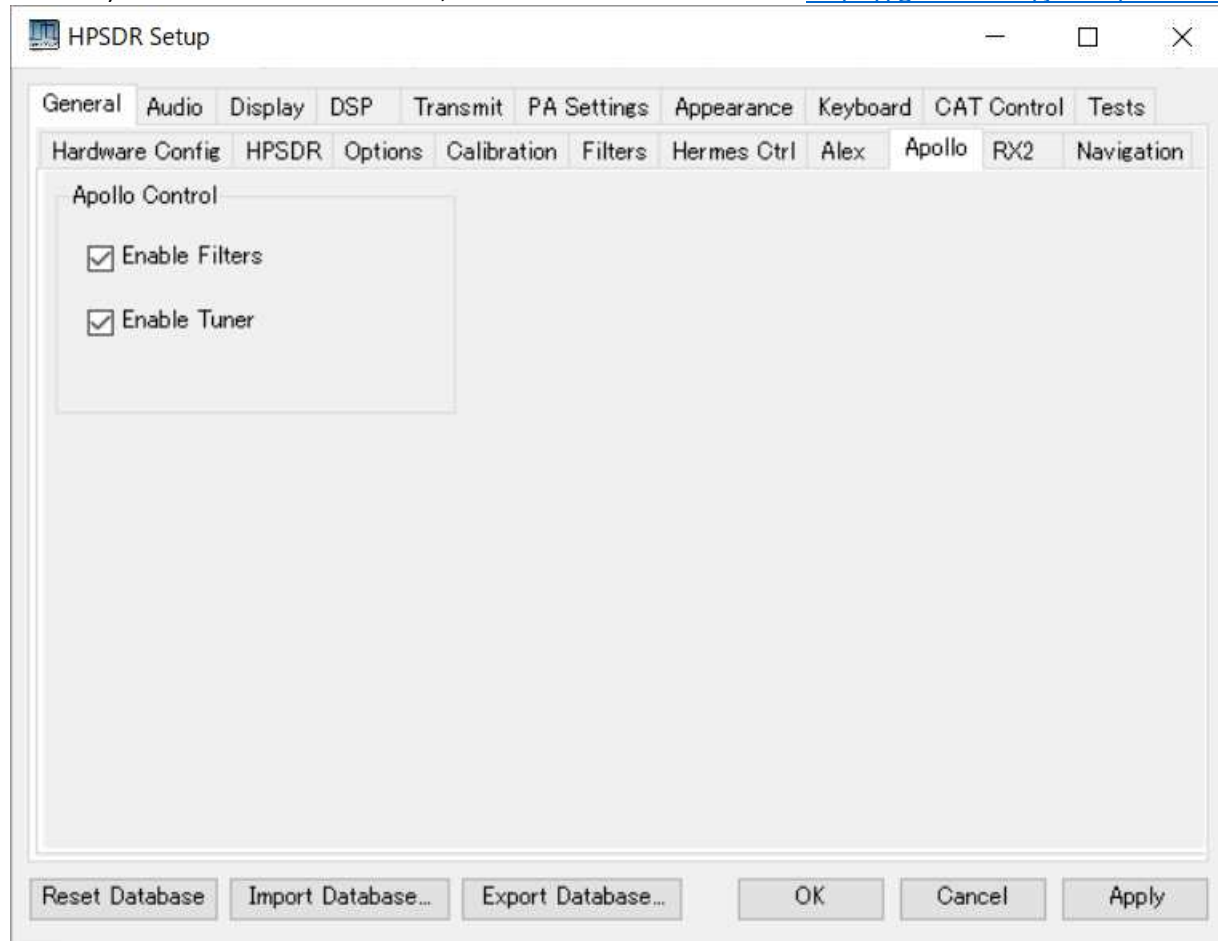
Below the table, there are checkboxes for 'Disable 6m LNA', 'RX', 'TX', 'ByPass/55 MHz HPF', 'HPF ByPass on TX', and '6m/ByPass on RX'. At the bottom, the 'Firmware' radio button is selected, and the 'Manual' radio button is unselected.

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

This screenshot is identical to the previous one, but the 'Manual' radio button under the 'Active' column is now selected, and the 'Firmware' radio button is unselected.

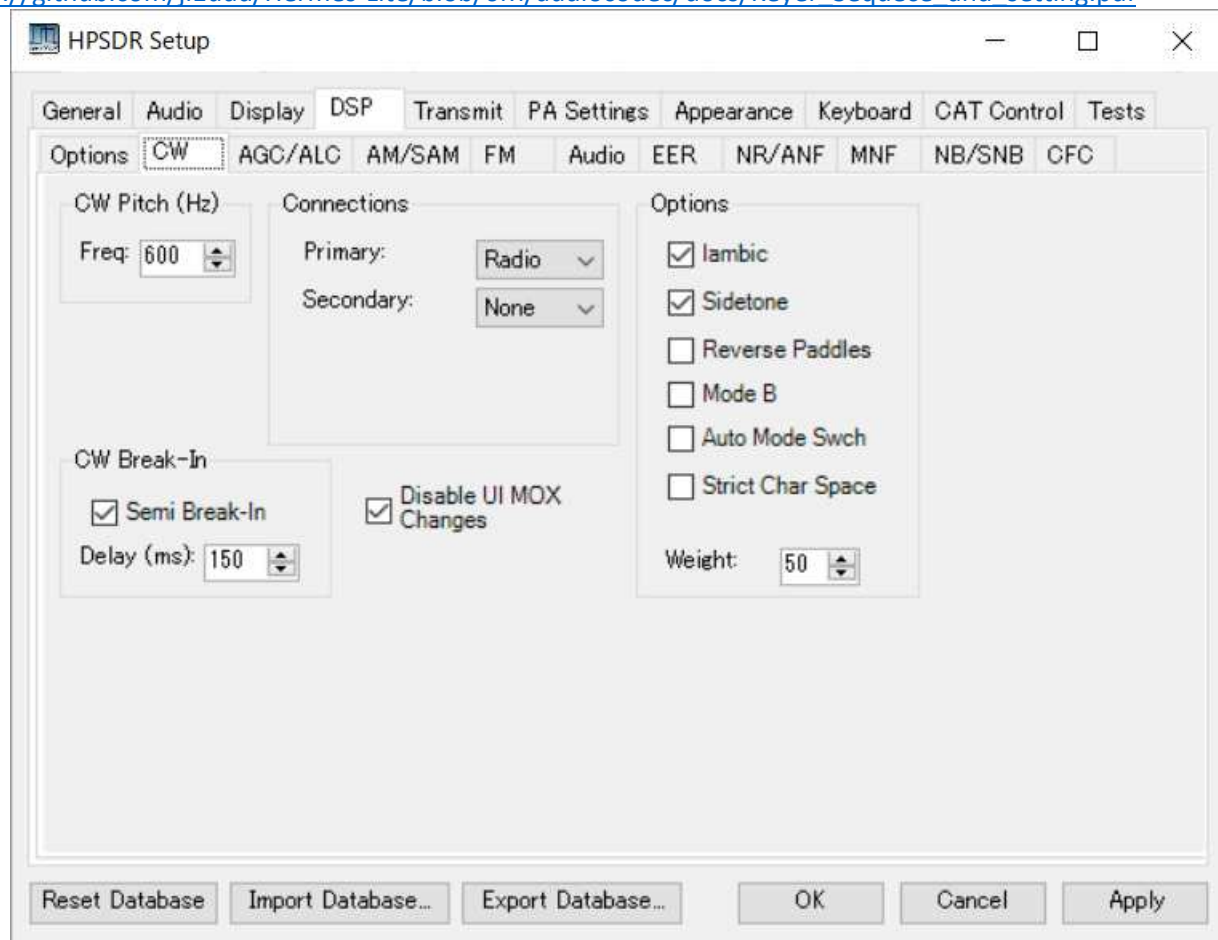
[ Apollo ]

- 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](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 has a menu bar with options: General, Audio, Display, DSP, Transmit, PA Settings, Appearance, Keyboard, CAT Control, and Tests. The 'Transmit' tab contains several 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:** An unchecked 'Enabled' checkbox, 'Sensitivity' set to 100, 'Delay (ms)' set to 250, and 'Gain' set to 1.
- Transmit Filter:** 'High' set to 3100 and 'Low' set to 200.
- DE / Noise Gate:** An unchecked 'Enabled' checkbox, 'Threshold (dB)' set to -40, and 'Attenuate (%)' set to 80.
- Mic Gain:** 'Max' set to 50, 'Min' set to -70, and 'Mic In' selected with a radio button. There is also an unchecked '20dB Mic Boost' checkbox.
- Monitor:** 'TX AF' set to 50.
- AM:** 'Carrier' set to 100.0.
- External TX Inhibit:** Two unchecked checkboxes: 'Enable TX Inhibi' and 'Rev Input Logic'.
- Speech Processor:** An unchecked 'CESSB Overshoot Control' checkbox.
- Additional TX Profiles:** A list box containing 'Default', 'Default DX', 'Digi 1K@1500', 'Digi 1K@2210', 'AM', 'Conventional', and 'D-104'. There are 'Include' and 'Export Current Profile' buttons.
- Checkboxes:** 'Auto Save TX Profile on PowerSDR close' is checked, and 'Auto Save TX Profile on change' is unchecked.
- Buttons:** 'Reset Database', 'Import Database...', 'Export Database...', 'OK', 'Cancel', and 'Apply' are at the bottom.

[ PA Settings ]

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

The screenshot shows the 'HPSDR Setup' window with the 'PA Settings' tab selected. The window has a menu bar with options: General, Audio, Display, DSP, Transmit, PA Settings, Appearance, Keyboard, CAT Control, and Tests. The 'PA Settings' tab contains:

- PA Gain / Watt Meter:** A sub-tab header.
- Gain By Band (dB) Hermes:** A grid of 19 frequency bands, each with a value of 38.8 dB. The bands are: 160m, 80m, 60m, 40m, 30m, 20m, 17m, 15m, 12m, 10m, 6m, VHF0, VHF1, VHF2, VHF3, VHF4, VHF5, VHF6, VHF7, VHF8, VHF9, VHF10, VHF11, VHF12, and VHF13.
- Reset:** A button located below the frequency bands.
- Buttons:** 'Reset Database', 'Import Database...', 'Export Database...', 'OK', 'Cancel', and 'Apply' are at the bottom.