

# PowerSDR Setting

16 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'.

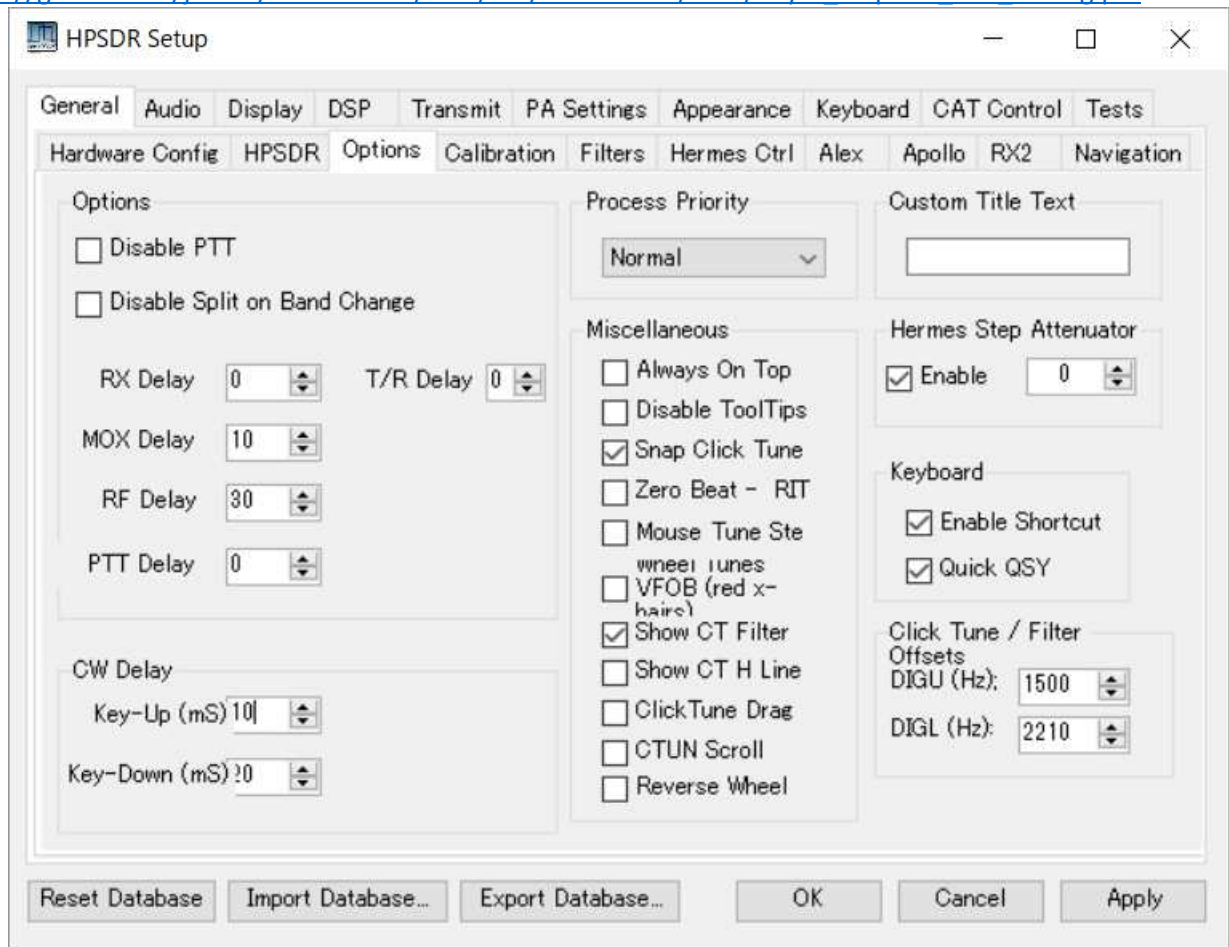
## [ HPSDR ]

• 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 are buttons for 'Reset Database', 'Import Database...', 'Export Database...', 'OK', 'Cancel', and 'Apply'.

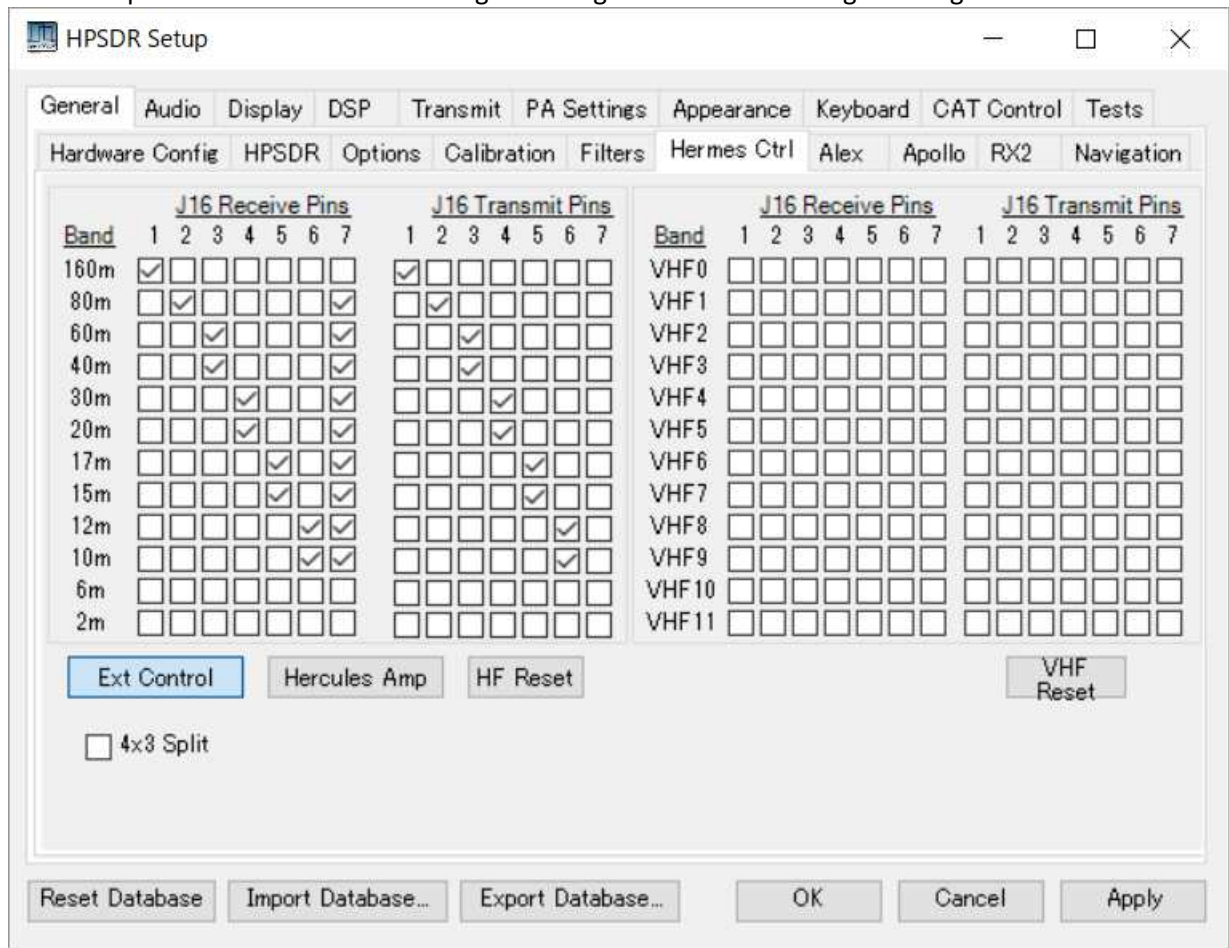
[ Option ]

- 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 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 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"/>	8.000000	60/40m
<input checked="" type="checkbox"/> 13 MHz	15.000000	<input type="radio"/>	16.500000	30/20m
<input checked="" type="checkbox"/> 20 MHz	25.000000	<input type="radio"/>	24.000000	17/15m
<input checked="" type="checkbox"/> 6m BPF/LNA	50.000000	<input type="radio"/>	35.600000	12/10m
<input type="checkbox"/> Disable 6m LNA <input type="checkbox"/> ByPass/55 MHz HPF <input type="radio"/> 6m/ByPass on RX <input type="checkbox"/> RX <input checked="" type="checkbox"/> TX <input type="checkbox"/> HPF ByPass on TX <input type="radio"/> 6m/ByPass on RX				
<input checked="" type="radio"/> Firmware <input type="radio"/> Manual				

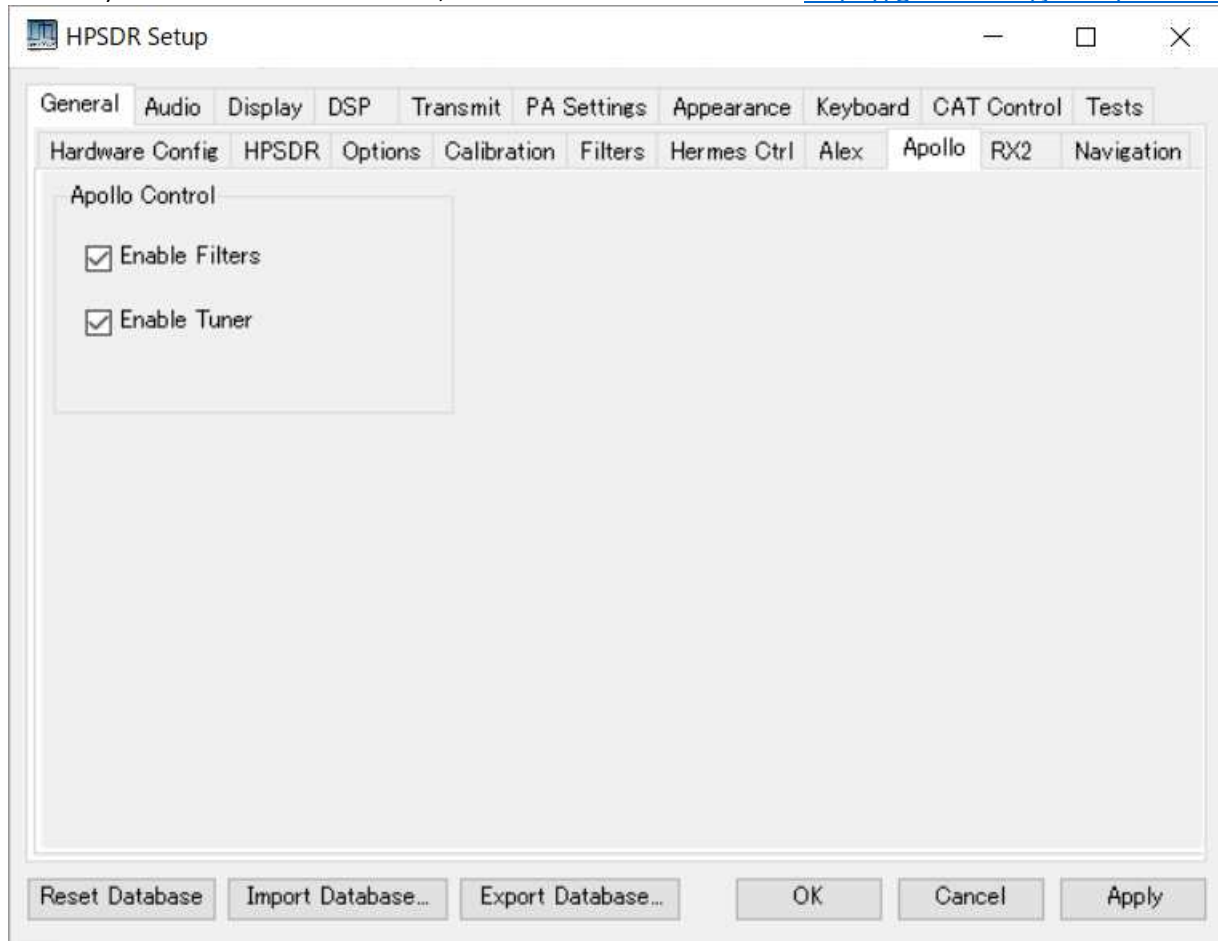
Buttons at the bottom: Reset Database, Import Database..., Export Database..., OK, Cancel, Apply.

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

This screenshot is identical to the previous one, but with the 'Manual' radio button selected under the filter mode options at the bottom.

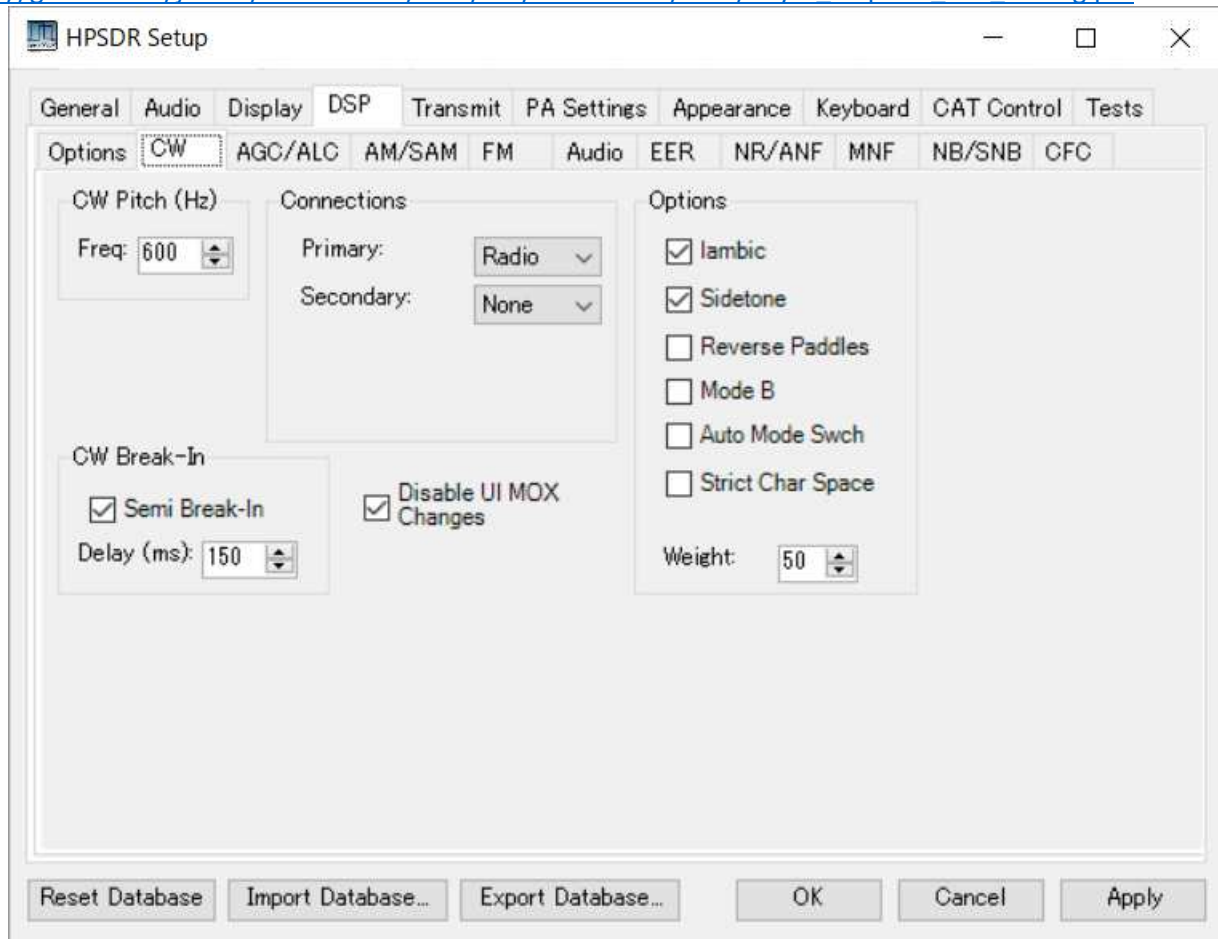
[ Apollo ]

- 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 contains several sections for configuring transmission parameters:

- 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' option.
- 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 Inhibi' and 'Rev Input Logic' checkboxes are unchecked.
- Speech Processor:** 'CESSB Overshoot Control' checkbox is unchecked.
- Additional TX Profiles:** A list box showing 'Default', 'Default DX', 'Digi 1K@1500', 'Digi 1K@2210', 'AM', 'Conventional', and 'D-104'. 'Include' and 'Export Current Profile' buttons are present.
- Bottom Section:** 'Auto Save TX Profile on PowerSDR close' is checked, 'Auto Save TX Profile on change' is unchecked, and 'Use Peak Meter Reading for TX COMP and ALC' is checked. 'Limit Drive on Ext. Amp. Overload' 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 'PA Gain' sub-tab is active, showing a grid of gain settings for various frequency bands:

- Gain By Band (dB) Hermes:** A table of gain settings for different frequency bands, all set to 38.8 dB.
 

Band	Gain (dB)	Band	Gain (dB)	Band	Gain (dB)
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				
- Buttons:** 'Reset' button is located below the gain table. At the bottom of the window are 'Reset Database', 'Import Database...', 'Export Database...', 'OK', 'Cancel', and 'Apply' buttons.