

Setting up your Patriotwaves SDR Radio

Install HDSDR and DSDPlus on Windows XP, Vista, Win7, Win8 and Win10

In order to use you radio in ANALOG and DIGITAL Mode, you will need to download the following software from these locations. It is best you put them all into a separate download folder as not to have to search for these after you download in what may be a crowded download file you may already have.

HDSDR - Graphical Interface Radio Program

[Download the program here](#)

(Use the stable Version 2.76 (February 02, 2017))

When you execute the install make sure you put into PROGRAM FILES (x86) 32 bit folder if you have a 64 Bit Machine. If not put into PROGRAM FILES FOLDER.

If you are not sure if you have 64 bit technology, look in your C: Drive and see if you have two Program File Folders. One will say (x86)

Install the program and make a shortcut to your desktop.

This program can be opened multiple times. You will start one for each radio in your device. You will size the program screen to accommodate two or more screens.

ZADIG - Driver installation Program

Download the Driver Program ZADIG. [You will find it here](#). Please note IMPORTANT. There are two versions. One for Windows XP and one for all other Operating Systems (OS) Make sure you download the correct one..

Once downloaded copy it to the same folder where you HDSDR program is. Paste in in the folder and make a shortcut to your desktop.

RTL2832U Dynamic Link Library

Download the dynamic link library file [located here](#).
Put this .dll file also into your HSDR program folder.

DSDPLUS Digital Speech Decoder

[Download the DSDPlus Digital Decoder program here](#). Download both the [DSDPlus v1.101](#) and [DSDPlus v1.101 DLL Files](#) and unpack both files to one, two or three separate folders depending on the number of radios you have in you rig.

You need to create DSDPlus Folders under your C; Drive and unzip both files and their contents into one, two or three folders and call them DSD+1, DSD+2 and DSD+3

VB CABLE - Virtual Audio Cables

Virtual Cables (software - VB Cable)

You will need to download 1, 2 or 3 cables from the website

VBCable (ZIP FILES)

[Download Cable C](#) for single radio. It is on the left side above the orange cable picture

[Download Cable A & B](#) for Dual or multiple Radio rigs. (optional)

Donationware. Consider purchasing additional cables via donation to enable multiple digital band monitoring as they will allow you to hear channels transmitting simultaneously without voice cancellation.

Just like DSDPlus these are ZIP Files and you need to create VBCable files under your C: Drive. Example VBCableC, VBCableB and VBCableA.

Extract the Cables into their folders and install them. Please note there is a SETUP and a SETUP64 bit. Choose the correct one. IMPORTANT - When installing the

Virtual cables make sure you ARE THE ADMINISTRATOR of your computer. If not run "as administrator" when installing the cables.

Once installed you should reboot your computer. If you have a single radio, you are ready to go to [operation instruction here](#).

Make a shortcut to your desktop for the DSDPlus application (exe file)

DUAL RADIOS or MULTIPLE UNITS

You have two or three versions of DSDPlus and Three VB Cables. If you wish to follow digital channels on each version of DSDPlus then you need to have each running on it's own cable.

EXAMPLE:

DSD+1 - VBCable A

DSD+2 - VBCable B

DSD+3 - VBCable C (it shows as VB without the "C")

Go to the [operation instruction here](#) and see how to setup your sound setting for DSD Digital Speech Decoder.

So you need to start two or more instances of HDSDR and you need to start DSD+1,2 and 3 and when you start them you want them to automatically use specific cables. This can be easily done by using a batch file.

You saw on the operation information how to set your sound setting defaults. When you open any DSDPlus.exe it will automatically open the default setting

EXAMPLE

input device - default VB Cable

output device - default - Speakers, Soundcard or Headphones

When you start the DSD+ program the screen will give you all your recording devices and all you Playback devices followed by the two default selections from

that list.

This is fine when opening one DSD+ decoder. But when you open #2 and/ or #3, you do not want the same cable but instead Vbcable A or B.

WRITE A BATCH FILE

Go to the DSD+1 and make shortcut to desktop. Run the program and make a list of the input/output devices which DSD+ numbers. Your recording cables may be #'s 1,3 and 4 for example with #1 being your default for DSD+1. That's fine.

Go to DSD+2 folder and create a new text file. When notepad opens you type the following

```
start DSDPlus.exe -i3 -o2
```

You have instructed DSD+2 to open the file using Vbcable A or B instead of the default DSD+1 cable C. This is indicated by the number placed after the "i" for input. The output number is always your sound default which is probably Playback output device 1 but if it is another number like -o2.

Now you need to save this into the DSD+2 folder. Name it DSD+2.bat and save as "all files" and NOT Text file. Then make a shortcut to your desktop.

Do the same procedure for DSD+3 and if you have a fourth or more you will have to duplicate one of the 3 VB cables.

The benefit is that if you are running multiple radios and there are simultaneous transmissions coming in, the decoders and sound will not cancel each other out with silence.

[Please contact us for help troubleshooting should you run into trouble with any of these instructions](#)

HAPPY HUNTING!!!