

**HiDes Receiver HV-110/HV-120/HV-122 (www.hides.com.tw)**

Here are some set up and usage tips for the HiDes DVB-T receivers for use with the W0ATN repeater and is provided to supplement each receiver's Quick Start Guide (QSG) document.

For a new receiver or firmware update, perform the initial Setup in the following order:

Rear panel Bandwidth (BW) selection switch must be in the Down (2-4) position before applying DC power.

To quickly switch between 426.000 and 440.000, a microSD card is required to store these two frequencies in the file "CustomChannelTable.txt." This file may be found on the DVD provided with the receiver. File requires editing (it has commercial TV channel frequencies). Keep the format the same and just change the frequency of the first two channels to 426000 and 440000 with 4MHz BW using your text editor. The file should be put in the root directory of the microSD card. While your here, make a new directory in the root and name it RECORD. This is where any recordings (using the RED button on the OSD controller) will be stored. Next, go to the Tools menu and select User Defined Channel and answer Yes to the process question. Later, these two frequencies will be "scanned" with an on-the-air signal and then added in the Channel Manager.

If a microSD card is not handy (use any size card up to 32MB) or do not want to do the above, then start with Step 1 and skip over Step 2.

1 -

Main Menu - Settings

Display Preference

Display Mode                    1080P60 or 1080PI60  
PAT Mismatched                Disable  
Keep Last Video                OFF  
Warning Message                OFF  
(use "Factory Defaults" for all others)

2 -

Main Menu - Installation (microSD card edit as described above must be installed in the receiver first)

Country                            User Defined    Quick Start Guide, refer to User  
Defined List

After selecting User Defined, push the RED button, answer yes and the scan will begin. Repeat this for the 2nd frequency but answer No (see next Note).



5 -

#### Main Menu - Multimedia

A MicroSD card is required. 4 to 32Mb works provides hours of recording time. Play back using PVR (Others may or may not work or cause erratic behavior). Directory names start with the callsign of the station being received. The Directory and .TS file names within the directory are unique and cannot be edited while in the receiver. Edit the directory names on a PC and install back in the receiver. The receiver will recognize edited file directories and their edited file names. The receiver plays back using the file directory name (not the individual .TS file extension file names which cannot be seen in the PVR list). If the recording will not play back (could be a 0 byte file with in the directory or an unknown record error) the receiver may do a soft restart. Wait until it has completed the restart before continuing. Preview may not work or just playback the audio and cause a soft restart. HiDes calls it a "trail release" i.e. beta and "provided as is" so expect some bugs. Normally, it will record and play back OK. When experiencing playback trouble, verify on a PC that the .TS suffix recorded file actually has recorded data. If so, try playing it back using a PC multimedia player (VLC). Playback on PC makes it possible to retransmit a recording using a PC connected to the transmitter via HDMI.

6 -

#### Main Menu - Settings

Language Preference, Record Settings and Parental Control. - Leave as defaults. Changes in Record Settings may cause hard resets.

7 -

#### Main Menu - Tools

Software (firmware) upgrade - Use "upgrade by SD Card" SD card must be inserted and latest version of the dtv.img file in the root directory. File dtv.pkg not required. Refer to the Quick Start Guide and use Firmware Update - Method 1. After the update, be sure to remove the microSD card. The file is re-named and should be deleted (put in a PC and delete it). Power the receiver back up. Receiver should boot up to the Menu - Installation. Reinstall the micro SD. Old settings are not saved, so steps 1,2 or 3 must be performed. Recordings are not affected. For the latest firmware, go HiDes download site here: [http://www.hides.com.tw/downloads\\_eng.html](http://www.hides.com.tw/downloads_eng.html) HiDes does not always flag the firmware as "New." After downloading (it will be in a folder with the QSG and other docs), check the revision notes file and see what the change does. It may or may not effect "ham" use of the receiver but it is recommended to keep the receiver running on the latest version. Retain an old version of the firmware, it can always be reloaded.

8 -

#### Main Menu - Tools

Factory Reset - Last resort if receiver won't work or misbehaving. All defaults are loaded. Perform set up steps.

9 -

Main Menu -Tools

System Information

Version: this is the firmware version currently loaded in the receiver. Normally, only the last 2-3 numbers are incremented. The date associated is found in the release notes file. The latest version as of August 2020 is 0.0.1.72.157

10 -

Rear Panel DC Connectors

Early model HV-110 use a coaxial DC power connector with a center pin of 2.5mm and 5.5mm barrel. The HV-110 is a 5 volt-only model and should never be connected to 12 volts. The larger center pin helped to avoid connecting a 12 volt "wall wort" which are (with few exceptions) 2.1mm center pins. However, the later HV-110 were manufactured with smaller 2.1mm center pins (12vdc) power connectors. Why they made the change is anyone's guess so be careful when connecting power to the later HV-110 receivers. The HV-120 and HV-122 both use 2.1mm center pins for nominal 12 volt power.

Performance

The signal LED will be bright red with no signal present. Upon receiving a valid signal, the LED will turn from red to green and the PC/TV will display the video in about 5-6 seconds. Audio is processed last and may take several seconds longer. Audio is the less robust and prone to dropouts on marginal signals. HDTV sets generally provide a better "picture" than PC monitors. TVs with built in sound/speakers also avoid the hassle of the PC sound card configuration. Refer to Jim Andrew KH6HTV's application note AN-57 ([www.kh6htv.com](http://www.kh6htv.com)) for comparison of HIDEs receivers. Careful consideration must be made when selecting the HV-120 and 122 receivers since several modes are available with filters and frequency coverage that will effect performance for the 70cm band.

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