

Getting Started With MMSSTV (Windows Only)

- MMSSTV can be downloaded for free:
 - From <https://hamsoft.ca/pages/mmsstv.php>, download MMSSTV113A.exe
 - Run MMSSTV113.exe to install, this will require administrative privileges as it wants to place it in a directory off the root of the default drive and install some DLL's.
 - ◆ I've found it can be installed in other directories if you like to keep your directories orderly.
- Configuring the program
 - On initial execution of MMSSTV it will prompt you to enter your call sign.
 - Under the Options Menu select Setup MMSSTV
 - ◆ RX Tab
 - Except for the following leave the defaults as selected
 - Check **Auto stop**
 - Check **Auto slant**
 - ◆ Only on UHF/VHF frequencies
 - Check **Decode FSKID**
 - ◆ TX Tab (optional)
 - Requires a sound card radio modem interface for operations that don't require manual operations.
 - See work-arounds further down for if you are willing to try the manual operations.
 - Except for the following leave the defaults as selected
 - Check **Encode FSKID**
 - Within the CWID group, check **CW**
 - If sound card interface doesn't use VOX for PTT, set the Port to the serial port associated to the sound card's PTT under the PTT grouping
 - ◆ Misc Tab
 - Within Sound Card grouping
 - Input

Getting Started With MMSSTV (Windows Only)

- ◆ Select your soundcard microphone
 - Output
 - ◆ Select soundcard Speaker
 - Some devices have a built-in soundcard that have a combined speaker/microphone jack. These cannot be used and will require an external USB soundcard. The mono microphone jack on inexpensive USB soundcards is fine for SSTV.
- ◆ Select **OK**
- Operation
 - For receiving transmitted picture
 - ◆ Select **RX** on main display
 - Right clicking on a non-selected RX Mode will display all modes, selecting a mode from the list will replace the displayed mode. For ARISS SSTV add PD120 to the displayed modes.
 - ◆ As tones are heard, pictures should start being built line by line.
- Radio Connection
 - Automatic RX & TX
 - ◆ Those with an existing Sound Card Interface can use this for their radio connection. A Sound Card Interface has either a Microphone Connection for TX and Head Phone Connection for RX, or uses the Data Port on the radio. Not all radios have a Data Port
 - Those with a VOX PTT interface on a Sound Card Interface can use this to send SSTV pictures.
 - This includes the Signalink USB, or Master Communications DRA-65, DRA-70, DRA-80, and DRA-100.
 - Manual RX and Manual TX
 - ◆ Using the internal soundcard or an external USB sound card limits the automated interfacing functionality to receive only, as there is no Push-To-Talk feature.
 - ◆ Automated RX
 - Connect the radio's headphone/Auxiliary output to the microphone input on the sound card.

Getting Started With MMSSTV (Windows Only)

- For most radios this will require the standard 3.5mm male to 3.5mm male auxiliary audio cable.
- Some handhelds like the Baofeng will require the use a 2.5mm male to 3.5 mm male auxiliary audio cable.
- ◆ Manual RX Work Around
 - Under Option -> Setup MMSSTV -> Misc Tab, set the Sound Card Input to the microphone device on your Computer. This works best with and external microphone.
 - Prior to receiving, place your radio's speaker right next to the computer microphone.
 - When first experimenting with this, I used the hand speaker mic for my Baofeng, and used a rubber band to hold it onto my computer's external microphone.
- ◆ Manual TX Work Around
 - No Sound Card Interface
 - There is a work around if you really want to transmit but don't have a Sound Card interface. It works best with a computer with an external speaker, but can work from the speaker within the computer.
 - ◆ Under Option -> Setup MMSSTV -> Misc Tab, set the Sound Card Output to the Speaker device on your Computer.
 - ◆ When you are ready to transmit: When in the TX Mode, just prior to pushing the **TX** button in the program, on the microphone for the radio or handheld, push in the PTT and then hold the microphone close to the speaker on your computer. You can now press the **TX** button. Wait until the whole picture has transmitted prior to releasing the PTT.
 - C-Media Hardware PTT Sound Card Interface
 - MMSSTV does not support the C-Media Hardware PTT that most Masters Communication Digital Radio Adapters use.
 - ◆ You will need to follow the process for No Sound Card above.
 - ◆ I tested this with the YCARES Go Kit #3 that has a DRA-30 and it associated laptop.
- Non Typical Alternatives

Getting Started With MMSSTV (Windows Only)

- (RX Only) With an USB SDR receiver and software like SDRUNO, HDSDR, or SDR Console, coupled with a software based virtual audio cable, you only need a PC and an antenna connected to the SDR receiver. MMSSTV's audio input setting would be the Microphone port of the virtual audio cable