FreeStreamCoder VERSION 2.73



Generate an MPEG-TS stream UDP with OBS or vMIX or already encoded stream over IP

I made this little software to generate a TS-MPEG stream (protocol UDP) in H264 or H265 (and mpeg2 for test) for the different types of BVB-S DVB-S2 DVB-T modulation .

I would like to thank Jean-Pierre F6DZP for his advice and help with the development.

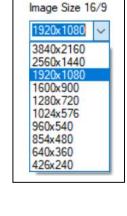
- FreeStreamCoder uses FFMPEG and can use GPU processors from NVIDIA cards or recent INTEL processors to compress to H264 and H265
- It can also code directly in soft but in this case the use is limited by the power of the processor above 333Ks or it can be saturated especially in H265.
- The source can be OBS or vMIX or an already encoded iP stream.

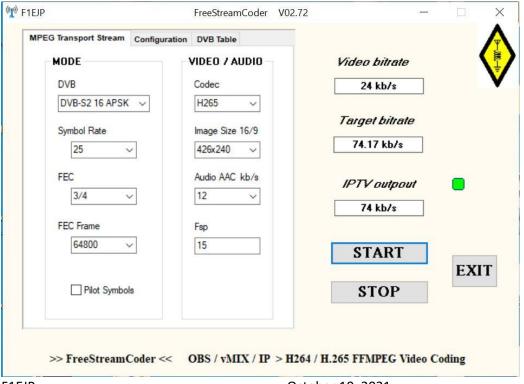
For each value of SR and FEC the software proposes tested and approximately optimized default values.

New in last version:

- > Improvement in low bit rates by reducing the bit rates occupied by the DVB tables (periodicity)
- ➤ We can go down to a very low bit rate of around 59kb / s which allows transmissions in DVB-S2 SR25 or SR20 without audio.
- We can now go up to 8M bandwidth in DVB-T (31Mb / s)
- The choice of 16/9 resolutions has also been increased
- Addition for test of mpeg2 (H262) in soft or hard coding for the INTEL GPU
- Added DVB PID and SID settings (optional in our amateur uses)
- Added GPU support for AMD (Radeon) graphics cards > need your tests to validate

The .exe is 25MB, you can place it where you want and it installs at the first launch just a directory c: \F1EJP with the necessary elements including ffmpeg.



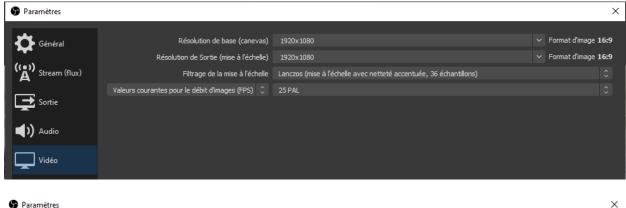


1/ If you haven't already, INSTALL OBS and the VirtualCam plug-in or vMIX

https://obsproject.com/ https://www.vmix.com/

Many tutorials are available for their uses.

With OBS here are just the parameters to apply (will be grayed out with VirtualCam started)



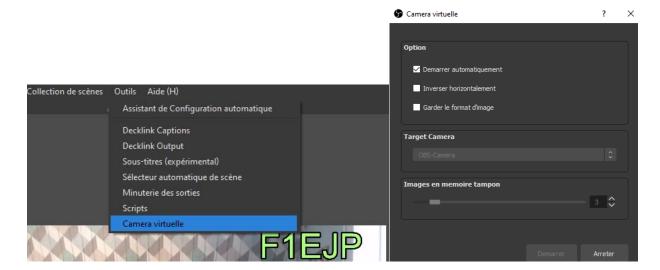


2/ For OBS Install VirtualCam

https://obsproject.com/forum/resources/obs-virtualcam.539/

Google is my friend for the latest versions and installation explanations.

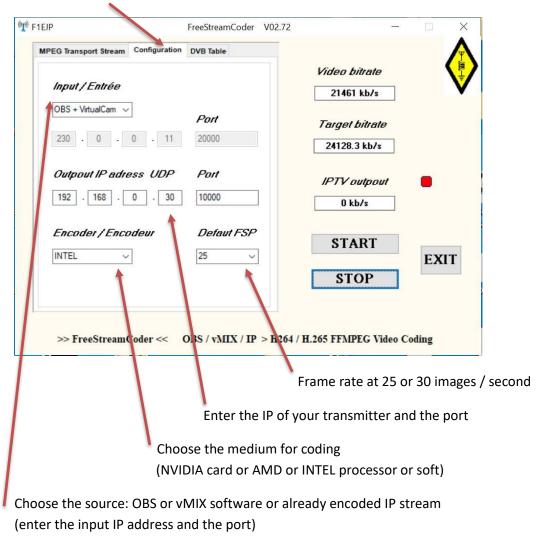
On OBS no longer need to use the recording or streaming buttons, simply go to « Tools » then « Virtual Cam » and check « Start automatically »

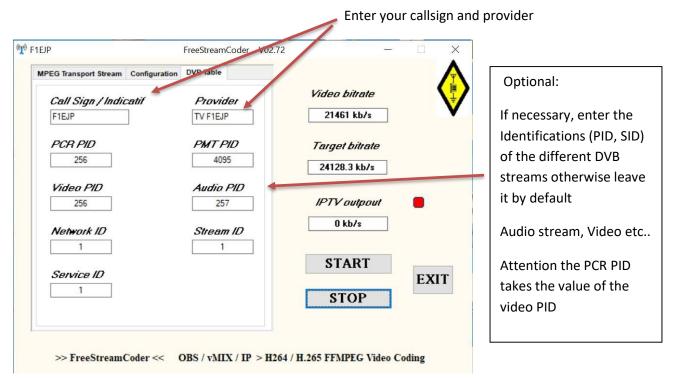


3 / Configuration FreeStreamCoder

Place the software on the Windows desktop and launch it. Be careful, your antivirus may block it!

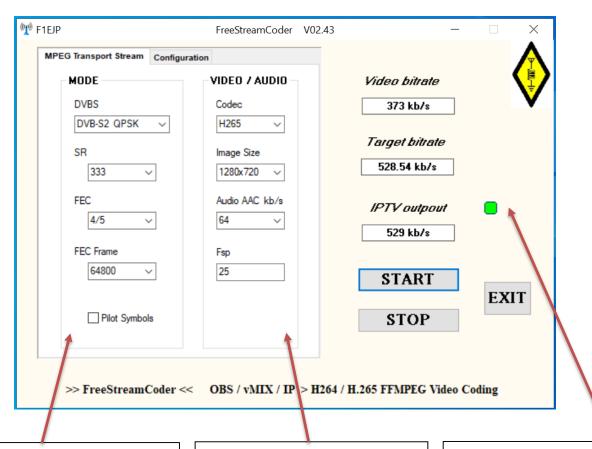
Go to the "Configuration" tab





5/ Use FreeStreamCoder

Lauch OBS or vMIX or IP stream



First choose the type of DVB modulation

Choose the Symbol Rate SR or Bandwidth

Choose the FEC error correction

In DVBS2, the calculated bit rate also takes into account the parameters chosen in the transmission for the FEC Frame and Pilots Symbol

In DVBT GuardFactor

Choose the encoding:

H264 or H265 or mpeg2 (H262).

Image resolution, audio bit rate and frame rate are offered by default depending on the DVB settings and the type of encoder used.

You can modify them for testing.

However if the settings are too high ffmpeg may no longer get the correct bitrate and crash.

IPTV outpout shows you the actual bitrate output from the encoder. It turns red if too high and 0 if there is a coding problem.

The LED indicates that the ffmpeg process is operating correctly.

- > START to start coding
- > STOP to stop coding
- **EXIT** to exit the software



73 Dominique F1EJP

Thank you for all your suggestions and feedback

I am regularly on the chat: https://eshail.batc.org.uk/wb/