FreeStreamCoder

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

After a first batch version Inspired by the scripts found on the BACT Forum I made this little software to generate a TS-MPEG stream (protocol UDP) in H264 or H265 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 and not recommended 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 depending on the configuration the software proposes tested and approximately optimized default values.

We can go down to very low speeds of the order of 88kb / s which should allow transmissions in DVB-S2 SR25

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.

MPEG Transport Stream	Configurati	on		
MODE		VIDEO / AUDIO	Video bitrate	<u> </u>
DVBS		Codec	297 kb/s	
DVB-S2 16 APSK	~	H265 ~		
SR		Image Size	Target bitrate	
	~	960x540 V	412.52 kb/s	
FEC		Audio AAC kb/s	IPTV outpout	
5/6	~	32 ~	0 kb/s	-
FEC Frame	_	Fsp		
64800 、	~	25	START	
Pilot Symbol	ls		STOP	EXIT

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)

Paramètres				\times
Général	Résolution de base (cane	vəs) 1920x1080	✓ Format d'image 16:	9
	Résolution de Sortie (mise à l'éch	elle) 1920x1080	 Format d'image 16: 	•
(`A`) Stream (flux)	Filtrage de la mise à l'éch	helle Lanczos (mise à l'échelle avec netteté accentuée, 36 échantillons)		
	Valeurs courantes pour le débit d'images (FPS)			
Sortie				
Audio				
Vidéo				
Paramètres				×
Général	Général			
((~))	Fréquence d'échantillonnage 44.1 kHz			
((•)) Stream (flux)	Canaux Stéréo			
Sortie	Périphériques audio globaux			

2/ For OBS Install VirtualCam

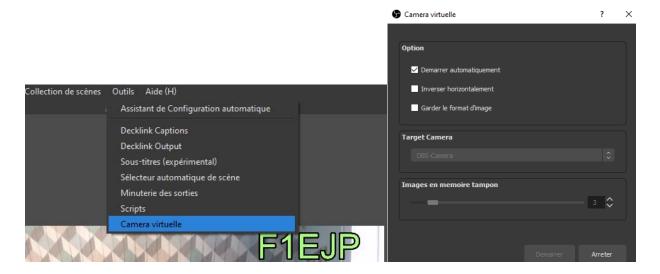
Audio

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

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

Audio du Bureau Par défaut

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

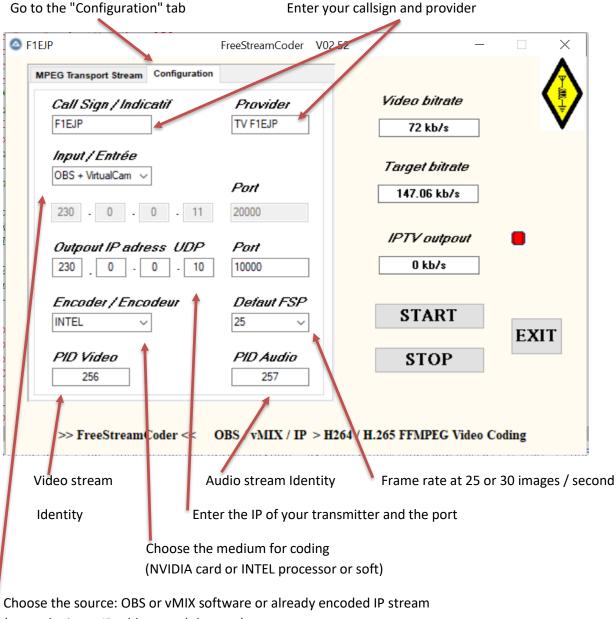


3 / Configuration FreeStreamCoder

Place the software on the Windows desktop and launch it



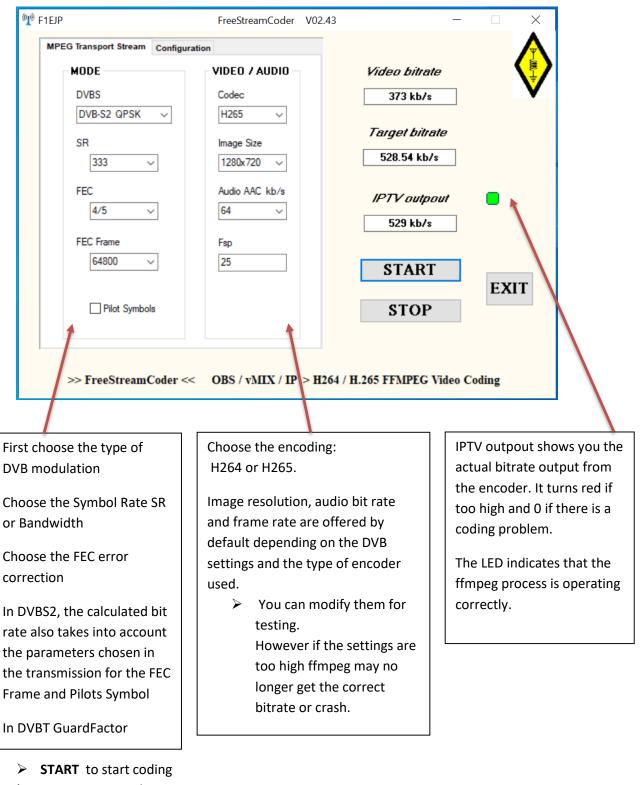
(Be careful, your antivirus may block it the first time)



(enter the input IP address and the port)

5/ Use FreeStreamCoder

Lauch OBS or vMIX or IP stream



- 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/