



## Software decoding

It is possible to decode D-STAR GMSK-datasignal using a computer running [dstardecoder](#)-software. Additionally, using [DVDongle](#) the audio of the D-STAR signal can be uncompressed and played out.



# Example



VHF / UHF  
D-STAR

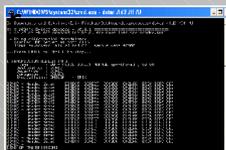


9600bps  
data out (DATA)

Click the loudspeaker icons to  
listen to audio samples

Unfortunately the audio signal is  
natively encrypted using the  
SuomiCipher, sorry for that.  
Anyway, it does proof the concept 😊

dstardecode



UDP



DVTool

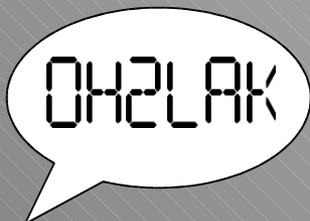


Windows  
XP



DVDongle

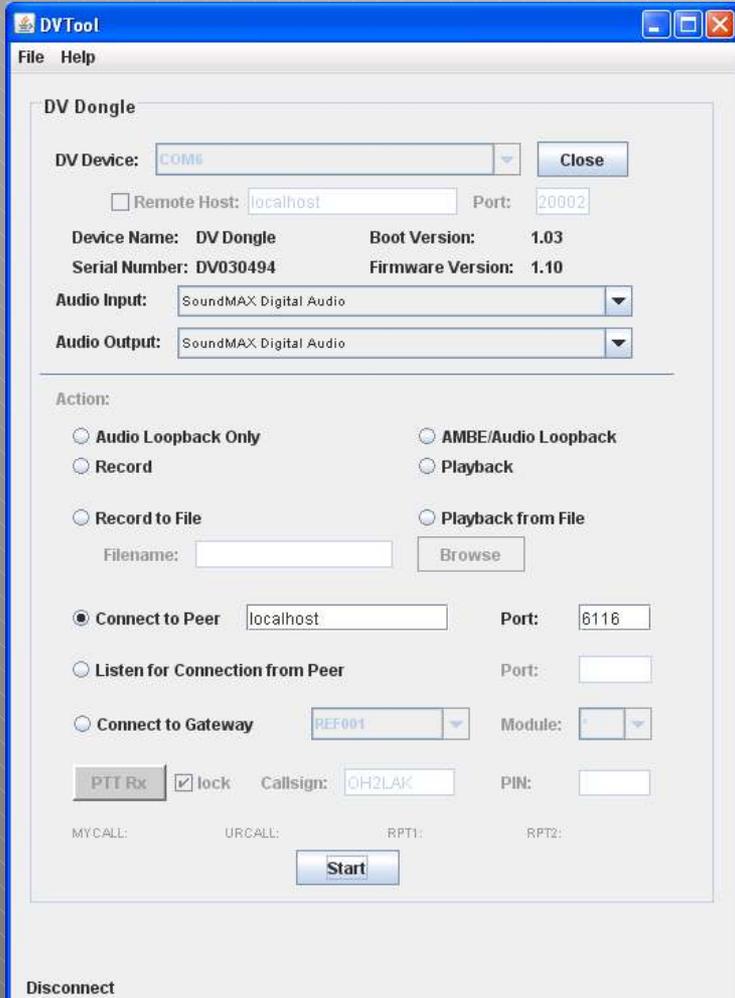
Line In  
Line Out  
USB





# DVDongle + DVTool

<http://www.dvdongle.com/>



DVDongle is a clever small USB device which includes the AMBE2020 voice codec chip to encode and decode AMBE-compressed speech. Using DVDongle the audio of a D-STAR (voice)-data signal can be uncompressed and played out of a soundcard. The DVTool application delivered with DVDongle can also connect to the D-STAR Gateways and reflectors connected to Internet and deliver D-STAR digital voice from them, and also to them. So using DVDongle, it is possible to work with real D-STAR radio users in real time through the internet.

DVTool can interact with `dstardecoder`-software to play out the D-STAR voice stream received by the `dstardecoder`

