

**Uploading the OpenUV380 Firmware and Voice Prompts**

These instructions are for uploading the firmware and voice prompts to your TYT MDUV380 /Retevis RT3S or DM1701/RT84.

But first of all you are going to need the official firmware from TYT which will be merged with the OpenUV380 firmware by the CPS program and which for licence reasons I am not able to include in the package.

If you don't need detailed instructions then use the link below to download this firmware and save it to the UV380BH folder on your desktop. This is the same firmware as used for OpenMD9600 so if you already have that downloaded then the CPS will automatically use it and you don't need to download it again.

[https://www.passion-radio.com/index.php?controller=attachment&id\\_attachment=760](https://www.passion-radio.com/index.php?controller=attachment&id_attachment=760)

If you have any problems you can go to my website [www.spencerweb.net](http://www.spencerweb.net) which is where you downloaded this package, go to Downloads, then OpenUV380 and then Updates and choose the button which links to the TYT MD9600 Firmware which also works for the UV380/RT3S.

If you need more detailed instructions for downloading the firmware from TYT then here they are for Edge/Chrome and Firefox.

**First Edge/Chrome**

When you select the link above Edge or Chrome begins running and automatically downloads the zip file which may take a little time depending on the speed of your internet connection. Once the download is complete you just need to hit Enter to start 'Windows Explorer' then you can go down these instructions to 'continue downloading'.

**Firefox**

If you are using Firefox then when you select the link above Firefox will start

and a window will open with two radio buttons if you are on the save radio button then you need to cursor up once to get to the Open with radio button and the default program in the combo box should be Windows Explorer, so just hit Enter.

Wait for the download to finish and for windows Explorer to open and then go to 'Continue Downloading' which is the next paragraph.

\*\*\*Continue downloading

This has now opened the zip file and you need to hit Enter again to open the folder in the zip file.

Cursor down to MD9600-csv(2571v5)-v26.45.bin

then hold the Ctrl key and hit C to copy the file.

Then hit F4 to close windows explorer and then F4 again to close Edge/Chrome/Firefox as you are finished with the internet. This is the correct file and it doesn't matter whether your radio has GPS or not.

Go to your Desktop and hit u until you locate your UV380BH folder and then hit Enter to open it followed by holding the Ctrl key and hitting v to copy the file into the folder.

Now you are completely ready to upload the firmware to your UV380/RT3S,

Pull down the rubber cover on the right hand side of the radio with your finger tip to give access to the mic and earphone sockets then plug the MD380/UV380 cable (do not use an GD77 cable which looks the same but it will not work) into the mic/earphone sockets of the UV380, plug the USB end of the cable into a USB port on your computer.

On the left hand side of the radio hold the top SK1 button and the PTT depressed at the same time and turn on your UV380/RT3S/DM1701/RT84. It is very important to turn on the radio after connecting it to the USB whenever you want to transfer something to or from the radio or the radio may not be recognised by the computer.

You should hear a burble from windows as it recognizes the device but the screen on the UV380/RT3S/DM1701/RT84 will remain blank and the led on the top of the radio will begin flashing red and green as you are now in firmware upload mode.

Now on your computer move the focus to your desktop and hit o until find the Open CPS short cut and hit Enter to start it.

Type Alt-r

and then cursor down once and make sure the MD9600/UV380 option is selected rather than GD77 by hitting Enter.

Type Alt+e

and then cursor down 2 times to get to Firmware Loading MD9600 and UV380 and now hit Enter to select this option.

A window opens allowing you to choose which model of DMR handy you want to upload too. Cursor down till you find UV380 or DM1701 depending on which type of radio you have and If you have uploaded firmware before with this CPS then you can skip the next step and simply tab twice and then go to Continue uploading firmware further down this page. If this is the first time you have uploaded firmware with this CPS then the tab three times and then hit Enter to select the standard TYT firmware file which we want to integrate into OpenUV380. Which is the one you saved earlier in your OpenUV380BH folder.

A standard windows explorer window will open with the focus on the filename edit field.

However if this is the first time you have uploaded firmware with the program then windows explorer will be sitting on your PC Documents folder which is not where your firmware file is located, it is in the Desktop folder so type Alt+Cursor Up until you reach desktop

and then shift+tab followed by hitting the letter u until you find your UV380BH folder, when you have found it then hit Enter  
cursor up or down to get to the MD9600-CSV(2571V5)-V2645.bin file  
and then hit Enter  
a window will appear saying that the official firmware has been verified and you are on the OK button so just hit Enter.  
Now tab until you reach the select file and update button and hit enter.

#### Continue Uploading Firmware :-

Hit tab once and you should be on the firmware files field so now cursor down once and it should say legacy files and hit Enter to select it.

Now cursor down 8 times and you should be on the file list.

So try cursor up and down to find the file fwuv380 (this is for the standard 5 watt version, if you have the 10 watt version you need to go to the other radio's folder to find the correct firmware) or if you are using the DM1701/RT84/DM2701 then go to the other radio's folder and find the file that you need, if you don't find the file then you are probably not on the UV380 folder and need to repeat the procedure of going to your desktop and finding the folder again.

When you have found the fwuv380 or file from the other radio's folder then hit Enter,

The uploading of the firmware will start automatically and takes less than a minute.

However if you get a window with the message Radio Not connected or not in DFU mode then one of 3 things is probably wrong. You are using the wrong cable, you have not turned on the radio in firmware load mode or more likely your computer has chosen the wrong driver for your radio. To install the correct driver go to the same update page on my web-site where you downloaded the donar file and find the link to the driver, download and install it again and then begin the firmware upload again.

Once the upload is finished there will be a tone from the CPS program, meaning the upload is completed so just type Alt+F4 to close the window.

Now turn off the UV380/RT3S but leave it connected to the computer and then switch it back on without and it's very important without pressing any of the buttons on the left hand side of the radio.

We are going to select and upload an audio package of voice prompts.

Type ALT+e

and then hit o and you have a new window OpenGD77 Support and you are focused on the Restore Backup Flash button.

Hit the cursor down 4 times and you should be focused on Write Voice Prompts, make sure you are really focused on Write Voice Prompts as there are other options in this window that you don't want to carry out. So you are on Write Voice prompts and you just need to hit Enter.

A standard Windows Explorer window will open and the focus is on the File Name edit field so now you have to choose a voice for your radio. You should type voicem.vpr for a male voice or voicef.vpr for a female voice.

then hit Enter and the writing of the Voice Prompts to the UV380/RT3S will automatically begin.

the voice prompt package is the same for all types of radio supported by OpenGD77/OpenMD9600 and OpenMDUV380.

Remember that these instructions try to keep everything as straightforward as possible so if you want to load a different voice prompt file for maybe a different language you will have to navigate to it on your computer and select it before hitting Enter.

When the upload is finished the computer will give a tone and you will be on a new window focused on the Close button so just hit Enter.

We are now finished with the CPS program for now so type ALT+F4 a new window will open asking if you want to save the code plug and you are focused on the yes button, hit tab to move to the No button and hit enter.

Turn off your UV380/RT3S

Unplug the cable from the UV380/RT3S and the computer

Turn on your UV380/RT3S and you're ready to go provided you have a code plug installed if not then go to 3 - Creating a code plug PDF the instructions for creating and uploading a code plug.