

1. Install python from <https://www.python.org/downloads/> when asked by the installer if you want python added to your environment variables, check the box to say yes. If you forget, you can run the installer a second time (after completing the install) and select “Modify”, followed by selecting the box to set environment variables.
2. Before running the script you’ll need to install the appropriate python libraries **pandas** and **requests**. This is done from a windows command line using the commands
pip install pandas
pip install requests

```
Command Prompt
Microsoft Windows [Version 10.0.22631.3737]
(c) Microsoft Corporation. All rights reserved.

C:\Users\Matthew>pip install pandas
Collecting pandas
  Downloading pandas-2.2.2-cp312-cp312-win_amd64.whl.metadata (19 kB)
Collecting numpy>=1.26.0 (from pandas)
  Downloading numpy-2.0.0-cp312-cp312-win_amd64.whl.metadata (60 kB)
    60.9/60.9 kB 804.1 kB/s eta 0:00:00
Collecting python-dateutil>=2.8.2 (from pandas)
  Downloading python_dateutil-2.9.0.post0-py2.py3-none-any.whl.metadata (8.4 kB)
Collecting pytz>=2020.1 (from pandas)
  Downloading pytz-2024.1-py2.py3-none-any.whl.metadata (22 kB)
Collecting tzdata>=2022.7 (from pandas)
  Downloading tzdata-2024.1-py2.py3-none-any.whl.metadata (1.4 kB)
Collecting six>=1.5 (from python-dateutil>=2.8.2->pandas)
  Downloading six-1.16.0-py2.py3-none-any.whl.metadata (1.8 kB)
  Downloading pandas-2.2.2-cp312-cp312-win_amd64.whl (11.5 MB)
    11.5/11.5 MB 3.5 MB/s eta 0:00:00
  Downloading numpy-2.0.0-cp312-cp312-win_amd64.whl (16.2 MB)
    16.2/16.2 MB 2.3 MB/s eta 0:00:00
  Downloading python_dateutil-2.9.0.post0-py2.py3-none-any.whl (229 kB)
    229.9/229.9 kB 2.8 MB/s eta 0:00:00
  Downloading pytz-2024.1-py2.py3-none-any.whl (505 kB)
    505.5/505.5 kB 2.9 MB/s eta 0:00:00
  Downloading tzdata-2024.1-py2.py3-none-any.whl (345 kB)
    345.4/345.4 kB 3.6 MB/s eta 0:00:00
  Downloading six-1.16.0-py2.py3-none-any.whl (11 kB)
Installing collected packages: pytz, tzdata, six, numpy, python-dateutil, pandas
Successfully installed numpy-2.0.0 pandas-2.2.2 python-dateutil-2.9.0.post0 pytz-2024.1 six-1.16.0 tzdata-2024.1
```

INSTALLING PANDAS

```
C:\Users\Matthew>pip install requests
Collecting requests
  Downloading requests-2.32.3-py3-none-any.whl.metadata (4.6 kB)
Collecting charset-normalizer<4,>=2 (from requests)
  Downloading charset_normalizer-3.3.2-cp312-cp312-win_amd64.whl.metadata (34 kB)
Collecting idna<4,>=2.5 (from requests)
  Downloading idna-3.7-py3-none-any.whl.metadata (9.9 kB)
Collecting urllib3<3,>=1.21.1 (from requests)
  Downloading urllib3-2.2.1-py3-none-any.whl.metadata (6.4 kB)
Collecting certifi>=2017.4.17 (from requests)
  Downloading certifi-2024.6.2-py3-none-any.whl.metadata (2.2 kB)
  Downloading requests-2.32.3-py3-none-any.whl (64 kB)
    64.9/64.9 kB 1.8 MB/s eta 0:00:00
  Downloading certifi-2024.6.2-py3-none-any.whl (164 kB)
    164.4/164.4 kB 3.3 MB/s eta 0:00:00
  Downloading charset_normalizer-3.3.2-cp312-cp312-win_amd64.whl (100 kB)
    100.4/100.4 kB 5.6 MB/s eta 0:00:00
  Downloading idna-3.7-py3-none-any.whl (66 kB)
    66.8/66.8 kB 3.5 MB/s eta 0:00:00
  Downloading urllib3-2.2.1-py3-none-any.whl (121 kB)
    121.1/121.1 kB 6.9 MB/s eta 0:00:00
Installing collected packages: urllib3, idna, charset-normalizer, certifi, requests
Successfully installed certifi-2024.6.2 charset-normalizer-3.3.2 idna-3.7 requests-2.32.3 urllib3-2.2.1
```

INSTALLING REQUESTS

3 Now you can run the script with the command

Py CreaterepeaterCSV.py

You should get a few lines of response (including a couple of warnings about deprecated methods that I have yet to fix) followed by

Processing complete. CSV files have been created

You now have three CSV files, saved in the directory in which you ran the code

FT5DE_List.csv This is the CSV file for uploading to the FT5DE ADMS software

FT70DE_List.csv This is the CSV file for uploading to the FT70D ADMS software

The FT5DE ADMS software also provides options to convert files to be suitable for the FT300, so this file can also be used for the FT300

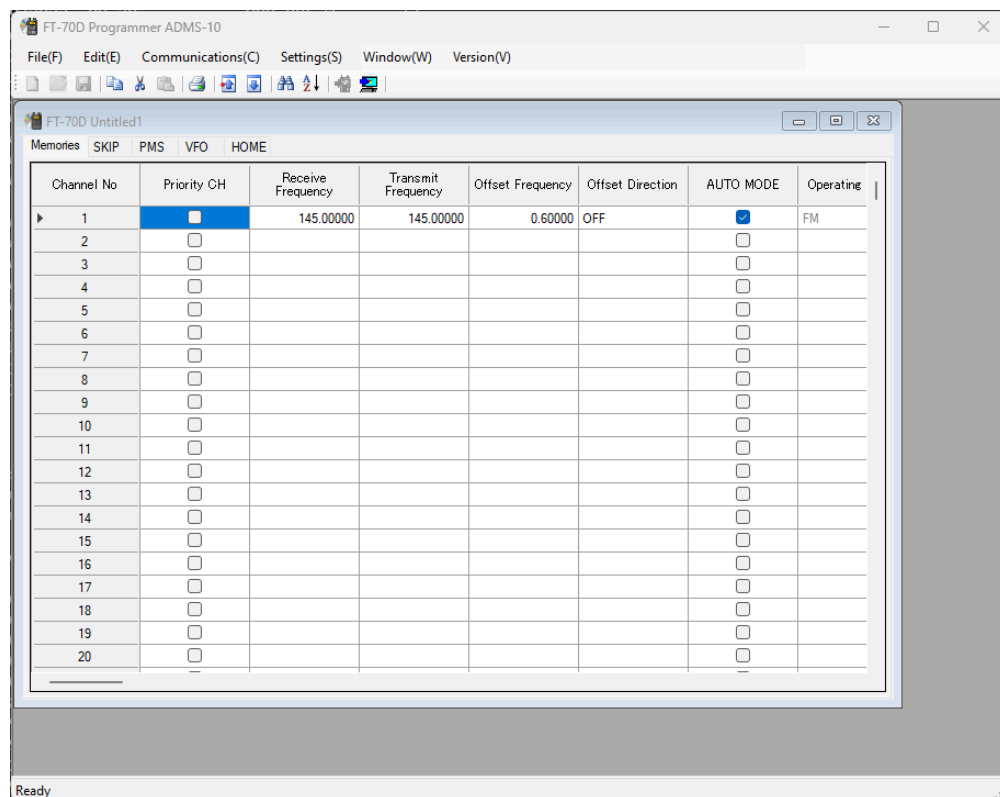
4 Install the Yaesu ADMS software for the FT5DE or FT70D - available on the Yaesu website.

[FT5DR/FT5DE Programming Software ADMS-14 \(Ver.1.0.1.0\)](#)

[FT-70DR/DE Programming Software ADMS-10 Instruction Manual \(2211-C\)](#)

[FT-70DR/FT-70DE ADMS-10 Programming Software \(Ver.1.0.1.0\)](#)

5 Open the ADMS Program - we will use the FT70D as an example, you will be greeted by the following window



6 Select File -> Import

In the dialogue box that appears, select the FT70DE_List.CSV file you created in step 3. This will import the CSV file into the ADMS programme. You will now have a window as shown below

The screenshot shows the 'FT-70D Programmer ADMS-10' window. It has a menu bar (File, Edit, Communications, Settings, Window, Version) and a toolbar. Below the toolbar is a tabbed interface with 'Memories', 'SKIP', 'PMS', 'VFO', and 'HOME'. The 'Memories' tab is active, displaying a table with 25 rows representing memory channels. Each row contains: Channel No, Priority CH (with a checkbox), Receive Frequency, Transmit Frequency, Offset Frequency, Offset Direction (with a dropdown arrow), AUTO MODE (with a checkbox), Operating Mode (FM), and AMS (ON). Channel 1 is selected, indicated by a blue highlight and a right-pointing arrow in the first column.

Channel No	Priority CH	Receive Frequency	Transmit Frequency	Offset Frequency	Offset Direction	AUTO MODE	Operating Mode	AMS
1	<input checked="" type="checkbox"/>	439.43750	430.43750	0.00000	-/+	<input type="checkbox"/>	FM	ON
2	<input type="checkbox"/>	145.57500	144.97500	0.00000	-/+	<input type="checkbox"/>	FM	ON
3	<input type="checkbox"/>	430.86250	438.46250	0.00000	-/+	<input type="checkbox"/>	FM	ON
4	<input type="checkbox"/>	439.15000	430.15000	0.00000	-/+	<input type="checkbox"/>	FM	ON
5	<input type="checkbox"/>	433.30000	438.30000	0.00000	-/+	<input type="checkbox"/>	FM	ON
6	<input type="checkbox"/>	433.20000	434.80000	0.00000	-/+	<input type="checkbox"/>	FM	ON
7	<input type="checkbox"/>	433.26250	438.26250	0.00000	-/+	<input type="checkbox"/>	FM	ON
8	<input type="checkbox"/>	430.91250	438.51250	0.00000	-/+	<input type="checkbox"/>	FM	ON
9	<input type="checkbox"/>	430.90000	438.50000	0.00000	-/+	<input type="checkbox"/>	FM	ON
10	<input type="checkbox"/>	433.25000	438.25000	0.00000	-/+	<input type="checkbox"/>	FM	ON
11	<input type="checkbox"/>	430.97500	438.57500	0.00000	-/+	<input type="checkbox"/>	FM	ON
12	<input type="checkbox"/>	145.58750	144.98750	0.00000	-/+	<input type="checkbox"/>	FM	ON
13	<input type="checkbox"/>	430.93750	438.53750	0.00000	-/+	<input type="checkbox"/>	FM	ON
14	<input type="checkbox"/>	145.66250	145.06250	0.00000	-/+	<input type="checkbox"/>	FM	ON
15	<input type="checkbox"/>	433.37500	434.97500	0.00000	-/+	<input type="checkbox"/>	FM	ON
16	<input type="checkbox"/>	430.97500	438.57500	0.00000	-/+	<input type="checkbox"/>	FM	ON
17	<input type="checkbox"/>	438.38750	430.78750	0.00000	-/+	<input type="checkbox"/>	FM	ON
18	<input type="checkbox"/>	145.72500	145.12500	0.00000	-/+	<input type="checkbox"/>	FM	ON
19	<input type="checkbox"/>	433.27500	434.87500	0.00000	-/+	<input type="checkbox"/>	FM	ON
20	<input type="checkbox"/>	145.73750	145.13750	0.00000	-/+	<input type="checkbox"/>	FM	ON
21	<input type="checkbox"/>	433.20000	434.80000	0.00000	-/+	<input type="checkbox"/>	FM	ON
22	<input type="checkbox"/>	145.70000	145.10000	0.00000	-/+	<input type="checkbox"/>	FM	ON
23	<input type="checkbox"/>	145.60000	145.00000	0.00000	-/+	<input type="checkbox"/>	FM	ON
24	<input type="checkbox"/>	433.17500	434.77500	0.00000	-/+	<input type="checkbox"/>	FM	ON
25	<input type="checkbox"/>	433.05000	434.65000	0.00000	-/+	<input type="checkbox"/>	FM	ON

7 You can now upload this to the FT70D. You can do this using the USB cable that came in the box with your FT70D. Simply connect it between the radio and the PC, and use *Communications -> Send Data to FT70* in the ADMS program. Before uploading to your FT70D you will need to install the appropriate drivers and set the COM port correctly, there are plenty of instructional videos on this online

For the FT5D (and FT300 and FT200) a simpler process can be used by making use of the SD card. The ADMS software offers the option of saving memories to the SD card (remove the micro SD card from the radio and insert into your PC, and use a USB drive). Again, there are plenty of instruction videos online showing how to do this stage.

Improvements to implement

- Setup memory banks for the FT70d to divide the repeaters by geographical areas
- Allow of a user created CSV file of non-repeater memory channels to be imported and added to the repeater list. The user could then have details of their own local gateway, or of favourite net frequencies in a user created CSV file (just listing the basic stuff, with the more complex settings optional). This file is read and merged into the final CSV file
- Add an option to insert the calling channel every between every n memory channels. This would then mean that if the radio is set to scan the memory channels, it will be checking the calling channel every second or so. This is helpful on the FT70D because dual watch does not function when scanning.

