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Execution files

To run the exe files you must install

- Net framework 4.8
- Microsoft Visual C++ 2015-2019 Redistributable (x86) 14.24.28127

You must have, in the same directory of the exe file:

- the txt file "porta seriale", where you must write the name of the virtual COM port connected to the Arduino Uno board
- the file "pipe", which is the exchange point between the two softwares. At the beginning, it contains the value 0 (don't stop the pump)
- the txt profile files, relative or absolute

You must edit the profile files by hand.

The profile .txt absolute file format is:

```
ass
20.00,20.10,20
20.10,20.11,30
20.11,20.12,50
```

First row must be “ass”.

From the second row on the format is:

*start hour (two digits).start minutes (two digits),end hour (two digits), end minutes (two digits),
pump speed percentage (two digits)*

The relative profile file format is:

rel 00.01,00 00.30,10 00.15,30 01.00,50

First row must be “rel”.

From the second row on, the format is :

how many hours (two digits).how many minutes (two digits),pump speed percentage (two digits)

Source files

To compile the source code of the pump controller you need Visual Basic Express Edition 2008
Link the ico file “icona_zebrafish.ico” and the “pesce_logo_4.png”.

To compile the source code of the video tracker you need Visual C# 7.3, as part of Visual Studio
Community 2019.

You need to download EmguCV 4.1.1.3497 and to include in your project resources the following
dlls:

- Emgu.CV.UI.dll
- Emgu.CV.World.dll
- ZedGraph.dll