Compiling on Windows 10

- Install the following packages before starting the compilation:
  - CodeBlocks IDE (http://www.codeblocks.org/).
  - TDM GCC compiler(http://tdm-gcc.tdragon.net/). Choose the 32bit or 64bit compiler.
  - MSYS(http://www.mingw.org/wiki/msys). Setup msys after installation to use TDM gcc compiler(32bit or 64bit).
- Setup CodeBlocks IDE to use the previously installed TDM-32 bit or TDM-64 bit compiler.
- Extract sources to the directory of your choosing:
- Run MSYS command shell. You have two options:
  - MakeFile: Go to .\build\makefile folder and type:
    - For TDM-32 bit build: make -f makefile-win bit=32
    - For TDM-64 bit build: make -f makefile-win bit=64
    - This will produce binary in .\bin folder.
  - Manual + CodeBlocks IDE: Go to .\lib subfolders and compile the following external libraries. Make sure the directory is named codeblocks32(32bit compiler) or codeblocks64(64 bit compiler). The oscilloscope project uses those directories names to link to external libraries.
    - This example demonstrates compilation for 32bit:
      - libusb-1.0.20
        - mkdir codeblocks32
        - cd codeblocks32
        - ../configure --host=i686-w64-mingw32
        - make
      - SDL2-2.0.4
        - mkdir codeblocks32
        - cd codeblocks32
        - ../configure --host=i686-w64-mingw32 --disable-directx
        - make

- wxWidgets-3.0.2
  - mkdir codeblocks32
  - cd codeblocks32
  - ../configure --host=i686-w64-mingw32 --disable-shared
  - make

- This example demonstrates compilation for 64bit:

- libusb-1.0.20
  - mkdir codeblocks64
  - cd codeblocks64
  - ../configure --host=x86_64-w64-mingw32
  - make
- SDL2-2.0.4
  - mkdir codeblocks64
  - cd codeblocks64
  - ../configure --host=x86_64-w64-mingw32 --disable-directx
  - make
- wxWidgets-3.0.2
  - mkdir codeblocks64
  - cd codeblocks64
  - ../configure --host=x86_64-w64-mingw32 --disable-shared
  - make

- Open .\build\codeblocks-mingw\oscilloscope.workspace.
  - Swith build target to chosen build(Debug32,Release32,Debug64 or Release64).
  - Select compiler for choosen build target. This must be previously setup TDM-32 bit or TDM-64 bit compiler.
  - Build. This will compile and link the program.
  - Run the executable.

- USB driver setup:
  - Install »NoEEProm« version of driver file and click Write EEPROM in the program. You can check that the EEPROM was written by executing Read EEPROM. After that you can install normal version of the driver.
  - Here are the instructions on how to install the driver on Windows 10 since it is not signed:
    - Hold down shift key while you click restart.
    - Chose »trubleshoot«, »advanced options« and »startup settings«
    - Your system will restart and you will be able to install the driver.
    - Install the driver and restart.

- **Questions ?** Go to www.scopefun.com where you can join a forum or contact us by e-mail.