

Siglent EasyTools installation on Linux

Expectations

This guide provides instructions regarding the installation process of Siglent EasyTools on Linux using Wine. The respective EasyTool can be then used to connect to test equipment over the network. Connecting devices via USB is not tested and making USB connectivity work is outside of the scope of this guide.

Disclaimer

Use at your own risk! This guide comes without any warranty. Under no circumstances I, the author of this guide, take responsibility for any damage caused (physical or monetary)/lost income/lawsuits/etc.

Test equipment used for validation

- Siglent SDG2042X waveform generator
- Siglent SDS1104X-E oscilloscope
- Siglent SPD3303X-E power supply
- Siglent SDM3055 multimeter

The test equipment was connected to a network switch together with the computer on which the respective EasyTool was running.

Prerequisites

Common

- Wine
- winetricks
- NI-VISA Runtime 16.0 (newer versions will not work with this guide)

Tool specific

Application	Dependencies
EasyScopeX, EasyDMM	Visual C++ 6.0 runtime, .NET Framework 3.5 SP1
EasyPower	Visual C++ 6.0 runtime

Tested EasyTools

- EasyWaveX
- EasyScopeX
- EasyPower
- EasyDMM

Installing Wine and winetricks

This guide was tested on Ubuntu 20.04 using Wine 5.0 and on Manjaro using Wine 6.7.

Ubuntu

sudo apt install wine-stable winetricks

Manjaro

sudo pacman -S wine winetricks

Links

NI-VISA Runtime

<https://www.ni.com/sv-se/support/downloads/drivers/download.ni-visa.html#306035>

Double check that the Version is set to 16.0

Visual C++ 6.0 runtime

https://download.microsoft.com/download/vc60pro/Update/2/W9XNT4/EN-US/VC6RedistSetup_deu.exe

EasyTools

<https://siglenna.com/service-and-support/firmware-software/>

Tested versions

Application	Version
EasyWaveX	1.1.0.13
EasyScopeX	1.01.02.01.21

EasyPower	1.01.01.18
EasyDMM	1.02.01.03

Configuring Wine

The only change that I made was to set the Windows version to Windows 10 using winecfg. I had issues with the EasyWaveX window not reacting to user input on other versions.

The guide works on both 32-bit and 64-bit Wine prefixes, the installed dependencies always have to be 32-bit however.

Installing NI-VISA Runtime 16.0

The first step is to extract the downloaded ZIP file.

There is one mandatory component that needs to be installed and two optional.

Open a terminal and navigate to the root of the folder where the ZIP file was extracted. There should be a directory called Products in this directory.

Mandatory components

wine msiexec /i Products/NI-VISA_Runtime/NIVISAruntime.msi

The the Ethernet runtime support is needed, the rest can optionally be deselected.

Optional components

Some errors can be seen in the command line when EasyWaveX is launched without the NI Network Discovery Service and mDNS responder. They do not seem to affect the application, but they go away if the right components are installed.

wine msiexec /i Products/NINetworkDiscoverySvc/NINetworkDiscoverySvc.msi

wine msiexec /i Products/mDNS_Responder/mDNSResponder.msi

Installing .NET Framework 3.5 SP1

winetricks dotnet35sp1

Installing Visual C++ 6.0 runtime

Normally this dependency would be installed via winetricks but it seems to be broken.

The workaround is to download the installer, run it, which will extract the actual installer.

The extracted file then has to be executed again, which will install the runtime.

Installing EasyTools

All of the tested EasyTools use similar/the same installer. Extract the downloaded ZIP file and run the installer with Wine.