

RIGOL DL 3021

Manual

Departamento de Ingeniería Eléctrica y Electrónica
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1) Install [Ultra Sigma \(PC\) Software](#)

1. Install UltraSigma Instrument Connectivity Driver
2. Execute setup.exe
3. It might ask you to install .NET Framework 3.5. If this installation is not successful, execute dotnetfx.exe
4. Install S1501 UltraLoad Software and execute Ultraload.exe

DOWNLOADS

Browse and download the latest **software**, **drivers**, **firmware**, and **application tools** for your RIGOL products. Use the dropdowns below to filter by **product series** (e.g., MSO5000) or **file type** (e.g., Software, Firmware).

All downloads are reviewed and approved for public release.
If you have any questions or need assistance, please contact RIGOL.

Filter software by:

 S1501 UltraLoad Software	Software
 UltraSigma Instrument Connectivity Driver	Software
 DL3000 Series Firmware - v00.01.05	Firmware

[1] Rigol Technologies, *DL3000 Series Electronic Loads Programming Guide*, Rev. 01.01, Rigol Technologies Co., Ltd., 2017. [Online]. Available: https://www.batronix.com/files/Rigol/Elektronische-Lasten/DL3000/DL3000_ProgrammingManual_EN.pdf

2) Connect the electronic load to the PC and configure the interface parameters for the load. Use one of the following interfaces:

- **LAN:** Use ethernet cable and connect it to your PC or to a router. License Not Supported for DL 3021, only option for ARM64 processors: MAC, Linux, etc..
- **USB Device:** Best option.
- **RS232:** Uses a DB 9 Male-Female cable + USB-RS232 adapter (too expensive)
- **USB GPIB**

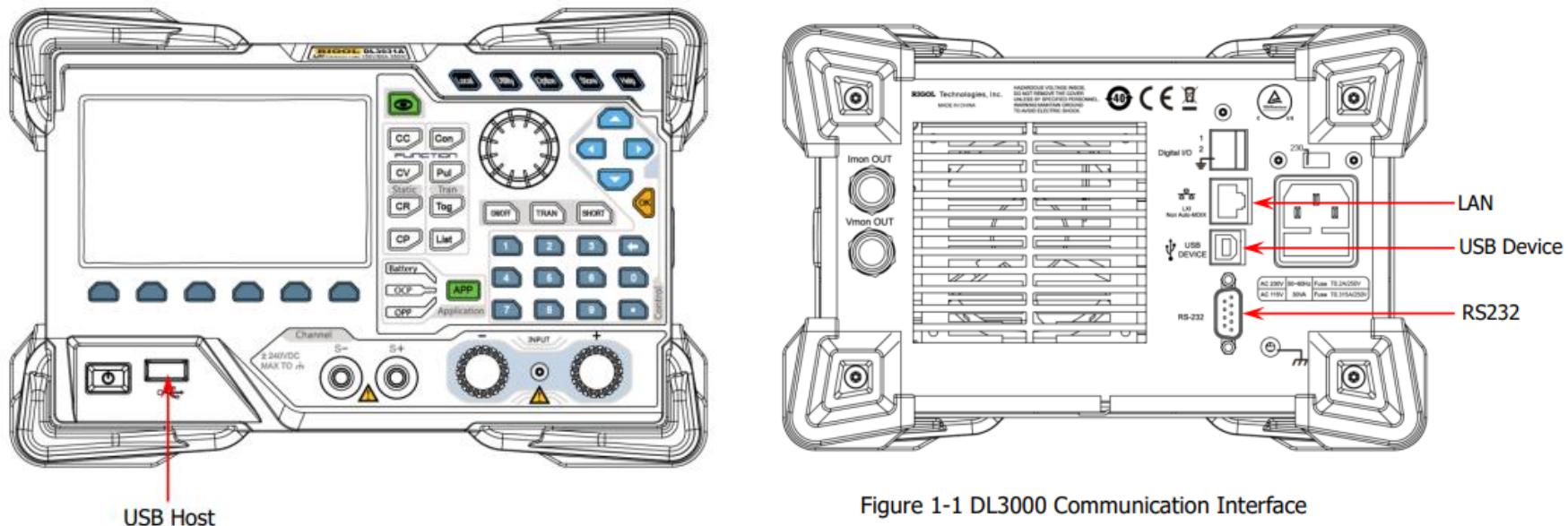
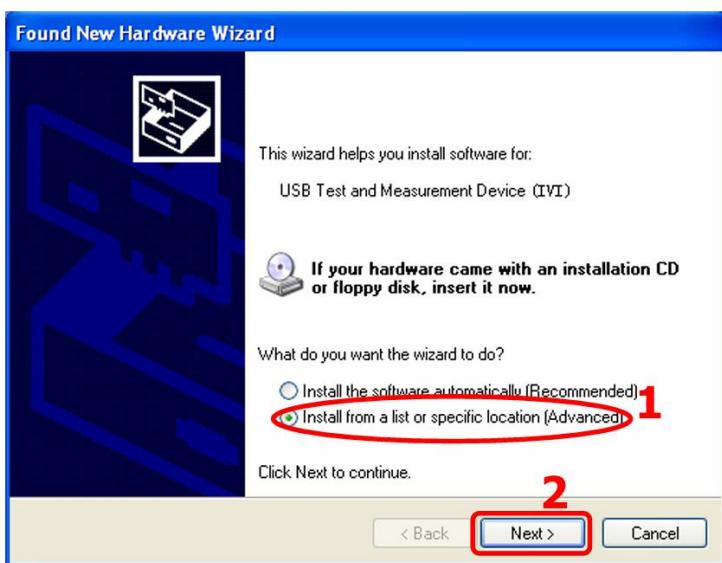
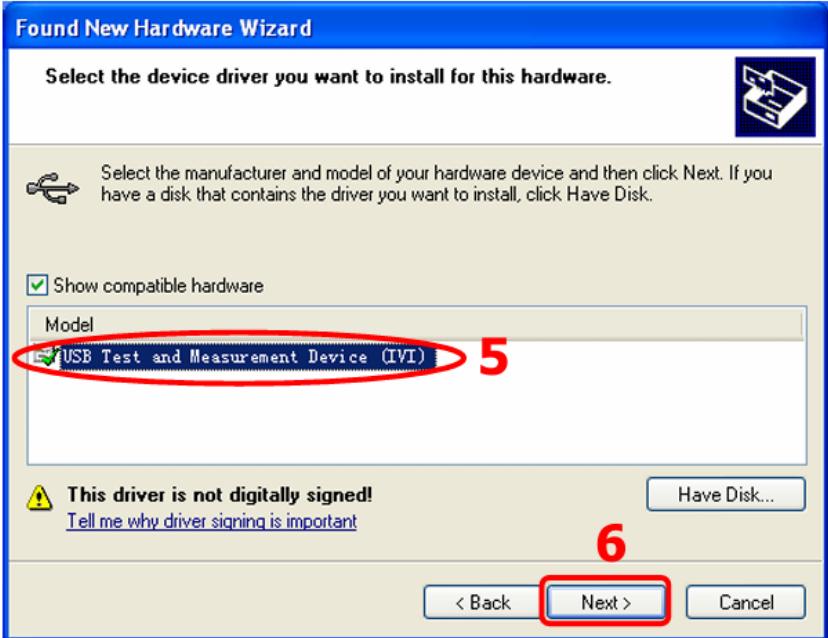


Figure 1-1 DL3000 Communication Interface

[1] Rigol Technologies, *DL3000 Series Electronic Loads Programming Guide*, Rev. 01.01, Rigol Technologies Co., Ltd., 2017. [Online]. Available: https://www.batronix.com/files/Rigol/Elektronische-Lasten/DL3000/DL3000_ProgrammingManual_EN.pdf

3) After the load is properly connected to the PC, connect the load to power source and turn it on. In this case, "Found New Hardware Wizard" dialog box appears on the PC. Please install "USB Test and Measurement Device (IVI)" according to the instructions.





4) Programming Instances: you can program DL3000 series with SCPI commands based on NI-VISA in:

- Excel
- MATLAB
- LabVIEW
- Visual C++
- Visual C#.
- Python (install pyvisa and pyvisa-py)

To test that your PC recognizes the Load the first step in all programing instances is sending the ***IDN?** command and reading the instrument information.

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