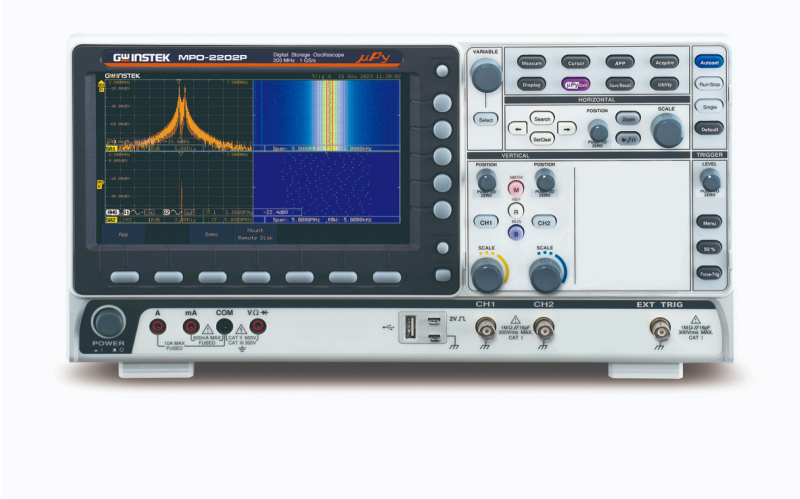
MPO-2000 Series Multi-function Programmable

Oscilloscope








Features

- MPO-2000P:200MHz; 4CH/2CH
- MPO-2000B:100MHz; 4CH/2CH
- Allow to use Python scripts to control for automation purpose
- Dual Channel Spectrum analyzer with Spectrogram
- I2C/SPI/UART/CAN/LIN serial bus trigger and decoding function
- MPO-2000P:CAN FD, USB 2.0(full speed), FlexRay, USB PD, I2S digital decoding
- MPO-2000B: CAN FD, USB 2.0 (full speed) digital decoding
- Data log function is able to track signal changes up to 1000 hours
- Network storage function
- Equips with a spectrum analyzer; a dual channel 25MHz AWG; DMM and power supply.
- Power Supply: Dual channel output, 1V to 20V continuously adjustable (0.1V step)

Description ▾

If you can't see the YouTube videos, please click here. (https://www.youtube.com/playlist?list=PLKq8B6ld3PaPmJ9jtODs86jt91EsQN_K5)





GW Instek launches the MPO-2000 series, which is named after the abbreviation of **M**ulti-function **P**rogrammable **O**scilloscope. In addition to being an oscilloscope, it also includes a spectrum analyzer, an arbitrary waveform generator, a digital multimeter and a DC power supply.

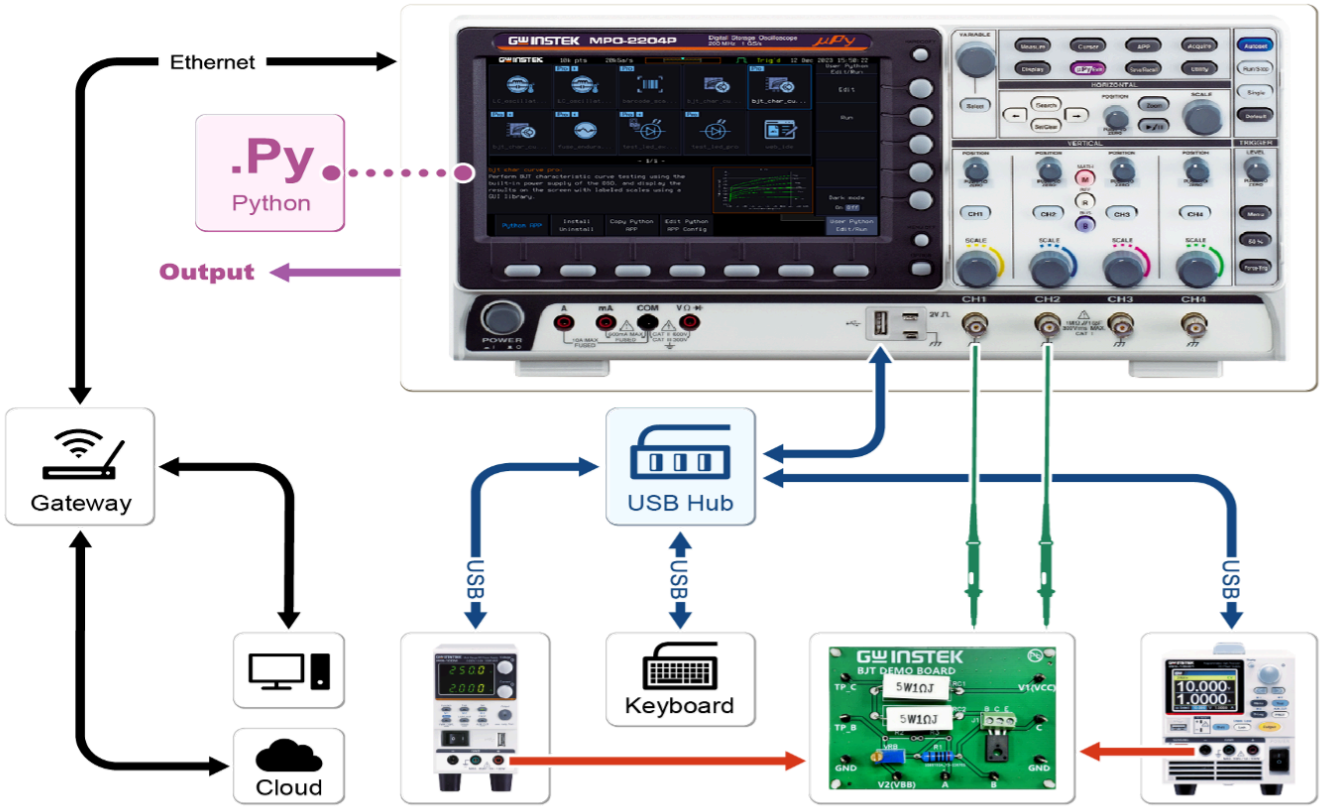
In addition to the five-in-one multi-functional architecture, **we innovatively introduced the Python script function into the MPO-2000**, so that users can conduct program control of a small automated test system by setting up a single unit test or multi-unit test without a PC, hence, the name MPO.

The MPO-2000 series provides Basic and Professional versions (model suffixes are represented by B and P).In terms of bandwidth, the Basic version is 100MHz and the Professional version is 200MHz and the main difference is that the Professional version provides larger program memory and more system resources to achieve the ability to process longer waveform data. The series provides USB CDC device control to meet the needs of multi-unit collaborative tests, and a Python GUI library is provided to allow users to modify the original built-in Python APP or write their own programs that present curve drawing and GUI operation menus to be packaged into Python programs developed by users.

The Basic version features the provided demo programs that can be executed (including programs with USB device control and GUI) and Python programs provided by users. In addition, the Professional version provides more diverse bus decoding functions, including FlexRay, USB-PD and I^2S. Many bus decoding functions are included in the standard configuration, and users do not have to pay to have the functions, making MPO-2000 more competitive.

MPO-2000P is the only product of its class that has a built-in Python GUI library. Users can build their own test systems at a lower cost. A variety of executable Python APPs are built-in. An all-in-one instrument with affordable pricing is ideal for test and measurement automation teaching

courses; small-scale automated test of production lines, component tolerance testing for quality assurance, and diversified test applications.



MPO-2000 provide 7 innovative functions:

1. Python Script Execution
2. Component Tester I-V curve
3. Support MQTT Protocol
4. Serial Bus decode
5. Spectrogram
6. Support Python GUI library (Professional version only)
7. Support USB CDC-ACM, USB HID Protocol (Professional version only)

The Python APP currently installed on MPO-2000 includes the following categories:

- BJT output characteristic curve
- LC oscillator circuit frequency and temperature characteristic curve
- Fuse endurance test
- LED forward bias characteristic curve
- Barcode scanner measurement application



On the MPO-2000, if users want to modify or call the script of the drawing library, they must purchase the Pro version to modify the program by themselves to meet the testing of different DUTs. In addition, other manufacturers can use the built-in AWG function of the oscilloscope to achieve similar effects, but the voltage and power of this kind of AWG are too small, and their practicality is low. One single MPO-2000 unit can meet the IV test requirements of parts suitable for voltages below 20V.

More detail, please follow the MPO-2000 Brochure (/upload/media/download/01_Oscilloscope/MPO-2000/Brochure/BH_MPO-2000_E_202403.pdf).