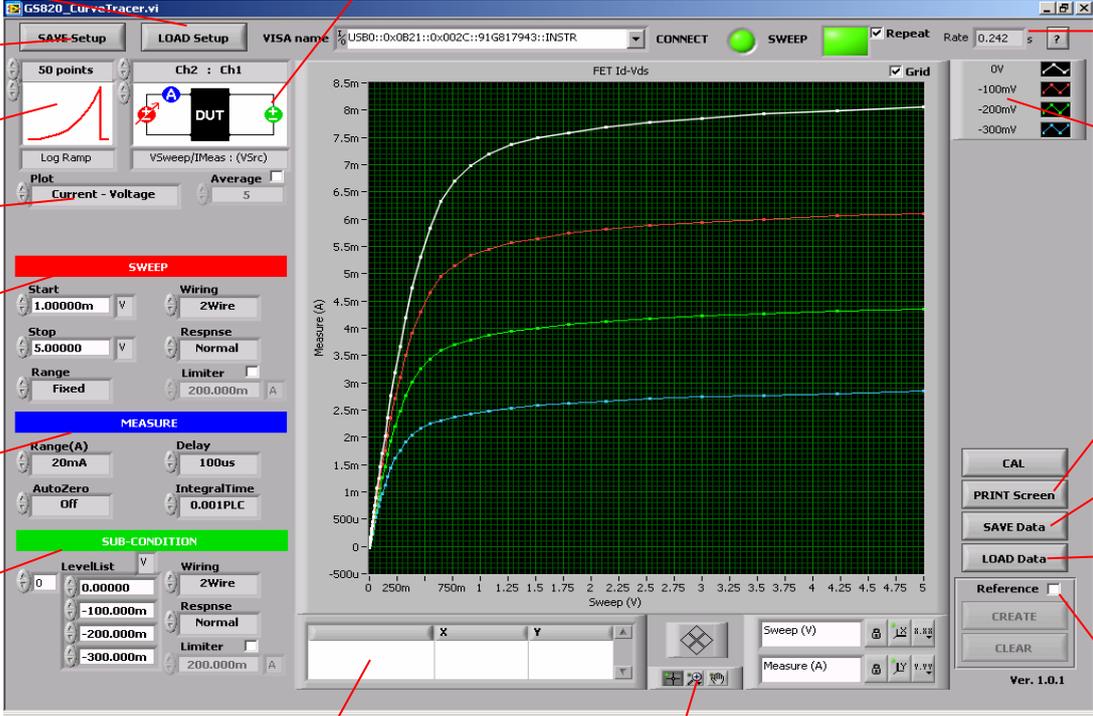


# Curve Tracer Software 765670

## GS series Source Measure Unit + Curve Tracer Software 765670



Labels in the image:

- Load setup parameters
- Save setup parameters
- Select the sweep shape
- Define the graph axes
- Set the sweep range and various conditions
- Set the measurement range and various conditions
- Set parameters
- Select the connection
- Graph update rate
- Parameter display
- Capture the screen
- Save to a CSV file
- Load from CSV file and display graph
- Define a reference curve
- Cursor features
- Zoom and scroll

### Product Overview

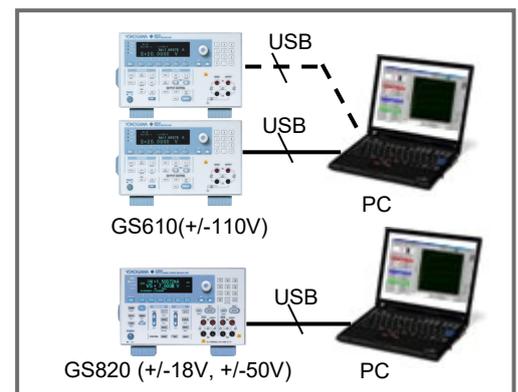
This product is a high-speed, high-accuracy real-time I-V curve tracer that consists of the GS series Source Measure Unit and the 765670 Curve Tracer Software. It is particularly well-suited to DC parametric tests of minute signals.

### Simple system configuration, easy connection, compact, and light

This system is configured by connecting the GS series Source Measure Unit to a PC that contains the 765670 Curve Tracer Software via USB. You can perform high-speed, high-accuracy curve tracing despite its compact size, light weight, and simple system configuration.

### Real-time, High-Speed Drawing

The GS series is high-speed communication and sweep features allow high-speed graph update rate up to 25 pages/s. (GS820) You can use the real-time curve tracer with comfort.



Drawing Speed (Times/s, Reference values)

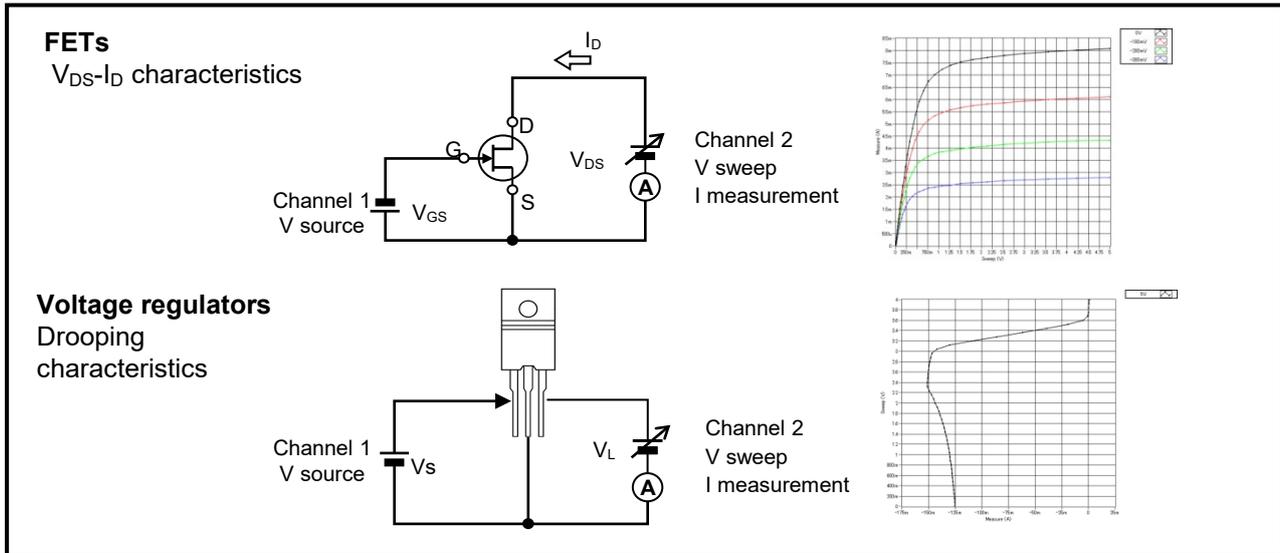
Plot Points \ Product Name	GS610	GS820
20	20	25
50	10	16
100	5	11
200	3	6

Conditions: CPU: Core2Duo1.5 GHz, USB 2.0, using LabVIEW.  
measurement integration time:GS820 0.001 PLC / GS610 250 μs

### Field of Applications

- Discrete semiconductors such as transistors and diodes
- Analog ICs such as voltage regulators and op-amps
- MOS logic and other digital ICs
- LED and other optical devices
- Solar battery cells

### Examples of Measurements of Characteristics



### Specifications

- Graph drawing:**  
voltage vs. current, voltage vs. voltage, gain vs. voltage, voltage vs. timestamp, current vs. voltage, current vs. current, gain vs. current, current vs. timestamp  
Sweep axis: Voltage source or current source  
Measurement axis: Voltage measurement or current measurement  
Parameter: Voltage source or current source  
Sweep shape: Ramp (linear or log), triangle (linear or log), rectangle  
Sweep points: 5, 10, 20, 50, 100, 200, 1000  
Scaling: Auto scale or fixed scale  
Averaging count: 2,100
- Analysis feature:**  
Cursor, zoom & scroll, reference curve designation
- File operations:**  
CSV data storage and loading, graphic image storage, panel image storage, setup storage and recall

### System requirements

- PC**  
Memory: 512 MB or more  
HDD: Free space of 1 GB or more
- Operating system**  
English version of Windows 11 or Windows 10 64 bit
- USB interface**  
USB 1.1 or USB 2.0 port.
- USB cable**  
USB 1.1 or USB 2.0 A-B cable for connecting the GS series to a PC.
- Monitor and mouse**  
Compatible with the operating systems listed above.
- GS series**  
GS610  
The firmware version must be 1.10 or later to use the measurement auto range feature with this software.  
GS820  
The firmware version must be 1.04 or later to use the measurement auto range feature with this software.

The detailed GS series specifications are contained in the GS series catalog (Bulletin 7655-00E/7656-01EN).

### Models and Suffix Codes

Model	Suffix Code	Description
765670	-E	Curve Tracer Software English Version 1 license
765501		GS610 Source Measure Unit Standard Model
765601		GS820 Multi Channel Source Measure Unit, 18 V range / 2-bit digital I/O model
765602		GS820 Multi Channel Source Measure Unit, 18 V range / 16-bit digital I/O model
765611		GS820 Multi Channel Source Measure Unit, 50 V range / 2-bit digital I/O model
765612		GS820 Multi Channel Source Measure Unit, 50 V range / 16-bit digital I/O model

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LabVIEW is a registered trademark of National Instruments.



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YMI-N-MI-M-E03

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