







# PICOTEST®

# G5100A

## Easy-to-use Functions

Users can easily use the following functions.

- Internal modulations of AM, FM, PM, FSK & PWM for waveform adjustment.
- Built-in linear and logarithmic sweeps from 1 ms to 500 s.
- The burst mode has a selectable number of cycles per period of time.
- The remote control via USB, LAN or opt. GPIB interface.
- The programmability by SCPI commands under the remote control connection.
- Precise phase adjustments and calibrations can be done from the front panel or via a PC.



## User Friendly Operation

The G5100A's front-panel operation is simple and user-friendly. Users can enter all functions with a single key or two, and use the knob or the numeric keypad to adjust frequency, amplitude, offset and other parameters. They can even directly input voltage values in Vpp, Vrms, dBm or high & low levels. Timing parameters can be entered in Hertz (Hz) or second.



## Data Transmission via Pattern Out

The WavePat software adheres to the waveform editor. It allows users to create and store 16-bit data in the G5100A's nonvolatile or volatile memory. Then, according to application purposes, users can transmit data via Pattern Out, located in the rear panel.



## Functions and Waveforms

The G5100A can create stable, precise, clean and low distortion sine waves by using DDS (Direct Digital Synthesis) Technology. With fast rise and fall times up to 25 MHz for square waves and 200KHz for linear ramp waves, the G5100A can meet users demand on waveforms.

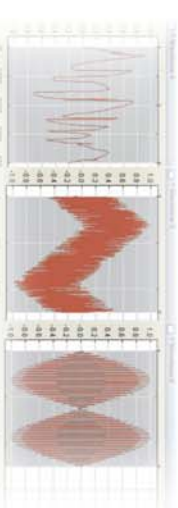
## Pulse Generation

The G5100A can generate variable-edge-time pulses up to 10MHz. With variable period, pulse width and amplitude, the G5100A is perfectly suited to applications requiring a flexible pulse signal.

## Custom Waveform Generation

The G5100A can generate complex custom waveforms. With 14-bit resolution, and a 125 MSa/s sampling rate, the G5100A gives users the flexibility to create waveforms. It also allows users to store up to 5 waveforms, 4 (4 x 256K Points) in nonvolatile memory and 1 in volatile memory.

The G5100A's Waveform Editor Software allows users to create, edit and download complex waveforms. In addition, by using the software, users can retrieve waveforms from Agilent MSO 8104 Oscilloscope.



## Support External Freq. Synchronization

The G5100A's external frequency reference allows users to synchronize an external 10 MHz clock to another G5100A, or to any other unit which can support 10-MHz-frequency-input function.

