

## General-purpose 6-channel pulse generator

Many options are available to use the DG-8000 as other than a simple general-purpose 6-channel pulse generator



Trigger input  
Synchronous output  
CH1 to 6 output

Pulses from three devices (18 channels) can be output synchronously by using the simple synchronization option.

**IWATSU TEST INSTRUMENTS CORP.**

# Features of 6-channel pulse generator

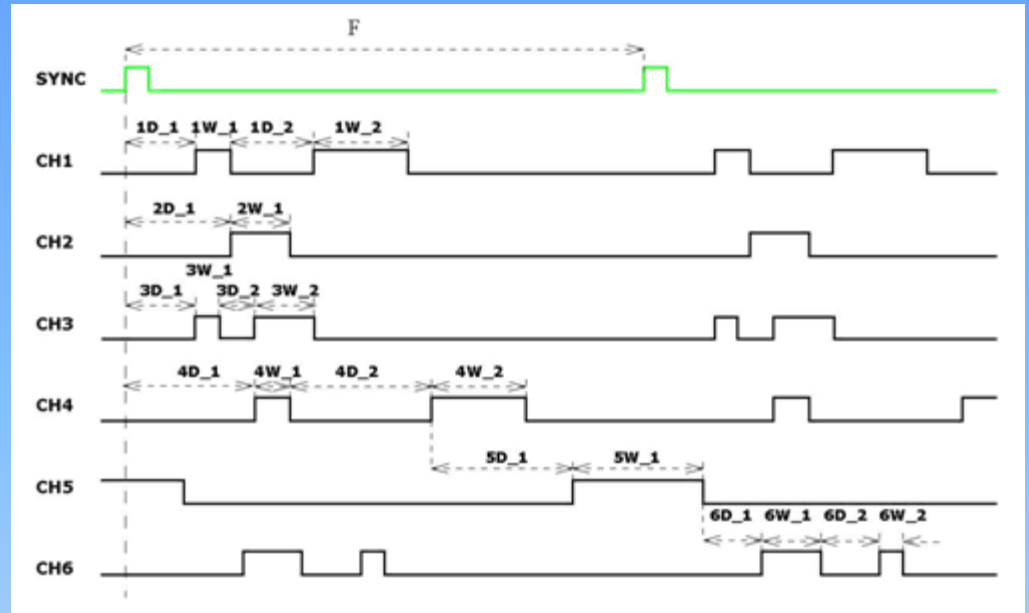
Features when used as a general-purpose 6-channel pulse generator

- Simple creation of pulse from 6 independent channels
- Seamless change
  - Parameters such as the frequency and pulse width can be changed seamlessly while the device is oscillating.
- Tracking feature
  - Parameters such as the pulse width and delay time can be changed for any combination of channels at the same time.
- Gap time control
  - The gap time between any combination of channels can be controlled easily.
- External modulation feature (DG-601 option)
  - Parameters such as the pulse width and delay time can be modulated by using an external signal.
- Running pattern control (DG-801 option)
  - A continuous running pattern test can be executed by controlling frequency.
- Synchronization of multiple devices (DG-602 option)
  - Pulse from three devices (18 channels) can be output synchronously by using the simple synchronization option.

# Examples of settings and output when creating pulses from 6 independent channels

The DG-8000 can be used to create pulses simply by specifying setting such as the trigger dependency for the 6 channels, the pulse width (WIDTH), and the delay (DELAY).

Different output level can be set for each channel.



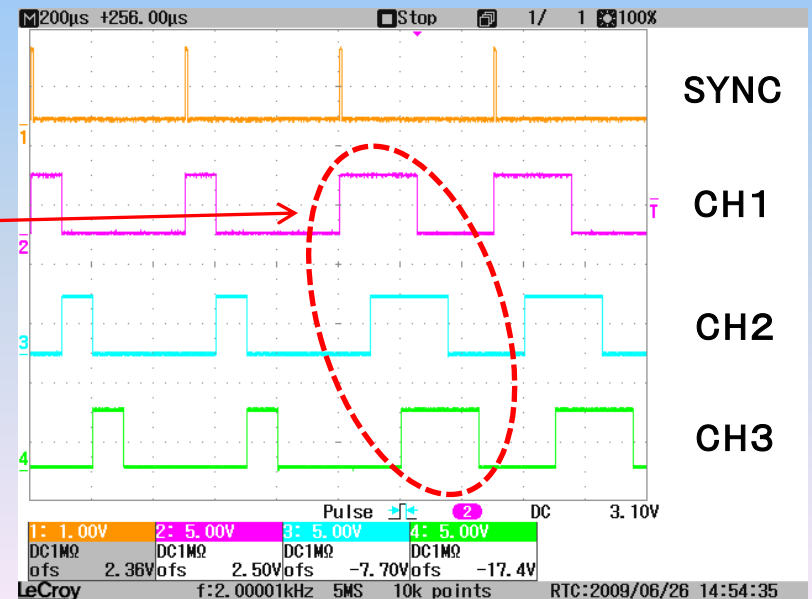
## Tracking feature

The parameters of any combination of channels can be changed at the same time. This feature is ideal for debugging.

**Example of output when pulse widths of channels 1 to 3 are changed simultaneously.**

## Seamless changing

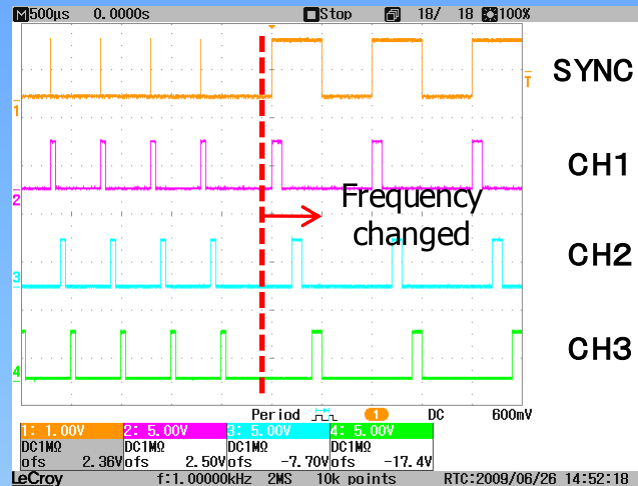
The pulse width can be changed seamlessly while the device is oscillating. This feature protects against malfunction during switching.



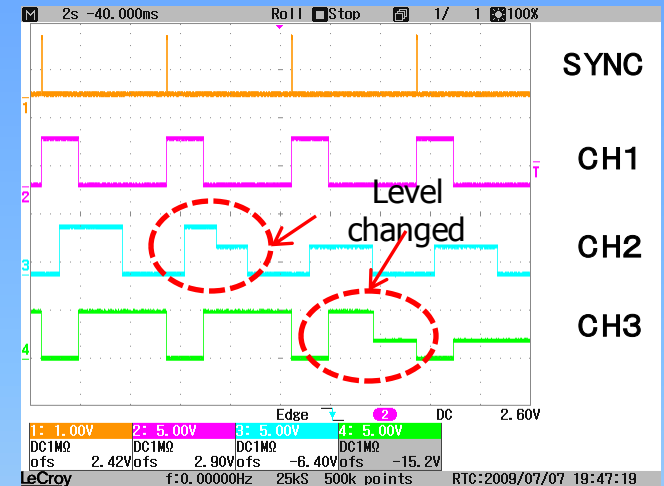
# Independent control of time axis and vertical axis

The time axis parameters and vertical axis parameters are controlled independently. Each parameter can be manipulated manually, or changed by using the remote command.

Example when frequency is changed

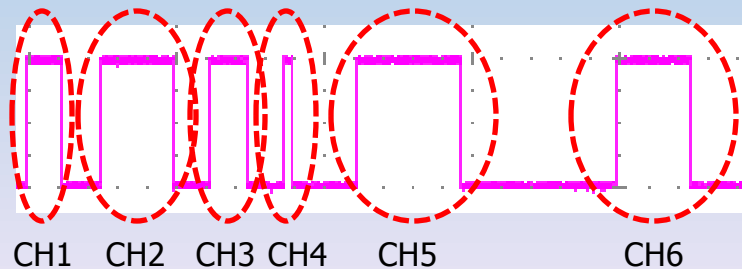


Example when output level is changed

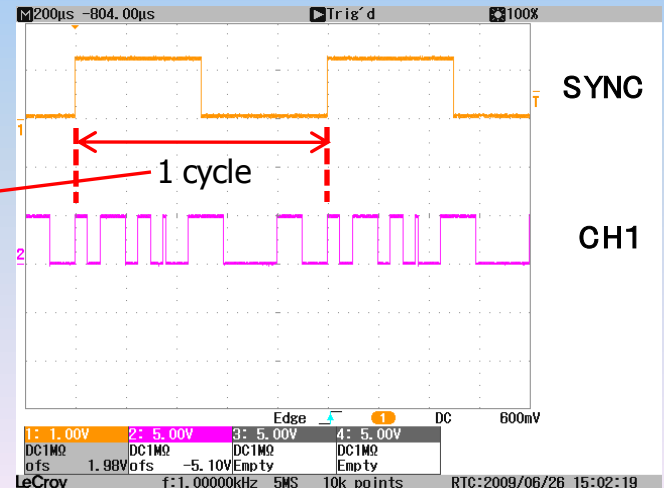


## Channel 1 can output ORed signals

Each channel can generate a double pulse, making the DG-8000 optimum for power device testing. Channel 1 can also output ORed pulses from specified channels.



Generating up to 12 pulses by specifying a simple parameter setting.



# Performance of 6-channel pulse generator

## Specifications

**Number of output:** 6CH (non-isolated)  
**Output level:**  $\pm 10V(\text{open}) / \pm 5V(50\Omega)$   
**ORed output:** specified channel from CH1 to CH6  
**Interface:** USB (Storage)  
LAN、GP-IB (Remote control)  
**Display:** 4.7-inch, color LCD  
**Output mode:** BASIC(6CH independent), INVERTER, PPG  
and running pattern  
※Models other than the BASIC mode are  
implemented by software options.  
**External modulation:** Option (Hardware)  
**Simple synchronization:** Option (Hardware)

### << Models and options >>

**Main unit**                    **DG-8000**

**Option**    **Software**                    **DG-801**    **Inverter/PPG option**  
                  **Software**                    **DG-802**    **Running pattern option**

**Hardware**                    **DG-601**    **External modulation option**  
                  **Hardware**                    **DG-602**    **Simple synchronization option**