

- 50pS Jitter Internal, 800pS External Trigger
- Programmable (Ethernet/USB/RS-232/GPIB)
- Independent clock rates for each channel
- 250pS Delay & Width Resolution



The Model 575 Digital Delay / Pulse Generator represents the latest in timing capabilities. With up to 8 outputs configurations as varied as the applications the product serves, the Model 575 is clearly our most versatile instrument. We have combined advanced features such as a Labview/USB interface, complex burst sequences, Divide-by-N, Setting Profiles, Dual Triggers, Clock Divider, Pulse Picking and Negative Delay with core technology in precision timing. Our 250pS Delay & Width resolution, and 50pS internal jitter, allow users great confidence in setting up an experiment or synchronizing multiple events.

New Features:

Illuminated Channel Enable Buttons

Each channel has a designated enable/disable button. When individual channels are active or enabled the buttons are illuminated. This allows for easy reference and avoids any confusion of output operability. The run/stop indicator on the front panel LCD display as well as an illuminated run/stop button further simplify setup.

Selectable Clock Reference

The Model 575 offers additional inputs and outputs for external clock syncing. Specify frequency (10MHz to 100MHz). Sync with the Mode Lock Oscillator of a laser, or phase lock multiple units with one clock.

Flexible Gating Options

The Model 575 is packed with gating options for almost any setup. You may gate with a channel or on any input. You may gate individual channels or gate all. Gate immediately (output inhibit) or gate after a pulse (pulse inhibit).

Individual Rates

Each channel can have individual channel rates (either To or any of the other channels..). This is similar to having a separate clock for each output.

Auto-Save

Forgot to save your settings? The Model 575 stores your setup configurations while powering down. Recall is automatic on power-up.

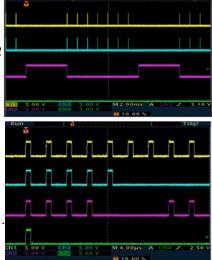
Dual Input Panel Connectors

The Model 575 offers two inputs for triggering or gating. User may specify electrical or optical input signals, and configure any trigger/gate combination. Use Trigger #2 to disable a triggered pulse train.

Front Panel Optical

Many applications benefit from optical signals. For noisy environments, or communications applications, we offer an LED output stage at the front panel. This modular option can be configured for 2, 4, 6 or 8 outputs at 820nm or 1300nm







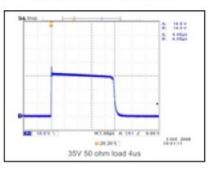
Front Panel High Voltage

Our modular architecture allows us to offer expanded functionality on user-selected front panel outputs. We offer a front panel High Voltage option (adjustable from 5v to 35V, 200 mV steps) on 2, 4, 6 or all 8 channels.

Combined Output Types

The outputs are configured in modules and output types are combined in pairs. Thus one may select optical, standard electrical or high voltage electrical in pairs for their instrument. For example, a 8 channel unit may have optical, standard electrical and high voltage outputs all on one instrument. Custom or additional output modules may be added as the need arises.

35v 50 ohm load 4us



Field Programmability:

Field Programmability

The instrument can now have functions upgraded in the field, such as a special or custom feature upgrade via a fully programmable FPGA.

Pulse Picking

Using an external modulation up to 100MHz, you may select 1 out of every X pulses for a given channel.

Customer Output Modes

Custom Modules such as the TZ-50 give users an expanded list of capabilities with the Model 575. One example is our TZ-50 option, which allows customers a TTL signal into 50 ohms.

Negative Delay

Use the handy negative delay feature to reference one channel with respect to another channel in positive or negative time increments. By allowing a channel to reference another channel as its trigger, you can synchronize the channels with respect to each other.







DELAYS		
Range	0-1000 s	
Resolution	250 ps	
Timebase	25 ppm	
RMS Jitter	50 ps	
Pulse Inhibit Delay	120 ns	
Output Inhibit Delay	50 ns	
SYSTEM EXTERNAL TRIGGER INPUT(S)		
Number	2 1	
Rate	DC to 1/(200ns + longest delay); maximum of 5MHz	
Threshold	0.2 to 15 VDC	
Max Input Voltage	60 V Peak	
Resolution	10 mV	
Slope	Rising or Falling	
Impedance	1 M ohm + 40 pF or 50 ohm	
Jitter	800 ps RMS	
Insertion Delay	100 ns	
GATE INPUT(S)		
Number	0 1	
Threshold	0.2 to 15 VDC	
Max Input Voltage	60 V Peak	
Resolution	10 mV	
Polarity	Active High/Active Low	
Function	Pulse Inhibit or Output Inhibit	
Channel Behavior	Global w/ Individual Channel Enables	
INTERNAL RATE GENERATOR		
Number	0.0002 Hz to 10.000 Mhz	
Resolution	5 us	
Accuracy	Same as timebase	
Jitter	50 ps	
Setting	1 cycle	
Burst Mode 1 to 10,000,000		
TTL/ADJUSTABLE OUTPUTS	O day 0 Obarral Ortanta	
Number	2, 4 or 8 Channel Outputs	
Impedance	50 ohm	
Pulse Width Range (TTL)	10 ns - 1000 s	
Rise Time (TTL)	3 ns typ 0.1 V/ns	
Slew rate (Adjustable) Overshoot		
	< 100 mV +10% of pulse amplitude	
Levels	TTL 0 to 4 VDC into high impedance *VAR adjustable amplitude, 2.0 to 20.0 VDC with 10 mV res, 20.0 VDC max transition into high impedance	

Rate DC to 1(0.2 us + longest delay) Threshold 0.2 to 15 VDC Max Input Voltage 60 V Peak Resolution 10 mV Impedance 1 M ohm + 40 pF or 50 ohm Function(s) Individual Channel Trigger Gate/Follower Trigger Slope Rising or Falling Gate Polarity Active High or Active Low Trigger Jitter < 2 ns OPTICAL OUTPUTS Number 2, 4, 8 Wavelength 820 nm or 1300 nm Max Signal Rate 5 M Bd Max Link Distance 1.5 km Connector Type ST Resolution 500 ps Accuracy 1 ns + .0001 x delay OPTICAL INPUTS Number 0 or 2 Wavelength 820 nm or 1300 nm Max Signal Rate 5 Mbd Max Link Distance 1.5 km Contector Type ST Resolution 500 ps Accuracy 1 ns + .0001 x delay OPTICAL INPUTS Number 0 or 2 Wavelength 820 nm or 1300 nm Max Signal Rate 5 Mbd Max Link Distance 1.5 km Connector Type ST Resolution 500 ps Accuracy 2 ns + .001 x delay Optical Trigger 2412 Trigger Delay < 300 ns Jitter < 15 ns STANDARD FEATURES/FUNCTIONS Communications USB/RS232 Global Gates/Triggers 2 Global Gate/Trigger Inputs Channel Gates/Triggers Optical/Electrical available (5 ns Jitter) External Clock out 10 MHz - 100 MHz User Selectable in discrete values	TI TOTRICAL INDUTO	
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Trigger Delay < 300 ns Jitter < 15 ns STANDARD FEATURES/FUNCTIONS Communications USB/RS232 Global Gates/Triggers 2 Global Gate/Trigger Inputs Channel Gates/Triggers Optical/Electrical available (5 ns Jitter) External Clock in 10 MHz - 100 MHz User Selectable in discrete values External Clock out 10 MHz - 100 Mhz User Selectable in discrete values	Accuracy	2 ns + .001 x delay
Jitter < 15 ns STANDARD FEATURES/FUNCTIONS Communications USB/RS232 Global Gates/Triggers 2 Global Gate/Trigger Inputs Channel Gates/Triggers Optical/Electrical available (5 ns Jitter) External Clock in 10 MHz - 100 MHz User Selectable in discrete values External Clock out 10 MHz - 100 Mhz User Selectable in discrete values	Optical Trigger	2412
STANDARD FEATURES/FUNCTIONS Communications USB/RS232 Global Gates/Triggers 2 Global Gate/Trigger Inputs Channel Gates/Triggers Optical/Electrical available (5 ns Jitter) External Clock in 10 MHz - 100 MHz User Selectable in discrete values External Clock out User Selectable in discrete values	Trigger Delay	< 300 ns
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External Clock out 10 MHz - 100 Mhz User Selectable in discrete values	External Clock in	10 MHz - 100 MHz
Command Set Compatibility Backwards Compatible	External Clock out	10 MHz - 100 Mhz
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