

CORDIN

SCIENTIFIC IMAGING

TIME DELAY GENERATOR

Model 458

- **Individual Channel Display**
- **High Voltage Output**
- **Low Jitter:** 2 nanoseconds
- **High Reliability**
- **Computer Control:** via USB interface



The **Cordin Model 458** Time Delay Generator is a very reliable and robust delay unit. It will produce eight channels of delayed output with delay ranges from 10 nanoseconds to 99.99 milliseconds. Delay values have a four digit resolution. The full range of delays is covered by four range settings; 00.00 milliseconds, 0.000 milliseconds, 00.00 microseconds and 0.000 microseconds. Pulse width of the output is selectable between 1.0 microseconds and 100 microseconds.

The delay value for each channel is constantly displayed on the front panel. This means the user does not need to scroll through various display settings in order to check the delays set for each channel.

The Model 458 produces TTL level (+5V) outputs on the front panel for each of the delay channels. It produces higher voltage outputs with the same timing at outputs on the back channel. The high voltage outputs are selectable from +30V, +60V, +90V and +120V.

Full control of the Model 458 can also be effected through a PC interface via USB connection. The graphical interface duplicates the layout of the front panel. Inputs made from the PC interface are updated and reflected on the front panel display, and vice versa.

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SPECIFICATIONS

Delay Channels	Eight	Response Time	~50ns from input trigger to T_0 on low voltage ~100 ns to T_0 on high voltage
Range	10 nanoseconds to 99.99 milliseconds	Jitter	± 2 ns
Trigger Input	+3.8V to +25V with rise time of 1 μ s per 5V	PC Control	Graphical interface via USB
Output	Rising or falling edge +5V on Front Panel +30V, +60V, +90V or +120V Rear Panel 1 μ s to 100 μ s width	Power Input	110-240 VAC 50-60Hz, 25 Watts
		Weight	7.5 kg (17 lbs.)

