

# CORDIN

S C I E N T I F I C I M A G I N G

## 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 454 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.

## SPECIFICATIONS

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

