

CORDIN

SCIENTIFIC IMAGING

TIME DELAY GENERATOR

Model 458

- **Eight Delay Channels**
- **Individual Channel Display**
- **High Voltage Output**
- **Low Jitter:** 500 picoseconds
- **High Reliability**
- **Computer Control:** via Ethernet 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 1 nanosecond to 999.999 milliseconds. Delay values have a six digit resolution. Pulse width of the output is selectable between 50 nanoseconds and 999.99 milliseconds.

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 Ethernet connection, using the included Cordin software control application. 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	~140ns from input trigger to T_0
Range	1 nanosecond to 999.999 milliseconds	Jitter	±500 ps
Trigger Input	+3.8V to +25V with rise time of 1µs per 5V	PC Control	Graphical interface via Ethernet (Requires MS Windows-based PC)
Output	Rising or falling edge +5V on Front Panel +30V, +60V, +90V or +120V Rear Panel (50 Ohm impedance on all) 50 ns to 999.999 ms width	Power Input	110-240 VAC 50-60Hz, 25 Watts
		Weight	7.5 kg (17 lbs.)

