CORDIN
SCIENTIFIC IMAGING

TIME DELAY GENERATOR

Model 454

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

The Cordin Model 454 Time Delay Generator is a very reliable and robust delay unit. It will produce four 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 454 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	Four
Range	10 nanoseconds to 99.99 milliseconds
Trigger Input	+3.8V to +25V with rise time of 1µs per 5V
	Rising or falling edge
Output	+5V on Front Panel +30V, +60V, +90V or +120V Rear Panel
	1 µs to 100 µs width
Response Time	~50ns from input trigger to T_0 on low voltage ~100 ns to T_0 on high voltage
Jitter	±2 ns
PC Control	Graphical interface via USB
Power Input	110-240 VAC 50-60Hz, 25 Watts
Weight	7.5 kg (17 lbs.)