CORDIN
SCIENTIFIC IMAGING

|TIME DELAY GENERATOR

Model 454

- **Four Delay Channels**
- **Individual Channel Display**
- **High Voltage Outputs**
- **Simple, Intuitive User interface**
- **High Reliability**
- **Computer Control:** via Ethernet 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 picoseconds to 999.99999 milliseconds. Delay values have an eight digit resolution. Pulse width of the output is selectable between 50 nano-seconds 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 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 volt-age outputs are selectable from +30V, +60V, +90V and +120V.

Full control of the Model 454 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	Four	**Response Time**	~20ns from input trigger to T_0
Range	10 picoseconds to 999.99999 milliseconds (in 10 ps steps)	**Jitter**	±500 ps
		PC Control	Graphical interface via Ethernet (Requires Windows-based PC)
Trigger Input	+3.3V to +25V with rise time of 1µs per 5V	**Power Input**	110-240 VAC 50-60Hz, 50 Watts
	Rising or falling edge		
Output	+5V on Front Panel +30V, +60V, +90V or +120V Rear Panel		
	(50 Ohm impedance on all)		
	50 ns to 999.999 ms width		

[17.7cm]
7.0in

[48.3cm]
19.0in

DATA INPUT

CHANNEL 1 CHANNEL 2 CHANNEL 3 CHANNEL 4

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[43.4cm]
17.1in

[46.7cm]
18.4in