

SI-4CDG



4 Channel Delay Generator



200MHz, System Clock

5ns Resolution

2 independent input channels

4 independent output channels

The Specialised Imaging 4 Channel Delay generator is built within a compact IP65 rated enclosure and utilises a 200MHz quartz system clock providing 5ns timing accuracy.

A range of acceptable signals allow the 2 independent inputs, and 4 independent outputs to trigger a range of peripheral devices, including Framing cameras, Ultra high-speed video cameras and flash, laser or strobe illumination systems.

FEATURES

- Ethernet communication
- 19" Rack mount option
- Software driven

TIMING PARAMETERS

System Clock	200MHz, quartz crystal controlled
Inherent Delay	50ns
Range	5ns to 1s in 5ns steps independently variable
Jitter (trigger)	5ns
Jitter (channel to channel)	<500ps

INPUT / OUTPUT SIGNALS

Input/trigger channels	2 (independent) Electrical signal (BNC connector) Threshold variable from $\pm 25V$ Positive or Negative polarity, Make/Break 50 Ω or 1K Ω termination
Output channels	4 (independent) +ve TTL (BNC connector) Pulse width user programmable 50 Ω termination
Control interface	100Mbps Ethernet
Software	Custom software compatible with Microsoft Windows Operating Systems for Control and data archiving.
Electrical input	Mains 100-240V AC 50-60Hz Battery option (inc. charger)

MECHANICAL

Dimension mm (w/d/h)	360mm x 200mm x 77mm (with handles)
Dimension inches (w/d/h)	14.17" x 7.87" x 3.03" (with handles)
IP rating	IP65
Weight	4Kg (8.8lbs)

ENVIRONMENTAL

Storage temperature	-10°C to +50°C
Operating Temperature	-5°C to +40°C
Humidity	10 - 90% RH non condensing
Vibration shock	10 - 40 Hz Max. 10g in any direction
EMC	Meets all UKCA/EU harmonised standards



Rack mount option

UK (Head Office / Factory)

6 Harvington Park,
Pitstone Green Business Park
Pitstone. LU7 9GX England

Tel +44 (0) 1442 827728

USA

Specialised Imaging Inc.
40935 County Center Dr. Suite D
Temecula, CA 92591, USA

Tel +1 951-296-6406

GERMANY

Hauptstr. 10,
82275 Emmering
Germany

Tel +49 8141 666 89 50