SI-4CDG

SPECIALISED IMAGING

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**

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4 Channel Delay Generator

SPECIALISED IMAGING

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)	0ns

INPUT / OUTPUT SIGNALS

Input/trigger channels	2 (independent) Electrical signal (BNC connector) Threshold variable from ±25V Positive or Negative polarity, Make/Break 50Ω or 1KΩ termination
Output channels	4 (independent) +ve TTL (BNC connector) Pulse width user programmable 50Ω 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)

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Quality Management

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