



# **Ballistic Velocity Measurement System**



# 3,330 measurements / second

## Up to 9,000 measurements storage

## **5ns Resolution**

The Specialised Imaging VT2 system performs time of flight and/or velocity measurements using 3 input channels.

Capture rates up to 3,330 measurements per second (200,000 rounds per minute) can be measured and up to 9,000 measurements can be stored locally in the Unit head.

The four independent Output channels can be used as a delay generator for other instrumentation to ensure correct triggering of framing, ultra high-speed and high speed video cameras.

# 3 independent input channels

4 independent output channels

## FEATURES

- □ Velocity measurement
- □ Time of flight measurement
- □ Ethernet communication
- □ Built in 4 channel delay generator
- □ Battery powered option
- □ 19" Rack mount option



#### **OPERATING PARAMETERS**

Measurements	Time of flight or Velocity
Max. rate of capture/fire	200,000 measurements/minute (3,330 Hz)
Max. storage	9,000 measurements (velocity or time of flight)

## **INPUT / OUTPUT SIGNALS**

3 (independent) Electrical signal (BNC connector) Threshold variable from ±25V Positive or Negative polarity, Make/Break 50Ω or 1KΩ termination
4 (independent) +ve TTL (BNC connector) Pulse width user programmable 50Ω termination
100Mbps Ethernet
Custom software compatible with Microsoft Windows Operating Systems for Control and data archiving.
Mains 100-240V AC 50-60Hz Battery option (inc. charger)

#### **TIMING PARAMETERS**

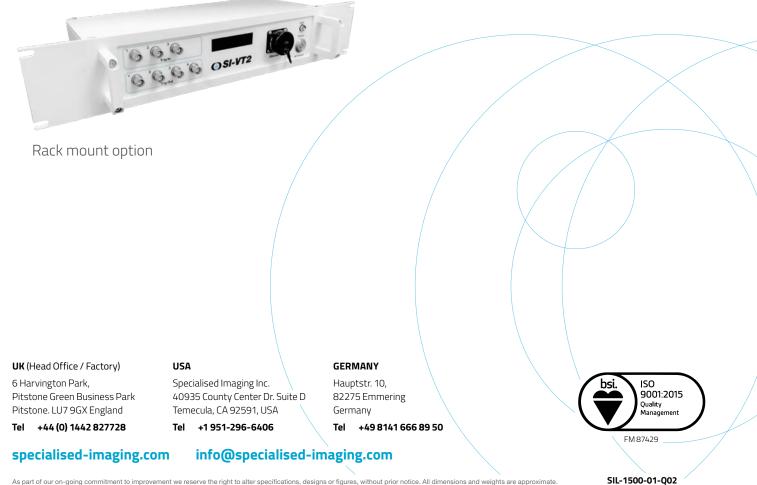
System Clock	200MHz, quartz crystal controlled
Inherent Delay	50ns
Range	5ns to 1s in 5ns steps independently variable
Jitter (trigger)	5ns
Jitter (channel to channel)	<500ps

#### MECHANICAL

Dimension mm (w/d/h) Dimension inches (w/d/h)	360mm x 200mm x 77mm (with handles) 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



As part of our on-going commitment to improvement we reserve the right to alter specifications, designs or figures, without prior notice. All dimensions and weights are approximate.