



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

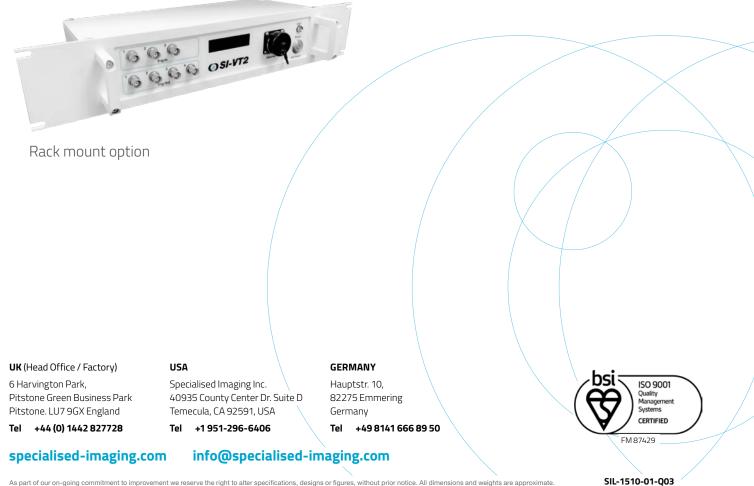
| System Clock | 200MHz, quartz crystal controlled |
|-----------------------------|---|
| Inherent Delay | 50ns |
| Range | 5ns to 1s in 5ns steps independently variable |
| Jitter (trigger) | 5ns |
| Jitter (channel to channel) | <500ps |
| | |

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.