



## **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



## **Ballistic Velocity Measurement System**



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	
Input/trigger channels	3 (independent) Electrical signal (BNC connector) Threshold variable from ±25V Positive or Negative polarity, Make/Break 50Ω or 1ΚΩ 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)

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)	Ons	

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)

-10°C to +50°C
-5°C to +40°C
10 - 90% RH non condensing
10 - 40 Hz Max. 10g in any direction
Meets all UKCA/EU harmonised standards



Rack mount option

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