



## **Ballistic Velocity Measurement System**

3,330 measurements / second

Up to 15,000 measurements storage

**5ns Resolution** 

3 independent input channels

4 independent output channels

The Specialised Imaging VT 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 15,000 measurements can be stored locally in the Unit head.

The four independent Output channels can be used as a trigger adjustment unit for ballistic events to ensure correct triggering of framing, ultra high-speed and high speed video cameras.



## **FEATURES**

- □ Velocity measurement
- ☐ Time of flight measurement
- ☐ Ethernet communication



## **Ballistic Velocity Measurement System**



## Measurements Time of flight or Velocity Max. rate of capture/fire 200,000 measurements/minute (3,330 Hz) Max. storage 15,000 measurements (velocity or time of flight)

INPUT / OUTPUT SI	GNALS
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 power	AC: 110-240V AC 50/60Hz or DC: 24V DC – Battery power

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) Inc. handles	23cm x 23 cm x 17cm (9.1" x 9.1" x 6.7")
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 EC harmonized standards

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