## Tracker<sup>2</sup>



## **Comprehensive High-Speed Linear Tracker System**





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Fixed Velocity	Single trigger using assumed initial velocity
Velocity	The scan is corrected using the measured velocity from 2 detectors.
Drag / Acceleration	The scan is corrected using the measured velocities and calculated drag from 3 detector inputs.
Pre-defined profile	Programmable Velocity vs Time curve. Triggered using single trigger. Used for non- linear projectile trajectories.
Position	The scan position is corrected by detector inputs
Advanced User Functions	Specialised Imaging is prepared to customise modes of operation to user requirements.
Skewed Geometry	Allows asymmetric scan

to 100 fined as the ratio of projectile velocity/ nd-off distance) of to +60 of the distance (distance from the line light to Tracker2)
2x standoff distance (distance from the line
,
2°
018°
required
x Standoff distance
) 100 m/s/m
- 5° depending on scan rate

ENVIRONMENTAL		
Storage temperature	-10°C to +74°C	
Operating temperature	-5°C to +50°C	
Warmup Period	Not Required	
Humidity	10 - 90% RH non-condensing	
Operational vibration	10G, 10-40Hz Max, any direction	
EMC	Meets all UKCA/EU harmonised standards	

MECHANICAL	
Dimensions mm (w/d/h)	1340 x 670 x 590 (without tripod)
Mount	Tripod Included

Detector In	BNC
Number of inputs	8
Trigger In	Make/Break, Positive or Negative edge, Threshold variable to $\pm$ 17V 50 $\Omega$ or 1K $\Omega$ termination
Camera Trigger	TTL positive pulse
Communication Interface	Data and command transfer via 1Gbps etherned cable length 100m (standard). Other lenths available 1000FX fibre optic ethernet link (up to 2Km) - optional
Software	Custom software compatible with Microsoft Windows Operating Systems for control and data archiving in various file formats
Electrical input	Mains 100-240V AC 50-60Hz

MIRROR	
Type	Optical flat elliptical Silicon Carbide Mirror
Size (HxW) mm	135 x 85 x 2

CONTROL UNIT		
System Clock	10MHz quartz crystal controlled	
Trigger Jitter	<1us	

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