



### MIRROR

Type	Optically flat elliptical surface silvered
Size (HxW) mm	135x85

### TRACKING

Scan Ratio (SR) (defined as the ratio of projectile velocity/stand-off distance)	0.1 to 100
Scanning range (Max.)	-50° to +50° (Active scan -45° to +45°)
Scanning Distance	>= 2x stand off distance (distance from the line of flight to SITT)
Scanning Accuracy	±0.2° (-45° to +50°)
Positional Accuracy	±0.02°
Calibration	Not required
Projectile Velocity	SR x Standoff distance
Projectile Drag	0 to 100 m/s/m
Acceleration Angle (defined as the angle required to accelerate the mirror from rest to full scanning speed)	1° - 5° depending on scan rate

### OPERATING MODES

Fixed Velocity	Single trigger using known velocity
Measured Velocity	Velocity measured using 2 detectors. (Scan starts a set distance after 2nd detector)
Pre-defined Profile	Programmable Velocity Vs Time curve. Triggered using single trigger. Used for non-linear projectile trajectories.
Advanced User Functions	Specialised Imaging is prepared to customise mode of operation tailored to user requirement.
Skewed Geometry	Allows non perpendicular operation

### CONTROL UNIT

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

### INPUT/OUTPUT SIGNALS

Number of Trigger Inputs	3
Detector In	19 way MIL-C-26482 standard detector interface Electrical signal (BNC connector)
Trigger In	Rising or falling edge pulse Make/Break
Camera Trigger	TTL Positive pulse
Communication Interface	Data and command transfer via 100Mbps ethernet Cable length 100m (standard), other lengths available 1000FX fibre optic ethernet link (up to 2Km) - optional
Software	Custom software compatible with Microsoft Windows Operating Systems for camera control, image data archiving in various file formats.

### 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
Vibration shock	10 - 40Hz Max. 10g in any direction
EMC	Meets all EC harmonized standards



BS EN ISO9001:2000 FM 87429