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THE OUEEN'S AWARDS

FOR ENTERPRISE: INNOVATION

2011



Detailed Specifications







FOR ENTERPRISE: INNOVATION 2011





Specifications subject to change without notice

MIRROR

Type Size (HxW) mm

TRACKING Scan Ratio (SR)

Scanning range (Max.) Scanning Distance Scanning Accuracy Positional Accuracy Calibration Projectile Velocity Projectile Drag Acceleration Angle Optical flat elliptical Silicon Carbide Mirror 135x85x2

	0.1 to 100 (defined as the ratio of projectile velocity/stand-off distance)
	-50° to +50 ° /-60° to +60 °
	>=2x standoff distance (distance from the line of flight to Tracker2)
	±0.2° (-45° to +50°)
	±0.02°
	Not required
	SR x Standoff distance
	0 to 100 m/s/m
	1° - 5° depending on scan rate
	(defined as the angle required to accelerate the mirror from
	rest to full scanning speed)
-	

OPERATING MODES

Fixed Velocity	Single trigger using known velocity
Velocity	The scan is corrected using the measured velocity from at least 2 of the 8 available detector inputs.
Position	The scan position is corrected from the detector inputs. Known velocity is assumed.
Drag	The scan is corrected using the measured velocity and drag from at least 3 of the 8 available detector inputs.
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 modes of operation to user requirements.
Skewed Geometry	Allows non perpendicular operation
CONTROL UNIT	
CONTROL ONIT	
System Clock Trigger Jitter	10MHz quartz crystal controlled <1us
IIIggel olle	<100

BNC

Make/break

TTL positive pulse

Rising or Falling Edge pulse

INPUT/OUTPUT SIGNALS

Detector In Trigger In

Camera Trigger Communication Interface

Software

ENVIRONMENTAL

Storage temperature Operating temperature Warmup Period Humidity Vibration shock EMC Custom software compatible with Microsoft Windows Operating Systems for control and data archiving in various file formats -10°C to +74°C -5°C to +50°C Not Required

Data and Command transfer via 1Gbps Ethernet

optic Ethernet link (up to 2Km) - optional

Cable length 100m (standard). Other lengths available 1000FX fibre

10 - 90% RH non-condensing 10 - 40Hz Max. 10g in any direction Meets all EC harmonized standards

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