

FLASH DETECTOR TYPE 726



The Flash Detection System type 726-010 provides an output signal in response to a brief light pulse. This can be used for the detection of muzzle flash, explosion or other similar brief event, which enables projectile exit time, time of flight to target and other parameters to be measured. The system can also be used to trigger other events via a BNC connector providing TTL output. This could include triggering camera or x-ray equipment.

The system comprises of a detector mounted on a photographic tripod that is connected, via a multi-way cable, to a Detector power unit Type 783 120AS. The Detector power unit provides the detector with power and allows adjustment of sensitivity. Signals are transmitted via cable up to 200m. The output pulse from the Detector power unit is then used for the required triggering. This pulse can be set to rising or fall edge with a pulse width of 1ms.

The system responds to light in the range 770nm to 1100nm, with the peak response at 900nm. The unit has a broad field of view and therefore a limited detection distance. For detection at greater distances, see the Flash Detector type 768.

Slow events, such as flicker from fluorescent lighting, are ignored by the system. A built in test facility in the system allows system function to be checked prior to operation.

Parts that can be supplied as follows.

IP 67 (water proof) Power supply. (Local use)
Detector power unit 783 120AS. (Remote use)

SPECIFICATION

Wavelength Spectral Range	770nm to 1100nm
Peak Spectral Response	900nm
Field of View	20°
Min detectable flash duration	3 microseconds
Min flash rise time	1500 candela/m ² per second
Min detectable flash duration at 5m	15 candela/m ²
Power supply	9 to 30Vdc (Furnished by a Detector power unit)
Environment	
Humidity	The unit is fully sealed against the ingress of moisture
Operating temperature	-25°C to +60°C
Dimensions	
Diameter	150mm
Length	290mm
Height	105mm