

COOKEScope Model 125

Very High Illumination Flash System

The COOKEScope Model 125 is ideal for taking photographs of high speed phenomena. It produces a very high illuminance flash of 100 Joules in a duration of 25 microseconds. A short recharge time of 20 seconds allows for repetitive flashing at rates up to 3 flashes per minute at full flash energy output. Illumination coverage over an area up to 2m x 1m is provided at a working distance of 4 m.

The plug-in quartz glass flash tube with reflector and lens is mounted in a robust, waterproof die-cast light weight metal housing. The housing contains all necessary components for powering and triggering the flash tube. The housing and base plate are swivel-mounted in the frame. In addition to stand alone operation, mounting holes at the bottom of the base plate allow for easy mounting to a tripod or customer supplied hardware.

The COOKEScope Model 125 requires little maintenance or care during its operation, and no special precautions are needed for storage of the system.



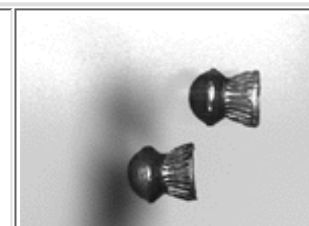
Missile: 100 mm projectile Sabot separation at 10 meters downrange from gun muzzle, velocity 1600 m/sec @ 2 μ sec gate.

SPECIFICATIONS

Flash Energy:	100 Joules
Duration:	25 \pm 5 μ s (half crest value)
Trigger:	+4 to -30V, 200 ns pulse width
Illuminated Area:	6 ft. x 3 ft. at 13 ft. (2 m x 1 m at 4 m)
Lamp Type:	Quartz glass xenon flash tube
Power Supply:	90 - 120VAC or 200 - 240VAC, 40 - 60 Hz User selectable
Recharge Time:	\leq 20 seconds
Status Lamp Indicators:	Full Charge and Power-on
Housing:	Ruggedized, waterproof aluminum construction
Operating Temperature:	32°F to 122°F (0°C to 50°C)
Storage Temperature:	-4°F to 158°F (-20°C to 70°C)
Mounting:	Free standing or tripod
Dimensions:	16 1/2 in. x 9 1/2 in. x 8 1/4 in. (W x H x D) (420 mm x 240 mm x 210 mm)
Weight:	Approximately 55 lb. (25 kg.)

ORDERING INFORMATION

COOKEScope Model 125, quartz glass xenon flash tube and instruction manual. Replacement flash tube Model 125T sold separately.



One pellet in flight: 500 nsec single exposure, field-of-view 1.5" x 2".

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