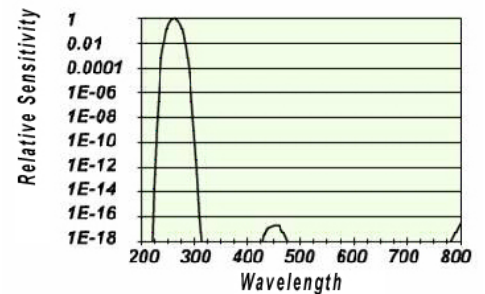


Solar Blind Imager SBI-2



THE **SBI-2** SOLAR BLIND UV IMAGER INCORPORATES A UV SENSITIVE ICCD CAMERA, A SPECIAL CATADIOPTRIC UV LENS AND AN ALL ABSORPTION TYPE SOLAR BLIND FILTER TO ACHIEVE AN IMAGING SYSTEM THAT IS ABSOLUTELY SOLAR BLIND. THE **SBI-2** OPTICS AND DETECTOR ARE SIMILAR TO THOSE IN THE UV CHANNEL OF THE DAYCOR®II CAMERA.

LIKE THE DAYCOR®II, THE **SBI-2** SHOWS NO RESPONSE TO SOLAR RADIATION EVEN WHEN LOOKING DIRECTLY TO THE SUN AT NOONTIME DURING THE SUMMER. THE HIGH SENSITIVITY TO UV IN THE SOLAR BLIND RANGE (250-280 NM) MAKES THE **SBI-2** A USEFUL TOOL FOR DETECTION OF THE WEAKEST UV SIGNALS.

THE **SBI-2** IMAGER IS USEFUL FOR IMAGING VARIOUS UV SOURCES IN FULL DAYLIGHT. TYPICAL APPLICATIONS ARE: FIRE DETECTION, INCLUDING INVISIBLE HYDROGEN AND ALCOHOL FLAMES, MONITORING OF HV EQUIPMENT FOR CORONA DISCHARGES, MISSILE PLUME DETECTION, DETECTION OF SMALL ARMS MUZZLE FLASHES, DETECTION OF LEAKAGES OF UV RADIATION FROM LAMPS AND UV STERILIZATIONS DEVICES ETC....

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Sensor

Solar blind	Dark current equivalent response, when looking directly to the sun
Sunlight Rejection	Target can be inspected with sun in field of view
UV Sensitivity	3×10^{-18} watt/cm ²
Photo Cathode Quantum Efficiency @ 260 nm	> 25%

Optics

Lens type	Catadioptric Lens for compact 5° optic
Field of View H x V	5° x 3.75°
Focal Length	165mm
F number	2.69
Optics Transmission	>80%
Focus Distance	3 meters to infinity; with set of close-up lenses: 0.5-3m (optional)
UV Light Collection Area	19 cm ² for maximum sensitivity

Filter

Solar blind Filter Transmission	> 12%
Maximum Transmission	260nm, 15nm FWHM

Operation

UV Gain	Continuously variable, to enhance detectivity
Video Output	Composite PAL or NTSC signal via a BNC socket
Power in	12V DC regulated
Maximum Storage and Working Temperature	+55°C

Mechanical

Weight	3.5 Kg
Size	Length: 245mm Height: 140mm Width: 150 mm