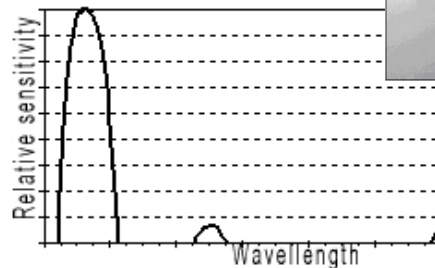




## Solar Blind Imager SBI-1



THE **SBI-1** SOLAR BLIND UV IMAGER INCORPORATES A UV SENSITIVE ICCD CAMERA, A UV LENS AND AN ALL ABSORPTION TYPE SOLAR BLIND FILTER TO ACHIEVE AN IMAGING SYSTEM THAT IS ABSOLUTELY SOLAR BLIND. THE HIGH SENSITIVITY TO UV IN THE SOLAR BLIND RANGE (250-280 nm) MAKES THE **SBI-1** A USEFUL TOOL FOR DETECTION OF WEAK UV SIGNALS IN FULL DAY-LIGHT.

TYPICAL APPLICATIONS ARE: FIRE DETECTION, INCLUDING INVISIBLE HYDROGEN AND ALCOHOL FLAMES, MONITORING OF HV EQUIPMENT FOR CORONA DISCHARGES, MISSILE PLUME DETECTION, DETECTION OF LEAKAGES OF UV RADIATION FROM LAMPS AND UV STERILIZATIONS DEVICES ETC ..

Ofil Ltd  
13a Einstein St  
Nes Zionna, Science Park  
P.O.Box 4016  
Nes Ziona, Israel, 74140  
Phone: +972-8-9407953  
Fax: +972-8-9407873  
E-mail: ofil@ofilsystems.com  
www.ofilsystems.com

Sensor	
Solar blind	Dark current equivalent response in daylight
Sunlight Rejection	Target can be inspected with the sun in the field of view
UV Sensitivity	$6 \times 10^{-17}$ watt/cm <sup>2</sup>
Photo Cathode Quantum Efficiency @260 nm	25%
Optics	
Field of View H x V	11° x 8°
Focal Length	105mm
F number	4.5
Optics Transmission	>80%
Focus Distance	0.5 meter to infinity
UV Light Collection Area	~5 cm <sup>2</sup>
Filter	
Maximum Transmission	260nm, 15nm FWHM
Solar Blind Filter Transmission	>12%
Operation	
UV Gain	Variable continuous, to enhance detectivity
Video Output	Composite PAL or NTSC signal via a BNC socket
Power	12V DC regulated
Maximum Storage and Working Temperature	+55°C