



### MVS-142-2027, 142-2067 and 142-2200 SERIES

The MVS-2027, 2067 and 2200 Machine Vision Strobe systems produce short duration, high intensity light pulses for industrial vision applications. When coupled to a CCD/CID camera system the MVS-2027, 2067 or 2200 "freezes motion", eliminates blur from the camera image and enhances image quality.

The three models are identical in every respect except the MVS-2067 and MVS-2200 provide higher flash repetition rates at lower flashlamp input energies than the MVS-2027. Each unit is contained in a robust industrial enclosure with two connectors, one for the input power line and the other for signal level inputs.

The Xenon light output is focused onto a port configured for mounting one end of a Fiber Optic Bundle so that the light can be projected to an area remote from the instrument. Various fiber optic bundles, nosepieces and adapters are available to interface the fiber cable to the strobe enclosure.

### MVS 142-2027,142- 2067, 142-2200 SPECIFICATIONS

Optical Specifications			
	MVS-142-2027	MVS-142-2067	MVS-142-2200
Spectral Bandwidth	350 - 1100 + nm	350 - 1100 + nm	300 - 1100 + nm
Photometric Output (1)	6 lumen-sec	3 lumen-sec	1.2 lumen-sec
Radiometric light output (1)	50 mJ	25 mJ	10 mJ
Flash rate per second	20 max	60 max	200 max
Input energy per flash (2)	2.16 joules	0.72 joules	0.18 joules
Light output pulse duration (3)	20 µsec	12 µsec	5 µsec
Flashlamp life	>10 <sup>8</sup> flashes maintaining > 70% light output		
Fiber bundle diameter	0.2 to 0.5 inches (5 to 13 mm)		
Electrical Specifications			
Line input voltage (4)	115/230 Vac ± 10%, 50/60 Hz (factory set at 115 Vac)		
Input current	1.2 amps rms max.		
Intensity control input (5)	2 - 6 Vdc (Vref : Vlamp = 1 : 100)		
Trigger Input			
Trigger	5 Volt pulse into 4N36 opto-isolator with 150 ohm nominal series resistor		
Pulse duration (1)	10 to 100 µsec		
Environmental Specifications			
Operating temperature	-10 to + 104°F (-23 to +43°C)		
Shock and vibration	1.5 G, 5 to 200 Hz per MIL-STD-810C		

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