

MVS-142-7000 Series High Intensity Xenon Strobes



The MVS-7000 Series represents a breakthrough in light output performance and versatility in Machine Vision Strobes. These high intensity strobes incorporate latest innovation in flashlamp technology and reflector design. The MVS-7000 series delivers over 40% more light output per watt than our MVS-2027 series - taking its place as the new industry standard...The Xenon Flashlamp produces intense pulses of radiant energy covering the ultraviolet (UV), visible (VIS) and near infrared (NIR). When coupled to a CCD/CID camera system, the strobe "freezes motion" which eliminates blur and enhances image quality. Several variations of the MVS-7000 series are available, each optimized for maximum light output at a specific flash rate. External signal inputs allow you to further customize the strobe to your application. The MVS-7000 series is certified to the latest European CE directives for Safety and Emission. The universal AC power supply recognizes AC voltages from 90V to 230V ($\pm 10\%$) with line frequencies from 50 - 60 Hz. The xenon flashlamp is housed in a field replaceable module.

Optical Specifications (1)			
	MVS-142-7010 (2)	MVS-142-7020	MVS-142-7060
Maximum flash rate (3)	10 Hz (22 - 6 Hz)	20 Hz (45 - 13 Hz)	60 Hz (135 - 38 Hz)
Input energy per flash (4)	4.3 J (1.9 - 6.8 J)	2.2 J (1.0 - 3.4 J)	0.7 J (0.3 - 1.1 J)
Light output flash duration (5)	20 μ sec	10 μ sec	8 μ sec
Photometric light output (6)	45 lumen-sec	26 lumen-sec	10 lumen-sec
	(7) 28 lumen-sec	16 lumen-sec	7 lumen-sec
	(8) 14 lumen-sec	7 lumen-sec	3.5 lumen-sec
Radiometric light output (6)	340 mJ	190 mJ	75 mJ
	(7) 210 mJ	120 mJ	50 mJ
	(8) 110 mJ	55 mJ	25 mJ
Spectral bandwidth	250 - 1100 + nm		
Note: High intensity may cause damage to plastic fiber optic light guides. Contact the manufacturer for temperature limits.			
Electrical Specification			
Input voltage	90 - 230 Vac ($\pm 10\%$), 50 - 60 Hz		
Maximum output power	43 W		
Input current (rms)	1 A @ 115 Vac		
Flashlamp voltage (9)	400 - 750 Vdc		
Remote intensity control	5 - 10 Vdc (Vref: Vlamp = 1 : 75)		
External trigger input (10)	+5 V TTL pulse, 20 mA, > 10 μ sec (into a 4N36 opto-isolator)		
Environmental Specifications			
Operating temperature	-10 to +110°F (-23 to +43°C)		
Storage temperature	-40 to +194°F (-40 to + 90°C)		