



MV SERIES FIBER OPTIC STROBOSCOPES

The CheckLine® MV Series provides strobe illumination in harsh environments. It's ultra-bright light, rugged construction, reliable operation and make it ideal for virtually any machine vision application.

Ultra-Bright Light Source

The MV Strobe's ultra-bright Xenon flashtube provides the industry's highest light output per watt. It delivers intense, consistent light pulses covering the ultraviolet (UV), visible (VIS) and near infrared (NR) spectrums.

Rugged Construction

The MV Strobe shines in demanding, production applications. It features the most advanced flash-tube technology, power supply engineering trigger performance and reflector design—enclosed in a rugged, heat-dissipating steel enclosure. Quick and easy flash-tube replacement maximizes uptime in multi-shift environments.

Versatile Performance

The MV Series is available in three base models; each optimized for maximum light output within a range of flash rates.

Variable intensity control and external signal inputs allow you to further customize the strobe to your application.

Light output is directed to a port that accepts a wide variety of fiber optic components to suit a wide range of applications.

Complete Customization Available

Electromatic's experienced design engineers can work with you to develop a custom machine vision solution that meets your specific application and packaging requirements.

- ▲ Xenon flash tube delivers consistent, high-intensity light covering ultraviolet (UV), visible (VIS) and near infrared (NR) spectrums
- ▲ Variable intensity control allows light intensity to be matched to the application
- ▲ Compact, rugged enclosure meets protection class IP 64 specifications
- ▲ Adapters up to 1" diameter are available to fit most fiber optic bundles
- ▲ Easy flashtube replacement
- ▲ Inputs for external trigger and light intensity control
- ▲ 1 Year Warranty

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Specifications

Model	MV-6010	MV-6020	MV-6060	MV-60200
Radiometric Light Output	210 mJ	120 mJ	50 mJ	25 mJ
Flashrate @ 600V	10 Hz*	20 Hz*	60 Hz*	200 Hz*
Pulse Duration @ 1/3 peak	30 µsec	15 µsec	10 µsec	7 µsec
Discharge Capacitor	30 µF	12 µF	4 µF	2 µF
Input Energy Per Flash @ 600 V	5.41 joules	2.16 joules	0.72 joules	0.36 joules
Light Source	Xenon			
Spectral Bandwidth	<u>Standard:</u> 400–850 nm <u>Custom:</u> 225–1100 nm			
Fiber Bundle Outside Diameter	1.0 inch (25mm) max			
Input Voltage	120/230 VAC ± 10%, 50/60 Hz			
Input Power	60 Watts			
Trigger Input	+ 5 V, 20 mA, 10–100 µsec pulse (into an optoisolator with internal 150 ohms nominal series resistor)			
Flash Lamp Voltage (factory set)	600 VDC			
Delay Between Flash Command And Light Output	<10 µsec (typ)			
Ext Ref. Voltage	1 to 6 volts DC ($V_0 - V_{ref} \times 60$)			
Storage Temperature	–40 to 194 °F (–40 to 90 °C)			
Operating Temperature	32 to 104 °F (0 to 40 °C)			
Dimensions (L x H x W)	12.5" x 6.25" x 7.5" (318 x 160 x 190mm)			
Weight	13.4 lbs. (6 Kg)			
Warranty	1 year			

* Flashrates can exceed value shown, however, light output will be reduced.

Specifications subject to change without notice.

Specially designed for industrial vision applications, CheckLine MV Series Fiber Optic Stroboscopes can be custom configured for all inspection applications requiring high intensity, short duration light pulses.



OEM Chassis Configuration



Drawn Steel Enclosure

CHECK•LINE® – PRECISION QUALITY CONTROL INSTRUMENTS

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