# MACHINE VISION CHECK-LINE





### MV SERIES FIBER OPTIC STROBOSCOPES

The CheckLine® MV Series provides strobe illumination in harsh environments. It's ultrabright 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 deliveries 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 flashtube technology, power supply engineering trigger performance and reflector design—enclosed in a rugged, heat-dissipating steel enclosure. Quick and easy flashtube replacement maximizes uptime in multi-shift environ-

#### 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

## MV SERIES FIBER OPTIC STROBOSCOPES

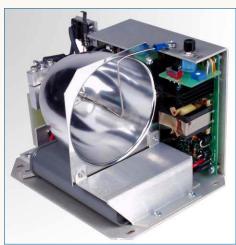
Specifications				
Model	M V-6010	M V-6020	M V-6060	M V-60200
Radiometric Light Output	210 mJ	120 mJ	50 mJ	25 mJ
Flashrate @ 600V	10 Hz*	20 Hz*	60 Hz*	200 Hz*
Pulse Duration @ 1/3 peak	30 µsec	15 µsec	10 µsec	7 μsec
Discharge Capacitor	30 μF	12 μF	4 μF	2 μF
Input Energy Per Flash @ 600 V	5.41 jules	2.16 jules	0.72 jules	0.36 jules
Light Source Xenon				
Spectral Bandwidth		<u>Standard:</u> 400-850 nm <u>Custom:</u> 225-1100 nm		
Fiber Bundle Outside Diameter	1.0 inch <i>(25mm)</i>	1.0 inch <i>(25mm)</i> max		
Input Voltage	120/230 VAC ± 10%	120/230 VAC ±10%, 50/60 Hz		
Input Power	60 Watts	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	600 VDC		
Delay Between Flash Command And	<10 µsec (typ)	<10 µsec (typ)		
Ext Ref. Voltage	1 to 6 volts DC (VC	1 to 6 volts DC (V0 – Vref x 60)		
Storage Temperature	–40 to 194 °F <i>(– 4</i>	-40 to 194 °F (- 40 to 90 °C)		
Operating Temperature	32 to 104 °F (0 to	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)				
<b>Weight</b> 13.4 lbs. (6 Kg)				
Warranty	1 year	1 year		

<sup>\*</sup> 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

Electromatic Equipment Co., Inc.

600 Oakland Ave.

Cedarhurst, N Y 11516 — USA

**Tel:** (800) 645-4330 (USA & Canada)

Tel: (516) 295-4300

**Fax:** (516) 295-4399

Email: info@checkline.com Website: www.checkline.com

FOR ADDITIONAL INFORMATION OR TO PLACE AN ORDER CALL TOLL FREE 1-800-645-4330