

**Macro**



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# VS-MCA **RUGGEDIZED** SERIES

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A hexagonal body perfectly fit for torque control.

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Ruggedized Vibration Resistant Lens Series

## Vibration Resistant Ruggedized Macro Lenses with a Hexagonal Body



### Features

The VS-MCA series is especially designed to stay in focus regardless of vibration or shock. Each lens is available with a preset fixed open iris, F5.6, or F8.0. A screw lock mechanism is able to not only deliver a high quality image, but also maintain the quality throughout the vision systems use.

Model	Focal Length	Magnification	WD(mm)	Max Sensor
VS-MCA4	4	( $\infty$ ) 0.01x - 0.04x	403.2 - 92.7	1/2"
VS-MCA6.5	6.5	( $\infty$ ) 0.01x - 0.06x	656.0 - 98.0	1/2"
VS-MCA10	10	( $\infty$ ) 0.02x - 0.15x	504.1 - 59.9	1/2"
VS-MCA15	15	( $\infty$ ) 0.03x - 0.3x	490.7 - 40.3	2/3"
VS-MCA20	20	0.04x - 0.4x	516.8 - 50.7	2/3"
VS-MCA25	25	0.05x - 0.5x	514.6 - 55.6	2/3"
VS-MCA30	30	0.06x - 0.45x	513.5 - 80.1	2/3"
VS-MCA35	35	0.26x - 0.65x	163.9 - 83.1	2/3"
VS-MCA50	50	0.08x - 0.48x	633.6 - 128.7	2/3"
VS-MCA75	75	0.14x - 0.62x	562.9 - 153.8	2/3"

### Advantages



Hexagonal body for easy adjustments

The hexagonal body of the lens makes it easy for anyone to correctly lock the lens into a camera with the use of a standard wrench or torque wrench. With a torque wrench it is possible to precisely tighten the lens to a camera with a specific amount of torque. It is then possible to replicate the same exact tightness in other vision systems using the VS-MCA lens series.

#### Standard Lens Vibration and Shock Test Results

##### Sweep test.

Acceleration	5G
Frequency	5-500HZ
Time	10min X 3axis
Amplitude	1.0-2.0mm

##### Fixed frequency test.

Acceleration	5G
Frequency	5-500HZ
Time	10min X 3axis
Amplitude	1.0mm

##### Shock impact test.

Acceleration	30G
Pulse width	8mm
Time	20min X 3axis

#### VS-MCA Series Vibration and Shock Test Results

##### Sweep test.

Acceleration	20G
Frequency	5-500HZ
Time	32min X 3axis
Amplitude	1.0-2.0mm

##### Fixed frequency test.

Acceleration	20G
Frequency	2000HZ
Time	32min X 3axis
Amplitude	4.0mm

##### Shock impact test.

Acceleration	75G
Pulse width	8mm
Time	90min X 3axis