

VS-MCA **RUGGEDIZED** SERIES

A hexagonal body perfectly fit for torque control.



Ruggedized Vibration Resistant Lens Series

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

Advantages



The hexagonal body of the lens makes it easy³ 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.



check out the demo video of the VS-MCA series on vst.co.jp

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