



Machine Vision

Lens & Lighting Controller



AOI



Robot Arm



Measurement



CCTV





ABOUT DELTA

Delta was founded in 1971 and has been the global leader in switching power supply solutions since 2002 and DC brushless fans since 2006. Delta offers some of the most energy efficient power products in the industry, including switching power supplies with efficient over 90%, telecom power with up to 98%, and PV inverters with up to 98.8% efficient. We have also developed the world's first server power supply certified as 80 Plus Titanium with over 96% efficient. We regularly invest 6% to 7% of our annual sales revenues in R&D and have worldwide R&D facilities in Taiwan, China, Europe, India, Japan, Singapore, Thailand, and the U.S.

BUSINESS CATEGORIES



Power Electronics

- Components
- Embedded Power
- Fan & Thermal Management
- Automotive Electronics
- Merchant & Mobile Power

Innergie



Automation

- Industrial Automation
- Building Automation



Infrastructure

- ICT Infrastructure
- Energy Infrastructure & Industrial Solutions

vivitek
WIDE COOL VIVO LIFE

 **DELTA**
Smarter. Greener. Together.

Future is in Front of You

| Industrial Vision

- More than 20 years of lens R&D experience
- Committed to quality and reliability
- Diverse options of the lens to fulfill a wide range of applications



Lens

Delta develops highly competitive industrial lenses, based on years of experience in lens. We offer a diverse range of lenses including the anti-shock lens that meet customer needs and we will continue to develop high-performance lenses that are more accurate and suitable for every application.



Lighting Controller

Lighting controllers play a key role in machine vision applications. Delta offers compact, high-power output controllers in Ethernet or RS-232 models to support a full range of industrial applications.



INDEX

Line and Area Scan Lens	06 - 09
FA Lens	10 - 15
FA Lens (Anti-Shock)	16 - 17
Telecentric Lens	18
Zoom Lens	19
Lighting Controller	20 - 25
Selection Guide	26 - 27
FOV Table	28 - 33

VF Series

Features

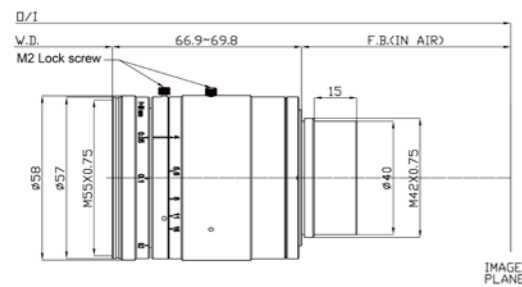
- High-resolution optical design for 5µm pixel
- Low distortion for better image quality
- -10°C to +50°C operating temperature (suitable for use in harsh environments)
- Support extensive focal length line-up
- Support Linscan 12K and Aerascan 65M
- for M42 · M58 · M72 · F-mount



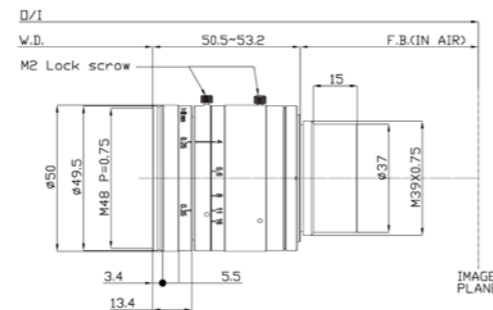
Specifications

Model Name	MV-LVF804003 A			MV-LVF804005 A		
Focal Length (f)	80 mm					
Image Circle	62 mm					
Optical Mag. Range	0.05x ~ 0.3x			0.25x ~ 0.5x		
Optical Mag.	0.05x	0.2x	0.3x	0.25x	0.35x	0.5x
Working Distance	1635.5 mm	429.6 mm	291.1 mm	345 mm	288 mm	184.3 mm
O/I (Object to Image)	1776.4 mm	584.4 mm	455 mm	495 mm	413.4 mm	357.1 mm
Aperture	F/4 ~ F/16					
Optical Distance (Y=31mm)	0.01%					
Operation	Manual					
Wavelength	Visible					
Mount	V-Mount					
Flange Back	74mm ~ 94.1 mm			99.5mm ~ 119.6mm		
Filter Thread	M55 x P=0.75			M48 x P=0.5		
Weight	300 g			225 g		
Dimension	Ø58 x 71.3 mm			Ø50 x 55 mm		

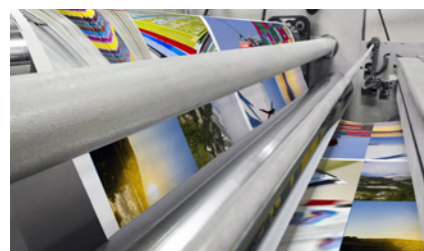
MV-LVF804003 A



MV-LVF804005 A



Applications



Printing Inspection



Solar Cell Inspection



Display Inspection

FF Series

Features

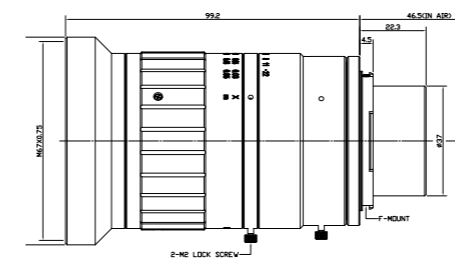
- High-resolution optical design for 3.2µm pixel
- F-mount designed lens suitable for line and area scanning cameras
- Large aperture and low distortion for better image quality
- Support Linscan 4K and Aerascan 45M



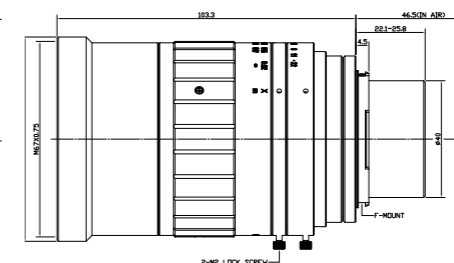
Specifications

Model Name	MV-LFF2528 A	MV-LFF3528 A	MV-LFF5028 A	MV-LFF7528 A
Focal Length (f)	25 mm	35 mm	50 mm	75 mm
Pixel Size	3.2 µm			
Image Circle	32 mm			
Working Distance	170 ~ 1700 mm	200 ~ 1900 mm	220 ~ 2000 mm	340 ~ 1550 mm
Iris Range	F/2.8~F/22			
TV Distortion	1.4%	0.7%	0.6%	0.17%
Operation	Manual			
Wavelength	Visible			
Mount	F-mount			
Flange Back	46.5 mm			
Filter Thread	M 67 x P=0.75			
Weight	600 g	590 g	580 g	560 g
Dimension	Ø70 (max.) x L = 121 mm	Ø70 (max.) x L = 129.1 mm	Ø70 (max.) x L = 119.2 mm	Ø70 (max.) x L = 121.6 mm

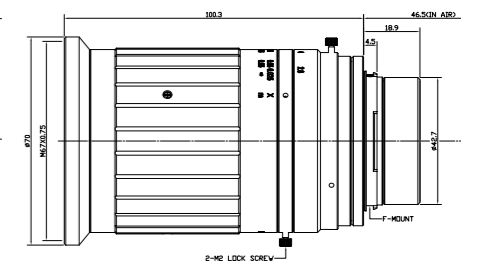
MV-LFF2528 A



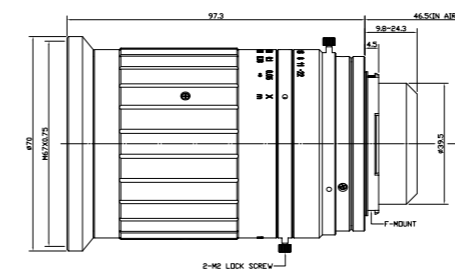
MV-LFF3528 A



MV-LFF5028 A



MV-LFF7528 A



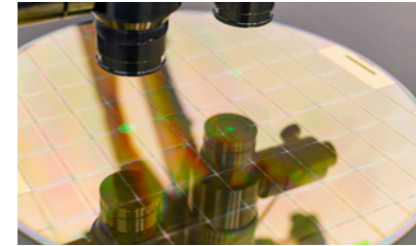
FF Series

Features

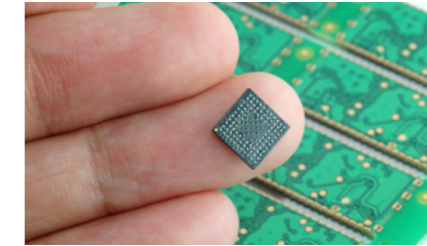
- F-mount designed lens suitable for line and area scanning cameras
- Large aperture and low distortion for better image quality
- Near infrared lens for penetrative inspection (MV-L043LR0050 A)



Applications



Wafer Inspection



BGA Inspection



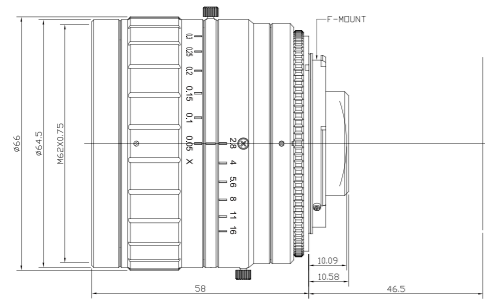
Solar Cell Inspection

Specifications

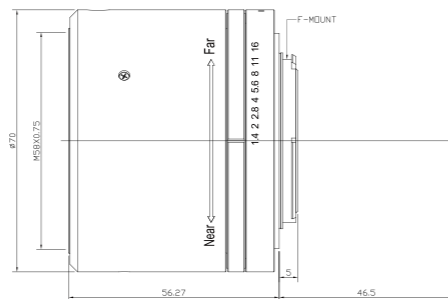
Model Name	MV-L045LF0050 A			
Focal Length	50 mm			
Optical Mag. Range	0.05 X - 0.3 X			
Optical Mag.	0.05 X	0.1 X	0.2 X	0.3 X
Working Distance	1025.0 mm	513.7 mm	261.9 mm	181.4 mm
O/I (Object to Image)	1129.5 mm	618.2 mm	366.4 mm	285.9 mm
Aperture	F 2.8 - 16			
Working F/#	3.1	3.2	3.5	3.8
DOF at PCoC Ø0.04mm	103.6 mm	28.1 mm	8.28 mm	4.3 mm
Optical Distortion	0.02 %			
Wavelength	Visible			
Mount	F - mount			
Flange Back	46.5 mm			
Image Circle	Ø 45 mm			
Filter Thread	M 62 P=0.75			
Weight	345 g			

Model Name	MV-L046LF0085 A			
Focal Length	85 mm			
Optical Mag. Range	0.1 X - 0.35 X			
Optical Mag.	0.1 X	0.2 X	0.3 X	0.35 X
Working Distance	846.2 mm	451.3 mm	318.5 mm	285 mm
O/I (Object To Image)	1003.7 mm	590.8 mm	457.9 mm	425.5 mm
Aperture	F 4 - 16			
Working F/#	4.4	4.9	5.4	5.6
DOF At Pcoc Ø0.04mm	36.8 mm	11.1 mm	6.1 mm	4.98 mm
Optical Distortion	0.01%			
Wavelength	Visible			
Mount	F-mount			
Flange Back	46.5 mm			
Image Circle	Ø 50 mm			
Filter Thread	M 52 P=0.75			
Weight	380 g			

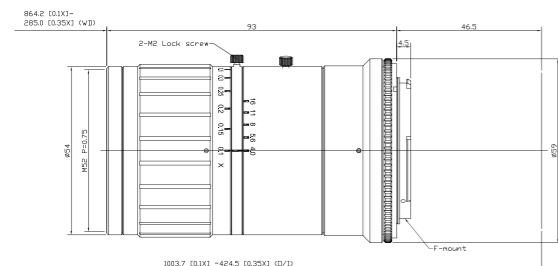
MV-L045LF0050 A



MV-L043LR0050 A



MV-L046LF0085 A



Model Name	MV-L043LR0050 A
Focal Length	50 mm
Optical Mag. Range	0.07 X ~ ∞
Working Distance	733.5 mm
Aperture	F 1.4 - 16
Spectral Range	900 ~ 1350 nm
Mount	F-mount
Image Circle	Ø 43 mm
Filter Thread	M 58 x 0.75
Weight	470 g

MF Series

Features

- High-resolution optical design for 3.45µm pixel
- Low distortion for better image quality
- -10°C to +50°C operating temperature, suitable for use in harsh environments
- Support extensive focal length line-up
- 1.1", 2/3", 1/1.8", 1/2" sensor options cover a widerange of applications



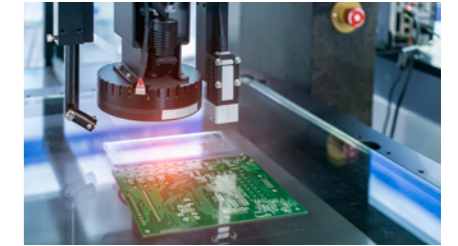
Applications



Bottle Inspection



Barcode Read



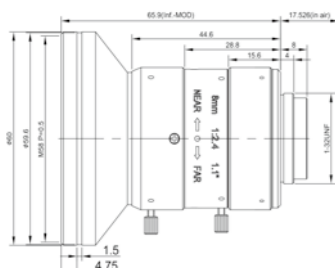
PCB Inspection

Specifications

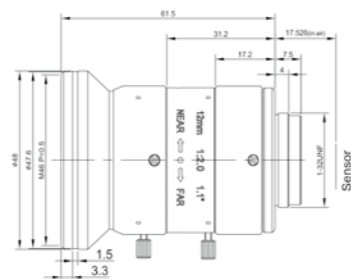
Model Name	MV-LMF0824 B	MV-LMF1220 B	MV-LMF1620 B	
Focal Length	8 mm	12 mm	16 mm	
Image Size	14.2 x 10.8 mm (Ø17.6)			
Iris Range	F/2.4 ~ F/16	F/2.0 ~ F/16		
Working Distance	100 ~ 1000 mm			
Control	Focus	Manual		
	Iris	Manual		
Angle of View 1.1"	D	97.7°	72.5°	57.6°
	H	84.0°	61.2°	47.9°
	V	65.5°	46.9°	36.0°
TV Distortion	-4.6%	-1.0%	-1.1%	
Flange Back Length	17.526 mm			
Mount	C-mount			
Filter Thread	M58.5 x P0.75	M46 x P0.5	M37 x P0.5	
Dimension	Ø60 x 73.8 mm	Ø48 x 69 mm	Ø40.5 x 70.1 mm	
Weight	264.4 g	211.2 g	200.4 g	

Model Name	MV-LMF2528 A	MV-LMF3528 A	MV-LMF5028 A	
Focal Length	25 mm	35 mm	50 mm	
Image Size	14.2 x 10.8 mm (Ø17.6)			
Iris Range	F/2.8 ~ F/16			
Working Distance	150 ~ 1000 mm	200 ~ 1000 mm	300 ~ 1000 mm	
Control	Focus	Manual		
	Iris	Manual		
Angle of View 1.1"	D	38.5°	28.2°	19.5°
	H	31.4°	22.9°	15.8°
	V	24.2°	16.9°	11.6°
TV Distortion	-0.3%	-0.1%	0.05%	
Flange Back Length	17.526 mm			
Mount	C-mount			
Filter Thread	M35.5 x P0.5	M34 x P0.5		
Dimension	Ø40.5 x 69 mm	Ø40.5 x 75 mm	Ø40.5 x 74.75 mm	
Weight	170 g	167 g	198.4 g	

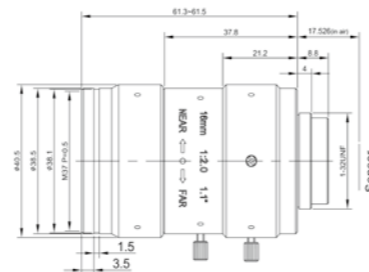
MV-LMF0824 B



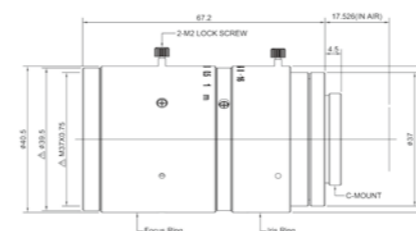
MV-LMF1220 B



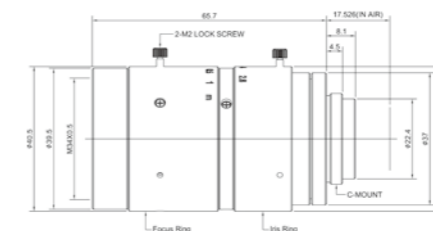
MV-LMF1620 B



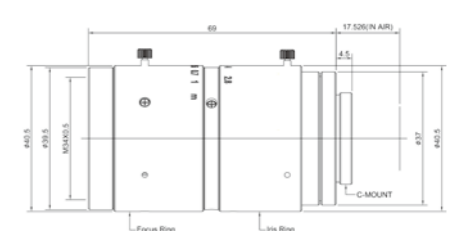
MV-LMF2528 A



MV-LMF3528 A



MV-LMF5028 A



MF Series



Features

- High-resolution optical design for 2.4µm pixel
- Low distortion for better image quality
- -10°C to +50°C operating temperature, suitable for use in harsh environments
- Support extensive focal length line-up
- 1.1", 2/3", 1/1.8", 1/2" sensor options cover a widerange of applications

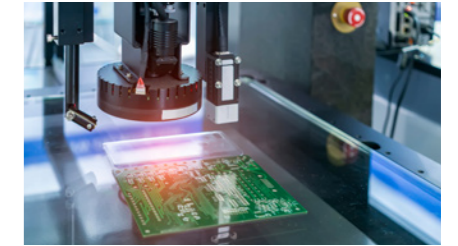
Applications



Bottle Inspection



Barcode Read



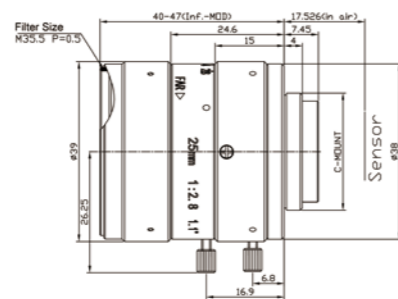
PCB Inspection

Specifications

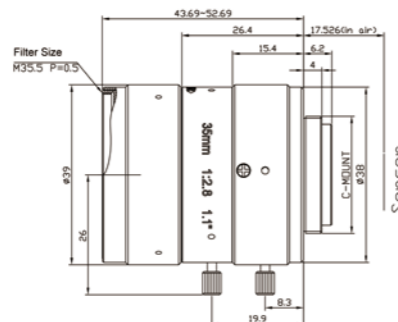
Model Name	MV-LMF252820M B	MV-LMF352820M B
Focal Length	25 mm	35 mm
Image Size	14.2 x 10.8 mm (Ø17.6)	
Iris Range	F/2.8 ~ F/16	
Working Distance	150 ~ 1000 mm	200 ~ 1000 mm
Control	Focus	Manual
	Iris	Manual
Angle of View 1.1"	D	38.8°
	H	31.7°
	V	23.5°
TV Distortion	-0.016%	-0.07%
Flange Back Length	17.526 mm	
Mount	C-mount	
Filter Thread	M35.5 x P0.5	
Dimension	Ø39 x 47.5 mm	Ø39 x 50 mm
Weight	123.48 g	130.24 g

Model Name	MV-LMF502820M B	
Focal Length	50 mm	
Image Size	14.2 x 10.8 mm (Ø17.6)	
Iris Range	F/2.8 ~ F/16	
Working Distance	300 ~ 1000 mm	
Control	Focus	Manual
	Iris	Manual
Angle of View 1.1"	D	20.0°
	H	16.2°
	V	11.9°
TV Distortion	0.05%	
Flange Back Length	17.526 mm	
Mount	C-mount	
Filter Thread	M35.5 x P0.5	
Dimension	Ø39 x 48.7 mm	
Weight	132.08 g	

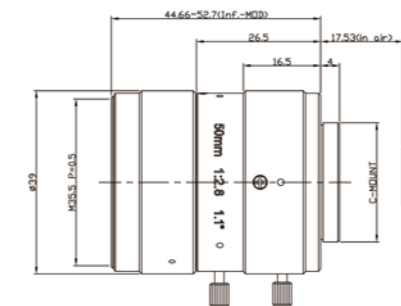
MV-LMF252820M B



MV-LMF352820M B



MV-LMF502820M B



SF Series

Features

- High-resolution optical design for 3.45µm pixel
- Low distortion for better image quality
- -10°C to +50°C operating temperature
- Support extensive focal length line-up
- 2/3", 1/1.8", 1/2" sensor options suitable for diverse applications



Applications



PCB Inspection



Barcode Read



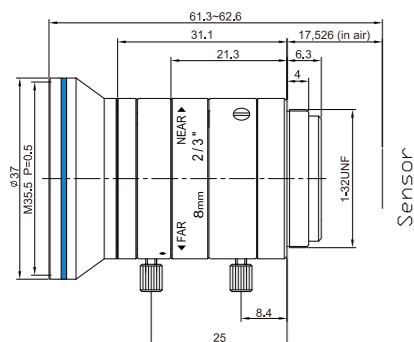
Medicine Inspection

Specifications

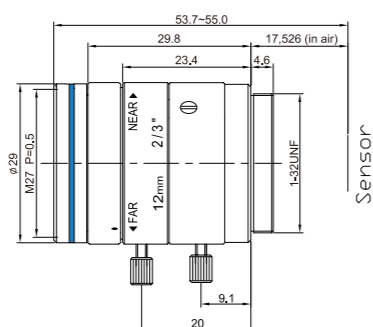
Model Name	MV-LSF0824 A	MV-LSF1224 A	MV-LSF1618 A
Focal Length	8 mm	12 mm	16 mm
Image Size	2/3" (8.44 x 7.06 x 11 mm)		
Aperture	F2.4		F1.8
Working Distance	0.1 m ~ ∞	0.25 m ~ ∞	0.2 m ~ ∞
Angle of View 2/3"	D	69.0°	49.2°
	H	57.6°	40.3°
	V	44.8°	30.8°
TV Distortion	-0.64%	-0.10%	-0.58%
Mount	C-mount		
Filter Thread	M35.5 x P0.5	M27 x P0.5	
Weight	90 g	71 g	75 g

Model Name	MV-LSF2518 A	MV-LSF3518 A	MV-LSF5028 A
Focal Length	25 mm	35 mm	50 mm
Image Size	2/3" (8.44 x 7.06 x 11 mm)		
Aperture	F1.8		F2.8
Working Distance	0.2 m ~ ∞	0.25 m ~ ∞	0.4 m ~ ∞
Angle of View 2/3"	D	24.8°	17.9°
	H	20.0°	14.3°
	V	15.0°	10.8°
TV Distortion	-0.30%	-0.01%	
Mount	C-mount		
Filter Thread	M27 x P0.5		
Weight	62 g	71 g	84 g

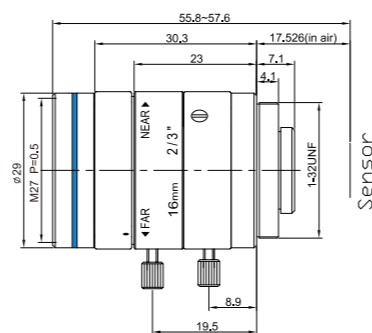
MV-LSF0824 A



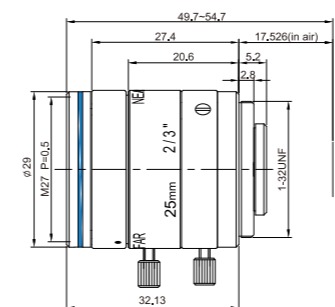
MV-LSF1224 A



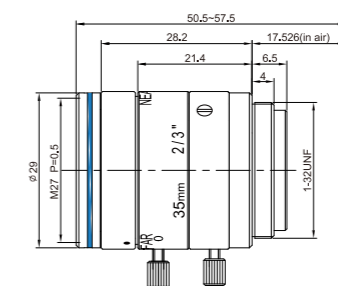
MV-LSF1618 A



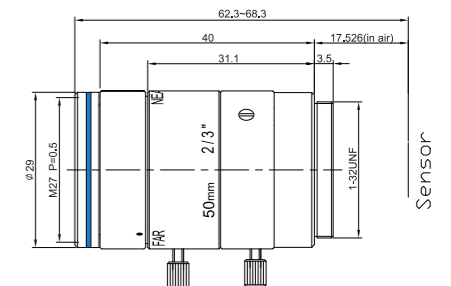
MV-LSF2518 A



MV-LSF3518 A



MV-LSF5028 A



SA Series

Features

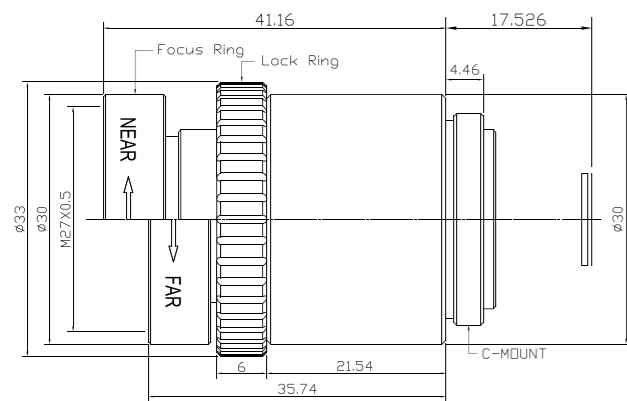
- High-resolution optical design for 3.45µm pixel
- 2/3" sensor size for 5 megapixel applications
- Mechanical design for vibration proofing and anti-shock ability
- 2/3", 1/1.8", 1/2" sensor options suitable for diverse applications



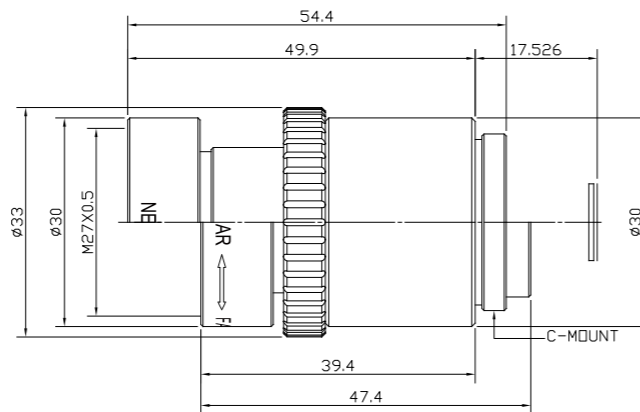
Specifications

Model Name	MV-L500NF0028 A	MV-L500NF0035 A
Focal Length	28 mm	35 mm
Image Size	2/3"	
Aperture	F2.8 / F4 / F5.6 / F8 / F11	
Working Distance	0.2 - 1 m	
Angle of View 2/3"	D	21.8°
	H	17.5°
	V	13.2°
TV Distortion	0.07%	0.14%
Mount	C-mount	
Filter Thread	M27 x P0.5	
Weight	65 g	70 g

MV-L500NF0028 A



MV-L500NF0035 A



Applications



Robot



3D Vision Sensor



Barcode Read

MA Series

Features

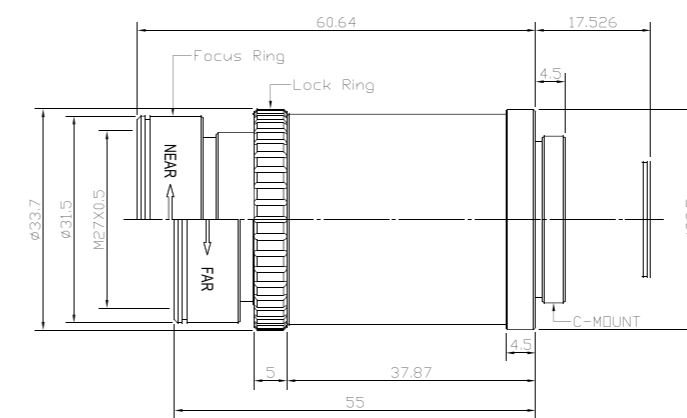
- High-resolution optical design for 3.45µm pixel
- 1.1" sensor size for 12 megapixel applications
- Mechanical design for vibration proofing and anti-shock ability
- 1.1", 2/3", 1/1.8" sensor options suitable for diverse applications



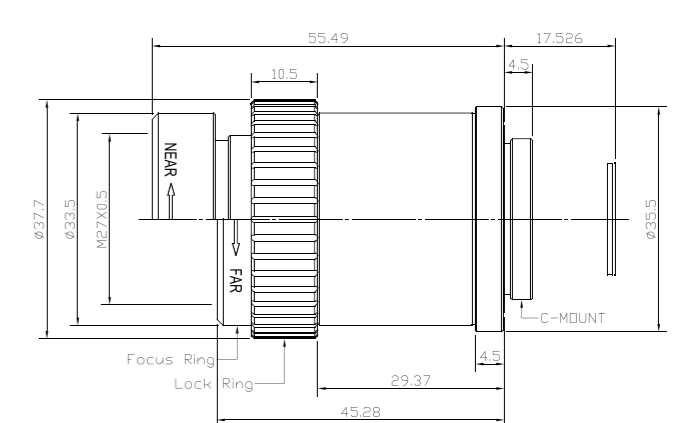
Specifications

Model Name	MV-L1200NF0028 A	MV-L1200NF0038 A
Focal Length	28 mm	38 mm
Image Size	1.1"	
Aperture	F2.8 / F4 / F5.6 / F8 / F11	
Working Distance	0.2 - 1 m	0.15 - 1 m
Angle of View 1.1"	D	34.2°
	H	27.9°
	V	20.6°
TV Distortion	0.1%	0.13%
Mount	C-mount	
Filter Thread	M27 x P0.5	
Weight	104 g	105 g

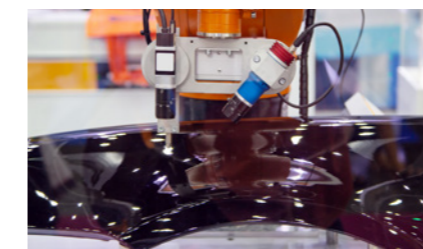
MV-L1200NF0028 A



MV-L1200NF0038 A



Applications



Vehicle Inspection



Medicine Inspection



PCB Inspection



MT Series

Features

- Minimum 3.45µm high-resolution at 110mm working distance
- Adjustable brightness and DOF via built-in iris
- High contrast & resolution at center & corners for better quality
- Zero distortion for accurate inspection
- 1.1", 2/3", 1/1.8", 1/2" sensor options cover a wide range of applications

Specifications

Model Name	MV-LMT20CO110 A	MV-LMT10CO110 A	MV-LMT05CO110 A
Image Circle		17.6 mm	
Magnification	2X	1X	0.5X
Resolution		3.45 µm	
Working Distance		110 mm	
O/I (Object & Image Distance)	300 mm		280 mm
Optical Distortion		0.01%	
Relative Illumination		>99%	
Co-Axial Prism		Built-in	
Iris		Variable / Fix	
Dof	0.31 mm	0.8 mm	3.2 mm
Mount		C-mount	
Weight	537 g	495 g	590 g



XZ Series

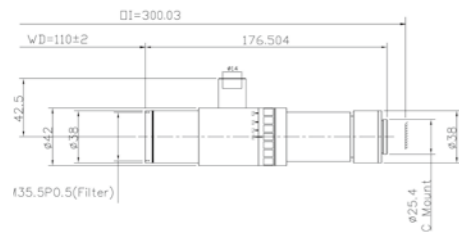
Features

- Telecentric lens 0.44X to 3.0X wide magnification range
- Adjustable magnification at fixed working distance

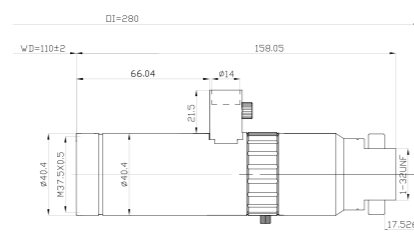
Specifications

Model Name	MV-L380NZ0530 A		
Optical Mag. Range	0.44X ~ 3.0X		
Optical Mag.	0.44X	1.2X	3.0X
Fov(V*H)	1/1.8"	12.3 x 16.1mm	4.5 x 5.9 mm
	1/2"	115 x 15.1 mm	4.0 x 5.3 mm
	1/3"	8.2 x 10.9 mm	3.0 x 4.0 mm
Working Distance	100mm ± 3		
O/I (Object & Imager Distance)	267.8 mm		
Aperture	6.3	9.6	20.4
Numerical Aperture	0.035	0.063	0.072
Tv Distortion (1/1.8")	-0.08%	0.01%	0.10%
Relative Illuminance (Y= 4.45)	56%	90%	99%
Wavelength	Visible		
Mount	C-mount		
Sensor Size (Max.)	1/1.8"		
Weight (Approx.)	287 g		
Dimension	Ø35.4 x 154.3 x Ø25.4		

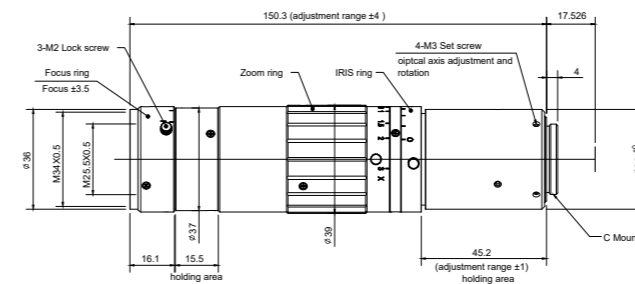
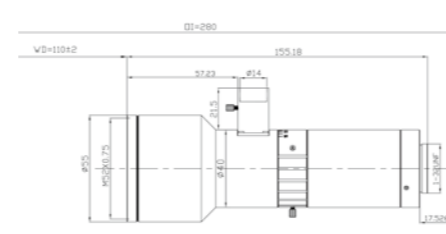
MV-LMT20CO110 A



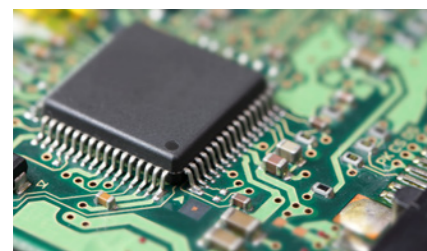
MV-LMT10CO110 A



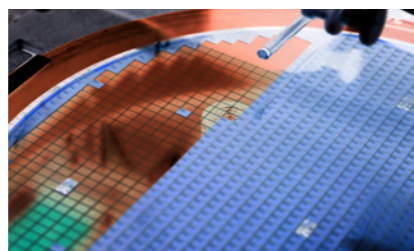
MV-LMT05CO110 A



Applications



IC Inspection

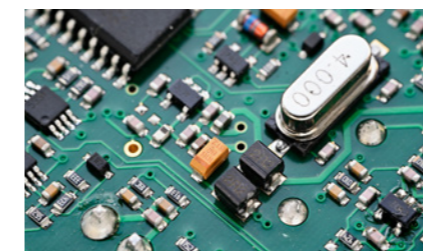


Semiconductor Inspection

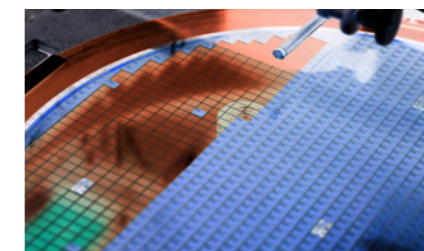


Mechanism Measure

Applications



Passive Components



Semiconductor Inspection



Mechanism Measure



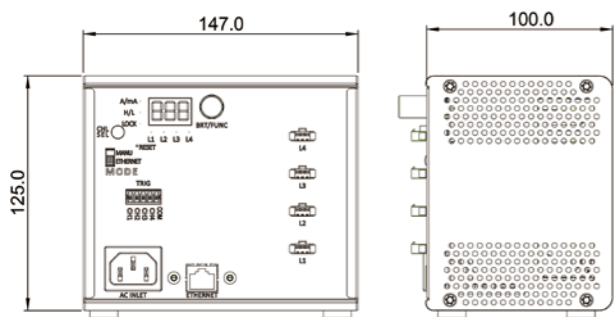
NS Series

Features

- Reality current display make adjust normalize
- Build in current limit function. (Power / Current)
- LSD function make user well known lighting status
- >1000step resolution for accuracy intensity adjust
- Din rail / Laptop installation are possible

Specifications

Model Name	MV-P24V084CM24 A (TBD)	MV-P24V084CME4 A
Input Voltage	100 ~ 240 Vac	
Power Consumption	120W (TYP)	125W (TYP)
Driver Method	Constant-current system	
Intensity Control Method	Manu (10mA~1.25A) (>1A / 10mA Step ; <1A / 5mA Step) Current Limit / LID function (Option) Communication / (>1000 Step) ; Manu / (225 Step)	
Communication Port	RS-232	100/10 Mbps Ethernet (TCP/UDP IP) DHCP / Web Page Setup
No. of Channels	4	
Trigger Response	< 50uS	
Protection	Over current / Short circuit / Over temperature / Current limit circuit (Build in error status display) / LID current limit	
Lighting Information	Build in LSD function (Lighting status diagnostic) / Lighting identity (Option)	
Output Voltage (Rating)	8V ~ 24 Vdc	
Maximum Output Current (A)	1.25	
Rated Power (Total Power of All Channel)	84W	
On/Off Trig Setting	12V ~ 24V external On/Off trigger with high / low active select switch	
Operation Temperature & Humidity	Temperature: 0~40°C Humidity: 20%~85% RH (with no condensation)	
Storage Temperature & Humidity	Temperature: -20~60°C Humidity: 20%~85% RH (with no condensation)	
Weight	850g (max)	
Weight-Shipping	1100g (max)	
Accessories	AC in Cable	
Dimension (L x W x H)	100.0 x 140.0 x 125.0 mm	
Dimension-Shipping (L x W x H)		
EMS / EMC Regulation	Safty standard: EN61010-1 compliant	
	EMC standard: EN61326-1 Class A compliant	



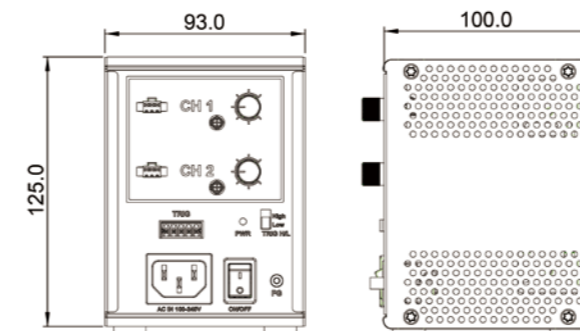
NB Series

Features

- 100 to 240 V universal AC input
- Cost effective for economy consider
- Rapid response for isolation TRIG
- Din rail / Laptop installation are possible
- High Power (30W/CH Max)
- 8 to 24 V Wide working voltage range
- No Fan cooling needed

Specifications

Model Name	MV-P24V050CVR2 A
Input Voltage	100 ~ 240 Vac
Power Consumption	65W (TYP)
Driver Method	Constant-current system
Intensity Control Method	Independent 2CH VR control
No. of Channels	2
Trigger Freq	1Khz Max.
Trigger Response	<50us is possible
Protection	Short circuit / Over temperature protection
Output Voltage (Rating)	10mA ~1.25A @8V~25V / Turn off curent @ VR min.
Max. Output Current (A)	1.25 A
Ripple Current (A)	Independent 2CH 4-segment switch control (0.3A/0.6A/0.9A/1.25A)
Rated Power (Total Power of All Channel)	30W/CH ; 50W/Total @ 24V
On/Off TRIG Setting	12V~24V external On/Off trigger with high / low active select switch
Operation Temperature & Humidity	Temperature: 0~40°C Humidity: 20%~85% RH(with no condensation)
Storage Temperature & Humidity	Temperature: -20~60°C Humidity: 20%~85% RH(with no condensation)
Weight	650g (max.)
Weight-Shipping	1000g (max.)
Accessories	1) AC power cord 2) DC trig connector
Dimension (L x W x H)	100.0 x 93.0 x 125.0 mm
Dimension-Shipping (L x W x H)	160.0 x 125.0 x 158.0 mm
EMS / EMC Regulation	Safety standard: EN 61010-1 compliant
	EMC standard: EN 61326-1 Class A compliant





PB Series

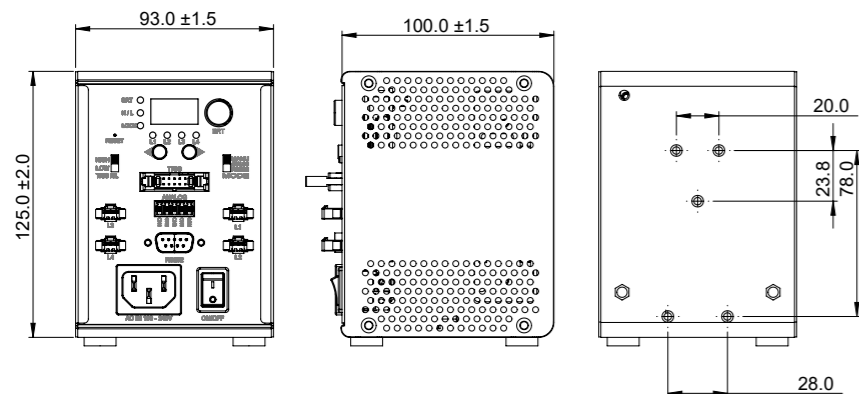
Features

- 100 to 240 V universal AC input
- Optional RS-232 or Ethernet interface
- Stable color temperature for stable brightness and colorfulness
- Optional DIN rail / laptop installation
- Natural air-cooling system for better noise immunity
- Easy to setup from webpage (Ethernet model)

Specifications

Model Name	MV-P12V054VRA2 A	MV-P12V054VRA4 A
Lighting Method	Constant lighting	
Drive Method	Constant voltage system	
Light Control Method	0-511 Step PWM intensity adjustment	
No. Of Channels	2	4
Applicable illumination (Rating)	12 V	
Output Rated	30Wmax / CH total 54W	
Over Current Protection	Build in (OCP / SCP / OTP) with error indicator	
Input Voltage (Rating)	AC 100V - 240Vac 50/60 Hz	
Power Consumption (Typ)	65W (Typ)	
Insulation Resistance, Dielectric Strength (Input/Output - Housing)	500 Vdc / 25°C / 70%RH test insulation resistance >100M ohm.	
Operating Temperature And Humidity	Temperature 0~40°C / Relative humidity 10~90% (no condensing)	
Trigger Response	Trigger rising time < 10uS is possible.	
Cooling Method	Natural air cooling	
Regulatory	EMC standard : Compliance with EN61326	
Environmental Regulation	RoHS compliant	
Trig Connector	CENLINK connector (Y190-10131-10YA compliant),10-pole	
Analog Connector	Dinkle connector (EC350v-05P compliant), 5-pole	
Output Connector	P2-i25009(WST)	
RS-232 / Ethernet Specify	RS-232 : Baud rate : 9600	
Material,Coating,Surface Processing	Material case : Thickness:1.0mm, Surface processing ; Black texture painting	
Weight	750 g	

Mechanical Drawing (12V)



Highlight

MV-P24V054VME4 A



MV-P24V054VRA2 A

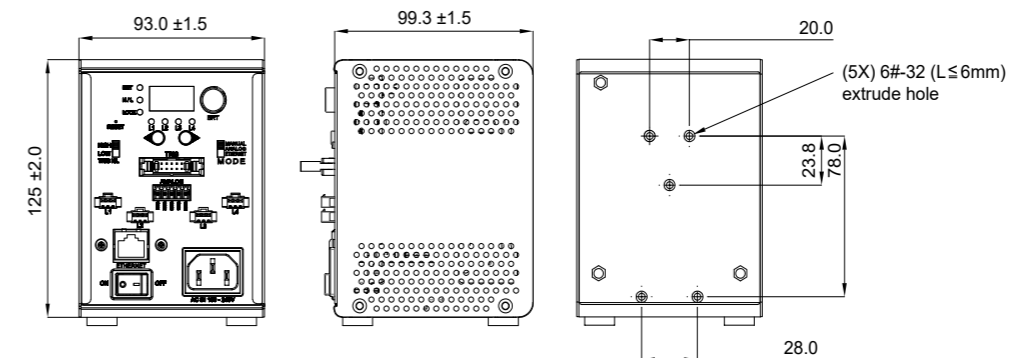


MV-P24V054VRA4 A



Model Name	MV-P24V054VRA2 A	MV-P24V054VRA4 A	MV-P24V054VME4 A
Lighting Method	Constant lighting		
Drive Method	Constant voltage system		
Light Control Method	0-511 Step PWM intensity adjustment		
No. Of Channels	2	4	
Applicable illumination (Rating)	24 V		
Output Rated	30WMax / CH total 54W		
Over Current Protection	Build in (OCP / SCP / OTP) with error indicator		
Input Voltage (Rating)	AC 100V - 240Vac 50/60 Hz		
Power Consumption (Typ)	65W (Typ)		
Insulation Resistance, Dielectric Strength (Input/Output - Housing)	500Vdc / 25°C / 70%RH test Insulation resistance >100M ohm.		
Operating Temperature And Humidity	Temperature 0~40°C / Relative humidity 10~90% (no condensing)		
Trigger Response	Trigger rising time < 10uS is possible.		
Cooling Method	Natural air cooling		
Regulatory	EMC Standard : Compliance with EN61326		
Environmental Regulation	RoHS compliant		
Trig Connector	CENLINK connector (Y190-10131-10YA compliant),10-pole		
Analog Connector	Dinkle connector (EC350V-05P compliant), 5-pole		
Output Connector	P3-I25009(WST)	P3-I25009(WST)	P3-I25009(WST)
RS-232 / Ethernet Specify	RS-232 : Baud rate : 9600		100/10Mbps Ethernet /TCP/UDP IP with Web page setup
Material,Coating,Surface Processing	Material case : Thickness:1.0mm, Surface processing ; Black texture painting		
Weight	750 g		

Mechanical Drawing (24V)





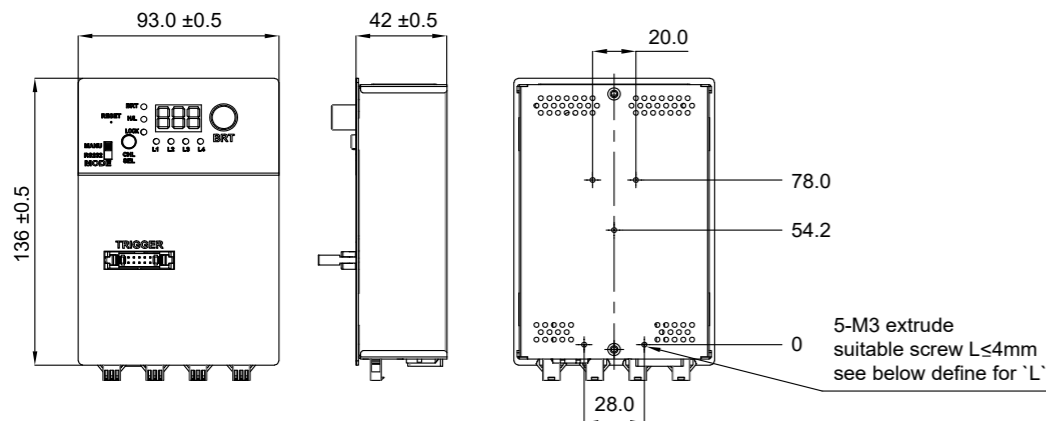
PS Series

Features

- 12 or 24 V input / output selectable
- Exclusive Light Status Diagnostic function (LSD)
- Smallest 4-channel controller
- Easy to setup via webpage (Ethernet model)
- Precision strobe time control (min. 1 μs/step)
- Natural air-cooling system for better noise immunity
- Optional DIN rail / laptop installation

Specifications

Model Name	MV-D24V240VM24 A	MV-D24V240VME4 A
Lighting Method	Constant lighting	
Drive Method	Constant voltage system	
Light Control Method	0-511 Step pwm intensity adjustment	
Strobe ON Delay Time (Communication)	RS-232C / 2us ~30mS (1uS step)	Ethernet/2us ~30mS (1uS step)
Strobe ON Delay Time(Manu)	C1~C10 ,10 kinds of Strobe time	C1~C10 ,10 kinds of Strobe time
No. Of Channels	4	
Applicable illumination (Rating)	24V/ (12V is possible with Option cable)	
Output Rated	2.5A(Max) / CH Total output : 120W max @12V / 240W @24V	
Over Current Protection	Build in (OCP / SCP / OTP) with error indicator	
Input Voltage (Rating)	12V / 24V (±5%)	
Power Consumption (Typ)	250W Max (24V)	
Trigger Logic	High / Low trigger select by separate channel / 12V~24V	
Trigger Response	Trigger rising time < 10uS is possible.	
Operating Temperature and Humidity	Temperature 0~40°C / Relative humidity 10~90% (No condensing)	
Cooling Method	Natural air cooling	
Regulatory	EMC standard : Compatible with EN61326	
Environmental Regulation	RoHS compliant	
Trig Connector	CENLINK Connector (Y190-10131-10YA compliant), 10-pole	
Ethernet Function	N/A	RJ45 with TCP / UDP IP & Web browser setup
Output Connector	P2-I25009 (WST)	P2-I25009 (WST)
RS-232 / Ethernet Specify	RS-232 : Baud rate : 9600	100 / 10 Mbps Ethernet
Material,Coating,Surface Processing	Material case : Thickness:1.0mm, Surface processing ; Black texture painting	
Weight	320 g	



WB Series

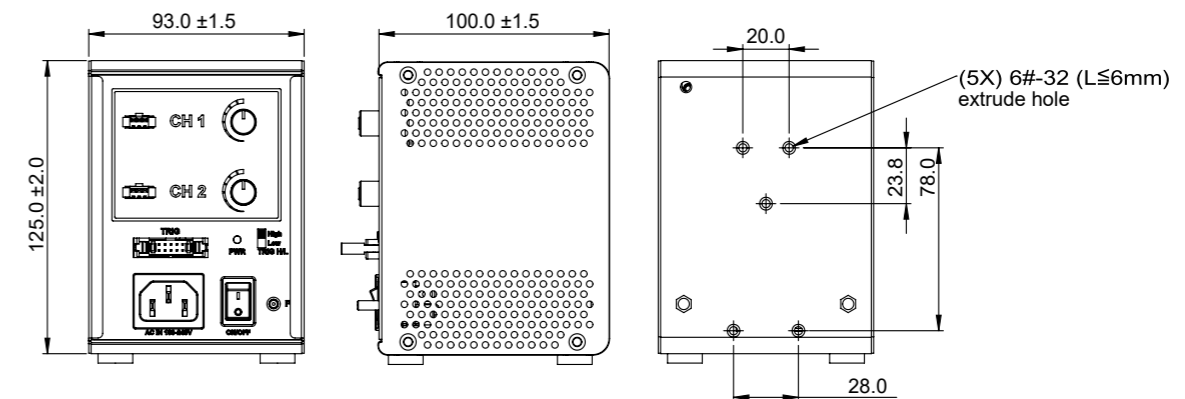
Features

- 100 to 240 V universal AC input
- < 10 μs instant response for isolation TRIG
- Adjustable 12 to 24 V output range
- Maximum 50 W output rating
- Natural air-cooling system for better noise immunity

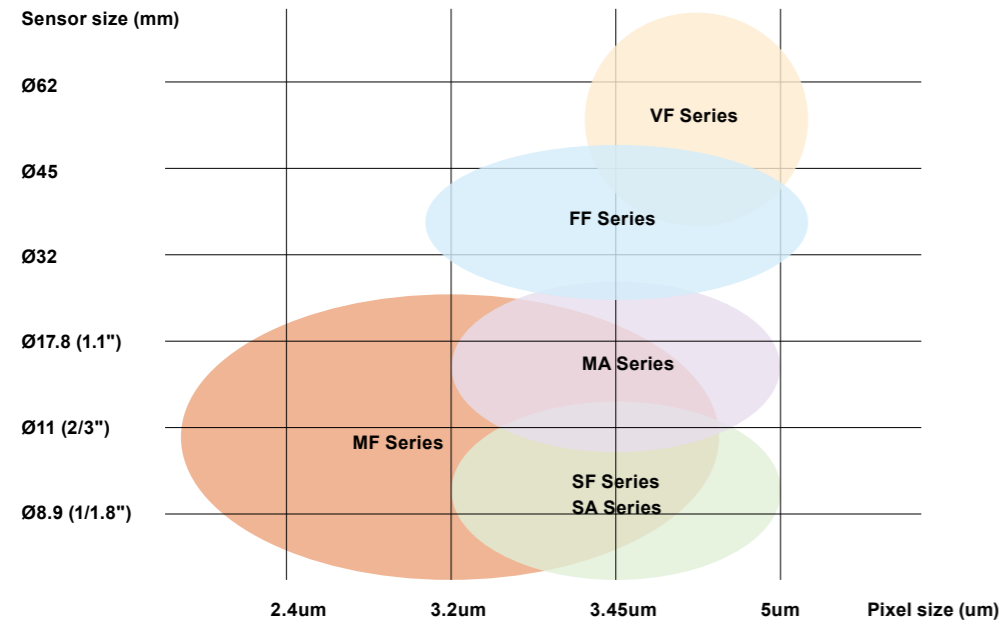


Specifications

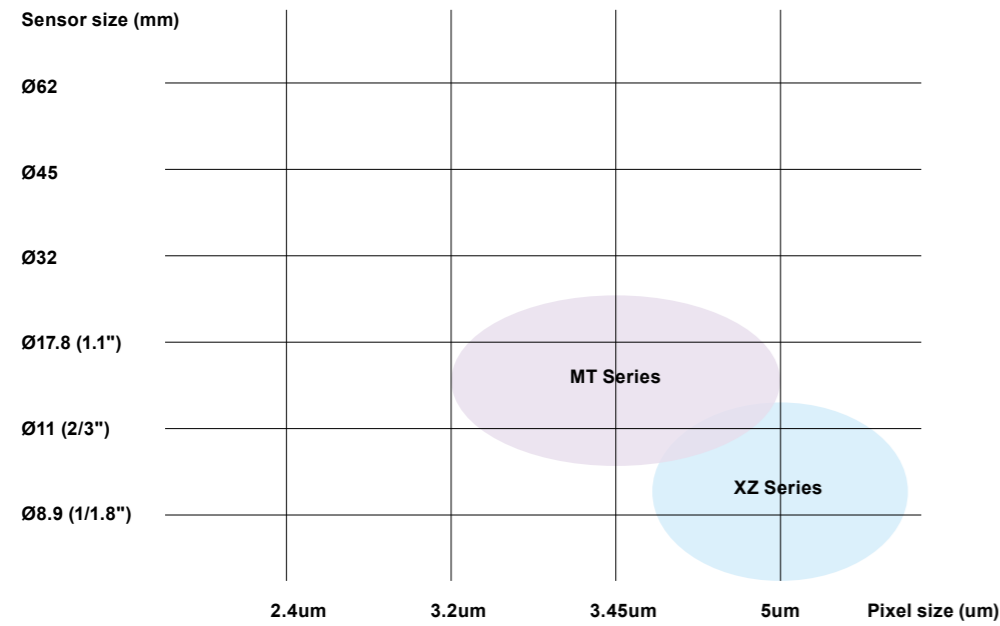
Model Name	MV-P24V050VVR2 A
Drive Method	Constant voltage system
Light Control Mode	Various voltage (12 - 24v)
Intensity Adjustment	VR / CH
No. Of Channels	2 CH
Applicable illumination (Rating)	24 V
Output Rated	30 Wmax / CH total 50W
Over Current Protection	Over current protection / short circuit protection.
Input Voltage (Rating)	AC 100V - 240Vac 50/60 Hz
Power Consumption (Typ)	65W (Typ)
Trigger Logic	High / Low trigger select by separate channel / 12 - 24V
Trigger Response	Trigger rising time < 10 uS is possible.
Operating Temperature And Humidity	Temperature 0~40°C / Relative humidity 10~90% (no condensing)
Storage Temperature And Humidity	Temperature -20~60°C / Relative humidity 10~95% (no condensing)
Cooling Method	Natural air cooling
Regulatory	EMC standard : Compatible with EN61326
Environmental Regulation	RoHS compliant
Trig Connector	CENLINK connector (Y190-10131-10YA compliant), 10-pole
Output Connector	P2-I25009 (WST)
Material,Coating,Surface Processing	Material case : Thickness: 1.0mm, Surface processing ; Black texture painting
Weight	750 g



Focal Length Compatibility Chart - FA Lens



Focal Length Compatibility Chart - Telecentric Lens



Lighting Controller

Category	Function	PB	PS	WB	NS	NB
Lighting	Lighting System	CV	CV	CV	CC	CC
	Strobe		●		●	
	Trigger H/L	●	⊙	●	⊙	●
	Light Identify (LID)				⊙	
	Lighting Status Diagnostic (LSD)		●		●	
Interface	Web page control		▲		▲	
	RS-232	▲	▲		▲	
	Ethernet	▲	▲		▲	
	Error status reply	●	●		●	
	DHCP/TCP IP/ UDP	▲	▲		▲	
	Analog (0~5V)	▲				
	GUI	●	●		●	
Characteristic	Voltage	12V / 24V	12V & 24V	12 - 24V	8 - 24V	12 - 24V
	Current max	1.25A	2.5A	1.25A	0 - 1.25A	1.25A
	Watt/CH max	30W	60W	30W	30W	30W
	Watt (Total)	54W	240W	50W	84W	50W
	Channel no.	2/4	4	2	4	2
	Input voltage (AC 100V~240V)	●		●	●	●
	Input Voltage (DC 12V / 24V)		●			
Installation	Dinrail installation	●	●	●	●	●
	Panel Mount installation		●			

- Standard function
- ▲ Option with model
- ⊙ Programmable

SF Series

Working Distance (mm)	MV-LSF0824 A				MV-LSF1224 A				MV-LSF1618 A			
	Field of View(mm)				Field of View(mm)				Field of View(mm)			
	2/3"		1/2"		2/3"		1/2"		2/3"		1/2"	
	H	V	H	V	H	V	H	V	H	V	H	V
1000	1100	825	800	600	733.3	550	533.3	400	550	412.5	400	300
	-0.008 x				-0.012 x				-0.016 x			
900	990	742.5	720	540	660	495	480	360	495	371.3	360	270
	-0.009 x				-0.013 x				-0.018 x			
850	935	701.3	680	510	623.3	467.5	453.3	340	467.5	350.6	340	255
	-0.009 x				-0.014 x				-0.019 x			
800	880	660	640	480	586.7	440	426.7	320	440	330	320	240
	-0.001 x				-0.015 x				-0.020 x			
750	825	618.8	600	450	550	412.5	400	300	412.5	309.4	300	225
	-0.011 x				-0.016 x				-0.021 x			
700	770	577.5	560	420	513.3	385	373.3	280	385	288.8	280	210
	-0.011 x				-0.017 x				-0.023 x			
650	715	536.3	520	390	476.7	357.5	346.7	260	357.5	268.1	260	195
	-0.012 x				-0.018 x				-0.025 x			
600	660	495	480	360	440	330	320	240	330	247.5	240	180
	-0.013 x				-0.020 x				-0.027 x			
550	605	453.8	440	330	403.3	302.5	293.3	220	302.5	226.9	220	165
	-0.015 x				-0.022 x				-0.029 x			
500	550	412.5	400	300	366.7	275	266.7	200	275	206.3	200	150
	-0.016 x				-0.024 x				-0.032 x			
450	495	371.3	360	270	330	247.5	240	180	247.5	185.6	180	135
	-0.018 x				-0.027 x				-0.036 x			
400	440	330	320	240	293.3	220	213.3	160	220	165	160	120
	-0.020 x				-0.030 x				-0.040 x			
350	385	288.8	280	210	256.7	192.5	186.7	140	192.5	144.4	140	105
	-0.023 x				-0.034 x				-0.046 x			
300	330	247.5	240	180	220	165	160	120	165	123.8	120	90
	-0.027 x				-0.040 x				-0.053 x			
250	275	206.3	200	150	183.3	137.5	133.3	100	137.5	103.1	100	75
	-0.032 x				-0.048 x				-0.064 x			
200	220	165	160	120	146.7	110	106.7	80	110	82.5	80	60
	-0.040 x				-0.060 x				-0.080 x			
150	165	123.8	120	90	110	82.5	80	60	82.5	61.9	60	45
	-0.053 x				-0.080 x				-0.107 x (ER : 5 mm)			
100	110	82.5	80	60	73.3	55	53.3	40				
	-0.080 x				-0.120 x							
50	55	41.3	40	30								
	-0.160 x											

Working Distance (mm)	MV-LSF2518 A				MV-LSF3518 A				MV-LSF5028 A			
	Field of View(mm)				Field of View(mm)				Field of View(mm)			
	2/3"		1/2"		2/3"		1/2"		2/3"		1/2"	
	H	V	H	V	H	V	H	V	H	V	H	V
1000	352	264	256	192	251.4	188.6	182.9	137.1				
	-0.025 x				-0.035 x							
900	316.8	237.6	230.4	172.8	226.3	169.7	164.6	123.4	161.7	121.2	117.6	88.2
	-0.028 x				-0.039 x				-0.055 x			
850	299.2	224.4	217.6	163.2	213.7	160.3	155.4	116.6	152.5	114.4	110.9	83.2
	-0.029 x				-0.041 x				-0.058 x			
800	281.6	211.2	204.8	153.6	201.1	150.9	146.3	109.7	143.3	107.5	104.2	78.2
	-0.031 x				-0.044 x				-0.061 x			
750	264	198	192	144	188.6	141.4	137.1	102.9	134.2	100.6	97.6	73.2
	-0.033 x				-0.047 x				-0.066 x			
700	246.4	184.8	179.2	134.4	176	132	128	96	125	93.7	90.9	68.2
	-0.036 x				-0.050 x				-0.070 x			
650	228.8	171.6	166.4	124.8	163.4	122.6	118.9	89.1	115.8	86.9	84.2	63.2
	-0.038 x				-0.054 x				-0.076 x			
600	211.2	158.4	153.6	115.2	150.9	113.1	109.7	82.3	106.7	80	77.6	58.2
	-0.042 x				-0.058 x				-0.083 x			
550	193.6	145.2	140.8	105.6	138.3	103.7	100.6	75.4	97.5	73.1	70.9	53.2
	-0.045 x				-0.064 x				-0.090 x			
500	176	132	128	96	125.7	94.3	91.4	68.6	88.3	66.2	64.2	48.2
	-0.050 x				-0.070 x				-0.100 x			
450	158.4	118.8	115.2	86.4	113.1	84.9	82.3	61.7	79.2	59.4	57.6	43.2
	-0.056 x				-0.078 x				-0.111 x			
400	140.8	105.6	102.4	76.8	100.6	75.4	73.1	54.9	70	52.5	50.9	38.2
	-0.063 x				-0.088 x				-0.126 x			
350	123.2	92.4	89.6	67.2	88	66	64	48	60.8	45.6	44.2	33.2
	-0.071 x				-0.100 x				-0.145 x (ER : 1 mm)			
300	105.6	79.2	76.8	57.6	75.4	56.6	54.9	41.1	51.7	38.7	37.6	28.2
	-0.083 x				-0.117 x				-0.170 x (ER : 5 mm)			
250	88	66	64	48	62.9	47.1	45.7	34.3	42.5	31.9	30.9	23.2
	-0.100 x				-0.140 x				-0.207 x (ER : 5 mm)			
200	70.4	52.8	51.2	38.4	50.3	37.7	36.6	27.4	33.3	25	24.2	18.2
	-0.125 x				-0.175 x				-0.264 x (ER : 10 mm)			
150	52.8	39.6	38.4	28.8	37.7	28.3	27.4	20.6	24.2	18.1	17.6	13.2
	-0.167 x				-0.233 x (ER : 5 mm)				-0.364 x (ER : 15 mm)			
100	35.2	26.4	25.6	19.2	25.1	18.9	18.3	13.7	15	11.1	10.8	8.2
	-0.25 x (ER : 5 mm)				-0.35 x (ER : 10 mm)				-0.587 x (ER : 25 mm)			
50												

MF Series

Working Distance (mm)	MV-LMF0824 B				MV-LMF1220 B				MV-LMF1620 B						
	Field of View(mm)				Field of View(mm)				Field of View(mm)						
	1.1"		1/1.8"		1.1"		1/1.8"		1.1"		1/1.8"				
	H	V	H	V	H	V	H	V	H	V	H	V			
1000	1,817.6	1,294.8	903.8	593.5	1191.8	866.2	612.6	405.6	903.5	655.3	463.0	306.5	-0.0076 x	-0.0118 x	-0.0156 x
950	1727.8348	1230.8136	859.2824	564.275	1133.3122	823.5984	582.538	385.7146	858.9448	622.9664	440.1604	291.34	-0.008 x	-0.0124 x	-0.0164 x
900	1637.99	1166.7502	814.5378	534.8878	1074.8328	781.052	552.428	365.7722	814.4204	590.6644	417.3344	276.2308	-0.0084 x	-0.0131 x	-0.0173 x
850	1548.1448	1102.687	769.7924	505.5	1016.353	738.5054	522.32	345.8312	769.896	558.3624	394.5084	261.1216	-0.0089 x	-0.0139 x	-0.0183 x
800	1458.2994	1038.6236	725.0424	476.1096	957.8718	695.9578	492.1984	325.8818	725.3716	526.0602	371.6822	246.0124	-0.0095 x	-0.0147 x	-0.0194 x
750	1368.453	974.5596	680.2972	446.7218	899.3924	653.412	462.0902	305.9404	680.8468	493.7582	348.8562	230.903	-0.0101 x	-0.0157 x	-0.0207 x
700	1278.6066	910.496	635.5518	417.3342	840.9136	610.8668	431.9836	286	636.3222	461.456	326.03	215.7938	-0.0108 x	-0.0168 x	-0.0222 x
650	1188.7598	846.4324	590.8066	387.9468	782.4252	568.3138	401.8724	266.057	591.7974	429.1538	303.204	200.6846	-0.0116 x	-0.018 x	-0.0238 x
600	1098.9068	782.3644	546.0616	358.5594	723.9466	525.7694	371.762	246.1142	547.2724	396.8516	280.3778	185.5754	-0.0126 x	-0.0195 x	-0.0258 x
550	1009.062	718.3032	501.3166	329.1722	665.462	483.2204	341.65	226.1708	502.747	364.5492	257.5516	170.4662	-0.0137 x	-0.0212 x	-0.028 x
500	919.2162	654.2416	456.572	299.7852	606.9676	440.6638	311.5318	206.2234	458.2214	332.247	234.7254	155.3568	-0.015 x	-0.0232 x	-0.0308 x
450	829.3634	590.1758	411.8274	270.3984	548.4782	398.112	281.4206	186.2802	413.6956	299.9444	211.8992	140.2476	-0.0166 x	-0.0257 x	-0.0341 x
400	739.5132	526.1128	367.0828	241.0116	489.9844	355.5576	251.3064	166.3352	369.1692	267.6418	189.0728	125.1384	-0.0187 x	-0.0287 x	-0.0382 x
350	649.6622	462	322.338	211.6248	431.4854	313.0002	221.1882	146.388	324.642	235.339	166.2464	110.029	-0.0212 x	-0.0326 x	-0.0434 x
300	559.8072	396	277.5936	182.2386	372.9802	270.4394	191.0686	126.4398	280.1138	203.036	143.4198	94.9198	-0.0246 x	-0.0377 x	-0.0503 x
250	469.9466	333.9244	232.8536	152.8552	314.4602	227.8698	160.9464	106.49	235.584	170.7326	120.593	79.8104	-0.0293 x	-0.0447 x	-0.0598 x
200	380.0844	269.8648	188.1128	123.472	255.9204	185.2882	130.8118	86.5326	191.0512	138.4282	97.766	64.701	0.0362 x	-0.0548 x	-0.0737 x
150	290.217	205.8112	143.376	94.0922	197.348	142.6892	100.6684	66.5698	146.513	106.1208	74.938	49.5914	-0.0473 x	-0.071 x	-0.096 x
100	200.36	141.7854	98.654	64.724	138.6972	100.0468	70.4924	46.5876	101.9622	73.8096	52.1084	34.4816	-0.0684 x	-0.1006 x	0.1378 x
50	110.8	78	53.9784	35.3902	79.7968	57.267	40.2174	26.545	57.37	41.4896	29.2736	19.37	0.123 x(ER:1mm)	0.1737 x (ER: 2mm)	0.2445 x(ER: 3mm)

Working Distance (mm)	MV-LMF2528 A				MV-LMF3528 A				MV-LMF5028 A						
	Field of View(mm)				Field of View(mm)				Field of View(mm)						
	1.1"		1/1.8"		1.1"		1/1.8"		1.1"		1/1.8"				
	H	V	H	V	H	V	H	V	H	V	H	V			
1000	588.8	431.3	351.9	294.4	415.6	304.4	351.9	294.4	282.6	207	168.9	141.3	-0.024 x	-0.034 x	-0.05 x
950	565.2	414	337.8	282.6	392.5	287.5	337.8	282.6	271.7	199	162.4	135.9	-0.025 x	-0.036 x	-0.052 x
900	52.3	38.3	31.3	26.2	371.8	272.4	31.3	26.2	256.9	188.2	153.6	128.5	-0.27 x	-0.038 x	-0.055 x
850	504.6	369.6	301.6	252.3	353.3	258.8	301.6	252.3	243.6	178.4	145.6	121.8	-0.028 x	-0.04 x	-0.058 x
800	471	345	281.5	235.5	336.4	246.4	281.5	235.5	227.9	166.9	136.2	114	-0.03 x	-0.042 x	-0.062 x
750	441.6	323.4	263.9	220.8	314	230	263.9	220.8	214.1	156.8	128	107.1	-0.032 x	-0.045	-0.066 x
700	415.6	304.4	248.4	207.8	294.4	215.6	248.4	207.8	199	145.8	119	99.5	-0.034 x	-0.048	-0.071 x
650	381.9	279.7	228.3	191	271.7	199	228.3	191	185.9	136.2	111.1	93	-0.037 x	-0.052 x	-0.076 x
600	353.3	258.8	211.1	176.6	252.3	184.8	211.1	176.6	170.2	124.7	101.8	85.1	-0.04 x	-0.056 x	-0.083 x
550	328.6	240.7	196.4	164.3	231.6	169.7	196.4	164.3	157	115	93.8	78.5	-0.043 x	-0.061 x	-0.09 x
500	300.6	220.2	179.7	150.3	210.9	154.5	179.7	150.3	141.3	103.5	84.5	70.7	-0.047 x	-0.067 x	-0.1 x
450	271.7	199	162.4	135.9	190.9	139.9	162.4	135.9	127.3	93.2	76.1	63.7	-0.052 x	-0.074 x	-0.111 x
400	239.5	175.4	143.1	119.8	170.2	124.7	143.1	119.8	113	82.8	67.6	56.5	-0.059 x	-0.083 x	-0.125 x
350	210.9	154.5	126.1	105.5	148.7	108.9	126.1	105.5	98.8	72.4	59.1	49.4	-0.067 x	-0.095 x	-0.143 x
300	181.2	132.7	108.3	90.6	128.5	94.1	108.3	90.6	84.1	61.6	50.3	42.1	-0.078 x	-0.11 x	-0.168 x
250	153.6	112.5	91.8	76.8	107	78.4	91.8	76.8	70	51.2	41.8	35	-0.092 x	-0.132 x	-0.202 x (ER: 2mm)
200	123.9	90.8	74.1	62	86.2	63.1	74.1	62	56.1	41.1	33.5	28	-0.114 x	-0.164 x	-0.252 x (ER: 5mm)
150	93.6	68.5	55.9	46.8	66.3	48.6	55.9	46.8	42.1	30.8	25.1	21	-0.151 x	-0.213 x (ER: 2mm)	-0.336 x (ER: 10mm)
100	67.6	49.5	40.4	33.8	46.2	33.8	40.4	33.8					-0.209 x (ER: 2mm)	-0.306 x (ER: 5mm)	
50															

MF Series (20 Megapixel)

Working Distance (mm)	MV-LMF252820M B				MV-LMF352820M B				MV-LMF502820M B			
	Field of View(mm)				Field of View(mm)				Field of View(mm)			
	1.1"		1/1.8"		1.1"		1/1.8"		1.1"		1/1.8"	
	H	V	H	V	H	V	H	V	H	V	H	V
1000	563.4	412.3	293.0	193.9	397.0	290.7	206.8	136.9	273.6	200.4	142.7	94.5
	0.0252 x				0.0358 x				0.0518 x			
950	535.0	391.5	278.3	184.1	376.7	275.8	196.2	129.9	259.4	190.0	135.3	89.6
	0.0266 x				0.0377 x				0.0547 x			
900	506.6	370.7	263.5	174.3	356.4	260.9	185.6	122.9	245.2	179.7	127.9	84.7
	0.0281 x				0.0398 x				0.0578 x			
850	478.2	350.0	248.7	164.6	336.0	246.0	175.0	115.9	231.1	169.3	120.5	79.8
	0.0297 x				0.0422 x				0.0614 x			
800	449.8	329.2	234.0	154.8	315.7	231.1	164.4	108.9	216.9	158.9	113.1	74.9
	0.0316 x				0.045 x				0.0654 x			
750	421.4	308.4	219.2	145.0	295.4	216.3	153.9	101.9	202.7	148.5	105.7	70.0
	0.0337 x				0.048 x				0.07 x			
700	393.0	287.6	204.4	135.3	275.1	201.4	143.3	94.9	188.5	138.1	98.3	65.1
	0.0362 x				0.0516 x				0.0752 x			
650	364.6	266.8	189.7	125.5	254.8	186.5	132.7	87.8	174.4	127.7	90.9	60.2
	0.039 x				0.0557 x				0.0813 x			
600	336.2	246.0	174.9	115.7	234.5	171.6	122.1	80.8	160.2	117.3	83.5	55.3
	0.0423 x				0.0605 x				0.0885 x			
550	307.8	225.3	160.1	105.9	214.2	156.8	111.5	73.8	146.0	107.0	76.1	50.4
	0.0462 x				0.0663 x				0.0971 x			
500	279.4	204.5	145.3	96.2	193.8	141.9	100.9	66.8	131.8	96.6	68.8	45.5
	0.0509 x				0.0732 x				0.1076 x			
450	251.0	183.7	130.6	86.4	173.5	127.0	90.4	59.8	117.7	86.2	61.4	40.6
	0.0566 x				0.0818 x				0.1205 x			
400	222.6	162.9	115.8	76.6	153.2	112.1	79.8	52.8	103.5	75.8	54.0	35.7
	0.0638 x				0.0818 x				0.137 x			
350	194.2	142.1	101.0	66.8	132.9	97.3	69.2	45.8	89.3	65.4	46.6	30.8
	0.0732 x				0.1068 x				0.1588 x			
300	165.8	121.3	86.2	57.1	112.6	82.4	58.6	38.8	75.1	55.0	39.2	26.0
	0.0857 x				0.1261 x				0.1887 x			
250	137.4	100.6	71.5	47.3	92.2	67.5	48.0	31.8	60.9	44.6	31.8	21.1
	0.1034 x				0.1539 x				0.2327 x			
200	109.0	79.8	56.7	37.5	71.9	52.6	37.4	24.8	47.3	34.6	24.6	16.3
	0.1303 x				0.1973 x				0.2998 x(ER:4mm)			
150	80.6	59.0	41.9	27.7	53.1	38.9	27.6	18.3	33.6	24.5	17.4	11.5
	0.1762 x				0.267 x (ER:3mm)				0.4228 x(ER:10mm)			
100	53.5	39.2	27.8	18.4	34.3	25.1	17.8	11.8	19.7	14.4	10.2	6.7
	0.267 x(ER:3mm)				0.414 x(ER:9mm)				0.721 x(ER:25mm)			
50	34.3	19.3	13.7	9.1	15.4	11.2	8.0	5.3	5.8	4.2	3.0	2.0
	0.549 x(ER:10mm)				0.931 x(ER:28mm)				2.377 x(ER:112mm)			

SA Series

Working Distance (mm)	MV-L500NF0028 A				MV-L500NF0035 A			
	Field of View(mm)				Field of View(mm)			
	2/3"		1/2"		2/3"		1/2"	
	H	V	H	V	H	V	H	V
1000	588.8	431.3	351.9	294.4	415.6	304.4	351.9	294.4
	-0.024 x				-0.034 x			
900	565.2	414	337.8	282.6	392.5	287.5	337.8	282.6
	-0.025 x				-0.036 x			
800	52.3	38.3	31.3	26.2	371.8	272.4	31.3	26.2
	-0.27 x				-0.038 x			
700	504.6	369.6	301.6	252.3	353.3	258.8	301.6	252.3
	-0.028 x				-0.04 x			
600	471	345	281.5	235.5	336.4	246.4	281.5	235.5
	-0.03 x				-0.042 x			
500	441.6	323.4	263.9	220.8	314	230	263.9	220.8
	-0.032 x				-0.045			
400	415.6	304.4	248.4	207.8	294.4	215.6	248.4	207.8
	-0.034 x				-0.048			
300	381.9	279.7	228.3	191	271.7	199	228.3	191
	-0.037 x				-0.052 x			
200	353.3	258.8	211.1	176.6	252.3	184.8	211.1	176.6
	-0.04 x				-0.056 x			

MA Series

Working Distance (mm)	MV-L1200NF0028 A				MV-L1200NF0038 A			
	Field of View(mm)				Field of View(mm)			
	2/3"		1/2"		2/3"		1/2"	
	H	V	H	V	H	V	H	V
1000	502.8	368.3	300.6	251.4	393.6	288.3	235.3	196.8
	-0.028 x				-0.036 x			
900	452.9	331.7	270.7	226.5	353.3	258.8	211	176.5
	-0.031 x				-0.04 x			
800	402.6	294.9	240.6	201.3	313.3	229.5	187.1	156.5
	-0.035 x				-0.045 x			
700	352.4	258.1	210.6	176.2	273.8	200.6	163.6	136.8
	-0.04 x				-0.052 x			
600	301.9	221.2	180.5	151	233.9	171.4	139.7	116.9
	-0.047 x				-0.06 x			
500	252.3	184.8	150.8	126.2	194.1	142.2	115.9	97
	-0.056 x				-0.073 x			
400	202.1	148.1	120.8	101.1	154.3	113	92.1	77.1
	-0.07 x				-0.092 x			
300	152.1	111.4	90.9	76.1	114.4	83.8	68.3	57.2
	-0.093 x				-0.124 x			
200	102.2	74.8	61.1	51.1	74.6	54.6	44.5	37.3
	-0.138 x				-0.19 x			



More information

Delta Electronics, Inc

8. Keyuan 1st Road, Situn District, Taichung City 4077751, Taiwan, R.O.C

TEL : +886 4 2567 7670 # 2301

E-mail : sherry.chuang@deltaww.com

www.deltaww.com