

# MACHINE VISION LENSES

For Imaging Application

## Mega-Pixel Lenses with Super High Resolution

LV-series of super high resolution lenses have specially been designed and manufactured with the maximum consideration for the use with the Mega-Pixel sensor Machine Vision Cameras. Absolute minimum optical distortion and high resolution on entire view field are assured. Every lens is equipped with locking screws on focus and iris.



LV0814	LV1214	LV1614
2/3" Image Format f=8mm	2/3" Image Format f=12mm	2/3" Image Format f=16mm
F= 1 : 1.4	F= 1 : 1.4	F= 1 : 1.4
View Angle on 2/3" sensor (1/2" sensor) :	View Angle on 2/3" sensor (1/2" sensor) :	View Angle on 2/3" sensor (1/2" sensor) :
Horizontal : 56.5° (42.6 °)	Horizontal : 38.3° (28.3 °)	Horizontal : 30.0° (21.8 °)
Vertical : 43.9° (32.5 °)	Vertical : 26.2° (21.4 °)	Vertical : 22.7° (16.4 °)
Diagonal : 67.0° (52.1 °)	Diagonal : 46.8° (35.0 °)	Diagonal : 37.0° (27.0 °)
MOD (Minimum Object Distance): 0.1m	MOD (Minimum Object Distance): 0.15m	MOD (Minimum Object Distance): 0.2m
Object Size at MOD on 2/3" sensor (1/2" sensor)	Object Size at MOD on 2/3" sensor (1/2" sensor)	Object Size at MOD on 2/3" sensor (1/2" sensor)
Horizontal : 117.3mm (85.3mm)	Horizontal : 110.0mm (80.0mm)	Horizontal : 112.8mm (81.8mm)
Vertical : 88.0mm (64.0mm)	Vertical : 82.5mm (60.0mm)	Vertical : 84.4mm (61.2mm)
Diameter : 146.6mm (106.6mm)	Diameter : 137.5mm (100.0mm)	Diameter : 141.2mm (102.5mm)
Distortion on 2/3" sensor: -0.6%	Distortion on 2/3" sensor: - 0.07%	Distortion on 2/3" sensor: -0.05%
Back Focus : 9.5mm in air	Back Focus : 11.7mm in air	Back Focus : 13.1mm in air
Filter Screw : M27.0 P=0.5	Filter Screw : M27.0 P=0.5	Filter Screw : M25.5 P=0.5
C-Mount	C-Mount	C-Mount
Flange Back : 17.526mm	Flange Back : 17.526mm	Flange Back : 17.526mm
Dimension : 34 x 41.0mm	Dimension : 34 x 37.0mm	Dimension : 33 x 36.5mm
Weight : 83g	Weight : 75g	Weight : 81g



LV2514	LV3520	LV5028
2/3" Image Format f=25mm	2/3" Image Format f=35mm	2/3" Image Format f=50mm
F= 1 : 1.4	F= 1 : 2.0	F= 1 : 2.8
View Angle on 2/3" sensor (1/2" sensor) :	View Angle on 2/3" sensor (1/2" sensor) :	View Angle on 2/3" sensor (1/2" sensor) :
Horizontal : 19.6° (14.0 °)	Horizontal : 14.4° (10.5 °)	Horizontal : 9.6° (7.0 °)
Vertical : 14.8° (10.5 °)	Vertical : 10.8° (7.85 °)	Vertical : 7.2° (5.2 °)
Diagonal : 24.3° (17.5 °)	Diagonal : 17.9° (13.1 °)	Diagonal : 11.9° (8.7 °)
MOD (Minimum Object Distance): 0.2m	MOD (Minimum Object Distance): 0.2m	MOD (Minimum Object Distance): 0.2m
Object Size at MOD on 2/3" sensor (1/2" sensor)	Object Size at MOD on 2/3" sensor (1/2" sensor)	Object Size at MOD on 2/3" sensor (1/2" sensor)
Horizontal : 71.1mm (51.7mm)	Horizontal : 47.9mm (34.7mm)	Horizontal : 29.3mm (21.3mm)
Vertical : 53.3mm (38.7mm)	Vertical : 35.8mm (26.0mm)	Vertical : 21.9mm (16.0mm)
Diameter : 89.0mm (64.6mm)	Diameter : 60.0mm (43.5mm)	Diameter : 36.6mm (26.6mm)
Distortion on 2/3" sensor: - 0.04%	Distortion on 2/3" sensor: - 0.2%	Distortion on 2/3" sensor: - 0.03%
Back Focus : 11.1mm in air	Back Focus : 20.1mm in air	Back Focus : 35.5mm in air
Filter Screw : M27.0 P=0.5	Filter Screw : M27.0 P=0.5	Filter Screw : M27.0 P=0.5
C-Mount	C-Mount	C-Mount
Flange Back : 17.526mm	Flange Back : 17.526mm	Flange Back : 17.526mm
Dimension : 33 x 39.5mm	Dimension : 34 x 36.535mm	Dimension : 34 x 55mm
Weight : 89g	Weight : 69g	Weight : 92g

TUSS Vision, Inc.

Lens made in Japan