

## Genuine Mega-pixel Lenses, series of Fixed Focal Length

designed for professional imaging applications in machine vision, supreme visual surveillance and multi-media.  
With the series of TUSS lenses, images are crisp and clear to demonstrate full performance of the high quality camera.



### 2 Mega-pixel Resolution

2/3" & 1/2" image size



	KV0814M2	KV1214M2	KV1614M2	KV1614SS	KV2514SS
Image Format	2/3"	2/3"	2/3"	2/3"	2/3"
Focal Length	8mm	12mm	16mm	16mm	25mm
Max. Aperture	F1.4	F1.4	F1.4	F1.4	F1.4
Angular View (HxV)	57.32°x 44.29°	39.59°x 30.17°	30.46°x 23.07°	30.75°x 23.31°	20.1°x 15.1°
Min.Object Distance	0.1m	0.1m	0.1m	0.25m	0.25m
Lens Mount	C-Mount	C-Mount	C-Mount	C-Mount	C-Mount
Filter Screw	M27 P=0.5	M27 P=0.5	M27 P=0.5	M25.5 P=0.5	M25.5 P=0.5
Dimensions (Dia.x L)	30 x 47.5mm	30 x 47.5mm	30 x 43.0mm	29 x 29.5mm	29 x 31.5mm

	KV3520SS	KV5028SS	KV614SS
Image Format	2/3"	2/3"	1/2"
Focal Length	35mm	50mm	6mm
Max. Aperture	F2.0	F2.8	F1.4
Angular View (HxV)	14.33°x 10.45°	9.98°x 7.49°	57.40°x 44.30°
Min.Object Distance	0.25m	0.5m	0.2m
Lens Mount	C-Mount	C-Mount	C-Mount
Filter Screw	M25.5 P=0.5	M25.5 P=0.5	M30.5 P=0.5
Dimensions (Dia.x L)	29 x 38.5mm	29 x 38.5mm	32 x 37.5mm

### 3 Mega-pixel Resolution



	LV0828M3	LV1214M3	LV1614M3	LV2514M3	LV3514M3
Image Format	2/3"	2/3"	2/3"	2/3"	2/3"
Focal Length	8mm	12mm	16mm	25mm	35mm
Max. Aperture	F1.4	F1.8	F1.4	F1.4	F1.4
Angular View (HxV)	56.7°x 43.8°	40.3°x 30.8°	30.75°x 23.31°	8.8°x 6.6°	14.3°x 10.8°
Min.Object Distance	0.1m	0.15m	0.2m	0.2m	0.25m
Lens Mount	C-Mount	C-Mount	C-Mount	C-Mount	C-Mount
Filter Screw	M35.5 P=0.5	M35.5 P=0.5	M35.5 P=0.5	M35.5 P=0.5	M35.5 P=0.5
Dimensions (Dia.x L)	37.5 x 28mm	37.5x 56.5mm	37.5 x 60.5mm	37.5 x 44.4mm	37.5 x 56.3mm

### 5 Mega-pixel Resolution



	LV0828M5	LV1218M5	LV1614M5	LV2514M5	LV3514M5
Image Format	2/3"	2/3"	2/3"	2/3"	2/3"
Focal Length	8mm	12mm	16mm	25mm	35mm
Max. Aperture	F2.8	F1.8	F1.4	F1.4	F1.4
Angular View (HxV)	57.9°x 45.0°	40.3°x 30.8°	30.75°x 23.31°	8.8°x 6.6°	14.3°x 10.8°
Min.Object Distance	0.1m	0.15m	0.2m	0.2m	0.25m
Lens Mount	C-Mount	C-Mount	C-Mount	C-Mount	C-Mount
Filter Screw	M49 P=0.75	M49 P=0.75	M49 P=0.75	M49 P=0.75	M49 P=0.75
Dimensions (Dia.x L)	51 x 48.4mm	51 x 59mm	51 x 62.5mm	51 x 48.0mm	51 x 62.0mm

### Mega-Pixel Lenses, Fixed Focal



	LV0612H	LV0814	LV1214	LV1614	LV2514
Image Format	1/2"	2/3"	2/3"	2/3"	2/3"
Focal Length	6mm	8mm	12mm	16mm	25mm
Max. Aperture	F1.2	F1.4	F1.4	F1.4	F1.4
Angular View (HxV)	56.2° x 43.5°	56.5° x 43.9°	38.3° x 26.2°	30.0° x 22.7°	19.6° x 14.8°
Min.Object Distance	0.1m	0.1m	0.15m	0.2m	0.2m
Lens Mount	C-Mount	C-Mount	C-Mount	C-Mount	C-Mount
Filter Screw	M 30.5 P= 0.5	M 27 P= 0.5	M 27 P= 0.5	M 25.5 P= 0.5	M 27.0 P= 0.5
Dimensions (Dia.x L)	32 x 45.8mm	34 x 41.6mm	34 x 37mm	33 x 36.5mm	33 x 39.5mm

	LV3520	LV5028
Image Format	2/3"	2/3"
Focal Length	35mm	50mm
Max. Aperture	F2.0	F2.8
Angular View (HxV)	14.4° x 10.8°	9.6° x 7.2°
Min.Object Distance	0.2m	0.2m
Lens Mount	C-Mount	C-Mount
Filter Screw	M 27 P= 0.5	M 27.0 P= 0.5
Dimensions (Dia.x L)	34 x 36.535mm	34 x 55mm

# Genuine Mega-pixel Machine Vision Lenses

for CMOS&CCD Cameras

Designed to ensure high quality image capturing on multi-mega-pixel

CMOS or CCD camera for high-end machine vision applications

Every lens ensures genuine megapixel quality resolution.



## 1.3 Mega-pixel Resolution

1" format

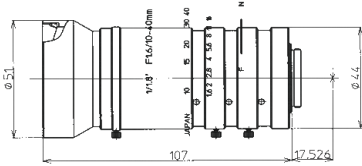


	LVK0814	LVK1214	LVK1614	LVK2514	LVK3514
Image Format	1"	1"	1"	1"	1"
Focal Length	8mm	12.5mm	16mm	25mm	35mm
Max. Aperture	F1.4	F1.4	F1.4	F1.4	F1.4
Angular View (HxV)	79.7° x 63.0°	55.6° x 42.5°	44.3° x 33.6°	29.3° x 22.0°	20.9° x 15.8°
Min.Object Distance	0.1m	0.3m	0.3m	0.3m	0.3m
Lens Mount	C-Mount	C-Mount	C-Mount	C-Mount	C-Mount
Filter Screw	M55 P=0.75	M27 P=0.5	M35.5 P=0.5	M35.5 P=0.5	M35.5 P=0.5
Dimensions (Dia.x L)	57 x 58mm	42 x 52mm	42 x 52.9mm	42 x 43mm	42 x 43mm

	LVK6014	LVK7518
Image Format	1"	1"
Focal Length	50mm	75mm
Max. Aperture	F1.4	F1.8
Angular View (HxV)	14.5° x 10.8°	9.7° x 7.3°
Min.Object Distance	0.3m	0.5m
Lens Mount	C-Mount	C-Mount
Filter Screw	M40.5 P=0.5	M46 P=0.75
Dimensions (Dia.x L)	47.5 x 48mm	48 x 57mm

## Mega-pixel Lenses, Vari Focal

1/1.8" format



	LVF4411	LV1040	LV1664
Image Format	1/1.8"	1/1.8"	1"
Focal Length	4.4-110mm	10-40mm	16-64mm
Max. Aperture	F1.6	F1.6	F1.8
Angular View (HxV) Wide	76.6° x 61.2°	39.5° x 22.5°	45.9° x 34.2°
Angular View (HxV) Tele	36.7° x 28.0°	10.5° x 7.9°	11.7° x 8.8°
Min.Object Distance	0.3m	0.5m	1m
Lens Mount	C-Mount	C-Mount	C-Mount
Filter Screw	M43 x P=0.75	M49 x P=0.75	M58 x P=0.75
Dimensions (Dia.x L)	Φ45.0mm x 56.5mm	Φ51.0mm x 107mm	Φ60.0mm x 124mm



## Video Intelligent Transport Systems



## High Speed Lenses

F0.95



	LX2595N	LX6009N	SX1709N
Image Format	1"	1"	2/3"
Focal Length	25.0mm	50.0mm	17mm
Max. Aperture	F0.95	F0.95	F0.95
Angular View (HxV)	28.48° x 21.00°	14.6° x 11.0°	30.38° x 22.56°
Min.Object Distance	0.45m	0.6m	0.42m
Lens Mount	C-Slip Mount	C-Mount	C-Slip Mount
Filter Screw	M40.5 P=0.5	M62.0 P=0.75	M40.5 P=0.5
Dimensions (Dia.x L)	42 x 45mm	65 x 74.1mm	42 x 66.5mm

# Genuine Mega-pixel Machine Vision Lenses

for CMOS&CCD Cameras

Designed to ensure high quality image capturing on multi-mega-pixel

CMOS or CCD camera for high-end machine vision applications

Every lens ensures genuine megapixel quality resolution.



## High Resolution, Fixed Focal

### 2/3", 1/2", 1" format lenses



	LMV813-2	LMV1614	LMV5018	LMV7527	LMV10035
Image Format	2/3"	2/3"	2/3"	2/3"	2/3"
Focal Length	8mm	16mm	50mm	75mm	100mm
Max. Aperture	F1.3	F1.4	F1.8	F2.7	F3.5
Angular View (HxV)	57.8°x45°	30.7°x 23.2°	10.4°x 7.8°	6.33°x 4.55°	5°x 7.8°
Min.Object Distance	0.2m	0.4m	1.0m	1.0m	1.0m
Lens Mount	C-Mount	C-Mount	C-Mount	C-Mount	C-Mount
Filter Screw	M25.5 P=0.5	M27 P=0.5	M30.5 P=0.5	M30.5 P=0.5	M30.5 P=0.5
Dimensions (Dia.x L)	30x34.5mm	30 x 24.5mm	32 x 37mm	32 x 42.5mm	32 x 44.2mm

	LMV614H	LMV1214H	LMV2514L
Image Format	1/2"	1/2"	1"
Focal Length	6mm	12mm	25mm
Max. Aperture	F1.4	F1.4	F1.4
Angular View (HxV)	50°x 36°	29°x 22°	29.2°x 21.8°
Min.Object Distance	0.2m	0.3m	0.5m
Lens Mount	C-Mount	C-Mount	C-Mount
Filter Screw	M27 P=0.5	M27 P=0.5	M27 P=0.5
Dimensions (Dia.x L)	30 x 30mm	30 x 34.5mm	30 x 24.5mm

## High Resolution, Fixed Focal

### 2/3" Format Lenses



	MV618T	MV0814TL	MV1218TL	MV1614TL	MV2516TL
Image Format	2/3"	2/3"	2/3"	2/3"	2/3"
Focal Length	6.5mm	8mm	12mm	16mm	25mm
Max. Aperture	F1.8	F1.4	F1.8	F1.4	F1.6
Angular View (HxV)	71.60°x 55.50°	59.3°x 45.2°	30.9°x 23.2°	30.90°x 23.20°	20.10°x 15.00°
Min.Object Distance	0.2m	0.26m	0.29m	0.3m	0.25m
Lens Mount	C-Mount	C-Mount	C-Mount	C-Mount	C-Mount
Filter Screw	M35.5 P=0.5	M25.5 P=0.5	M25.5 P=0.5	M25.5 P=0.5	M25.5 P=0.5
Dimensions (Dia.x L)	37 x 31.5mm	30.5 x 27mm	30.5 x 27mm	30.5 x 25mm	30.5 x 25.5mm

	MV3521TL	MV5028TL	MV7539TL
Image Format	2/3"	2/3"	2/3"
Focal Length	35mm	50mm	75mm
Max. Aperture	F2.1	F2.8	F3.9
Angular View (HxV)	14.3°x 10.8°	10.00°x 7.50°	6.90°x 5.20°
Min.Object Distance	0.3m	0.5m	0.5m
Lens Mount	C-Mount	C-Mount	C-Mount
Filter Screw	M25.5 P=0.5	M25.5 P=0.5	M25.5 P=0.5
Dimensions (Dia.x L)	30.5 x 32.0mm	30.5 x 38.5mm	27.5 x 65.5mm

## Mega-Pixel 3CCD Lenses

### 1/2" Format Lenses



	LV0418/3C	LV0618/3C	LV1218/3C	LV2518/3C	LV5018/3C
Image Format	1/2"	1/2"	1/2"	1/2"	1/2"
Focal Length	4mm	6mm	12mm	25mm	50mm
Max. Aperture	F1.8	F1.8	F1.8	F1.8	F1.8
Angular View (HxV)	83.4°x 64.5°	58.8°x 44.9°	30.4°x 22.8°	14.6°x 11.0°	7.0°x 5.3°
TV Distortion	-5.0%	-2.1%	-0.90%	-0.17%	0.01%
Lens Mount	C-Mount	C-Mount	C-Mount	C-Mount	C-Mount
Weight	111g	99g	90g	75g	50g
Dimensions (Dia.x L)	Φ34 x 62.2mm	Φ30 x 60.8mm	Φ30 x 58.8mm	Φ30 x 47mm	Φ40 x 66mm

## Line Sensor Lenses



	PF4040ML	PF5028ML	OF6328ML
Image Circle	Φ43.2mm	Φ43.2mm	Φ55.2mm
Focal Length	40.1mm	52.1mm	63.0mm
Magnification	-0.1x	-0.125x	-0.125x
Angular View	52°	41°	43°
Flange Back Distance	47.0mm	49.1mm	62.8mm
Lens Mount	Leica-Mount	Leica-Mount	Leica-Mount
Dimensions	Φ51.2mm x 42mm	Φ51.2mm x 39.8mm	Φ51.2mm x 43mm

Macro 4X ZOOM LENS, WD\*56-150mm



	MVZ4X02	MVZ4X025	MVZ4X05	MVZ4X075
Image Format	2/3"	2/3"	2/3"	2/3"
Magnification	0,2x - 0,75x	0,25x - 1x	0,5x - 2x	0,75x - 3x
NA	0,012-0,018	0,003-0,025	0,021-0,045	0,032-0,068
WD	150mm	175mm	90mm	56mm
DOF	4.0mm~1.0mm	3.2mm~0.6mm	1,4mm~0,4mm	1,0mm~0,2mm
Resolution	50µm~16µm	35µm~20µm	25µm~10µm	20µm~8µm
Weight	230g	220g	220g	220g
Dimensions (Dia.x L)	169.5 x Φ28	149 x Φ30,8	151.5 x Φ28	151.5 x Φ28

MVZ6X10	
Image Format	2/3"
Magnification	1x - 6x
NA	0,032~0,108
WD	60mm
DOF	2.3mm~0.02mm
Resolution	10.5µm~4µm
Weight	250g
Dimensions (Dia.x L)	151.5 x Φ28

Fixed Focal, High Magnification, WD: 75mm



	MVF200	MVF400	MVF600	MVF800
Image Format	2/3"	2/3"	2/3"	2/3"
Magnification	x 2.0	x 4.0	35mm	50mm
NA	0,076	0,076	0,076	0,076
WD	75mm	75mm	75mm	75mm
DOF	0,4mm	0,2mm	0,14mm	0,12mm
Resolution	8µm	4µm	3µm	3µm
Weight	35g	40g	40g	40g
Dimensions (Dia.x L)	16 x 72.8mm	16 x 103.6mm	16 x 103.6mm	16 x 103.6mm

	MVF200L	MVF400L	MVF600L	MVF800L
Image Format	2/3"	2/3"	2/3"	2/3"
Forcal Length	16mm	25mm	35mm	50mm
NA	0,076	0,076	0,076	0,076
WD	75mm	75mm	75mm	75mm
DOF	0,4mm	0,2mm	0,14mm	0,12mm
Resolution	8µm	4µm	3µm	3µm
Weight	45g	50g	50g	50g
Dimensions (Dia.x L)	16 x 76.2mm	16 x 107.1mm	16 x 107.1mm	16 x 107.1mm

(L-type: equipped with coaxial light guide)

Lens Accessories  
for CMOS & CCD Cameras

EX-20K	EXE15	EXE30	EXE40	EX10	EX010
2-time extender, Megapixel	1.5-time range extender	3-time range extender	4-time range extender	Extension tube kit	1.0mm spacer
EXE020	EX15	EXR20	EXR25	EXR30	EXR50
2.0mm spacer	5.0mm spacer	20mm extension tube	25mm spacer	30mm extension tube	50mm extension tube
PL Filter	UV-cut Filter	IR-cut Filter	Red Filter	Blue Filter	Green Filter