



Quality of Light

go BIG

50MP lens series for sensors up to a diameter of 32mm

VM SERIES

2"

50
MP

3.1µm

NEW

VM SERIES

50MP lens series for sensors up to a diameter of 32mm

2"

50
MP

3.1 μ m



18
mm

25
mm

35
mm

Available in
TFL/TFL II and M42-mounts.

Image size	2" (Φ32)
Mount	TFL/TFL II and M42
Resolution	50 MP (3.1μm)
F No.	F2.8



Technical data and marketing materials.

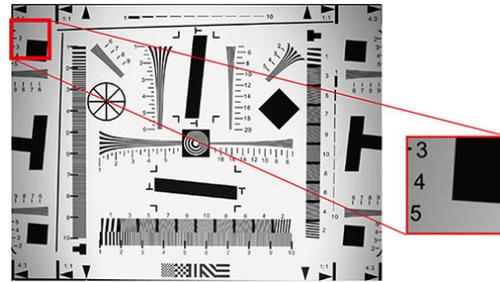
- > **Large image size** of $\phi 32\text{mm}$ with M42-mount or TFL/TFL II-mount.
- > **High quality lenses** with a resolving power of $3.1\mu\text{m}$.
- > **Suitable for 8K resolution** and are rated at up to 50 megapixels for use with top performance cameras.
- > **Kowa's new and innovative switch locking screw mechanism** prevents thumb screws from falling off.
- > **The flange back distance can be modified** by attaching optional mount adapters to convert to TFL-II or other formats.
- > **High magnification design** with a focusing range as close as 0.1m.

NEW

High Resolution Image in the Corners.

Kowa introduces a new 50MP lens series for sensors up to a diameter of 32mm. The VM series can be used with sensors down to a pixel size of $3.1\mu\text{m}$.

This makes it suitable for sensors such as Sony IMX342, CMOSIS CMV12000, CMV20000 and CMV50000.



Optional Mount Adapters.

The series is offered with M42-mount and TFL/TFL II-mount (M35-mount).

Lenses in the VM42 series are supplied with a selection of adapters to change the flange back distance.

*Mount adapters do not work with VM35 series lenses.

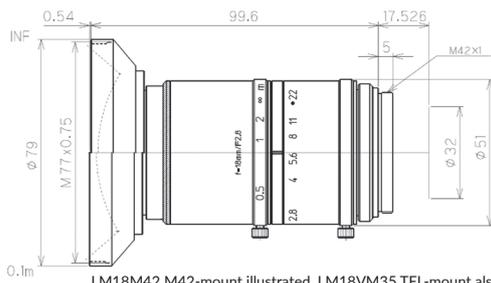
Kowa's VM series features a newly designed switch locking screw mechanism that prevents thumb screws from falling out.



Applications

Flat panel display inspection, line scan, aerial photography including drones.

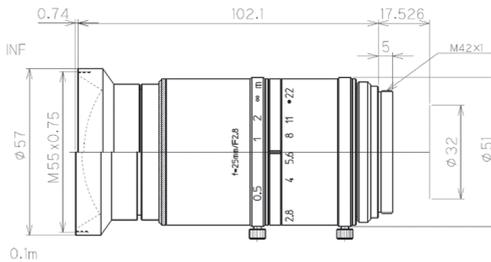
LM18VM42 | LM18VM35



LM18M42 M42-mount illustrated. LM18VM35 TFL-mount also available.

2" 2.8/18mm M42	2"	APS-C	4/3"
FOCAL LENGTH	f=18mm		
F-NUMBER	F=2.8-16		
PICTURE SIZE	25.6x19.6mm	22.3x16.7mm	18.4x13.8mm
ANGLE OF VIEW (H)	VER. ANGLE 56.1° HOR. ANGLE 70.5° DIA. ANGLE 81.8°	42.7° 53.4° 74.8°	41.8° 54.1° 65.0°
DISTORTION (TV)	1.25%	0.44%	-0.05%
FIELD OF VIEW (MINIMUM FOCUS DISTANCE)	VER. 128mm HOR. 172mm DIA. 213mm	111mm 149mm 187mm	92mm 123mm 154mm
FLANGE BACK	17.526mm in air		
BACK FOCUS	15.5mm in air		
FILTER SCREW SIZE	M77x0.75		
FRONT/REAR EFFECTIVE DIA.	FRONT #55.0mm	REAR #25.4mm	
MOUNT	M42x1		
EXIT PUPIL	-65.1mm		
TEMPERATURE RANGE	-10~+50°C		
STORAGE TEMPERATURE RANGE	-20~+60°C		
RESOLUTION CENTER/CORNER	CENTER 160lp/mm	CORNER 100lp/mm	
WEIGHT	460g		

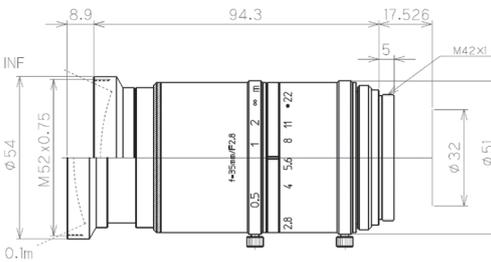
LM25VM42 | LM25VM35



LM25M42 M42-mount illustrated. LM25VM35 TFL-mount also available.

2" 2.8/25mm M42	2"	APS-C	4/3"
FOCAL LENGTH	f=25mm		
F-NUMBER	F=2.8-16		
PICTURE SIZE	25.6x19.6mm	22.3x16.7mm	18.4x13.8mm
ANGLE OF VIEW (H)	VER. ANGLE 42.0° HOR. ANGLE 54.0° DIA. ANGLE 64.6°	37.0° 48.0° 57.9°	30.9° 40.4° 49.3°
DISTORTION (TV)	0.59%	0.34%	0.19%
FIELD OF VIEW (MINIMUM FOCUS DISTANCE)	VER. 93mm HOR. 125mm DIA. 157mm	81mm 109mm 136mm	67mm 89mm 112mm
FLANGE BACK	17.526mm in air		
BACK FOCUS	20.5mm in air		
FILTER SCREW SIZE	M55x0.75		
FRONT/REAR EFFECTIVE DIA.	FRONT #42.4mm	REAR #24.6mm	
MOUNT	M42x1		
EXIT PUPIL	-54.1mm		
TEMPERATURE RANGE	-10~+50°C		
STORAGE TEMPERATURE RANGE	-20~+60°C		
RESOLUTION CENTER/CORNER	CENTER 160lp/mm	CORNER 100lp/mm	
WEIGHT	400g		

LM35VM42 | LM35VM35



LM35M42 M42-mount illustrated. LM35VM35 TFL-mount also available.

2" 2.8/35mm M42	2"	APS-C	4/3"
FOCAL LENGTH	f=35mm		
F-NUMBER	F=2.8-16		
PICTURE SIZE	25.6x19.6mm	22.3x16.7mm	18.4x13.8mm
ANGLE OF VIEW (H)	VER. ANGLE 30.7° HOR. ANGLE 40.2° DIA. ANGLE 49.1°	26.9° 35.4° 43.4°	22.3° 29.5° 36.4°
DISTORTION (TV)	0.12%	0.03%	-0.00%
FIELD OF VIEW (MINIMUM FOCUS DISTANCE)	VER. 57mm HOR. 76mm DIA. 96mm	50mm 67mm 83mm	41mm 55mm 69mm
FLANGE BACK	17.526mm in air		
BACK FOCUS	19.5mm in air		
FILTER SCREW SIZE	M52x0.75		
FRONT/REAR EFFECTIVE DIA.	FRONT #44.0mm	REAR #26.6mm	
MOUNT	M42x1		
EXIT PUPIL	-53.4mm		
TEMPERATURE RANGE	-10~+50°C		
STORAGE TEMPERATURE RANGE	-20~+60°C		
RESOLUTION CENTER/CORNER	CENTER 160lp/mm	CORNER 100lp/mm	
WEIGHT	375g		



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Search Kowa lenses



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