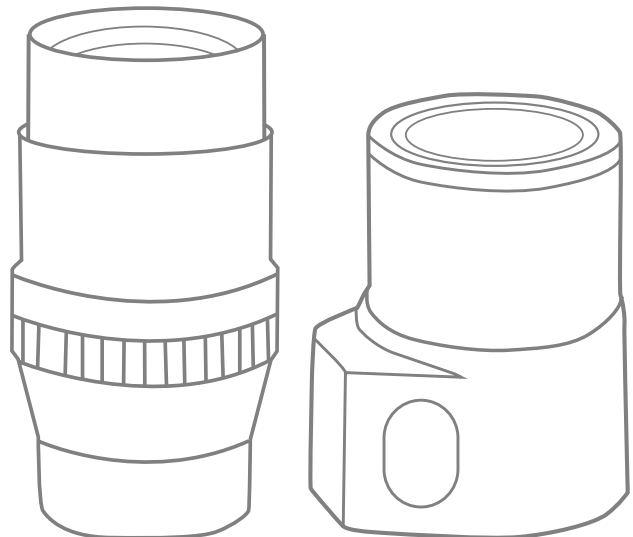




MACHINE VISION ZOOM LENSES

The zoom lens is a camera lens that can change the focal length within a certain range, so as to obtain different wide and narrow angles of view, images of different sizes and different scene ranges.

The biggest feature of the zoom industrial lens is that the focal length of the lens can be changed according to the wishes of the photographer. The zoom lens realizes the change of focal length by pushing, pulling or rotating the zoom ring of the lens. Within the zoom range of the lens, the focal length can be changed infinitely, and shooting can be carried out at the approved focal length within the zoom range, which creates conditions for realizing the diversification of composition.



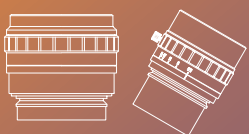
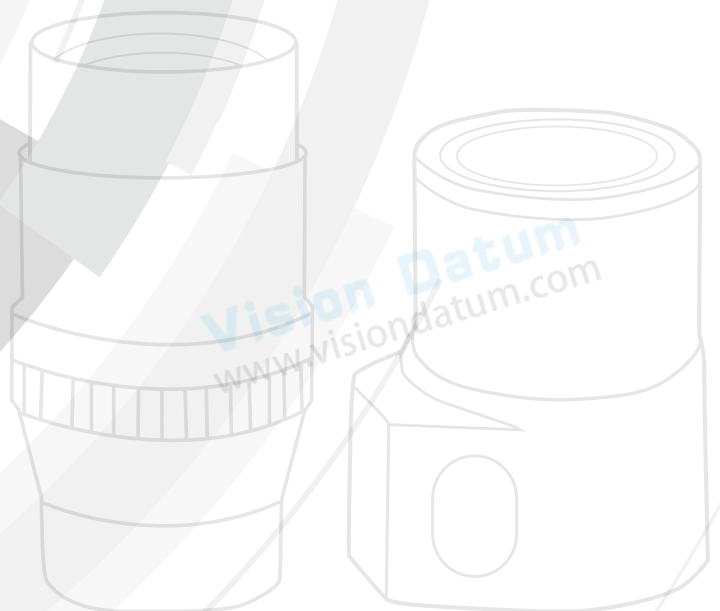
Subject to change without prior notice.

For more information, please contact our sales representatives.

ABOUT US

Hangzhou Vision Datum Technology Co.,Ltd. is China top leading professional machine vision products manufacturer and supplier, who have been specializing in design, development and producing machine vision products, software and systems.

With advanced technology and creative power of image acquisition and processing, Vision Datum major products have included industrial camera, scientific standard camera, industrial FA lens, telecentric lens, machine vision lights and image processing software. All products comply with international quality standards and we have more than 20 years industry experience in the fields of machine vision image acquisition and processing, optical imaging and automation.



VISION DATUM

1/3"~1" ZOOM LENSES



NAMING RULES

LEM 05100 16 i/AT

i: With IR; AT: Auto zoom and auto focus

FNo.: F1.6

EFL: 5-100mm

1/3"~1" ZOOM LENSES

Part name	Sensor Size (inch)	EFL (mm)	Aperture (F/#)	M.O.D. (m)	Angle of View (deg.)	Mount	Resolution
VT-LEM0510016i-AI	1/3"	5-100	1.6	0.7	H: 52° ~ 2.8°	CS-Mount	1.3
VT-LEM055016	1/3"	5-50	1.6	0.3	4.2° ~ 53.6°	CS-Mount	-
VT-LEM066016i	1/3"	6-60	1.6	0.5	H: 44° ~ 4.58°	CS-Mount	-
VT-LEM10120016i-AT	1/3"	10-120	1.6	2	H: 27° ~ 2.3°	CS-Mount	1
VT-LEM0281016-AT	1/2.8"	2.8-10	1.6	0.5	D:128° ~ 41°, H:97° ~ 33°, V:70° ~ 24.5°	Ø14	1
VT-LEM0281016i	1/2.8"	2.8-10	1.6	0.1	D:120.6° ~ 40.2°, H:94.2° ~ 32.1°, V:69° ~ 24.4°	CS-Mount	0.3@ 200lp/mm
VT-LEM03310514i	1/2.5"	3.3-10.5	1.4	0.3	H: 90.5° ~ 30.4°	CS-Mount	3
VT-LEM055014i-MP3	1/2.5"	5-50	1.4	0.2	5.36° ~ 51.5°	CS-Mount	3
VT-LEM102221-AT	1/2.5"	10-22	2.1	0.3	D:40 ~ 20°, H:31.2 ~ 16°, V: 23 ~ 12°	Ø14	1
VT-LEM041816-AI	1/1.8"	4-18	1.6	0.3	D:137°, H:110°, V: 82°	C-Mount	3
VT-LEM03818MP12-AT	1/1.7"	3.8-18	1.5	-	W: D:156°, H: 111°, V: 80° T: D:38°, H: 30°, V: 23°	CS-Mount	12
VT-LEM03618MP12	1/1.7"	3.6-18	1.5	-	W: D:156°, H: 111°, V: 80° T: D:38°, H: 30°, V: 23°	CS-Mount	12
VT-LEM0441012-AT	1/1.7"	4.4-10	W:1.2,T:2.9	0.5	D:150 ~ 57.7°, H:104 ~ 45.8°, V: 73.6 ~ 34.2°	Ø19	1
VT-LEM0281216i	1/2"	2.8-12	1.6	0.3	H: 98° ~ 30.5°	C-Mount	3
VT-LEM061216	1/2"	6-12	1.6	0.1	53.9° × 29.6°	C-Mount	-
VT-LEM1060MP2	2/3"	10-60	1.4	-	51° ~ 11°	C-Mount	2
VT-LEM1236MP3-23	2/3"	12-36	2.8	-	W: D: 50.8°, H:41.3°, V:31.2° T: D:17.0°, H: 13.8°, V: 10.4°	C-Mount	3
VT-LEM1236MP10	2/3"	12-36	2.8	-	W: D: 50.8°, H:41.3°, V:31.2° T: D:17.0°, H: 13.8°, V: 10.4°	C-Mount	10
VT-LEM1648MP3	2/3"	16-48	2.0	0.2	W: 30.0° × 22.7°, T:11.2° × 8.4°	C-Mount	3
VT-LEM104020MP3	2/3"	10-40	2.0	0.3	W: D:47.5°, H: 40.3°, V: 30.8° T: D:16.7°, H: 13.4°, V: 10.1°	C-Mount	3
VT-LEM1632MP5-H1	1"	16-32	1.8	1.5	W: D: 53.26°, H:43.85°, V:33.44° T: D:27.57°, H: 22.43°, V: 17.01°	C-Mount	100@ 1p/ mm

1/3" -1" ZOOM LENSES

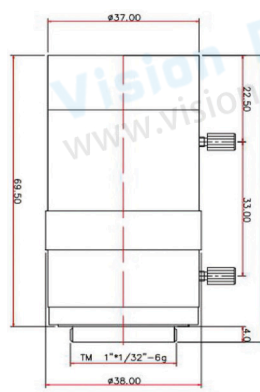
1. 1-12MP pixels.
2. Any focal length within the zoom range can be used for photography.
3. Arrange the picture composition more ideally before shooting.
4. High environmental adaptability, can work normally in the environment of -10°C ~ 50°C .

VT-LEM0510016i-AI



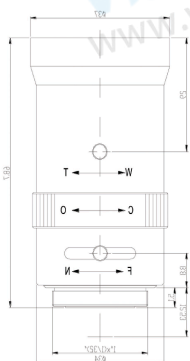
EFL (mm)	5-100
FNo.	F=1.6
Image Fromat	1/3"
F.O.V. (H)	52 ~ 2.8°
M.O.D. (m)	0.7
Lens-Mount	CS-Mount
Dimension Ø×L×W(mm)	Ø37.5 × 87.4 ×57.4
Weight (g)	164±5%
Operation	Focus W / Locks
	Zoom W / Locks
	Iris DC
Temperature	-10~+50°C

VT-LEM055016



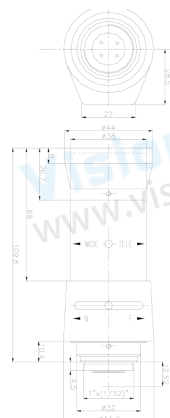
EFL (mm)	5-50
FNo.	F=1.6
Image Fromat	1/3" CCD/CMOS
F.O.V.	4.2 ~ 53.6°
M.O.D. (m)	0.3
BFL(mm)	8
Lens-Mount	CS-Mount
Dimension Ø×L(mm)	Ø36 × 74.5
Weight (g)	160
Operation	Zoom W / Locks
	Iris W / Locks
Temperature	-10~+50°C

VT-LEM066016i



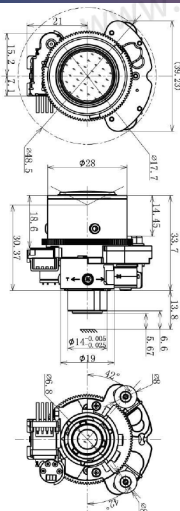
EFL (mm)	6-100
FNo.	F=1.6
Image Fromat	1/3" CCD/CMOS
F.O.V. (H)	44° ~ 4.58°
M.O.D. (m)	0.5
Lens-Mount	CS-Mount
Dimension Ø×L×W(mm)	Ø37 x 68.7 x 34
Weight (g)	118±3
Operation	Focus W / Locks
	Zoom W / Locks
	Iris Manual
Temperature	-10~+50°C

VT-LEM10120016i-AT



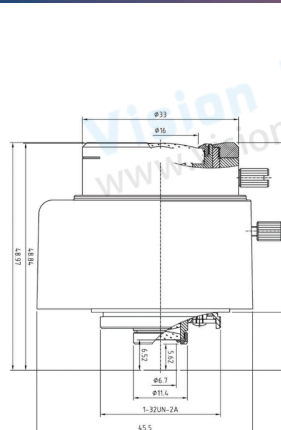
EFL (mm)	10-120
FNo.	F=1.6
Image Fromat	1/3" CCD/CMOS
F.O.V. (H)	27 ~ 2.3°
M.O.D. (m)	2
Resolution	1MP / IR
Lens-Mount	CS-Mount
Dimension Ø×L×W(mm)	Ø44 x 109.8 x 50.6
Weight (g)	210±2
Operation	Focus W / Locks
	Zoom W / Locks
	Iris Manual
Temperature	-10~+50°C

VT-LEM0281016-AT



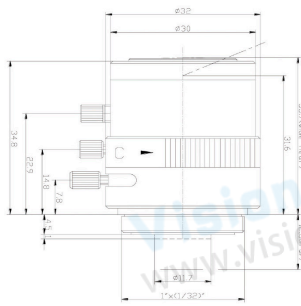
EFL (mm)	2.8-10
FNo.	F=1.6
Image Fromat	1/2.8" CCD/CMOS
F.O.V. (D/H/V)	D: 128° ~ 41° H: 97° ~ 33° V: 70° ~ 24.5°
M.O.D. (m)	0.5
Distortion	-51%W~-5.0%T
Resolution	1MP
TTL (mm)	49.04
BFL (mm)	6.23-12.79
Iris	P-Iris (ICR)
Lens-Mount	Ø14
Dimension Ø×L×W(mm)	Ø28×33.7×Ø48.5
Operation Zoom	-
Temperature	-10~+50°C

VT-LEM0281016i



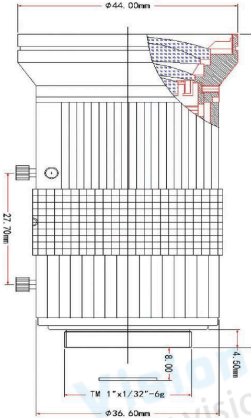
EFL (mm)	2.8-10
FNo.	F=1.6
Image Fromat	1/2.8" CCD/CMOS
F.O.V. (D/H/V)	D: 120.6° ~ 40.2° H: 94.2° ~ 32.1° V: 69° ~ 24.4°
M.O.D. (m)	0.1
Distortion	-
Resolution	0.3@200lp/mm
BFL (mm)	6.52-13.4
Effective Aperture	Ø16mm
Lens-Mount	CS-Mount
Dimension Ø×L×W(mm)	Ø33×36.47×45.5
Operation Iris	Auto
Temperature	-10~+50°C

VT- LEM03310514i



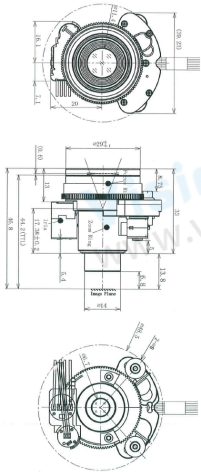
EFL (mm)	3.3-10.5
FNo.	F=1.4
Image Fromat	1/2.5" CCD/CMOS
F.O.V. (H)	90.5 ~ 30.4°
M.O.D. (m)	0.3
Resolution	3MP / IR
Lens-Mount	CS-Mount
Dimension Ø×L×W(mm)	Ø32 × 39.3
Weight (g)	48±2
Operation	Focus W / Locks
	Zoom W / Locks
	Iris Manual
Temperature	-10~+50°C

VT-LEM055014i-MP3



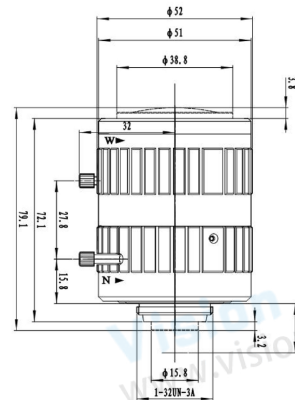
EFL (mm)	5-50
FNo.	F=1.4
Image Fromat	1/2.5" CCD/CMOS
F.O.V.	5.36° - 51.5°
M.O.D. (m)	0.2
Resolution	3MP
BFL(mm)	8
Lens-Mount	CS-Mount
Dimension Ø×L×W(mm)	Ø44 x 77.8
Weight (g)	152.5
Operation	Zoom W / Locks
	Iris W / Locks
Temperature	-10~+50°C

VT-LEM102221-AT



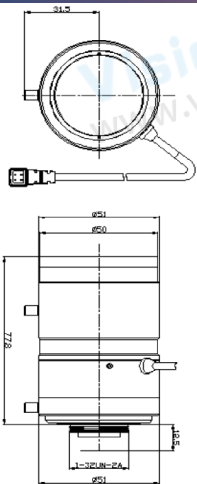
EFL (mm)	10-22
FNo.	F=2.1
Image Fromat	1/2.5" CCD/CMOS
F.O.V. (D/H/V)	D: 40 ~ 20° H: 31.2 ~ 16° V: 23 ~ 12°
M.O.D. (m)	0.3
Resolution	1MP
BFL(mm)	7.64 ~ 13.95
TV Distortion	-5%W ~ -0.83%T
Iris	DC-Iris(ICR)
Lens-Mount	Ø14
Dimension Ø×L×W(mm)	Ø29×33×Ø48.5
Operation Zoom	-
Temperature	-10~+50°C

VT-LEM041816-AI



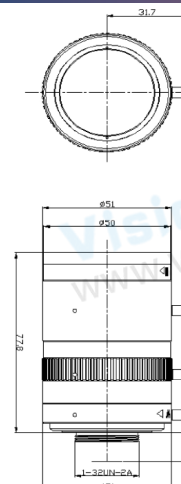
EFL (mm)	4-18
FNo.	F=1.6
Image Fromat	1/1.8" CCD/CMOS
F.O.V. (D/H/V)	137°/110°/82°
M.O.D. (m)	0.3
Resolution	3MP
BFL(mm)	8-20
Distortion	-57.5% ~ -2.7%
Lens-Mount	C-Mount
Dimension Ø×L(mm)	Ø52 x 79.1
Weight (g)	207.3±5
Operation	Focus Manual
	Zoom Manual
	Iris Auto (DC)
Temperature	-20~+60°C

VT-LEM03818MP12-AT



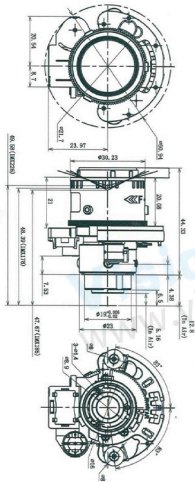
EFL (mm)	3.8-18
FNo.	F=1.5
Image Fromat	1/1.7" CCD/CMOS
F.O.V. (D/H/V)	W: 156° / 111° / 80° T: 38° / 30° / 23°
Resolution	12MP
FBL (mm)	12.5
Focus range (m)	0.3 (W) ~ ∞
Distortion	-57.5% ~ -2.7%
TTL (mm)	≤96
Lens-Mount	CS-Mount
Dimension Ø×L(mm)	Ø51 × 77.8
Operation	Focus Manual
	Zoom Manual
	Iris Auto (DC)
Temperature	-10~+50°C

VT-LEM03618MP12



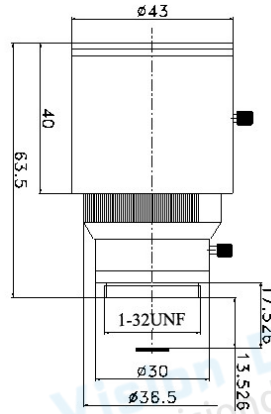
EFL (mm)	3.6-18
FNo.	F=1.5
Image Fromat	1/1.7" CCD/CMOS
F.O.V. (D/H/V)	W: 156° / 111° / 80° T: 38° / 30° / 23°
Resolution	12MP
FBL (mm)	12.5
Focus range (m)	0.3 (W) ~ ∞
TV Distortion	<-28%
TTL (mm)	≤96
Lens-Mount	CS-Mount
Dimension Ø×L(mm)	Ø51 x 77.8
Operation	Focus Manual
	Zoom Manual
	Iris Manual
Temperature	-10~+50°C

VT-LEM0441012-AT



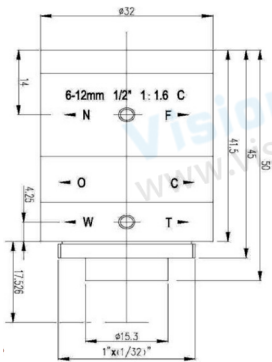
EFL (mm)	4.4-10
FNo.	F=1.2(W)-F2.9(T)
Image Fromat	1/1.7" CCD/CMOS
F.O.V. (D/H/V)	D: 150 ~ 57.7° / H: 104 ~ 45.8° / V: 73.6 ~ 34.2°
M.O.D. (m)	0.5
Resolution	1MP
BFL(mm)	6.28 ~ 11.64
Focus range	0.3 m (W) ~ ∞
Distortion	-29%W ~ -6%T
TTL(mm)	52.76
Iris	P-Iris (ICR)
Lens-Mount	CS-Mount
Dimension Ø×L×W(mm)	Ø30.2 × 40.2 × Ø51
Temperature	-10~+50°C

VT-LEM0281216i



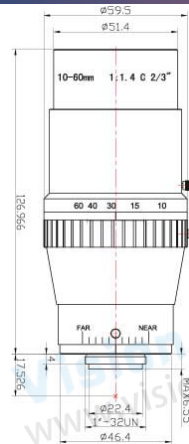
EFL (mm)	2.8-12
FNo.	F=1.6
Image Fromat	1/2" CCD/CMOS
F.O.V. (H)	98-30.5°
M.O.D. (m)	≥0.3
Resolution	3MP
Lens-Mount	C-Mount
Dimension Ø×L (mm)	Ø43 x 67.5
Weight (g)	140g
Focus	W / Locks
Operation	Zoom Fixed
Iris	Manual
Temperature	-10~+50°C

VT-LEM061216



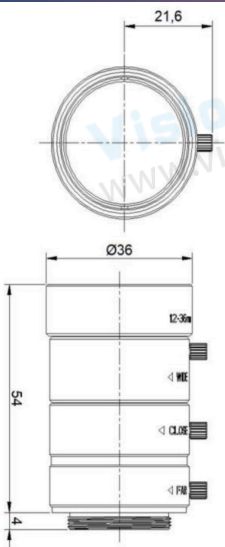
EFL (mm)	6-12
FNo.	F=1.6
Image Fromat	1/2" CCD/CMOS
F.O.V. (H)	53.9° x 29.6°
M.O.D. (m)	0.1
Resolution	3MP
Distortion	-0.1%
Lens-Mount	C-Mount
Dimension Ø×L (mm)	Ø32 x 49.6
Weight (g)	118g
Focus	Manual
Operation	Zoom Manual
Iris	Manual
Temperature	-10~+50°C

VT-LEM1060MP2



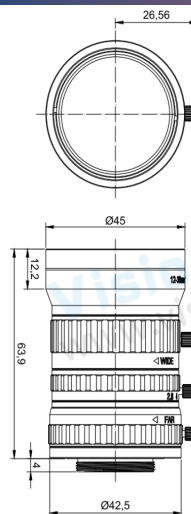
EFL (mm)	10-60
FNo.	F=1.4
Image Fromat	2/3" CCD/CMOS
F.O.V. (D/H/V)	51° ~ 11°
BFL (mm)	10.51
Resolution	2MP
Wavelength(nm)	400-950
Distortion(mm)	<12~1%
IR Correction	OK
Filter Size(mm)	M49×0.75
Lens-Mount	C-Mount
Dimension Ø×L (mm)	Ø59.5×126.966
Operation	Iris Manual
Temperature	-10~+50°C

VT-LEM1236MP3-23



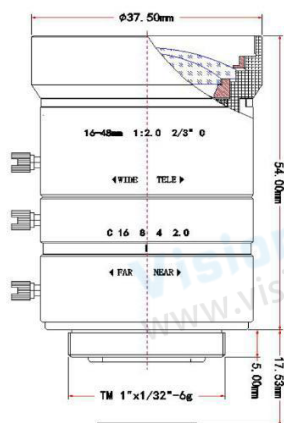
EFL (mm)	12-36
FNo.	F=2.8
Image Fromat	2/3"
F.O.V. (D/H/V)	W:50.8°/41.3°/31.2° T: 17.0°/13.8°/10.4°
M.O.D. (m)	-
Resolution	3MP
Wavelength(nm)	420~1000
Focus Range(mm)	W: 0.15m-∞ T: 0.45m-∞
Distortion (mm)	W: -3.43%@y=5.5 T: 2.30%@y=5.5
Filter Size(mm)	M35.5×0.5
Lens-Mount	C-Mount
Dimension Ø×L (mm)	Ø36 x 59
Weight (g)	105.25g
Operation	Zoom Manual
Iris	Manual
Temperature	-20~+60°C

VT-LEM1236MP10



EFL (mm)	12-36
FNo.	F=2.8
Image Fromat	2/3"
F.O.V. (D/H/V)	W:50.8°/41.3°/31.2° T: 17.0°/13.8°/10.4°
M.O.D. (m)	-
Resolution	10MP
Wavelength(nm)	420~1000
Focus Range(mm)	W: 0.15m-∞ T: 0.45m-∞
Distortion (mm)	W: -3.43%@y=5.5 T: 2.30%@y=5.5
Filter Size(mm)	C-Mount
Lens-Mount	M40.5×0.5
Dimension Ø×L (mm)	Ø36 x 59
Weight (g)	182 g
Operation	Zoom Manual
Iris	Manual
Temperature	-20~+60°C

VT-LEM1648MP3



EFL (mm)	16-48
FNo.	F=2.0
Image Format	2/3" CCD/CMOS
F.O.V. (D/H/V)	W: 30°×22.7° T: 11.2°×8.4°
M.O.D. (m)	0.2
Resolution	3MP
BFL(mm)	17.53
Lens-Mount	C-Mount
Filter Size(mm)	M40.5×0.5
Dimension Ø×L (mm)	Ø37.5×54.0
Weight (g)	128 g
Operation	Focus W / Locks
	Zoom W / Locks
	Iris W / Locks
Temperature	-10~+50°C

VT-LEM104020MP3

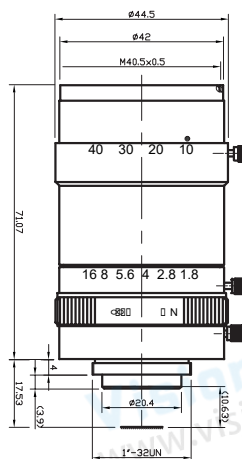


Image Size (inch)	2/3"
EFL(mm)	10-40
Aperture, F/#	2.0
M.O.D.	0.3~ ∞ m
FOV(°)	W:47.5° /40.3° /30.8° T:16.7° /13.4° /10.1°
Distortion(TV)	-3.8% ~ 3.3%
BFL (mm)	10.39-11.50
TTL (mm)	87
Resolution	3MP
Filter Size	M40.5×0.5
Mount	C-Mount
Dimension(mm)	Ø44.5×71.07mm
Iris	Manual
Temperature Range	-20°C ~ +60°C
Weight	-g

VT-LEM1632MP5-H1

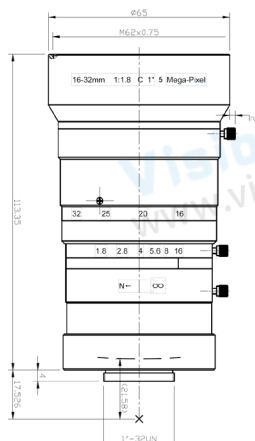


Image Size (inch)	1"
EFL(mm)	16-32
Aperture, F/#	1.8
M.O.D.	1.5~ ∞ m
FOV(°)	W:53.26° /33.44° /43.85° T:27.57° /17.01° /22.43°
Distortion(TV)	-1.89%~1.98%
BFL (mm)	21.58
TTL (mm)	129
Resolution	100 lp/mm
Filter Size	M62×0.75
Mount	C-Mount
Dimension(mm)	Ø65.00×113.35
Iris	Manual
Temperature Range	-20°C ~ +60°C
Weight	619g

Vision And More Available

让工业更智能，让视觉更简单！



SWIR Camera
Industrial Camera



Macro Lens
Industrial Lens



Microscope



System Solution
No-programming Software



**Hangzhou Vision Datum Technology Co.,
Ltd. No. 8 Xiyuan 9th Road, West Lake
District Hangzhou Zhejiang 310030 China
Tel: 86-571-86888309
www.visiondatum.com**

