

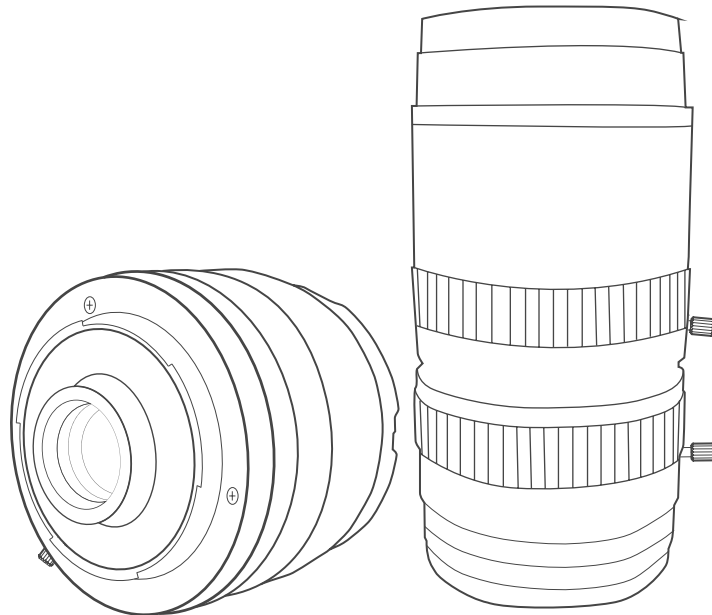


# MACHINE VISION F/T MOUNT LENSES

Developed for large-format area camera and line-scan cameras.

Vision Datum has developed 29M large format (full-frame) lenses to satisfy the demands of large-format cameras. The focal length of 29MP series F Mount lenses varies from 35mm to 90mm.

Vision Datum's large-format lenses highlight among their counterparts for the low price yet good performance even when compared to Schneider, VS TECHNOLOGY and Linos.



*Subject to change without prior notice.  
For more information, please contact our sales representatives.*

# ABOUT US

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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.

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# Large Format F/T mount lenses for 4k Line scan sensors

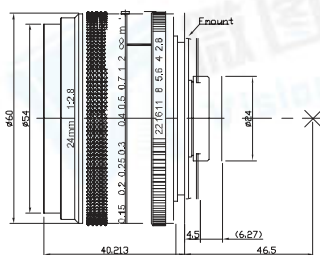
## FEATURES

1. Wide wavelength from 400~950nm
2. Full-frame design covering  $\phi 43.2\text{mm}$
3. Support 4K line scan cameras
4. Low cost

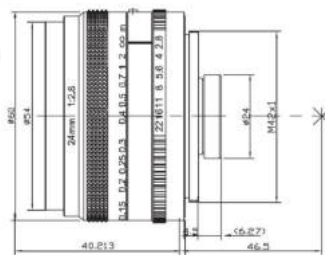


| Part name  | EFL (mm) | Resolution (lp/mm) | Format (mm) | Aperture (F/#) | Distortion (%) | M.O.D. (m) | Angle of View(D) (deg) | Filter Size | Mount     |
|------------|----------|--------------------|-------------|----------------|----------------|------------|------------------------|-------------|-----------|
| LHF2428MP5 | 24       | 30lp/mm(5MP)       | 43          | F2.8~F22       | <-4%           | 0.15m      | 84°                    | M52 × 0.75  | F         |
| LHT2428MP5 | 24       | 30lp/mm(5MP)       | 43          | F2.8~F22       | <-4%           | 0.15m      | 84°                    | M52 × 0.75  | M42× 1(T) |
| LHF2828MP5 | 28       | 30lp/mm(5MP)       | 43          | F2.8~F22       | <-3%           | 0.3m       | 74°                    | M52 × 0.75  | F         |
| LHT2828MP5 | 28       | 30lp/mm(5MP)       | 43          | F2.8~F22       | <-3%           | 0.3m       | 74°                    | M52 × 0.75  | M42× 1(T) |
| LHF3525MP5 | 35       | 30lp/mm(5MP)       | 43          | F2.5~F22       | <-3%           | 0.3m       | 52.3°                  | M52 × 0.75  | F         |
| LHT3525MP5 | 35       | 30lp/mm(5MP)       | 43          | F2.5~F22       | <-3%           | 0.3m       | 52.3°                  | M52 × 0.75  | M42× 1(T) |
| LHF5018MP5 | 50       | 30lp/mm(5MP)       | 43          | F1.8~F22       | <-1%           | 0.4m       | 45°                    | M52 × 0.75  | F         |
| LHT5018MP5 | 50       | 30lp/mm(5MP)       | 43          | F1.8~F22       | <-1%           | 0.4m       | 45°                    | M52 × 0.75  | M42× 1(T) |

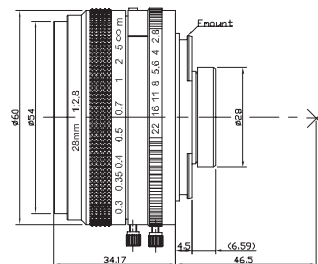
LHF2428MP5



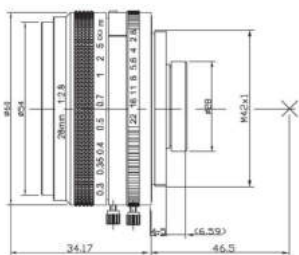
LHT2428MP5



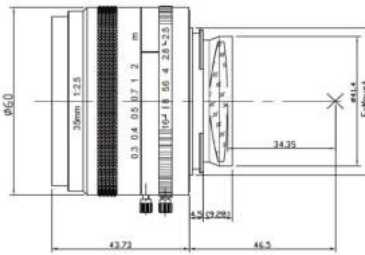
LHF2828MP5



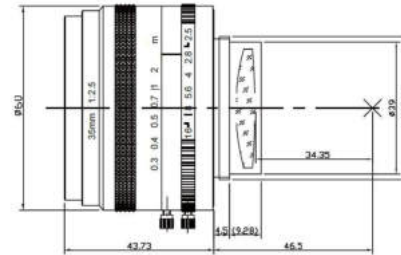
LHT2828MP5



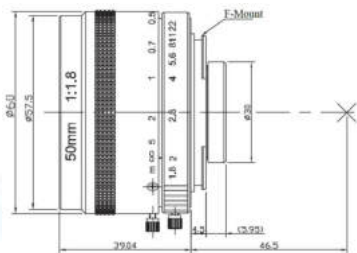
LHF3525MP5



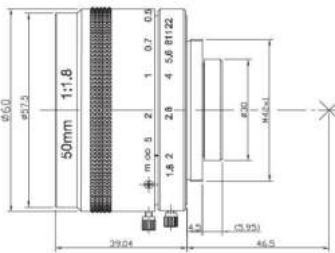
LHT3525MP5



LHF5018MP5



LHT5018MP5



# High resolution F mount lenses for 29MP sensors

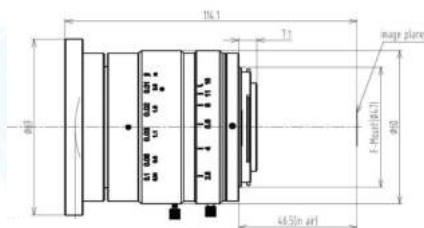
## FEATURES

1. Wide wavelength from 400~950nm
2. Optical performance is superior to lens of SLR
3. Support 5 $\mu$ m pixel 29MP High resolution
4. High Cost Performance

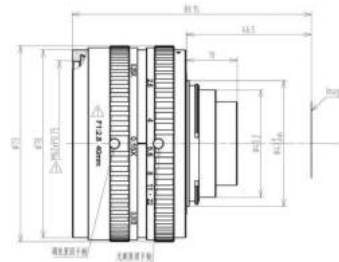


| Part name   | EFL (mm) | Mag (x) | Format (mm) | Aperture (F/#) | WD (mm) | Flange back (mm) | Outer Diam. (mm) | Filter Size | Mount |
|-------------|----------|---------|-------------|----------------|---------|------------------|------------------|-------------|-------|
| LEM3528MP29 | 35       | 0.03    | Ø45.3       | 2.8            | 1158.7  | 46.5             | Ø69              | M67× 0.75   | F     |
| LEM4028MP29 | 40       | 0.10    | Ø43.2       | 2.8            | 436.7   | 46.5             | Ø73              | M62× 0.75   | F     |
| LEM5028MP29 | 50       | 0.10    | Ø43.2       | 2.8            | 524.4   | 46.5             | Ø64              | M62× 0.75   | F     |
| LEM6040MP29 | 60       | 0.167   | Ø64         | 4              | 384.9   | 46.5             | Ø70.5            | M65× 0.75   | F     |
| LEM8056MP29 | 80       | 0.30    | Ø58         | 5.6            | 306.2   | 46.5             | Ø57              | M52× 0.75   | F     |
| LEM9040MP29 | 90       | 0.05    | Ø43.2       | 4.0            | 2112    | 46.5             | Ø68              | M62× 0.75   | F     |

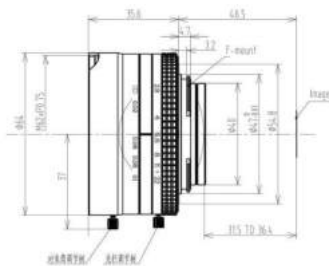
LEM3528MP29



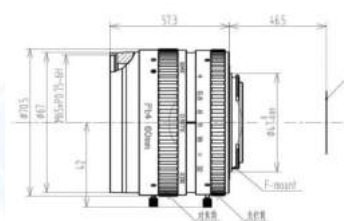
LEM4028MP29



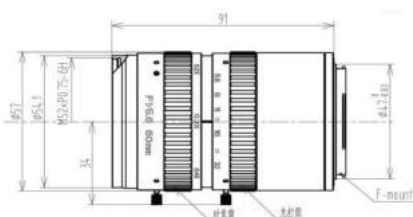
LEM5028MP29



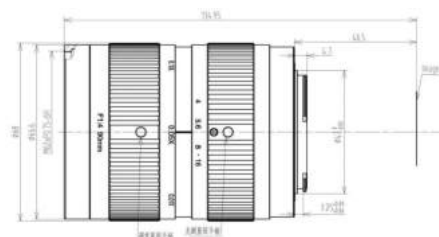
LEM6040MP29



LEM8056MP29



LEM9040MP29



# Large resolution F mount lenses: 100Mega Pixels

**NEW**

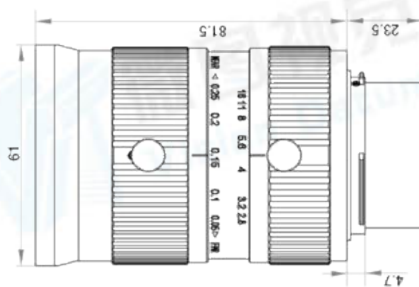
## FEATURES

1. Ultra-low distortion, high peripheral brightness ratio
2. Optimize the optical design for different magnifications
3. The F interface structure is detachable for easy expansion of other interfaces
4. Image size  $\phi 46\text{mm}$ , support large target area array and 8K  $5\mu\text{m}$  line array camera

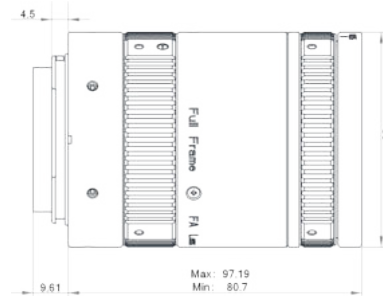


| Part name    | EFL (mm) | F/# | M.O.D. (m) | Format (mm) | Angle of View (deg.)                                | Filter Size | TV Distortion (%) | Mega Pixels (MP) | Mount         |
|--------------|----------|-----|------------|-------------|---|-------------|-------------------|------------------|---------------|
| LEM3528MP100 | 35       | 2.8 | 0.13       | $\phi 46$   | $41.96^\circ \times 35.44^\circ \times 24.05^\circ$ | M58*0.75    | 0.40%             | 100              | F             |
| LEM5040MP100 | 50       | 4.0 | 0.15       | $\phi 46$   | $47.02^\circ \times 39.77^\circ \times 27.11^\circ$ | M52*0.75    | -0.22%            | 100              | F (ScalableV) |
| LEM8040MP100 | 80       | 4.0 | 0.23       | $\phi 46$   | $30.41^\circ \times 25.47^\circ \times 17.13^\circ$ | M52*0.75    | 0.04%             | 100              | F (ScalableV) |

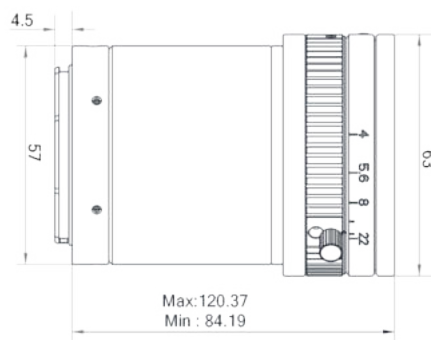
LEM3528MP100



LEM5040MP100



LEM8040MP100



# Vision And More Available

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Industrial Lens



Microscope



System Solution  
No-programming Software



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