

FA工业镜头系列



工业镜头系列 LF系列

多种尺寸 低畸变

支持 2/3"、1"、4/3"靶面，低畸变高清工业镜头
专业光路设计，低畸变成像，中心和边缘光分布均匀。

产品优势

PRODUCT ADVANTAGES

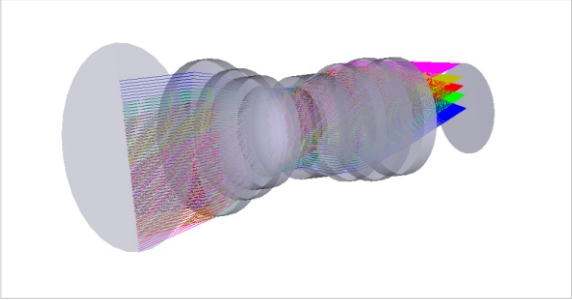
- 支持百万/千万像素的各靶面相机；
- 有聚焦锁紧螺钉和光圈锁紧螺钉；
- 低畸变、低失真成像；
- 结构设计紧凑，光学性能优异。

应用领域

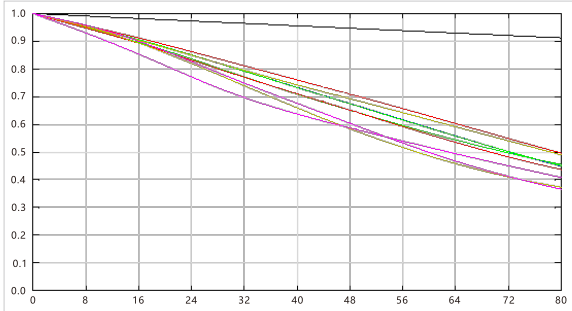
APPLICATION FIELDS

广泛应用于机器视觉生产自动化等领域。

光路图



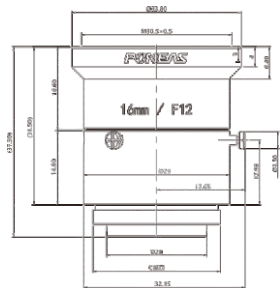
MTF曲线图

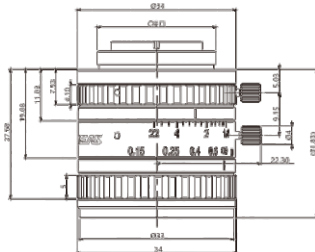


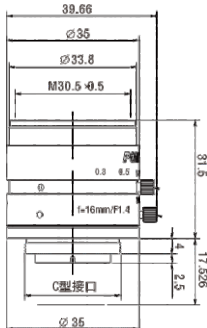
FA工业镜头系列

LF系列产品参数表													
货号	型号	分辨率	最大 Sensor尺寸	焦距	光圈 范围	成像范围	视场角(H×V)			畸变率	后焦距 .in air	接口	滤镜尺寸
							4/3"	1"	2/3"				
#12001+00204	LFE-16120	100万像素	2/3"	16.33mm	F12	0.30m-∞	—	—	30.4°×22.9°	-1.00%@y=5.5mm	12.67mm	C型	M30.5×0.5mm
#12001+00101	LFE-1214M	150万像素	2/3" 8.8mm×6.6mm φ11mm	12.3mm	F1.4-C	0.15m-∞	—	—	40.0°×30.2°	-1.80%@y=5.5mm	12.70mm	C型	M30.5×0.5mm
#12001+00201	LFE-1614M			16.33mm	F1.4-C	0.30m-∞	—	—	30.4°×22.9°	-1.00%@y=5.5mm	12.67mm	C型	M30.5×0.5mm
#12001+00301	LFE-2514M			25mm	F1.4-C	0.25m-∞	—	—	19.9°×15.0°	-0.32%@y=5.5mm	13.60mm	C型	M30.5×0.5mm
#12001+00401	LFE-3514M			35mm	F1.4-C	0.30m-∞	—	—	13.8°×10.4°	-0.33%@y=5.5mm	14.7mm	C型	M30.5×0.5mm
#12001+00601	LFE-5018M			50mm	F1.8-C	0.50m-∞	—	—	9.2°×7.6°	-0.11%@y=5.5mm	12.94mm	C型	M30.5×0.5mm
#12001+00701	LFE-7528M			75mm	F2.8-C	1.10m-∞	—	—	6.7°×5.0°	0.34%@y=5.5mm	14.35mm	C型	M30.5×0.5mm
#12001+00501	LFE-123628M			12~36mm	F2.8-C	0.15m-∞(wide) 0.5m-∞(tele)	—	—	41.4°×31.2°(wide) 13.8°×10.4°(tele)	3.5%@y=5.5mm(wide) 2.3%@y=5.5mm(tele)	12.6mm(wide) 15.2mm(tele)	C型	M35.5×0.5mm
#12001+00901	LFE-2314M	200万像素	2/3"	22.5mm	F1.4-11	0.1m-∞	—	—	22.1°×16.7°	-0.44%@y=5.5mm	13.60mm	C型	M30.5×0.5mm
#12002+00901	LFEH-0816M(A)	500万像素	2/3" 8.8mm×6.6mm φ11mm	8mm	F1.6-F22	0.1m-∞	—	—	55.8°×43.3°	-0.73%@y=5.5mm	12.44mm	C型	M40.5×0.5mm
#12002+00101	LFEH-1216M(A)			12mm	F1.6-F22	0.1m-∞	—	—	39.8°×30.4°	-0.53%@y=5.5mm	12.42mm	C型	M37.5×0.5mm
#12002+00201	LFEH-1616M(A)			16mm	F1.6-F22	0.2m-∞	—	—	30.8°×23.4°	0.07%@y=5.5mm	13.36mm	C型	M37.5×0.5mm
#12002+00301	LFEH-2514M(A)			25mm	F1.4-F22	0.2m-∞	—	—	20.0°×15.0°	-0.19%@y=5.5mm	12.78mm	C型	M37.5×0.5mm
#12002+00401	LFEH-3514M(A)			35mm	F1.4-F22	0.3m-∞	—	—	14.3°×10.8°	-0.07%@y=5.5mm	12.82mm	C型	M37.5×0.5mm
#12002+00601	LFEH-5018M(A)			50mm	F1.8-F22	0.4m-∞	—	—	10.1°×7.6°	0.03%@y=5.5mm	13.63mm	C型	M37.5×0.5mm
#12002+00701	LFEH-7520M(A)			75mm	F2.0-F22	0.9m-∞	—	—	6.7°×5.0°	0.04%@y=5.5mm	13.76mm	C型	M40.5×0.5mm
#12002+00501	LFEH-123628M			12~36mm	F2.8-F16	0.15m-∞(wide) 0.45m-∞(tele)	—	—	41.2°×31.2°(wide) 13.8°×10.4°(tele)	-3.4%@y=5.5mm(wide) 1.4%@y=5.5mm(tele)	18.93mm(wide) 18.87mm(tele)	C型	M40.5×0.5mm
#12004+00101	LFGH-1216M	500万像素	1" 12.8mm×9.6mm φ16mm	12mm	F1.6-F22	1m-∞	—	57.1°×44.1°	40.6°×30.9°	-2.88%@y=8.0mm	13.54mm	C型	M52.0×0.75mm
#12004+00201	LFGH-1616(A)			16mm	F1.6-F22	1m-∞	—	44.2°×33.5°	30.8°×23.2°	-3.73%@y=8.0mm	12.17mm	C型	M37.5×0.5mm
#12004+00501	LFGH-2016M			20mm	F1.6-F22	1m-∞	—	35.8°×27.2°	25.0°×18.8°	-1.82%@y=8.0mm	13.08mm	C型	M37.5×0.5mm
#12004+00301	LFGH-2516M			25mm	F1.6-F22	—	—	29.0°×21.8°	20.0°×15.0°	-2.06%@y=8.0mm	12.69mm	C型	M33.7×0.5mm
#12004+00401	LFGH-3514M			35mm	F1.4-F22	—	—	18.2°×14.1°	12.9°×9.6°	0.27%@y=8.0mm	12.83mm	C型	M39.0×0.5mm
#12003+00101	LFEHH-0824M(D)	1000万像素	2/3"	8mm	F2.4-F22	0.25m-∞	—	—	56.6°×44.0°	-3.16%@y=5.5mm	10.30mm	C型	M37.0×0.5mm
#12003+01001	LFEHH-0828M(B)			8mm	F2.8-16	0.15m-∞	—	—	58.5°×45.5°	-0.81%@y=5.5mm	10.7mm	C型	M32.7×P0.5mm
#12003+00201	LFEHH-1218M(D)			12mm	F1.8-F22	0.1m-∞	—	—	40.9°×31.0°	-2.19%@y=5.5mm	15.10mm	C型	M30.5×0.5mm
#12003+00801	LFEHH-1228M(B)			12mm	F2.8-16	0.15m-∞	—	—	40.3°×30.8°	0.037%@y=5.5mm	8.43mm	C型	M27×P0.5mm
#12003+00701	LFEHH-1628M(B)			16mm	F2.8-16	0.15m-∞	—	—	30.7°×23.3°	0.29%@y=5.5mm	8.63mm	C型	M27×P0.5mm
#12003+00401	LFEHH-2518M(D)			25mm	F1.8-F22	0.15m-∞	—	—	20.1°×15.1°	-0.72%@y=5.5mm	12.70mm	C型	M30.5×0.5mm
#12003+01201	LFEHH-2528M(B)			25mm	F2.8-16	0.15m-∞	—	—	19.94°×15.0°	-0.016%@y=5.5mm	10.31mm	C型	M27×P0.5mm
#12003+00501	LFEHH-3520M(D)			35mm	F2.0-F22	0.2m-∞	—	—	14.35°×10.8°	-0.16%@y=5.5mm	13.00mm	C型	M30.5×0.5mm
#12003+00601	LFEHH-3528M(B)			35mm	F2.8-16	0.2m-∞	—	—	14.8°×11.1°	-0.172%@y=5.5mm	13.63mm	C型	M27×P0.5mm
#12003+01101	LFEHH-5028M(B)			50mm	F2.8-16	0.3m-∞	—	—	10.08°×7.57°	0.094%@y=5.5mm	14.24mm	C型	M27×P0.5mm
#12006+00401	LFHHH-1220M	1000万像素	4/3" 17.6mm×13.2mm φ22mm	12mm	F2.0-F22	—	75.5°×61.1°	57.3°×44.2°	—	-2.40%@y=11.0mm	18.93mm	C型	M77.0×0.75mm
#12006+00101	LFHHH-1620M			16mm	F2.0-F22	0.1m-∞	61.0°×47.2°	44.2°×33.6°	31.0°×23.4°	-2.81%@y=11.0mm	21mm	C型	M58×0.75mm
#12006+00201	LFHHH-2520M			25mm	F2.0-F22	—	40.6°×31.0°	28.8°×21.8°	20.0°×15.1°	-0.66%@y=11.0mm	22.43mm	C型	M46.0×0.75mm
#12006+00301	LFHHH-3520M			35mm	F2.0-F22	—	29.6°×22.4°	20.8°×15.7°	14.4°×10.8°	-0.56%@y=11.0mm	18.65mm	C型	M40.5×0.5mm
#120061005	LFHHH-5020M			50mm	F2.0-F22	—	20.9°×15.7°	14.6°×11.0°	10.1°×7.6°	-0.14%@y=11.0mm	20.29mm	C型	M40.5×0.5mm

FA工业镜头系列

货号: #12001+00204			
焦距:16.33mm 100万像素			
			
单位 : mm			
LFE-16120			
最大Sensor尺寸			
2/3"	8.8mm×6.6mm	φ11mm	
焦距 (MM):16.33mm			
光圈范围:F1.2			
成像范围:0.30m-∞			
畸变率:-1.00%@y=5.5mm			
后焦距.in air:12.67mm			
接口类型:C型			
滤镜尺寸:M30.5×0.5mm			
视场角(H×V)			
2/3"			
30.4°×22.9°			

货号: #12001+00101			
焦距:12.3mm 150万像素			
			
单位 : mm			
LFE-1214M			
最大Sensor尺寸			
2/3"	8.8mm×6.6mm	φ11mm	
焦距 (MM):12.3mm			
光圈范围:F1.4-C			
成像范围:0.15m-∞			
畸变率:-1.80%@y=5.5mm			
后焦距.in air:12.70mm			
接口类型:C型			
滤镜尺寸:M30.5×0.5mm			
视场角(H×V)			
2/3"			
40°×30.2°			

货号: #12001+00201					
焦距:16.33mm 150万像素					
					
单位 : mm					
LFE-1614M					
最大Sensor尺寸					
2/3"	8.8mm×6.6mm	Φ11mm			
焦距 (MM):16.33mm 光圈范围:F1.4-C 成像范围:0.30m-∞ 畸变率:-1.00%@y=5.5mm 后焦距.in air:12.67mm 接口类型:C型 滤镜尺寸:M30.5×0.5mm					
视场角(H×V)					
2/3"					
30.4°×22.9°					

FA工业镜头系列

货号:#12001+00701

焦距:75mm
150万像素

Technical drawing of the LFE-7528M lens showing dimensions and specifications. The drawing includes a side view and a front view. Key dimensions and specifications are labeled:

- Top view dimensions: 53.68, 6.58, M30.5±0.5, 1.10, 6.68

货号:#12001+00401

焦距:35mm
150万像素

Technical drawing of the LFE-3514M lens showing dimensions and specifications. The drawing includes a side view and a front view. Key dimensions and features are labeled:

- Overall height: 46.65
- Mounting flange diameter: $\phi 34.6$
- Mounting flange thickness: 3.6
- Mounting flange inner diameter: $\phi 33.6$
- Mounting flange outer diameter: $\phi 36.2$
- Mounting flange inner diameter: $\phi 35.2$
- Mounting flange outer diameter: $\phi 36.2$
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- Mounting flange outer diameter: $\phi 36$
- Mounting flange inner diameter:

货号:#12001+00901

焦距:22.5mm
200万像素

Technical drawing of the LFE-2314M lens showing dimensions and specifications. The drawing includes the following details:

- Overall Dimensions:**
 - Top view: 62.1 mm (width), 31.5 mm (height).
 - Side view: 31.5 mm (width), 62.1 mm (height).
- Internal Features:**
 - Mounting flange with 4 screws (4-4.5).
 - Mounting flange with 4 screws (4-4.5).
 - Mounting flange with 4 screws (4-4.5).
 - Mounting flange with 4 screws (4-4.5).
- Optical Specifications:**
 - Field of View (H x V): 22.1° x 16.7°.
 - Aperture: F1.4 - 11.
 - Distortion: -0.44% @ y=5.5mm-∞.
 - Back Focal Length (in air): 13.6mm.
 - Image Range: 0.10m - ∞.
- Mounting:**
 - Mounting flange with 4 screws (4-4.5).
 - Mounting flange with 4 screws (4-4.5).
 - Mounting flange with 4 screws (4-4.5).
 - Mounting flange with 4 screws (4-4.5).

单位 : mm

LFE-2314M

最大Sensor尺寸

2/3"

8.8mm×6.6mm

φ11mm

焦距 (MM) : 22.5mm

光圈范围: F1.4-11

成像范围: 0.10m-∞

畸变率: -0.44%@y=5.5mm-∞

后焦距.in air: 13.6mm

接口类型: C型

滤镜尺寸: M30.5×0.5mm

视场角(H×V)

2/3"

22.1°×16.7°

货号:#12018+00201

焦距:4.5mm
500万像素

A technical drawing of a lens assembly. It shows a cross-section of the lens with a central optical axis. The top flange has a diameter of 41mm. The total height of the lens assembly is 59.9 ± 0.1mm. The mounting flange at the bottom has a height of 17.5 ± 0.1mm. The drawing includes a hatched ground symbol at the base of the mounting flange.

单位 : mm

LFCH-4.528M(J)

最大Sensor尺寸

1/1.8"

φ9mm

焦距 (MM):4.5mm

光圈范围:F2.8-16

成像范围:0.1m-∞

畸变率:-1.2%@y=4.5mm

后焦距.in air:8.4mm

接口类型:C型

滤镜尺寸:\

视场角(H×V)

1/1.8"

1/2"

89.0°×81.9°×52.3°

89.0°×81.9°×52.3°

货号: #12001+00301

焦距:25mm
150万像素

Technical drawing of the LFE-2514M lens showing dimensions and specifications. The drawing includes the following details:

- Overall length: 39.6mm
- Front flange diameter: $\phi 35$
- Front flange thickness: $\phi 33.8$
- Front flange bore: M30.5 $\times$ 0.5
- Mounting flange: F04254
- Mounting flange diameter: ϕ
- Mounting flange bore: ϕ
- Mounting flange thickness: 4mm
- Mounting flange bore diameter: $\phi 35$
- Mounting flange bore depth: 17.5mm
- Mounting flange bore diameter: $\phi 35$
- Mounting flange bore depth: 17.5mm
- Mounting flange bore diameter: $\phi 35$
- Mounting flange bore depth: 17.5mm

单位 : mm

LFE-2514M

最大Sensor尺寸

2/3"

8.8mm×6.6mm

$\phi 11\text{mm}$

焦距 (MM):25mm

光圈范围:F1.4-C

成像范围:0.25m- ∞

畸变率:-0.32%@y=5.5mm

后焦距.in air:13.60mm

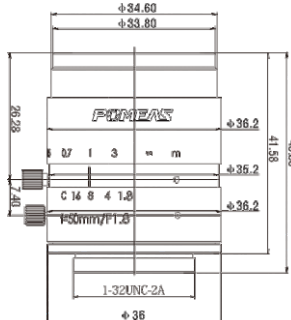
接口类型:C型

滤镜尺寸:M30.5×0.5mm

视场角(H×V)

2/3"

19.9°×15.0°

货号: #12001+00601		
焦距:50mm 150万像素		
		
单位 : mm		
LFE-5018M		
最大Sensor尺寸		
2/3"	8.8mm×6.6mm	φ11mm
焦距 (MM):50mm		
光圈范围:F1.8-C		
成像范围:0.50m-∞		
畸变率:-0.11%@y=5.5mm		
后焦距.in air:12.94mm		
接口类型:C型		
滤镜尺寸:M30.5×0.5mm		
视场角(H×V)		
2/3"		
9.2°×7.6°		

货号:#12001+00501		
焦距:12-36mm 150万像素		
单位 : mm		
LFE-123628M		
最大Sensor尺寸		
2/3"	8.8mm×6.6mm	φ11mm
焦距 (MM).:12-36mm		
光圈范围:F2.8-C		
成像范围:0.15m-∞(wide) 0.5m-∞(tele)		
畸变率:3.5%@y=5.5mm(wide) 2.3%@y=5.5mm(tele)		
后焦距.in air:12.6mm(wide) 15.2 (tele)		
接口类型:C型		
滤镜尺寸:M35.5×0.5mm		
视场角(H×V)		
2/3"		
41.2°×31.2°(wide) 13.8°×10.4°(tele)		

货号: #12002+00901

焦距:8mm
500万像素

Technical drawing of the LFEH-0816M(A) lens showing dimensions and specifications. The drawing includes the following dimensions and labels:

- Overall length: 43.5
- Front flange diameter: $\phi 43$
- Front flange thickness: 1.6
- Front flange label: (F-8mm) 1/2.8
- Front flange label: 0.4
- Front flange label: 4.4
- Front flange label: 18.97
- Front flange label: 4.6
- Front flange label: 77
- Front flange label: $\phi 44.20$
- Front flange label: 52.00
- Front flange label: 56.99
- Front flange label: $\phi 43.5$
- Front flange label: $\phi 45$
- Front flange label: 12.44
- Front flange label: 1.6
- Front flange label: 0.4
- Front flange label: 18.97
- Front flange label: 4.6
- Front flange label: 77
- Front flange label: $\phi 44.20$

单位 : mm

LFEH-0816M(A)

最大Sensor尺寸

2/3"

8.8mm×6.6mm

$\phi 11\text{mm}$

焦距 (MM) : 8mm

光圈范围: F1.6-F22

成像范围: 0.1m- ∞

畸变率: -0.73%@y=5.5mm

后焦距.in air: 12.44mm

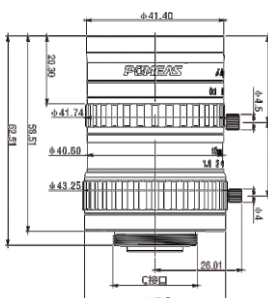
接口类型: C型

滤镜尺寸: M40.5×0.5mm

视场角(H×V)

2/3"

55.8°×43.3°

货号: #12002+00101	
焦距:12mm 500万像素	
	
单位 : mm	
LFEH-1216M(A)	
最大Sensor尺寸	
2/3"	8.8mm×6.6mm φ11mm
焦距 (MM).:12mm	
光圈范围:F1.6-F22	
成像范围:0.1m-∞	
畸变率:-0.53%@y=5.5mm	
后焦距.in air:12.42mm	
接口类型:C型	
滤镜尺寸:M37.5×0.5mm	
视场角(H×V)	
2/3"	
39.8°×30.4°	

货号: #12002+00201

焦距:16mm
500万像素

Technical drawing of the LFEH-1616M(A) lens showing dimensions and specifications. The drawing includes a side view and a front view. Key dimensions are labeled: total length 128mm, mounting flange diameter $\phi 41.40$, mounting flange thickness 16.5mm, lens barrel diameter $\phi 41.75$, lens barrel length 42mm, lens barrel diameter $\phi 43.25$, lens barrel length 26mm, and lens barrel diameter $\phi 42.5$. The lens barrel features the text "PENTAX" and "62". The front view shows a C-mount and a 26mm diameter. The unit is specified as mm.

单位 : mm

LFEH-1616M(A)

最大Sensor尺寸

2/3"

8.8mm×6.6mm

$\phi 11\text{mm}$

焦距 (MM) : 16mm

光圈范围: F1.6-F22

成像范围: 0.2m- ∞

畸变率: 0.07% @ y=5.5mm

后焦距 in air: 12.36mm

接口类型: C型

滤镜尺寸: M37.5×0.5mm

视场角(H×V)

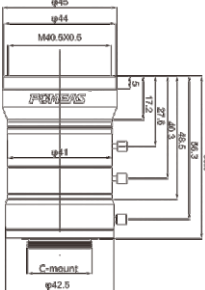
2/3"

30.8° × 23.4°

FA工业镜头系列

货号: #12002+00501

焦距:12-36mm
500万像素



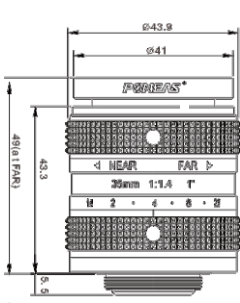
单位：mm

LFEH-123628M

2/3"	8.8mm×6.6mm	φ11mm
焦距 (MM): 12-36mm		
光圈范围: F2.8-F16		
成像范围: 0.15m-∞(wide)0.45m-∞(tele)		
畸变率: -3.4%@y=5.5mm(wide)		
1.4%@y=5.5mm(tele)		
后焦距 in air: 18.93mm(wide)18.87 (tele)		
接口类型: C型		
滤镜尺寸: M40.5×0.5mm		
视场角(H×V)		
2/3"		
41.2°×31.2(wide)		13.8°× 10.4(t ele)

货号:#12004+00401

焦距:35mm
500万像素



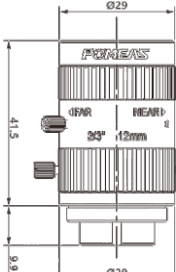
单位: mm

LFGH-3514M

最大Sensor尺寸		
1"	12.8mm×9.6mm	φ16mm
焦距 (MM):.35mm		
光圈范围:F1.4-F22		
成像范围:1m-∞		
畸变率: -0.27%@y=8.0mm		
后焦距,in air:12.83mm		
接口类型:C型		
滤镜尺寸:M39.0×0.5mm		
视场角(H×V)		
1"		2/3"
18.2°×14.1°		12.9°× 9.6°

货号:#12003+00801

焦距:12mm
1000万像素



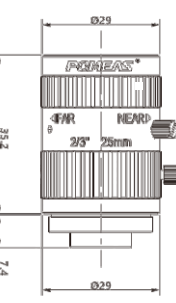
单位：mm

FEHH-1228M(B)

最大Sensor尺寸		
2/3"	8.8mm×6.6mm	φ11mm
焦距(MM):12.0mm		
光圈范围:F2.8-16		
成像范围:0.15m-∞		
畸变率:0.037%@y=5.5mm		
后焦距.in air:8.43mm		
接口类型:C型		
滤镜尺寸:M27×P0.5mm		
视场角(H×V)		
2/3"		
40.3°×30.8°		

货号:#12003+01201

焦距:25mm
1000万像素



单位: mm

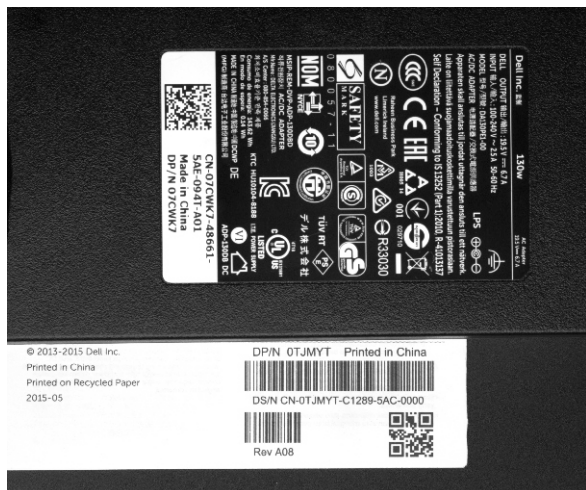
FEHH-2528M(B)

最大Sensor尺寸		
2/3"	8.8mm×6.6mm	φ11mm
焦距(MM):.25.0mm		
光圈范围:F2.8-16		
成像范围:0.15m-∞		
畸变率:-0.016%@y=5.5mm		
后焦距.in air:10.31mm		
接口类型:C型		
滤镜尺寸:M27XP0.5mm		
视场角(H×V)		
2/3"		
19.94°×15.0°		

FA工业镜头系列

产品案例

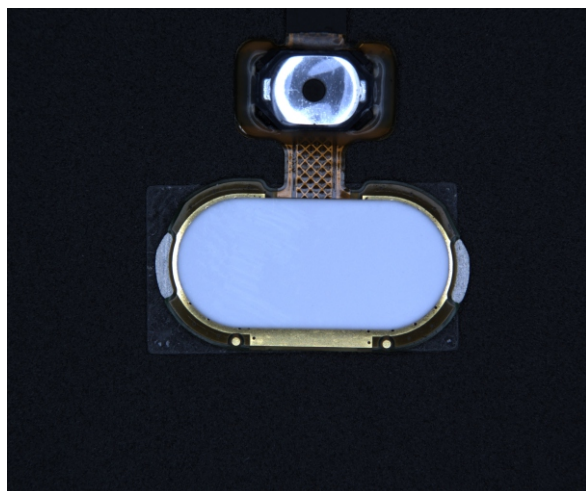
PRODUCT CASES



二维码条码检测



二维码扫描提取



指纹解锁按键



内孔脏污、瑕疵检测