

2020

SECURITY LENS

SURVEILLANCE / ITS / DEFENCE

MEDICAL / BROADCAST

MACHINE VISION



HARBOR



AIRPORT



ITS



MEDICAL



BORDER

μ·TRON
JAPAN

COMPANY PROFILE

Company Name	Myutron Inc.	
Address	< Head Office >	3-31-14, Nishikoiwa, Edogawa-Ku, Tokyo, 133-0057, Japan
	< Ichikawa Office >	4-1919-1, Bokke-Cho, Ichikawa City, Chiba, 272-0811, Japan
Establishment	April, 1, 2001	
Representative	Keiji Watanabe	
Business	▶ Design, manufacture, and supply lenses for surveillance	
	▶ Design, manufacture, and supply lenses for machine vision	
	▶ Design, manufacture, and supply optical systems for machine vision	
	▶ Design, manufacture, and supply for OEM	

PHILOSOPHY

Pursue further improvement of our own technology and create unique products for the market development

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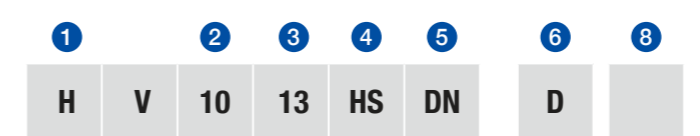
Description of Model No. for Security Lenses

Zoom Lens



- 1 Optical specification (sensor size)
- 2 Zoom ratio
- 3 Focal length at wide end
- 4 Resolution
- 5 for IR Corrected
- 6 Electrical specification
- 7 Additional electrical function
- 8 Special specification, reference number (for inventory control)

Vari Focal Lens



- 1 Optical specification (add "V")
- 2 Focal length at wide end
- 3 F No. at wide end
- 4 Resolution
- 5 for IR Corrected
- 6 Electrical specification
- 8 Special specification, reference number (for inventory control)

Fixed Focal Lens



- 1 Resolution
- 2 Focal length
- 3 F No.
- 4 Optical specification
- 5 for IR Corrected
- 6 Electrical specification
- 8 Special specification, reference number (for inventory control)

Description of each digit

1 Optical specification (Sensor size)

1	1 CCD	V
2/3	1 CCD	J
	3 CCD B/Mt	JB
1/2	1 CCD (*)	H / PH
	3 CCD C/Mt	PH 2 3 B
1/3	1 CCD	T
	3 CCD B/Mt	TB

* "PH" is used for a zoom lens

4 Resolution

Over 2 MP	MPH / HS
Over 5 MP	HF

5 for IR Corrected

IR Corrected	DN
--------------	----

6 Electrical specification

Zoom	Z/F Motorized	3 Motor	R
		DC-Iris	RG
		Video-Iris	RGE
		Servo-Iris	RS
Fixed/Vari Focal	Z/F Manual	Video-Iris	RP
		Servo-Iris	SS
		Manual-Iris	-
		DC-Iris	D
		Video-Iris	V
		P-Iris	P

7 Additional electrical function

Z/F Pot	PZF
Z/F/I Pot	PZFI

- 8 Special specification, reference number**
- ⊙ Start from 00A, max. three digits
 - ⊙ Reference number for inventory control
 - ⊙ The third digit meaning as follows:

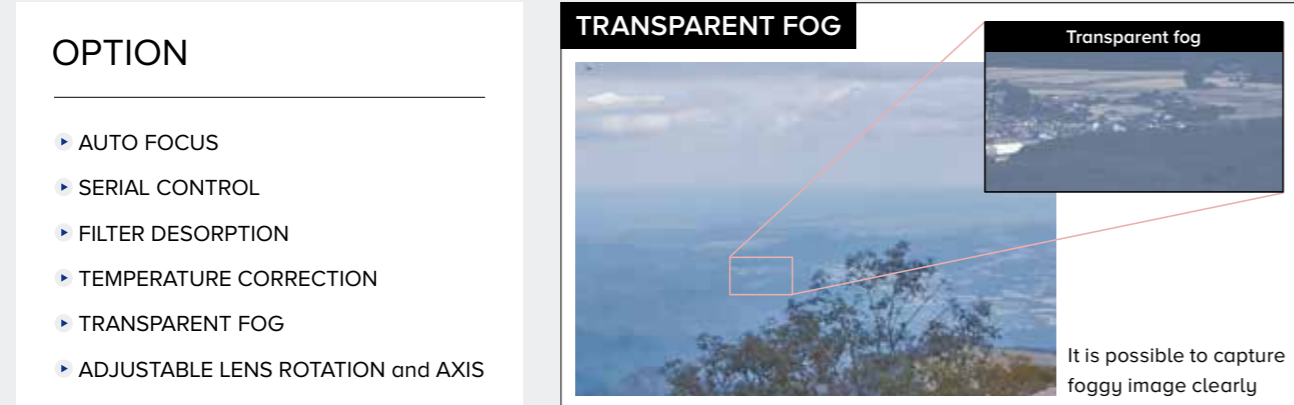
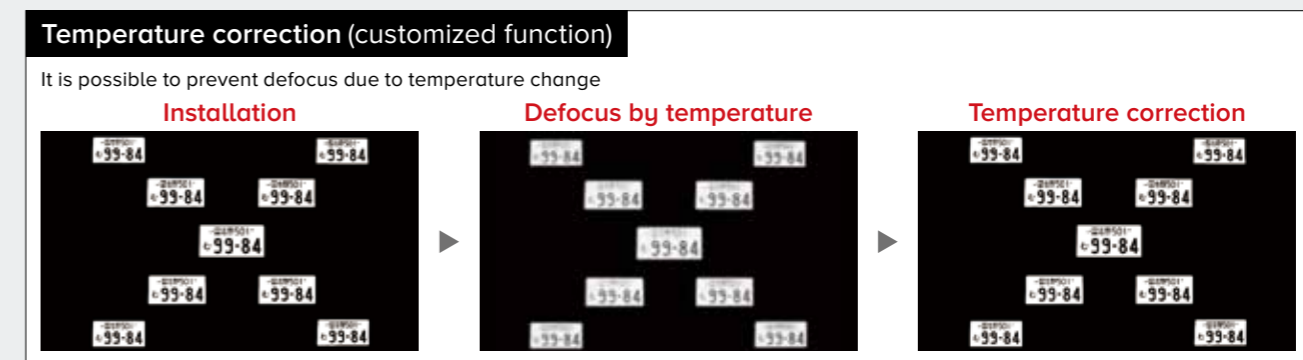
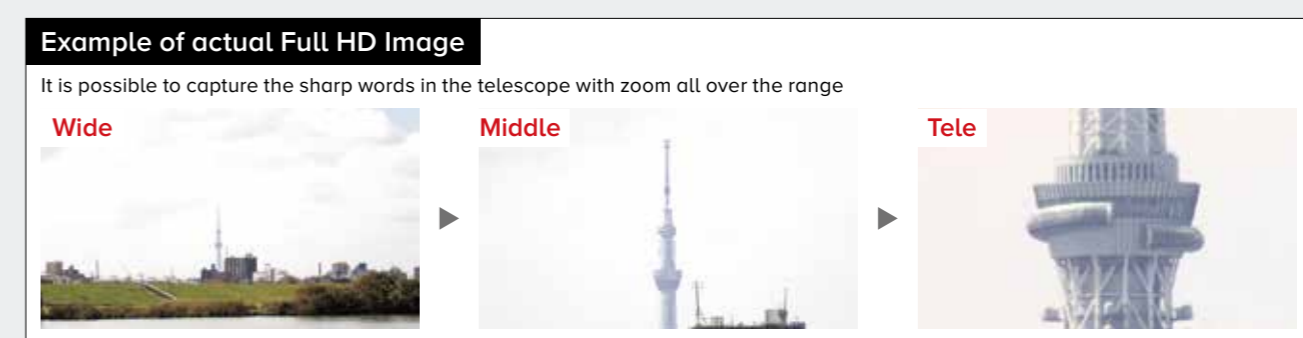
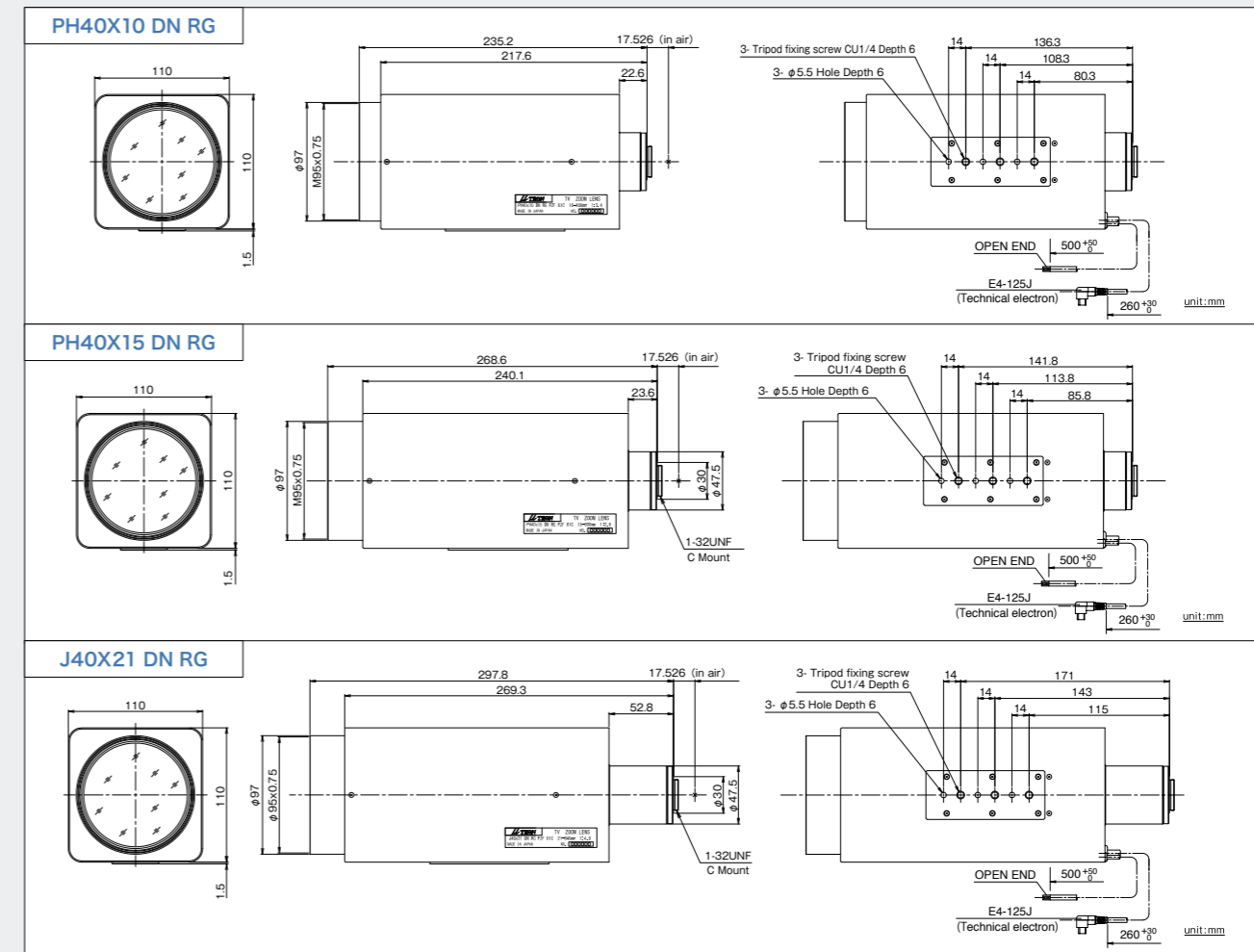
Specification of 6 V	Standard	A
	High speed	B
Specification of 12 V	Standard	C
	High speed	D

Full HD IR Corrected 40x Motorized Zoom Lens



- ▶ Full HD resolution for all zoom range
- ▶ Design for IR Corrected, no focus shift with 940nm of NIR lighting
- ▶ Possible to fix Strongly with 3 screws of tripod
- ▶ J40X21 is suitable for 2/3"

Model No.	PH40X10 DN RG	PH40X15 DN RG	J40X21 DN RG
Maximum compatible sensor	1/1.9	1/1.8	2/3
Focal length	f10 ~ 400mm	f15 ~ 600mm	f21 ~ 840mm
F No.	1:2.4	1:2.8	1:4.0
Range of iris	F2.4 ~ 360	F2.8 ~ 360	F4.0 ~ 360
Mount	C		
Angle of view (2/3) 16 : 9	—	—	25.0°X14.2° ~ 0.67°X0.38°
Angle of view (1/1.8) 16 : 9	—	28.4°X16.3° ~ 0.77°X0.44°	21.0°X11.96° ~ 0.53°X0.3°
Angle of view (1/1.9) 16 : 9	40.4°X23.3° ~ 1.1°X0.62°	26.99°X15.56° ~ 0.68°X0.39°	19.45°X11.15° ~ 0.49°X0.27°
Operation	Zoom	Remote	
	Focus	Remote	
	Iris	DC auto iris	
M.O.D.	5m		
Filter pitch	M95 P=1.0		
Weight	2.9kg	3.2kg	3.3kg



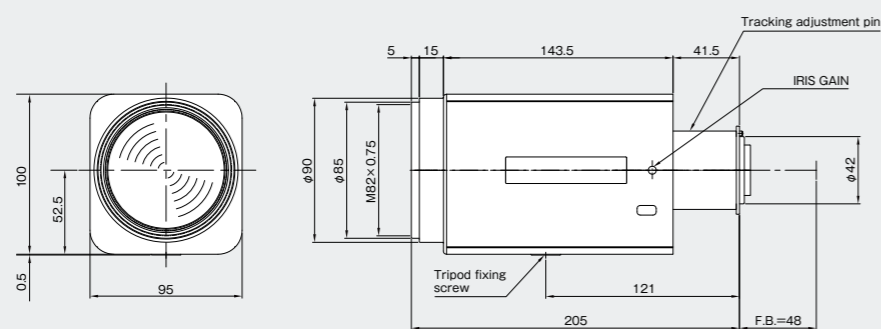
JB25X9HS SS

Full HD 25x Zoom Lens for 3 CCD / 3 CMOS



- Motorized zoom lens for 3 CCD / 3 CMOS
- Adopt the broadcast standard lens mount, B4 mount
- Full HD resolution and minimize color aberration
- Suitable for high-end surveillance, weather live camera, etc..
- Possible to operate a lens by Canon's position servo remote controller (Hirose 12 pins)

Model No.	JB25X9HS SS	
Maximum compatible sensor	2/3	
Focal length	9.6 ~ 240mm	
F No.	1:1.9	
Range of iris	1.9 ~ Close	
Mount	B4	
Angle of view (2/3)16:9	53.1°X30.8° ~ 2.3°X1.3°	
Operation	Zoom	Servo
	Focus	Servo
	Iris	Servo
M.O.D.	1.9m	
Filter pitch	M77 P=0.75	
Weight	1,600g	



Example of actual image

* Object distance: Approx. 200 mm Camera: Full HD 2/3" 3 CMOS



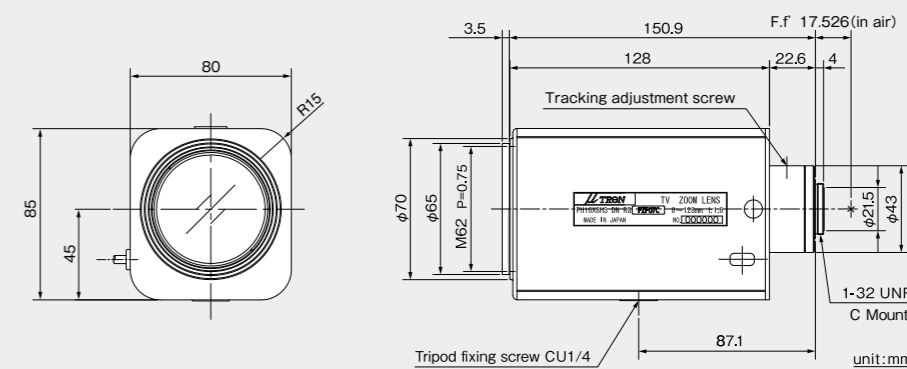
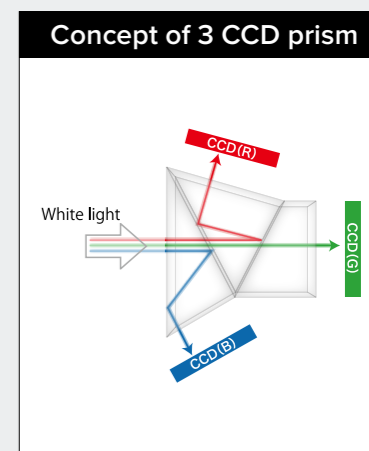
PH16X8B RGE / PH16X8B HS RGE / PH16X8B HS RS / PH16X8B HS SS

Full HD 16x Motorized Zoom Lens for 3 CCD / 3 CMOS



- Correct focus shift, caused by different wave length
- 2 Mega Full HD resolution and bring out Full HD resolution of 3 CCD / CMOS sensor
- 2 types are available, for "SD" and "HD"
- Suitable for medical applications, video conference, high-end surveillance, and color recognition in machine vision
- External iris control (iris servo) is suitable for observation and industrial applications
- All servo type (zoom, focus, and iris), the control method of broadcast lens, is also available

Model No.	PH16X8B RGE	PH16X8B HS RGE	PH16X8B HS RS	PH16X8B HS SS
Maximum compatible sensor	1/2 (SD)			1/2 (HD)
Focal length	f8 ~ 128mm			f8 ~ 128mm
F No.	1:1.6			1:1.6
Range of iris	1.6 ~ 22			1.6 ~ 22
Mount	C			C
Angle of view (1/2)	44.7°X33.4° ~ 2.9°X2.2°			48.6°X27.4° ~ 3.2°X1.8°
Angle of view (1/3)	33.4°X25.4° ~ 2.2°X1.6°			36.5°X20.6° ~ 2.4°X1.4°
Operation	Zoom	Remote	Remote	Remote
	Focus	Remote	Remote	Remote
	Iris	Video auto iris	Video auto iris	Servo
M.O.D.	1.5m			1.5m
Filter pitch	M62 P=0.75			M62 P=0.75
Weight	780g			850g



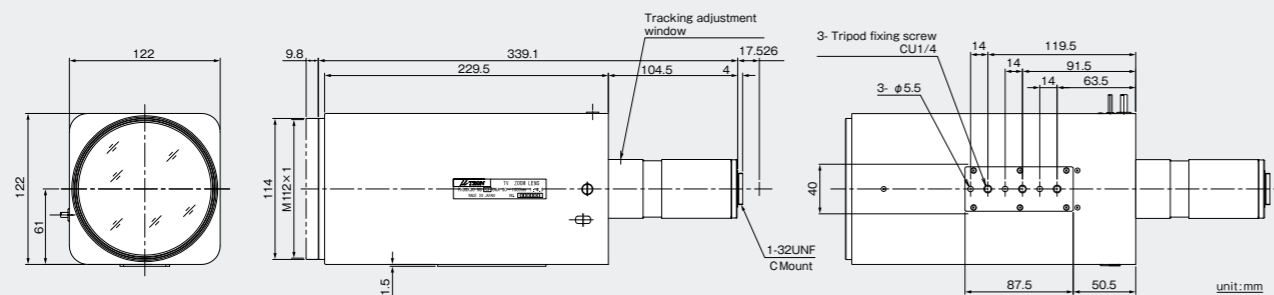
PH33X30RG

f1000mm, Long Focal 33x Motorized Zoom Lens



- Suitable for high-end applications such as surveillance of border, harbor, and disaster
- Possible to take a close-up photography of 6.4m of horizontal field of view from 1km away when 1/2" camera is used
- Adopt ED glass to correct chromatic aberration
- Wide-band coating to improve performance with NIR
- Servo type is available, possible to control zoom and focus in high accuracy

Model No.	PH33X30RG	
Maximum compatible sensor	1/2	
Focal length	f30 ~ 1000mm	
F No.	1:4.5	
Range of iris	4.5 ~ 560	
Mount	C	
Angle of view (1/2)	11.8°X8.8° ~ 0.4°X0.3°	
Angle of view (1/3)	9.7°X5.5° ~ 0.3°X0.2°	
Operation	Zoom	Remote
	Focus	Remote
	Iris	DC auto iris
M.O.D.	3m	
Filter pitch	M112 P=1.0	
Weight	3,600g	



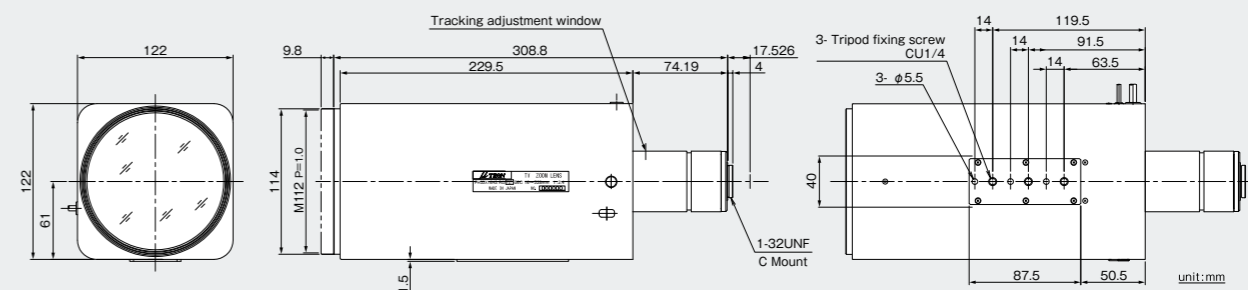
PH33X16HS RG

Long Focal 33x Motorized Zoom Lens for 2 Mega Pixel



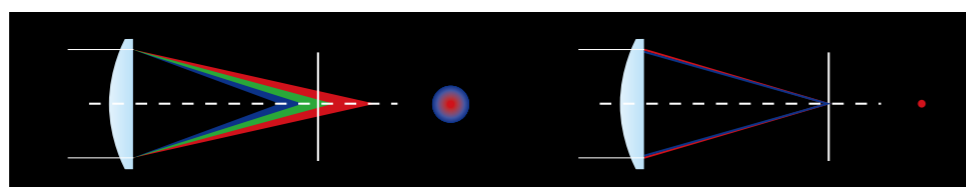
- Suitable for high-end applications such as surveillance of border, harbor, and disaster
- Compatible with 2 Mega Pixel of HD camera
- Excellent brightness at tele end
- Adopt ED glass to correct chromatic aberration
- Wide-band coating to improve performance with NIR
- Servo type is available, possible to control zoom and focus in high accuracy

Model No.	PH33X16HS RG	
Maximum compatible sensor	1/2	
Focal length	f16 ~ 528mm	
F No.	1:2.4	
Range of iris	2.4 ~ 560	
Mount	C	
Angle of view (1/2) 4:3	22.0°X16.6° ~ 0.7°X0.5°	
Angle of view (1/3) 16:9	18.2°X10.3° ~ 0.6°X0.3°	
Operation	Zoom	Remote
	Focus	Remote
	Iris	DC auto iris
M.O.D.	3m	
Filter pitch	M112 P=1.0	
Weight	3,500g	



Characteristic of ED glass (Example of focus shift by different wavelength)

Reduce color aberration and produce the sharp image by ED glass



Standard glass

ED glass

PH36X10RG

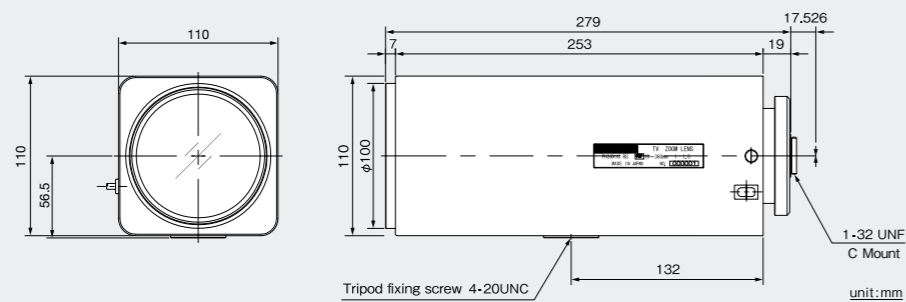
36x Motorized Zoom Lens for Mega Pixel

LONG FOCAL **MEGA PIXEL**



- ◻ Suitable for high-end applications such as surveillance of border, harbor, and disaster
- ◻ High zoom ratio lens
- ◻ Compact design, compatible with any size of housing
- ◻ F1.5 bright, suitable for the surveillance at night
- ◻ Zoom lens for Mega Pixel
- ◻ Stable performance from wide to tele end

Model No.	PH36X10RG	
Maximum compatible sensor	1/2	
Focal length	f10 ~ 360mm	
F No.	1:1.5	
Range of iris	1.5 ~ 360	
Mount	C	
Angle of view (1/2)	34.4°X26.1° ~ 1.1°X0.8°	
Angle of view (1/3)	26.1°X19.7° ~ 0.8°X0.6°	
Operation	Zoom	Remote
	Focus	Remote
	Iris	DC iris
M.O.D.	2.8m	
Filter pitch	M95 P=1.0	
Weight	3,200g	



Example of actual image

* Object distance : Approx. 400m Camera : HD 1/3" sensor



J25X9HS RG

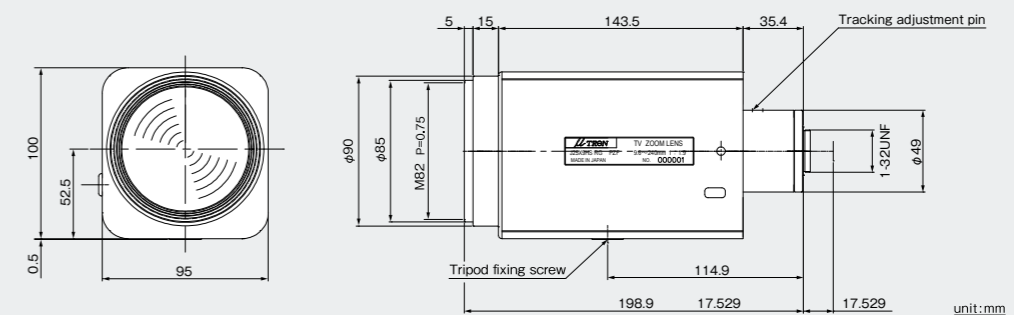
Full HD 25x Motorized Zoom Lens for 2/3"

2/3" **FULL HD**



- ◻ Full HD 25x Motorized Zoom Lens for 2/3", very few choices in the current CCTV market
- ◻ Compatible with large format sensor
- ◻ Suitable for dark environment or night vision that can not be used any illuminations
- ◻ Ultra high sensitivity, suitable for dark environment or night vision without lightings
- ◻ Minimize F No. drop from wide to tele end

Model No.	J25X9HS RG	
Maximum compatible sensor	2/3	
Focal length	9.6 ~ 240mm	
F No.	1:1.9	
Range of iris	1.9 ~ 560	
Mount	C	
Angle of view (2/3)16:9	53.1°X30.8° ~ 2.3°X1.3°	
Operation	Zoom	Remote
	Focus	Remote
	Iris	DC auto
M.O.D.	2.8m	
Filter pitch	M82 P=0.75	
Weight	1,600g	



Example of actual image at night (Image at night without the outdoor lights)

* Object distance: Approx. 300m Camera: 2/3" Ultra high sensitivity



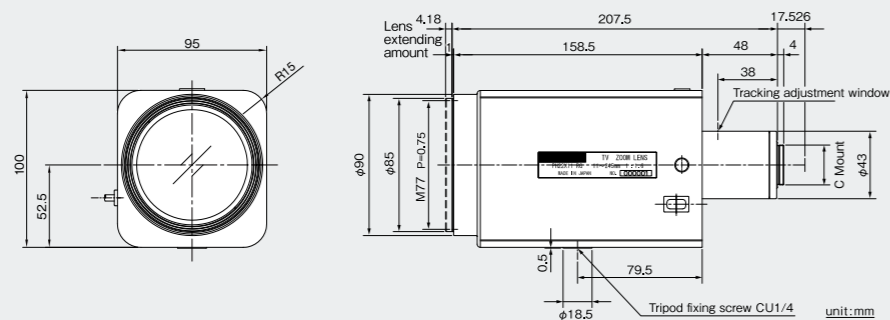
PH22X11RG

22x Motorized Zoom Lens for Mega Pixel



- Zoom lens for 1.3 Mega Pixel
- Suitable for surveillance of airport, river, railroad, and defense, required for middle range of focal length
- Compact design, compatible with any size of housing
- Stable performance without out of focus from wide to tele end

Model No.	PH22X11RG	
Maximum compatible sensor	1/2	
Focal length	f11 ~ 245mm	
F No.	1:1.6	
Range of iris	1.6 ~ 560	
Mount	C	
Angle of view (1/2)	31.5°X23.9° ~ 1.6°X1.2°	
Angle of view (1/3)	23.9°X18.0° ~ 1.2°X0.9°	
Operation	Zoom	Remote
	Focus	Remote
	Iris	DC iris
M.O.D.	2.5m	
Filter pitch	M77 P=0.75	
Weight	1,300g	



Example of actual image

* Object distance: Approx. 1,500m Camera: Full HD 1/3"



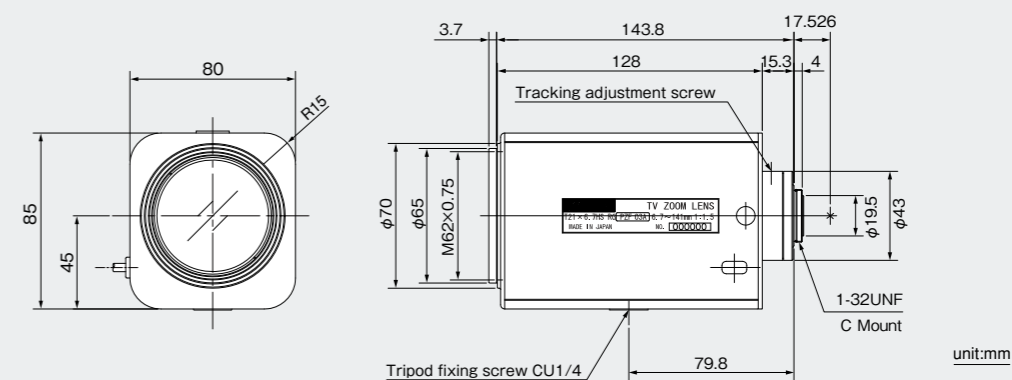
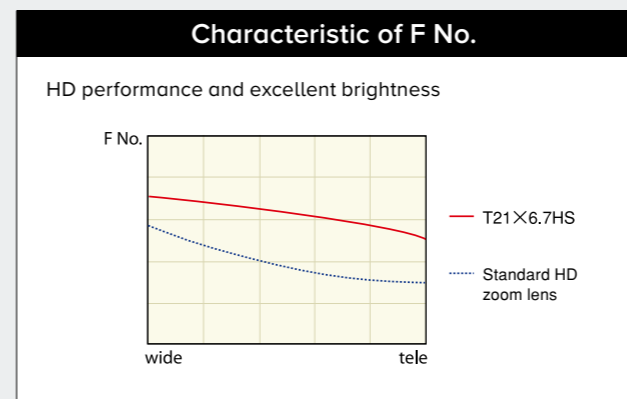
T21X6.7HS RG

21x Motorized Zoom Lens for Full HD



- Suitable for small pixel size of Full HD camera
- Design for Full HD
- Excellent brightness, F No. 1.5
- Compact design

Model No.	T21X6.7HS RG	
Maximum compatible sensor	1/2.7	
Focal length	f 6.7 ~ 140mm	
F No.	1:1.5	
Range of iris	1.5 ~ 360	
Mount	C	
Angle of view (1/2.7) 16:9	48.5°X27.2° ~ 2.4°X1.4°	
Angle of view (1/3) 16:9	43.4°X24.4° ~ 2.2°X1.2°	
Operation	Zoom	Remote
	Focus	Remote
	Iris	DC auto
M.O.D.	1.8m	
Filter pitch	M62 P=0.75	
Weight	800g	



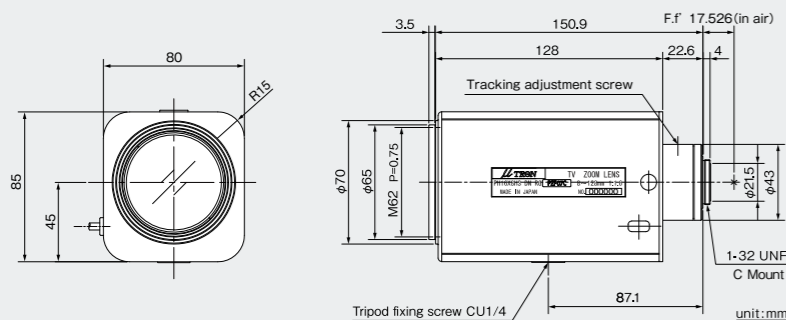
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IR Corrected 16x Motorized Zoom Lens for Full HD



- ◻ Suitable for the highway number plate recognition and city surveillance
- ◻ Compatible with 2 Mega Pixel of FULL HD camera
- ◻ Design for IR collected, no focus shift with 950nm of NIR lighting
- ◻ Suitable for high sensitivity camera
- ◻ Suitable for surveillance for 24 hours
- ◻ Design for reducing chromatic aberration and excellent brightness at day and night

Model No.	PH16X8HS DN RG	
Maximum compatible sensor	1/2	
Focal length	f8 ~ 128mm	
F No.	1:1.6	
Range of iris	1.6 ~ 560	
Mount	C	
Angle of view (1/2)	43.0°X32.8° ~ 2.9°X2.2°	
Angle of view (1/3)	32.8°X24.9° ~ 2.2°X1.7°	
Operation	Zoom	Remote
	Focus	Remote
	Iris	DC iris
M.O.D.	2m	
Filter pitch	M62 P=0.75	
Weight	850 g	

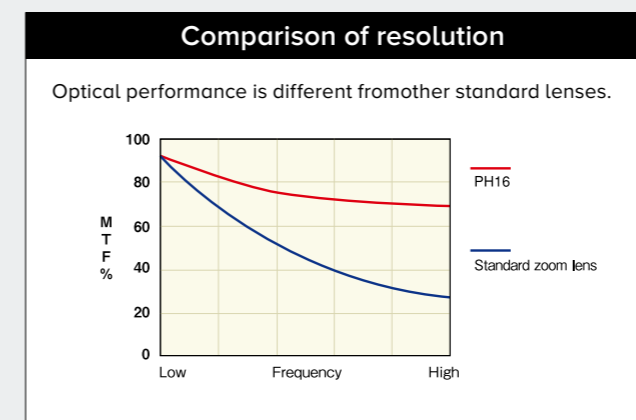


16x Motorized Zoom Lens for Mega Pixel



- ◻ Suitable for the highway number plate recognition and city surveillance
- ◻ Design for Mega Pixel
- ◻ Mega pixel image is suitable for human and license plate recognition
- ◻ Compact design
- ◻ Stable performance from wide to tele end

Model No.	PH16X8RG	
Maximum compatible sensor	1/2	
Focal length	f8 ~ 128mm	
F No.	1:1.6	
Range of iris	1.6 ~ 560	
Mount	C	
Angle of view (1/2)	44.7°X33.4° ~ 2.9°X2.2°	
Angle of view (2/3)	36.5°X20.5° ~ 2.4°X1.4°	
Operation	Zoom	Remote
	Focus	Remote
	Iris	DC iris
M.O.D.	1.5m	
Filter pitch	M62 P=0.75	
Weight	760g	

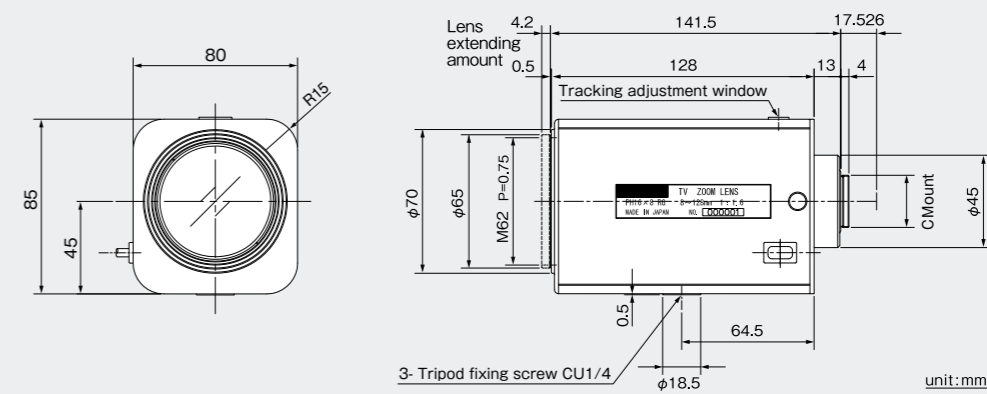


Conceptual diagram of IR Corrected lens

A lens for visible ray

A lens for NIR

In general, it is different from the focal point of visible ray and NIR. The focal of image is different from the focusing at daytime and night time. IR Corrected lens maintains focus from visible to NIR and provides sharp images without focus shift in darkness using NIR illumination.



10x Motorized Zoom Lens for 1"



- ▶ Design for 1"
- ▶ 2 Mega Full HD resolution
- ▶ Provide sharp image from the center to the edge of image
- ▶ 3 motor (zoom, focus, and iris) type is also available, suitable for both industrial and surveillance
- ▶ Suitable for macro imaging such as printing, visual inspection by using close-up lens

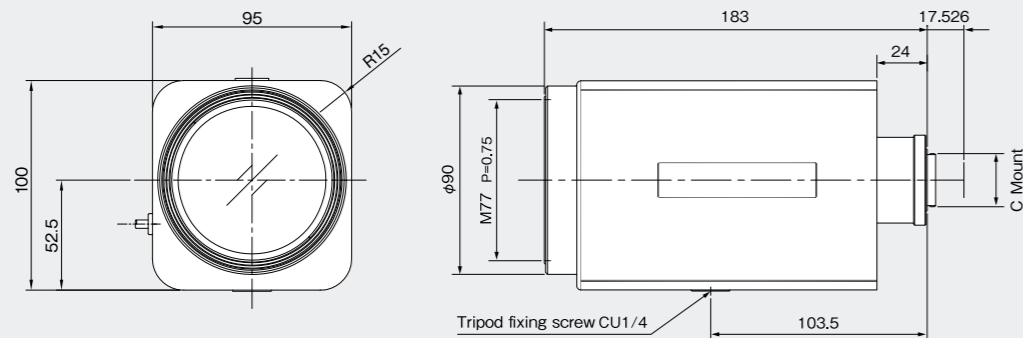
Close-Up Lens

Maintain HD resolution with



* Need stepping ring to attach the close-up lens

Model No.	V10X16HS R	V10X16HS RG
Maximum compatible sensor	1	
Focal length	f 16 ~ 160mm	
F No.	1:2.2	
Range of iris	2.2 ~ Close	2.2 ~ 540
Mount	C	
Angle of view (1)	43.1°X34.8° ~ 4.6°X3.7°	
Operation	Zoom	Remote
	Focus	Remote
	Iris	Remote DC auto
M.O.D.	1.8m	
Filter pitch	M77 P=0.75	
Weight	1220g	



10x Motorized Zoom Lens for 2 Mega Pixel

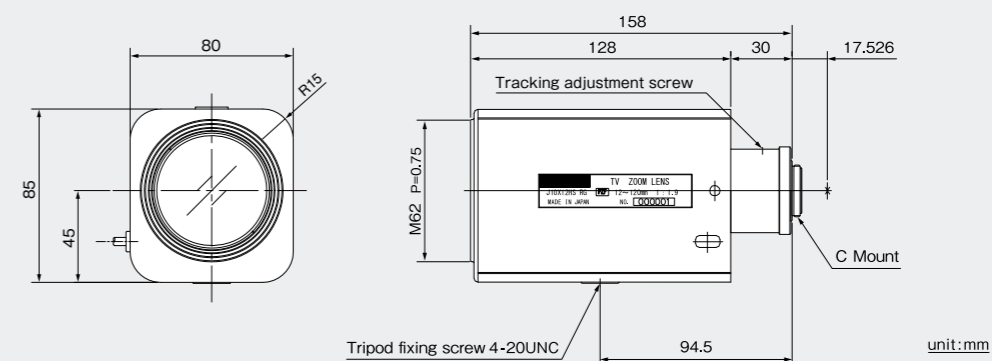


- ▶ Design for 2/3"
- ▶ 2 Mega Full HD resolution
- ▶ Provide sharp image from the center to the edge of image
- ▶ Suitable for applications, required for Full HD resolution and high sensitivity for large format sensor
- ▶ Minimize F No. drop from wide to tele end, suitable for night vision

Characteristic of F No.

Stable F No. from wide to tele end

Model No.	J10X12HS RG
Maximum compatible sensor	2/3 (φ 12.1)
Focal length	f 12 ~ 120mm
F No.	1:1.9
Range of iris	1.9 ~ 360
Mount	C
Angle of view (2/3) 16:9	43.6°X25.4° ~ 4.6°X2.6°
Operation	Zoom Remote
	Focus Remote
	Iris DC auto
M.O.D.	2m
Filter pitch	M62 P=0.75
Weight	800g

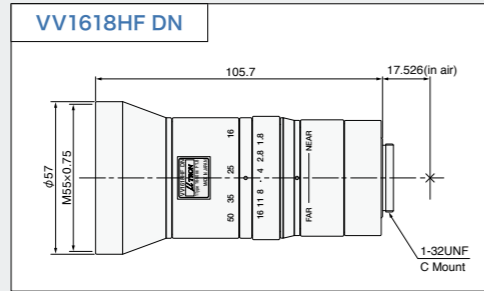


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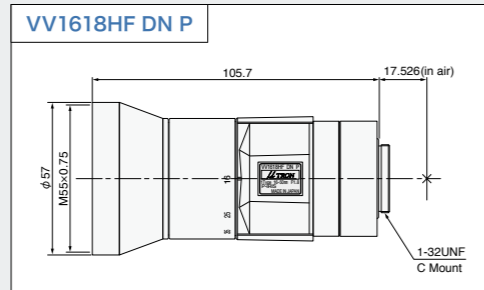
4K Resolution Vari Focal Lens for 1"



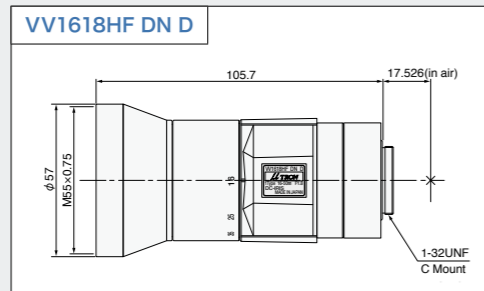
Mega Pixel Vari Focal Lens



Model No.	VV1618HF DN
Maximum compatible sensor	1
Focal length	f16 ~ 50mm
F No.	1:1.8
Range of iris	1.8 ~ Close
Mount	C
Operation	Iris
Iris	Manual
M.O.D.	2m
Filter pitch	M55 P=0.75
Weight	310g

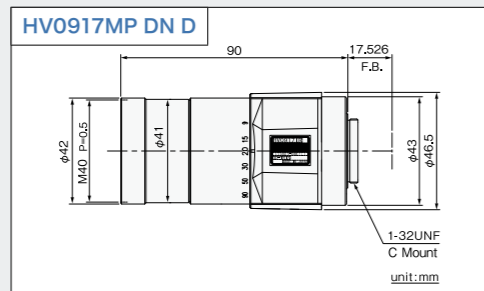


Model No.	VV1618HF DN P
Maximum compatible sensor	1
Focal length	f16 ~ 50mm
F No.	1:1.8
Range of iris	1.8 ~ Close
Mount	C
Operation	Iris
Iris	P Iris
M.O.D.	2m
Filter pitch	M55 P=0.75
Weight	310g



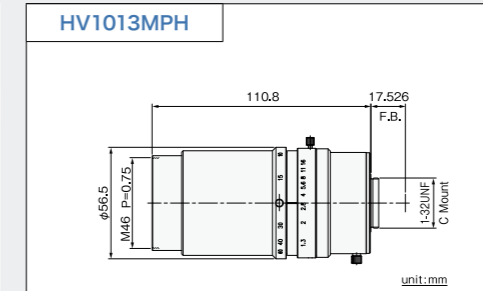
Model No.	VV1618HF DN D
Maximum compatible sensor	1
Focal length	f16 ~ 50mm
F No.	1:1.8
Range of iris	1.8 ~ 360
Mount	C
Operation	Iris
Iris	DC Auto Iris
M.O.D.	2m
Filter pitch	M55 P=0.75
Weight	310g

- ◉ Suitable for 3.45µm/pixel, global shutter
- ◉ Design for IR corrected, no focus shift with NIR lighting
- ◉ Compatible with 1", high sensitivity camera
- ◉ Variable focal length from 16 mm to 50 mm, and F No is maintained
- ◉ Manual, P iris and DC Auto Iris are available

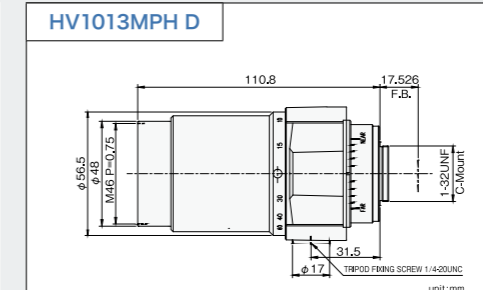


Model No.	HV0917MP DN D
Maximum compatible sensor	1/2
Focal length	f9 ~ 90mm
F No.	1:1.7
Range of iris	1.7 ~ 360
Mount	C
Operation	Iris
Iris	DC Auto Iris
M.O.D.	1m
Filter pitch	M40.5 P=0.5
Weight	205g

- ◉ 10x vari focal lens, f9mm - 90mm
- ◉ Design for IR corrected, no focus shift with 950nm of NIR lighting
- ◉ Mega pixel performance from visible to Near IR
- ◉ Suitable for IR corrected (24 hours) surveillance of a parking lot and highway
- ◉ f20mm or longer focal length can be used for 1/1.8" camera

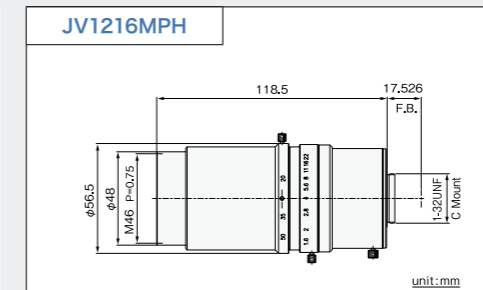


Model No.	HV1013MPH
Maximum compatible sensor	1/1.8
Focal length	f10 ~ 60mm
F No.	1:1.3
Range of iris	1.3 ~ 16
Mount	C
Operation	Iris
Iris	Manual
M.O.D.	1m
Filter pitch	M46 P=0.75
Weight	310g

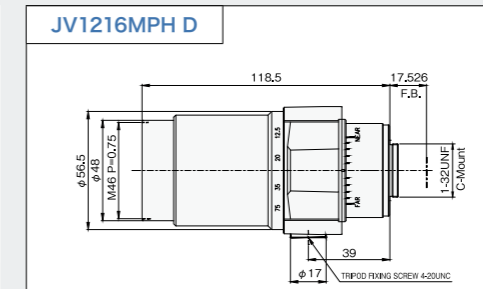


Model No.	HV1013MPH D
Maximum compatible sensor	1/1.8
Focal length	f10 ~ 60mm
F No.	1:1.3
Range of iris	1.3 ~ 360
Mount	C
Operation	Iris
Iris	DC Auto Iris
M.O.D.	1m
Filter pitch	M46 P=0.75
Weight	330g

- ◉ Large aperture, F No. 1.4 at tele end
- ◉ Compatible with 1/1.8" camera
- ◉ Design for 3 Mega Pixel
- ◉ Also suitable for industrial applications



Model No.	JV1216MPH
Maximum compatible sensor	2/3
Focal length	f12.5 ~ 75mm
F No.	1:1.6
Range of iris	1.6 ~ 16
Mount	C
Operation	Iris
Iris	Manual
M.O.D.	1m
Filter pitch	M46 P=0.75
Weight	315g



Model No.	JV1216MPH D
Maximum compatible sensor	2/3
Focal length	f12.5 ~ 75mm
F No.	1:1.6
Range of iris	1.6 ~ 360
Mount	C
Operation	Iris
Iris	DC Auto Iris
M.O.D.	1m
Filter pitch	M46 P=0.75
Weight	340g

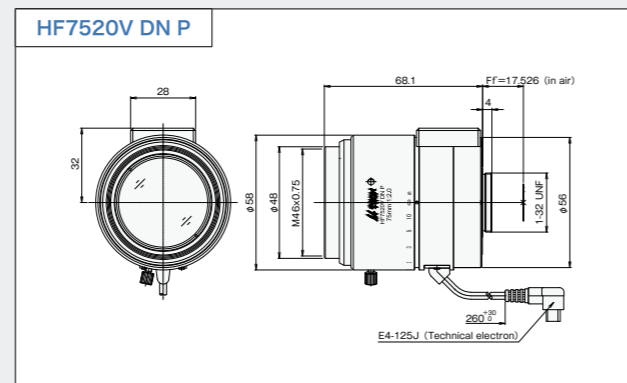
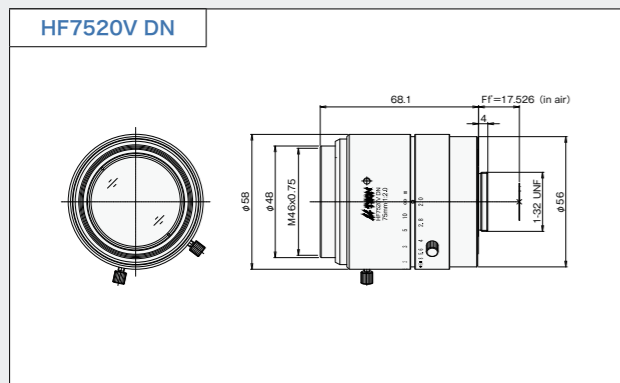
- ◉ Large aperture, F No. 1.8 at tele end
- ◉ Compatible with 2/3" camera
- ◉ Design for 3 Mega Pixel
- ◉ Also suitable for industrial applications

4K Resolution Fixed Focal Length Lens for 1"



- Long focal, focal length 75mm
- Excellent lens brightness, F No. 2.0
- Design for IR corrected, no focus shift with NIR lighting
- Manual and P iris are available
- Suitable for surveillance for 24 hours, especially for ITS

Model No.	Focal length	F No.	M.O.D.	Filter pitch	Mount	Maximum compatible CCD	Iris
HF7520V DN	f75mm	1:2.0	1.5m	M43 P=0.75	C	1	Manual
HF7520V DN P	f75mm	1:2.0	1.5m	M43 P=0.75	C	1	P Iris

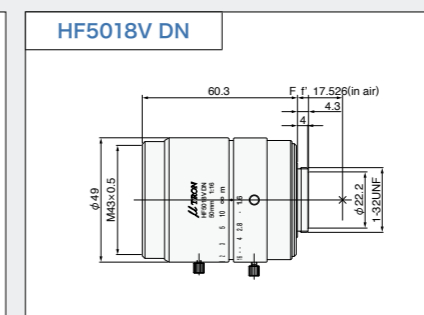
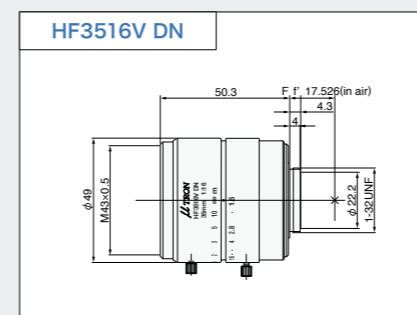
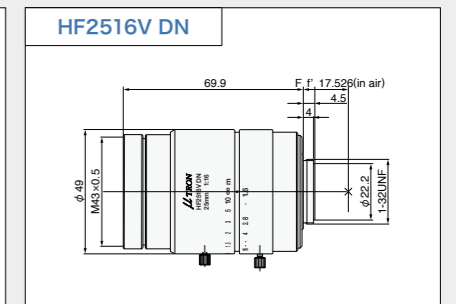
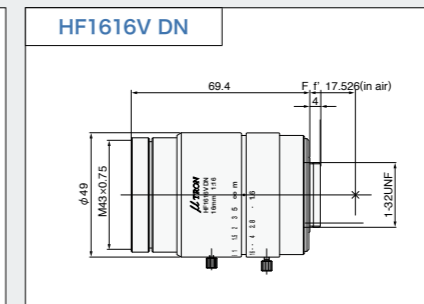
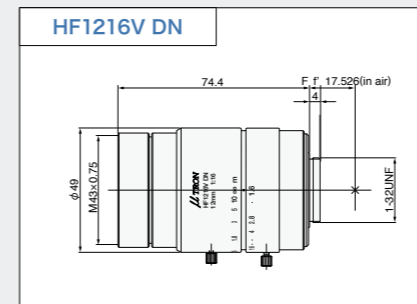


4K Resolution Fixed Focal Lens for 1"



- Suitable for surveillance for 24 hours, especially for ITS
- Compatible with 1", high sensitivity camera
- Design for preventing from the focus shift by temperature change
- Design for reducing chromatic aberration and excellent brightness at day and night
- Manual and P iris are available

Model No.	Focal length	F No.	M.O.D.	Filter pitch	Mount	Maximum compatible CCD	Iris
HF1216V DN	f 12mm	1:1.6	1.8m	M43 P=0.75	C	1	Manual P iris
HF1616V DN	f 16mm	1:1.6	0.8m	M43 P=0.75	C	1	
HF2516V DN	f 25mm	1:1.6	1.0m	M43 P=0.75	C	1	
HF3516V DN	f 35mm	1:1.6	1.5m	M43 P=0.75	C	1	
HF5018V DN	f 50mm	1:1.8	1.5m	M43 P=0.75	C	1	
HF7520V DN	f 75mm	1:2.0	1.5m	M43 P=0.75	C	1	

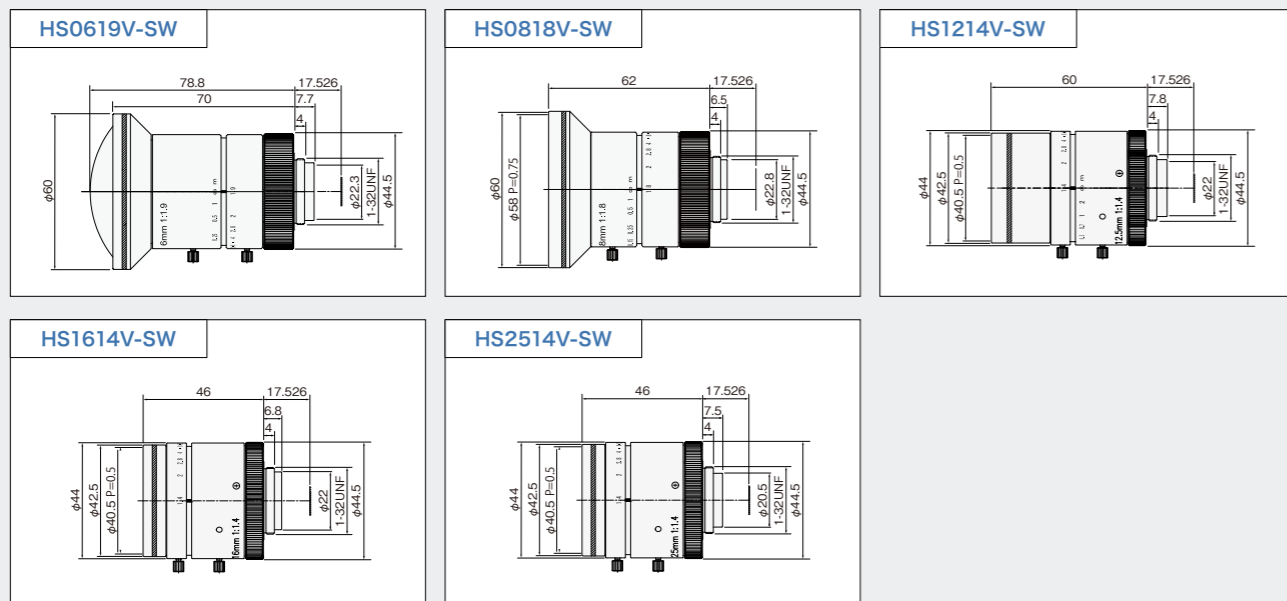


SWIR Fixed Focal Lens for 1"



- Available for SWIR image sensor 1"
- Special design to transmit SWIR 700 ~ 2000 nm
- Possible to capture differences and defects that cannot be seen in visible ray

ModelNo.	Focal length	F No.	M.O.D.	Filter pitch	Mount	Maximum compatible sensor
HS0619V-SW	f 6mm	1:1.9	0.1m	-	C	1
HS0818V-SW	f 8mm	1:1.8	0.1m	M58 P=0.75	C	1
HS1214V-SW	f 12.5mm	1:1.4	0.3m	M40.5 P=0.5	C	1
HS1614V-SW	f 16mm	1:1.4	0.3m	M40.5 P=0.5	C	1
HS2514V-SW	f 25mm	1:1.4	0.3m	M40.5 P=0.5	C	1
HS3516V-SW	f 35mm	1:1.6	0.2m	M40.5 P=0.5	C	1.1
HS5016V-SW	f 50mm	1:1.6	0.3m	M40.5 P=0.5	C	1.1
HS7520V-SW	f 75mm	1:2.0	0.44m	M40.5 P=0.5	C	1.1
HS10028V-SW	f 100mm	1:2.8	0.62m	M46 P=0.75	C	1.1

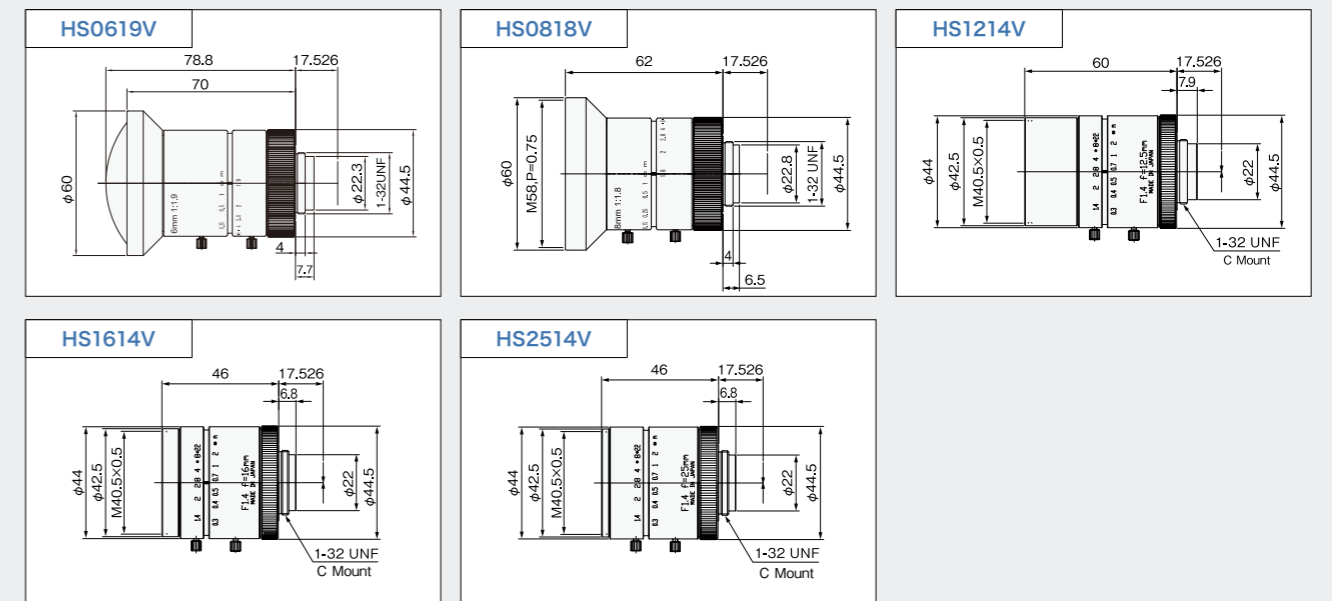


5 Mega Pixel – 9 Mega Pixel Fixed Focal Lens for 1"



- Available for 1", 1.1"
- Stable performance at different working distance, from macro to infinity by floating design
- Excellent brightness, suitable for both machine vision and high-end surveillance
- Suitable for 5 Mega Pixel – 9 Mega Pixel

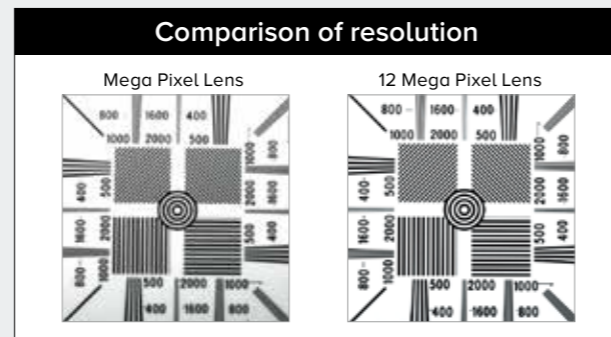
ModelNo.	Focal length	F No.	M.O.D.	Filter pitch	Mount	Maximum compatible sensor
HS0619V	f 6mm	1:1.9	0.1m	-	C	1
HS0818V	f 8mm	1:1.8	0.1m	M58 P=0.75	C	1
HS1214V	f 12mm	1:1.4	0.3m	M40.5 P=0.5	C	1
HS1614V	f 16mm	1:1.4	0.3m	M40.5 P=0.5	C	1
HS2514V	f 25mm	1:1.4	0.3m	M40.5 P=0.5	C	1
HS3516V	f 35mm	1:1.6	0.2m	M40.5 P=0.5	C	1.1
HS5016V	f 50mm	1:1.6	0.3m	M40.5 P=0.5	C	1.1
HS7520V	f 75mm	1:2.0	0.44m	M40.5 P=0.5	C	1.1
HS10028V	f 100mm	1:2.8	0.62m	M46 P=0.75	C	1.1



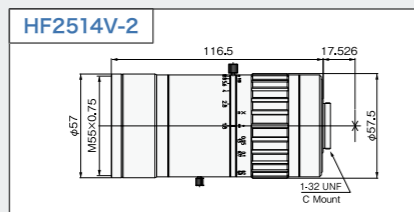
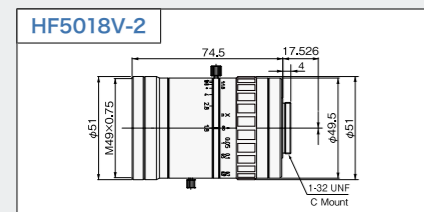
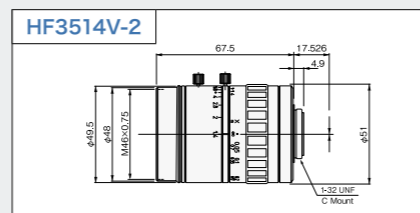
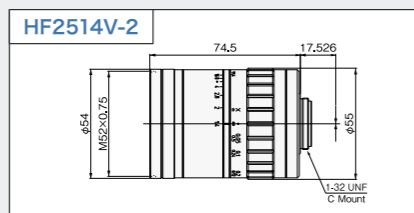
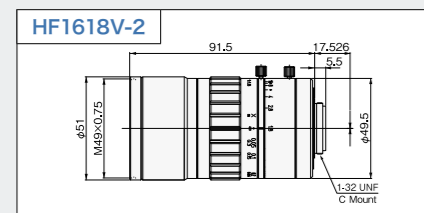
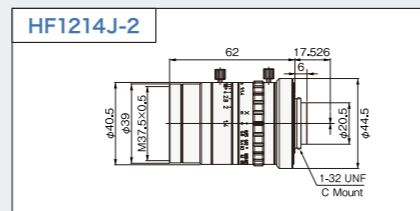
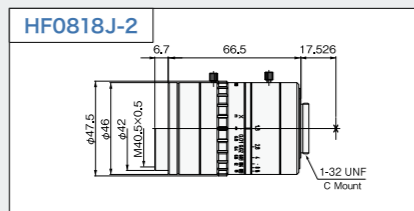
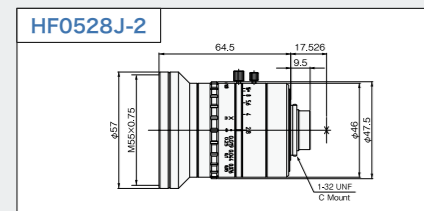
High Resolution Fixed Focal Lens for 12 Mega Pixel



- ◉ Suitable for 5 Mega Pixel - 12 Mega Pixel
- ◉ Focal length, longer than f16mm is compatible with large format, 1.1" sensor
- ◉ Stable performance at different working distance, from macro to infinity (∞) by floating design



Model No.	Focal length	F No.	M.O.D.	Filter pitch	Mount	Maximum compatible sensor
HF0528J-2	f 5mm	1:2.8	0.1m	M55 P=0.75	C	2/3
HF0818J-2	f 8mm	1:1.8	0.1m	M40.5 P=0.75	C	2/3
HF1214J-2	f 12mm	1:1.4	0.1m	M37.5 P=0.5	C	2/3
HF1618V-2	f 16mm	1:1.8	0.1m	M49 P=0.75	C	1.1
HF2514V-2	f 25mm	1:1.4	0.1m	M52 P=0.75	C	1.1
HF3514V-2	f 35mm	1:1.4	0.1m	M46 P=0.75	C	1.1
HF5018V-2	f 50mm	1:1.8	0.2m	M49 P=0.75	C	1.2
HF7518V-2	f 75mm	1:1.8	0.3m	M55 P=0.75	C	1.2

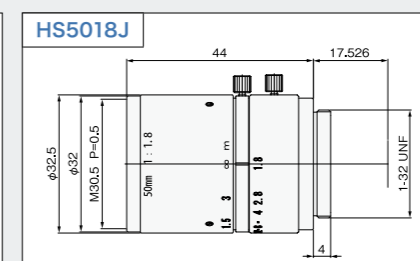
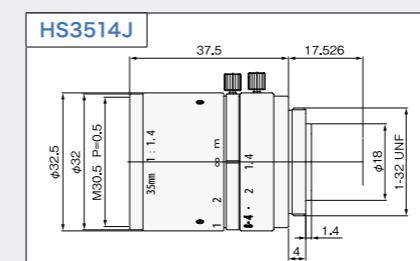
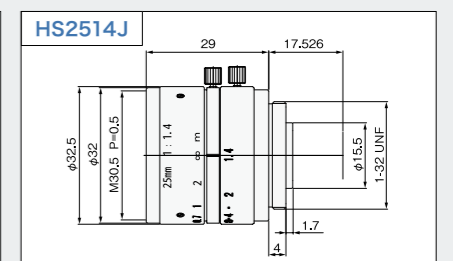
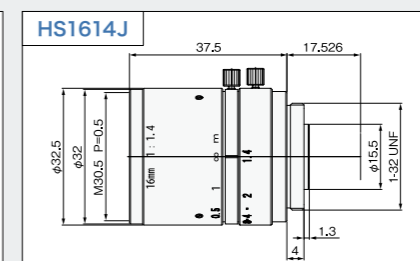
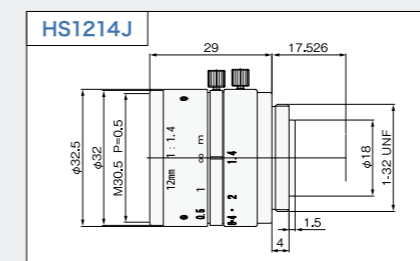
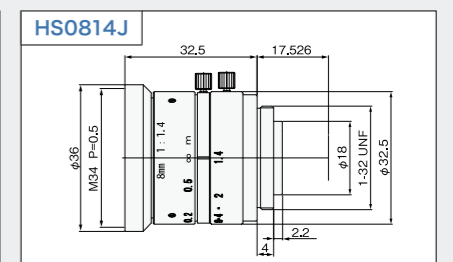
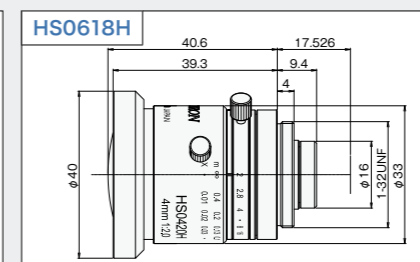
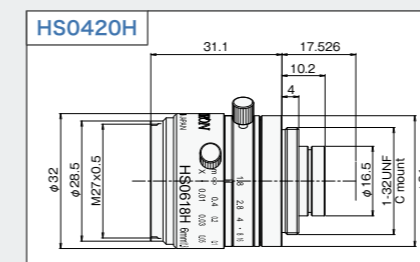


3 Mega Pixel Fixed Focal Lens



- ◉ Suitable for 3 Mega Pixel (1/1.8", 2/3")
- ◉ Compact and excellent brightness, suitable for various applications for surveillance and machine vision
- ◉ Stable performance from macro to infinity (∞)
- ◉ High durability

Model No.	Focal length	F No.	M.O.D.	Filter pitch	Mount	Maximum compatible sensor
HS0420H	f 4mm	1:2.0	0.1m	Option	C	1/1.8
HS0618H	f 6mm	1:1.8	0.1m	M27 P=0.5	C	1/1.8
HS0814J	f 8mm	1:1.4	0.1m	M34 P=0.5	C	2/3
HS1214J	f 12mm	1:1.4	0.15m	M30.5 P=0.5	C	2/3
HS1614J	f 16mm	1:1.4	0.2m	M30.5 P=0.5	C	2/3
HS2514J	f 25mm	1:1.4	0.3m	M30.5 P=0.5	C	2/3
HS3514J	f 35mm	1:1.4	0.3m	M30.5 P=0.5	C	2/3
HS5018J	f 50mm	1:1.8	0.5m	M30.5 P=0.5	C	2/3

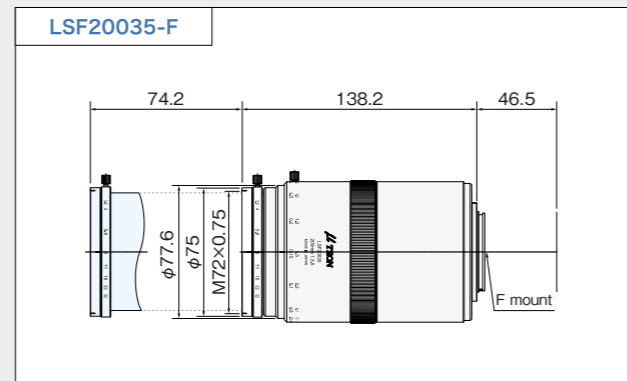
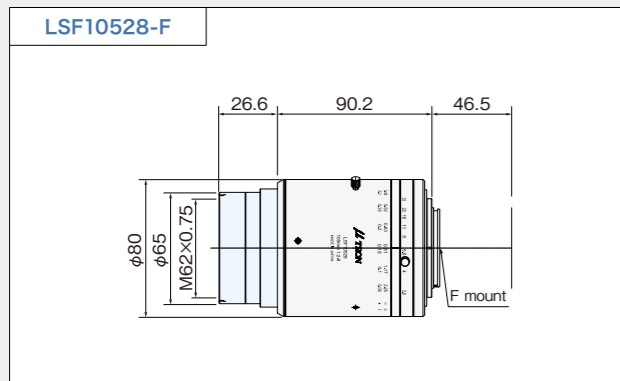


Large format Fixed Focal Lens for High Sensitivity CMOS sensor



- Available for 35mm full sized CMOS sensor
- Line up long focal f105mm and f200mm
- Very high performance for surveillance (ITS, Harbor, Railway and Border)

Model No.	Focal length	F No.	M.O.D.	Filter pitch	Image Circle	Mount
LSF10528-F	f 105mm	1:2.8	0.43m	M62 P=0.75	φ 48mm	F
LSF20035-F	f 200mm	1:3.5	0.85m	M72 P=0.75	φ 48mm	F

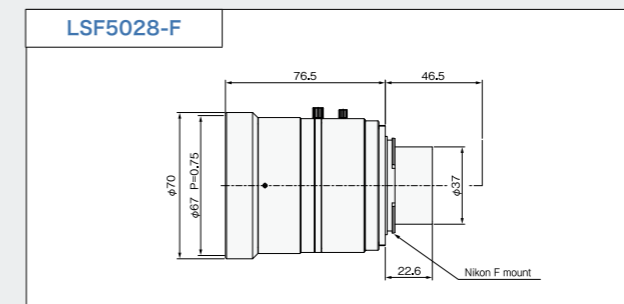
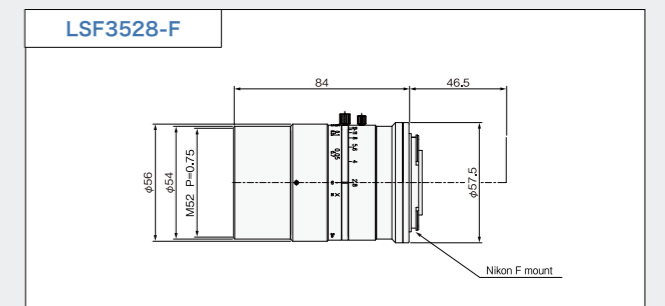
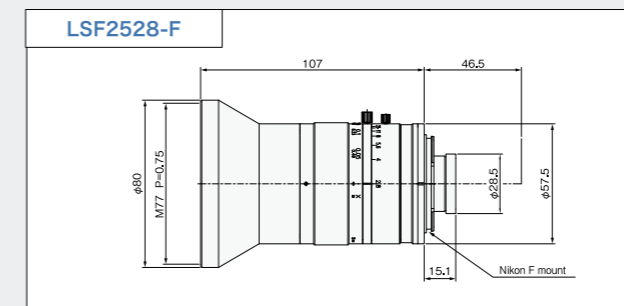


Large format Fixed Focal Lens for High Sensitivity CMOS sensor



- Stable performance from macro to infinity
- Design for reducing chromatic aberration
- Very high performance for short distance surveillance

Model No.	Focal length	F No.	M.O.D.	Filter pitch	Image Circle	Mount
LSF2528-F	f 25mm	1:2.8	0.14m	M77 P=0.75	φ 44mm	F
LSF3528-F	f 35mm	1:2.8	0.23m	M52 P=0.75	φ 44mm	F
LSF5028-F	f 50mm	1:2.8	0.19m	M67 P=0.5	φ 44mm	F





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