

computar[®]

LENS PRODUCT GUIDE

12-13



The World Standard for Lenses.

At CBC, we have set the world standard for lenses through the design, manufacture and global sales of the "Computar" brand. Since the very beginning of the video security market, we have established a strong worldwide distribution network. As a pioneer in lenses, CBC and the Computar brand have grown along with the demands of the world market.

Computar CCTV lenses were introduced in the US during the mid-1970s and have continued to meet security challenges globally for more than 30 years. Today, we lead the industry in Japan, Europe, Asia and markets all over the world. We offer a comprehensive lineup of high-quality products with excellent cost performance. Our designs utilize leading-edge technology, enabling us to achieve the highest quality while also ramping up production in our factories in Japan and abroad. We are proud to have an established worldwide sales network, built on the excellence of our Computar products.

CBC is committed to maintaining the world standard for lenses through continuous research and development. We continue to strive to achieve even greater quality to meet our customer needs for today's evolving security challenges.

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FEATURE INDICATION

Lens type

FIX	Fixed Focal	Fixed focal length, very simple and compact design
VARI	VariFocal	Compact design, focal length adjusted manually
ZOOM	Zoom	Focal length adjusted without focus shift of image plane

Iris type

MANUAL	Manual Iris	Manually operated iris
DC	DC Auto Iris	Auto iris supporting DC controlled cameras
VIDEO	Video Auto Iris	Auto iris supporting Video controlled cameras
P-iris	P-iris	Auto iris supporting P-iris controlled cameras
3 MOTOR	3 Motors	Operated iris, zoom and focus by electric remote control

Function

F1.0	Wide Aperture Ratio	Large aperture that transmits more light
ASP	Aspherical Lens	Aspherical lens which greatly improves the image quality and compact design
1MP	Megapixel Lens	High definition lens which is used mainly with 1MP cameras
2MP	Megapixel Lens	High definition lens which is used mainly with 2MP cameras
3MP	Megapixel Lens	High definition lens which is used mainly with 3MP cameras
5MP	Megapixel Lens	High definition lens which is used mainly with 5MP cameras
IR	Day & Night	Lens optimized for both visible and new IR spectrum which eliminates focus shift with Day&Night cameras

Feature of Focal Length

WIDE	Wide Angle Lens	Lens provides a wide field of view
TELE	Telephoto Lens	Lens provides a small field of view or magnified image in long range applications

Feature of Zoom

SPOT FILTER	Spot Filter	A neutral density filter inside the lens that attenuates the amount of light transmission from very bright object
PRESET	Preset on Focus & Zoom	The model which has the function of preset on focus and zoom
OVERRIDE	Override Manual	The model which enables manual control from remote locations

Application of Megapixel / FA Lens

SECURITY	Security	For Security, available for monitoring at infinity. Provides good image recognition accuracy
FA	FA-Image Processing	For Factory Automation or Image Processing, used in monitoring at a close proximity

MODEL NAME CODING RULE

Manual Iris / Auto Iris (DC&Video) / Varifocal Manual Iris / Varifocal Auto Iris (DC & Video)

T2314FICS	T		23	14		FI	CS	
T3Z2910CS	T		3Z	29	10			CS
HG3Z4512AFCS-IR	H	G	3Z	45	12	AF	CS	-IR
HG2Z0414FC-MP	H	G	2Z	04	14	F	C	-MP
AG3Z3112KCS-MPIR	A	G	3Z	31	12	K	CS	-MPIR
	①	②	③	④	⑤	⑥	⑦	⑧

① CCD Size	T..... 1/3 inch
	H..... 1/2 inch
	M..... 2/3 inch
	A..... 1/2.7 inch
② With Galvanometer (Auto Iris)	
③ Zoom Ratio	HG 2Z 0414FC-MP... 2 times (f=4~8mm)
④ Focal Length	T 23 14FICS..... f=2.3 mm
⑤ Aperture	T3Z29 10 CS..... F1.0
⑥ Iris Type	FI / Blank..... Manual Iris
	AF..... Auto Iris (Video)
	F..... Auto Iris (DC)
	K..... P-iris
⑦ Mount Type	CS..... CS-Mount
	C..... C-Mount
⑧ Character	IR..... InfraRed Lens (Day & Night)
	MP..... Megapixel
	P..... Pinhole

Manual Zoom

H6Z0812	H		6Z	08	12			
T6Z5710AIDC-CS	T		6Z	57	10	AI	DC	-CS
H6Z0812AIVD	H		6Z	08	12	AI	VD	
	①		③	④	⑤	⑨	⑩	⑦

⑨ Auto Iris	
⑩ Iris Type	DC..... DC Drive
	VD..... Video Drive

Motorized Zoom

T21Z5816M-CS	T		21Z	58	16	M	-CS		
H10Z1218DC	H		10Z	12	18	DC			
H16Z7516AMSPR-IR	H		16Z	75	16	AMSPR	-IR		
H60Z1238A-IRF	H		60Z	12	38	A	-IR	F	
	①		③	④	⑤	⑪	⑦	⑧	⑩

⑪ Functional Identification	M..... 3 Motors (Iris,Focus & Zoom by Motorized Control)
	MP..... 3 Motors + Preset
	MS..... 3 Motors + Spot Filter
	MSP..... 3 Motors + Spot Filter + Preset
	AMS..... Auto Iris (Video)+Spot Filter
	AMSP..... Auto Iris (Video)+Spot Filter + Preset
	AMSR..... Auto Iris (Video)+Spot Filter+ Over-Ride
	AMSPR..... Auto Iris (Video) +Spot Filter+ Preset + Over-Ride
	DC..... Auto Iris (DC)+Spot Filter
	PDC..... Auto Iris (DC)+Spot Filter+ Preset
	A..... Auto Iris (Video)+Spot Filter+Preset+Over-Ride+Lever Remote+ALC remote
	F..... Fog through Filter

* This rule does not apply to some products



TG3Z0312KCS - MPIR



AG3Z3112FCS - MPIR

A4Z1214CS - MPIR

Megapixel Varifocal Lens Series

- Designed for optimal performance with megapixel camera applications
- IR corrected optics
- Precise focus adjustment
- Covers a range of focal lengths from super wide to telephoto
- Provides a high contrast and a sharp picture
- Delivers clear images in low-light conditions
- Compact design
- Built-in slip mount mechanism
- Locking mechanism for zoom and focus rings
- Manual, DC and P-iris models are available

▶ See pages 38-40



For 3MP/HDTV1080p network camera

This lens is designed to capture detailed images for security applications that require exceptional precision. High quality optics maximize performance with 3MP/HDTV1080p megapixel camera sensors and produce a sharp picture across the entire image plane, including the corners.

Precise focus adjustment

Setting the focus on megapixel IP cameras can be a challenge, especially when facing the limited adjustment ranges and transmission delays, that occur through a network. For this series, the focus mechanism has been designed to allow more precise focus control.

Manual, DC and P-iris models are available

Both manual iris and DC auto iris models are available to meet your needs. The P-iris lens, combined with specialized camera software, delivers superior picture quality, enhancing contrast, resolution and depth of field.

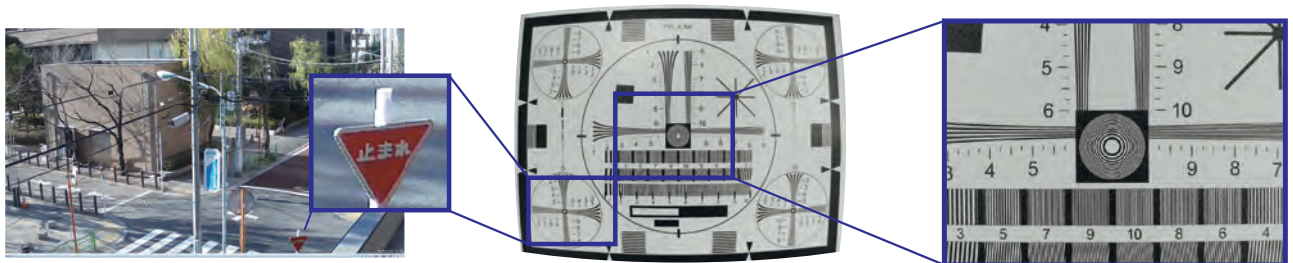
IR corrected optics designed for 24-hour surveillance

Megapixel cameras with retractable IR cut filters must use IR corrected lenses to avoid focus shift. Our lenses are designed to work with these true day & night cameras, maintaining sharp focus in both day and night modes, even in twilight.

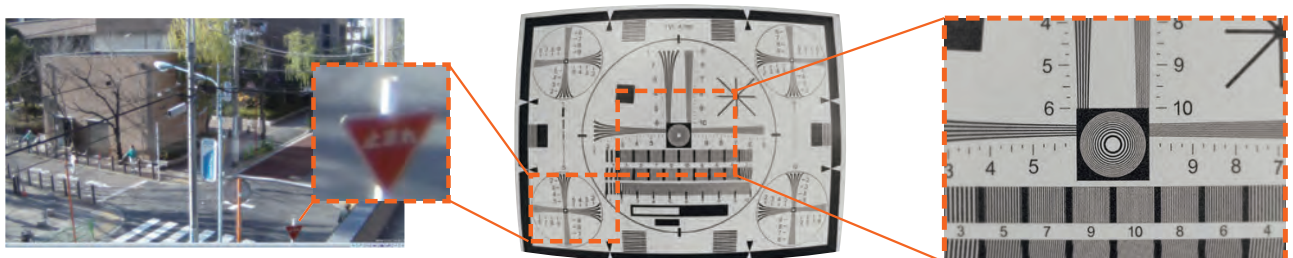
Covering a range of focal lengths, from super wide to telephoto

The AG3Z3112 series allows you to capture 105.4-degree overview in a 16:9 format. Telephoto models in the AG4Z1214 series are suitable for various outdoor and high ceiling applications.

Megapixel lens



Non-Megapixel lens



Note: Images above are for illustration purposes only.



Megapixel Zoom Lens

H62Z1235 series



H60Z1238A - IRF

THRU Vision Lens

THRU Vision Lens

The H60Z1238A-IRF offers a super high zoom ratio of 60x, along with a built-in 2x extender to provide a maximum focal length of 1500mm. Compact and light weight, this lens is particularly useful for long distance surveillance. When combined with an infrared illuminator, the lens' focal position is automatically adjusted, along with the peak wavelength of the infrared illuminator, by moving the lens element. Under foggy or rainy conditions, or strong sunshine, the filter clears any obstacles and provides clearer images than the human eye can produce.

Megapixel zoom lens

In combination with a megapixel camera, this lens is designed to ensure top quality images for high-end surveillance applications. The H62Z1235 series provides a powerful zoom with a focal length of up to 775mm, making it ideal for long distance surveillance scenarios, such as border patrols, airports and harbors.

▶ See page 33, 34

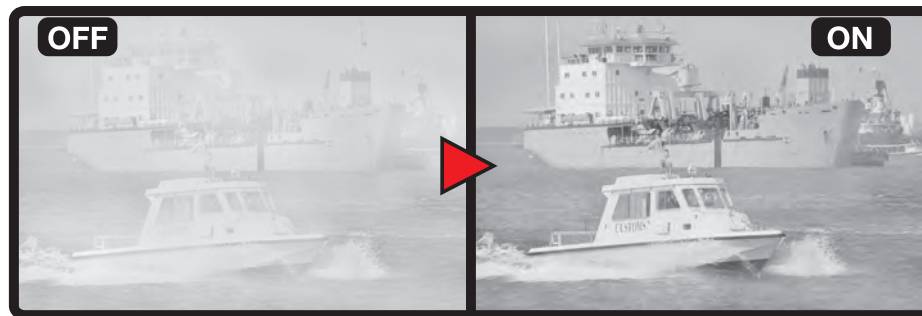


Computar's H60Z1238A-IRF lens was engineered to increase visibility in conditions where fog, haze, smog, sand or rain impede outdoor video surveillance. To achieve more vivid images than the human eye can produce, the H60Z1238A-IRF is equipped with a unique filter that focuses through obstacles present in the atmosphere that can obstruct or deteriorate video image quality. poor quality images caused by environmental factors are automatically corrected. Ideal applications include mission-critical perimeter surveillance, port, harbor and airport security applications.

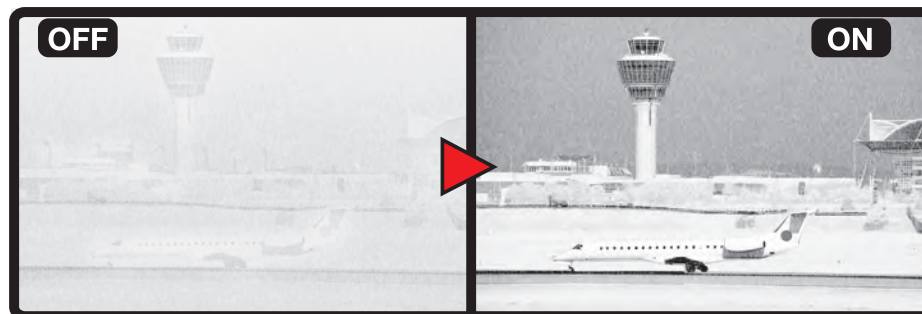
Heavy Rain



Fog



Snow



Note: When using the H60Z1238A-IRF lens in THRU Vision (MIST) mode, even in the daytime during color shooting, the image automatically converts to B/W as a function of the technology. At all other times in daylight operation the image will appear in color.

Note: Images above are for illustration purposes only.



5 megapixel
7x macro zoom
Telecentric design



- **Zoom ratio: 7:1**
- **Sensor: 1.1 inch (diagonal 17.4mm)**
- **F stop: F4.3**
- **Resolution: 100 lp/mm at center and corner**
- **Relative illumination rate: more than 70%**
- **Optical distortion: maximum 1.7%**

▶ See page 44

 MEGAPIXEL

Megapixel zoom ratio: 0.5x - 0.07x

Telecentric design: 0.25x - 0.5x

Adjustable W.D: 182mm - 577.2mm

This high performance lens incorporates two design functions. It operates both as a 7x macro zoom lens with 0.07x to 0.5x magnification and as a telecentric lens within the 0.25X to 0.5x magnification range. It provides excellent brightness throughout the zoom range, maintaining 70% illumination even in the corners of the image. Working distance is adjustable from 182 - 577.2mm, and an F4.3-32C manual iris allows for precise depth of field and contrast adjustments. The lens is suitable for cameras up to 5 megapixel resolution for a 1.1-inch sensor. This combination of features offers the versatility to meet a wide range of industrial applications.

TEC-V7X Field of view (mm)

Working Distance (mm)		Optical Magnification	1.1 inch			1 inch			2/3 inch		
			H	V	D	H	V	D	H	V	D
182	Wide	0.2525	48.74	48.74	69.12	50.32	38.06	63.28	34.88	26.16	43.6
	Middle	0.3643	33.64	33.64	47.33	34.72	26.3	43.6	24.12	18.1	30.11
	Tele	0.5	24.6	24.6	34.75	25.4	19.246	31.88	17.65	13.26	22
200	Wide	0.2258	54.52	54.52	76.94	56.3	42.56	70.84	39	29.24	48.76
	Middle	0.3258	37.62	37.62	52.95	38.83	29.4	48.78	26.96	20.24	33.67
	Tele	0.4451	27.5	27.5	38.68	28.38	21.51	35.64	19.72	14.81	24.62
300	Wide	0.1413	87.48	87.48	124.06	90.34	68.18	114.1	62.46	46.8	78.178
	Middle	0.2037	60.24	60.24	85.34	62.18	47.06	78.18	42.15	32.38	53.898
	Tele	0.2784	44	44	61.94	45.42	34.3	57.46	31.55	23.69	39.38
400	Wide	0.1037	119.47	119.47	169.98	123.4	93.02	156.05	85.2	63.82	106.71
	Middle	0.1495	82.15	82.15	115.97	84.8	64.16	106.72	58.82	44.12	73.48
	Tele	0.2042	59.99	59.99	84.52	61.92	46.89	77.82	43	32.28	53.7
500	Wide	0.082	151.25	151.24	215.44	156.25	117.67	197.8	107.78	80.68	135.04
	Middle	0.1183	103.92	103.92	146.82	107.28	81.12	135	74.37	55.78	92.94
	Tele	0.1617	75.84	75.84	106.89	78.29	59.28	98.4	54.36	40.8	67.88
577.5	Wide	0.0708	175.21	175.21	250.66	181.4	136.35	229.82	125.08	93.62	156.76
	Middle	0.102	120.57	120.57	170.44	124.47	94.1	156.74	86.28	64.72	107.84
	Tele	0.1398	87.99	87.99	124.04	90.8	68.75	114.16	63.06	47.32	78.74



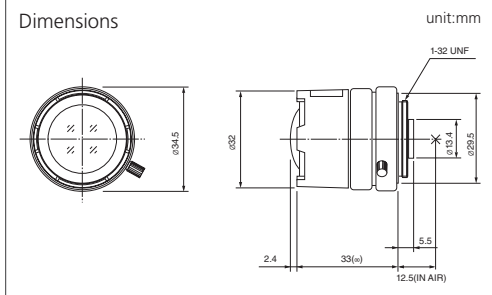
MANUAL IRIS

CS-MOUNT

- FIX
- MANUAL
- WIDE



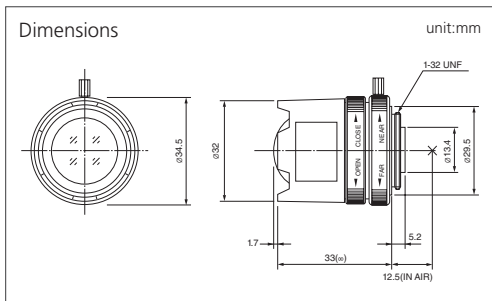
MODEL NO.	T2314FICS-3
Format (")	1/3
Mount	CS
Focal Length (mm)	2.3
Aperture (F)	1.4-16C
Angle of View (HOR)°	113.3
M.O.D. (m)	0.2
Effective Aperture	Front (φmm) 22.8
	Rear (φmm) 7.0
Front Filter Thread (φMxP=)	-
Dimensions <small>(φxD_L(F_{iris}H_D) or (WxHxD)mm)</small>	φ34.5×35.4
Weight (g)	43



- FIX
- MANUAL
- WIDE



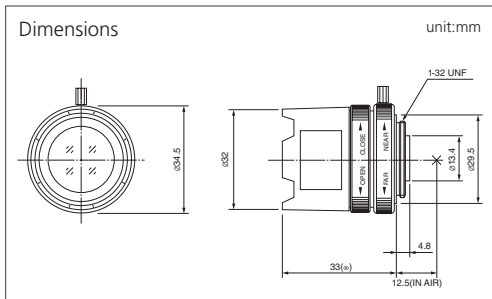
MODEL NO.	T2616FICS-4
Format (")	1/3
Mount	CS
Focal Length (mm)	2.6
Aperture (F)	1.6-11C
Angle of View (HOR)°	99.6
M.O.D. (m)	0.3
Effective Aperture	Front (φmm) 16.4
	Rear (φmm) 8.0
Front Filter Thread (φMxP=)	-
Dimensions <small>(φxD_L(F_{iris}H_D) or (WxHxD)mm)</small>	φ34.5×34.7
Weight (g)	45



- FIX
- MANUAL
- IR



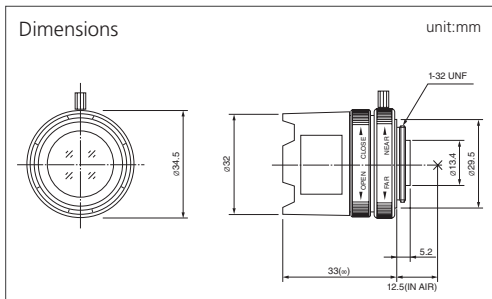
MODEL NO.	T0412FICS-3
Format (")	1/3
Mount	CS
Focal Length (mm)	4
Aperture (F)	1.2-16C
Angle of View (HOR)°	63.9
M.O.D. (m)	0.2
Effective Aperture	Front (φmm) 15.5
	Rear (φmm) 8.5
Front Filter Thread (φMxP=)	-
Dimensions <small>(φxD_L(F_{iris}H_D) or (WxHxD)mm)</small>	φ34.5×33
Weight (g)	36



- FIX
- MANUAL
- IR



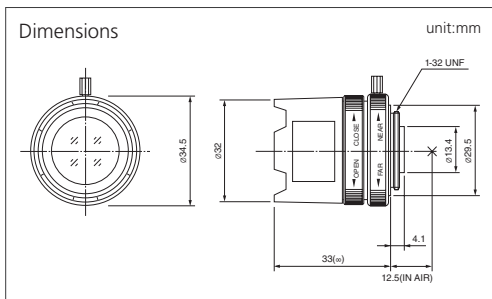
MODEL NO.	T0812FICS-3
Format (")	1/3
Mount	CS
Focal Length (mm)	8
Aperture (F)	1.2-16C
Angle of View (HOR)°	34.7
M.O.D. (m)	0.2
Effective Aperture	Front (φmm) 15.0
	Rear (φmm) 8.8
Front Filter Thread (φMxP=)	-
Dimensions <small>(φxD_L(F_{iris}H_D) or (WxHxD)mm)</small>	φ34.5×33
Weight (g)	37



- FIX
- MANUAL



MODEL NO.	H1214FICS-3
Format (")	1/2
Mount	CS
Focal Length (mm)	12
Aperture (F)	1.4-16C
Angle of View (HOR)°	30.4
M.O.D. (m)	0.3
Effective Aperture	Front (φmm) 13.0
	Rear (φmm) 8.8
Front Filter Thread (φMxP=)	-
Dimensions <small>(φxD_L(F_{iris}H_D) or (WxHxD)mm)</small>	φ34.5×33
Weight (g)	33



MANUAL IRIS

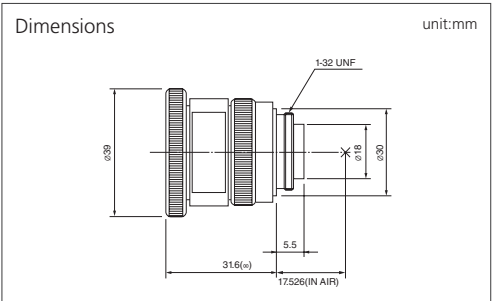
C-MOUNT

MANUAL IRIS

FIX
MANUAL



MODEL NO.	M8513
Format (")	2/3
Mount	C
Focal Length (mm)	8.5
Aperture (F)	1.3-16C
Angle of View (HOR)°	57.4
M.O.D. (m)	0.2
Effective Aperture	Front (φmm) 20.0 Rear (φmm) 12.0
Front Filter Thread (φMxP=)	-
Dimensions	^(φD) / _(φHxD) or (WxHxD)mm
Weight (g)	50



AUTO IRIS

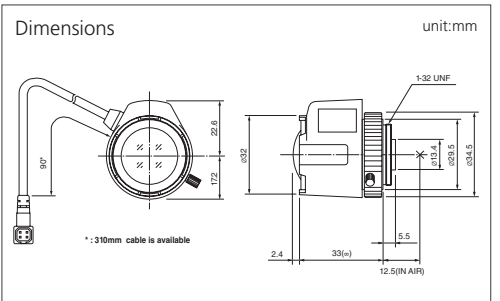
DC DRIVE / VIDEO DRIVE

AUTO IRIS

FIX
DC
WIDE



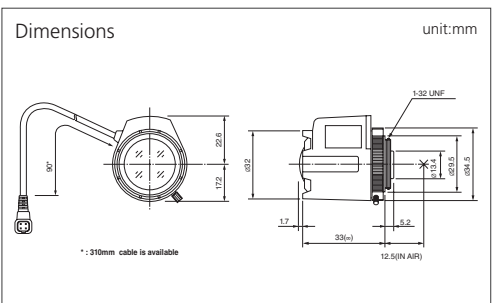
MODEL NO.	TG2314FCS-3
Format (")	1/3
Mount	CS
Focal Length (mm)	2.3
Aperture (F)	1.4-360C
Angle of View (HOR)°	113.3
M.O.D. (m)	0.2
Effective Aperture	Front (φmm) 22.8 Rear (φmm) 7.0
Front Filter Thread (φMxP=)	-
Dimensions	^(φD) / _(φHxD) or (WxHxD)mm
Weight (g)	45



FIX
DC
WIDE



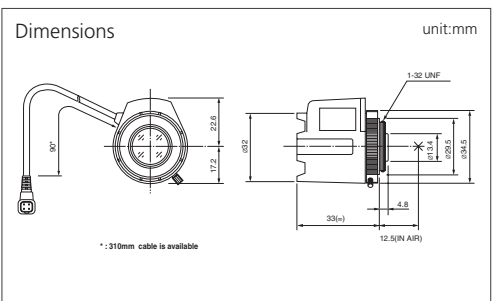
MODEL NO.	TG2616FCS-4
Format (")	1/3
Mount	CS
Focal Length (mm)	2.6
Aperture (F)	1.6-360C
Angle of View (HOR)°	99.6
M.O.D. (m)	0.3
Effective Aperture	Front (φmm) 16.4 Rear (φmm) 8.0
Front Filter Thread (φMxP=)	-
Dimensions	^(φD) / _(φHxD) or (WxHxD)mm
Weight (g)	47



FIX
DC
IR



MODEL NO.	TG0412FCS-3
Format (")	1/3
Mount	CS
Focal Length (mm)	4
Aperture (F)	1.2-360C
Angle of View (HOR)°	63.9
M.O.D. (m)	0.2
Effective Aperture	Front (φmm) 15.5 Rear (φmm) 8.5
Front Filter Thread (φMxP=)	-
Dimensions	^(φD) / _(φHxD) or (WxHxD)mm
Weight (g)	38



**AUTO
IRIS**

AUTO IRIS

DC DRIVE / VIDEO DRIVE

FIX

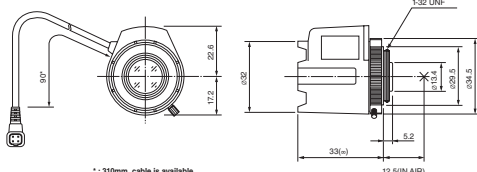
DC

IR



MODEL NO.	TG0812FCS-3
Format (")	1/3
Mount	CS
Focal Length (mm)	8
Aperture (F)	1.2-360C
Angle of View (HOR)°	34.7
M.O.D. (m)	0.2
Effective Aperture	Front (φmm) 15.0 Rear (φmm) 8.8
Front Filter Thread (φMxP=)	-
Dimensions (φxHxD) or (WidthxD)mm	φ32×39.8×33
Weight (g)	39

Dimensions unit:mm



*: 310mm cable is available

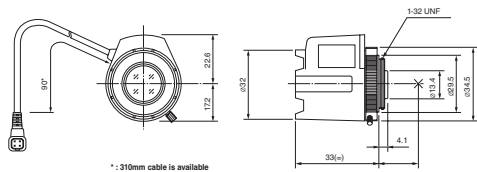
FIX

DC



MODEL NO.	HG1214FCS-3
Format (")	1/2
Mount	CS
Focal Length (mm)	12
Aperture (F)	1.4-360C
Angle of View (HOR)°	30.4
M.O.D. (m)	0.3
Effective Aperture	Front (φmm) 13.0 Rear (φmm) 8.8
Front Filter Thread (φMxP=)	-
Dimensions (φxHxD) or (WidthxD)mm	φ32×39.8×33
Weight (g)	35

Dimensions unit:mm



*: 310mm cable is available

FIX

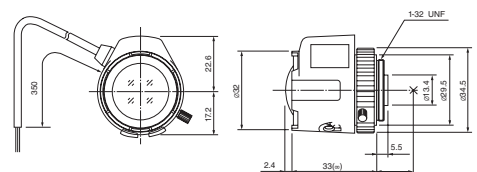
VIDEO

WIDE



MODEL NO.	TG2314AFCS-3
Format (")	1/3
Mount	CS
Focal Length (mm)	2.3
Aperture (F)	1.4-360C
Angle of View (HOR)°	113.3
M.O.D. (m)	0.2
Effective Aperture	Front (φmm) 22.8 Rear (φmm) 7.0
Front Filter Thread (φMxP=)	-
Dimensions (φxHxD) or (WidthxD)mm	φ32×39.8×35.4
Weight (g)	48

Dimensions unit:mm



FIX

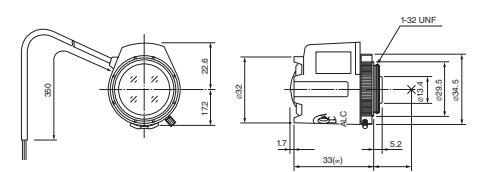
VIDEO

WIDE



MODEL NO.	TG2616AFCS-4
Format (")	1/3
Mount	CS
Focal Length (mm)	2.6
Aperture (F)	1.6-360C
Angle of View (HOR)°	99.6
M.O.D. (m)	0.3
Effective Aperture	Front (φmm) 16.4 Rear (φmm) 8.0
Front Filter Thread (φMxP=)	-
Dimensions (φxHxD) or (WidthxD)mm	φ32×39.8×34.7
Weight (g)	50

Dimensions unit:mm



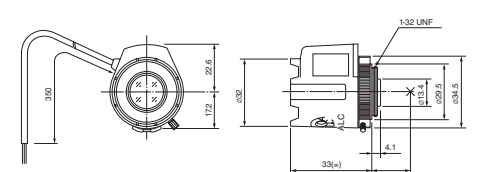
FIX

VIDEO

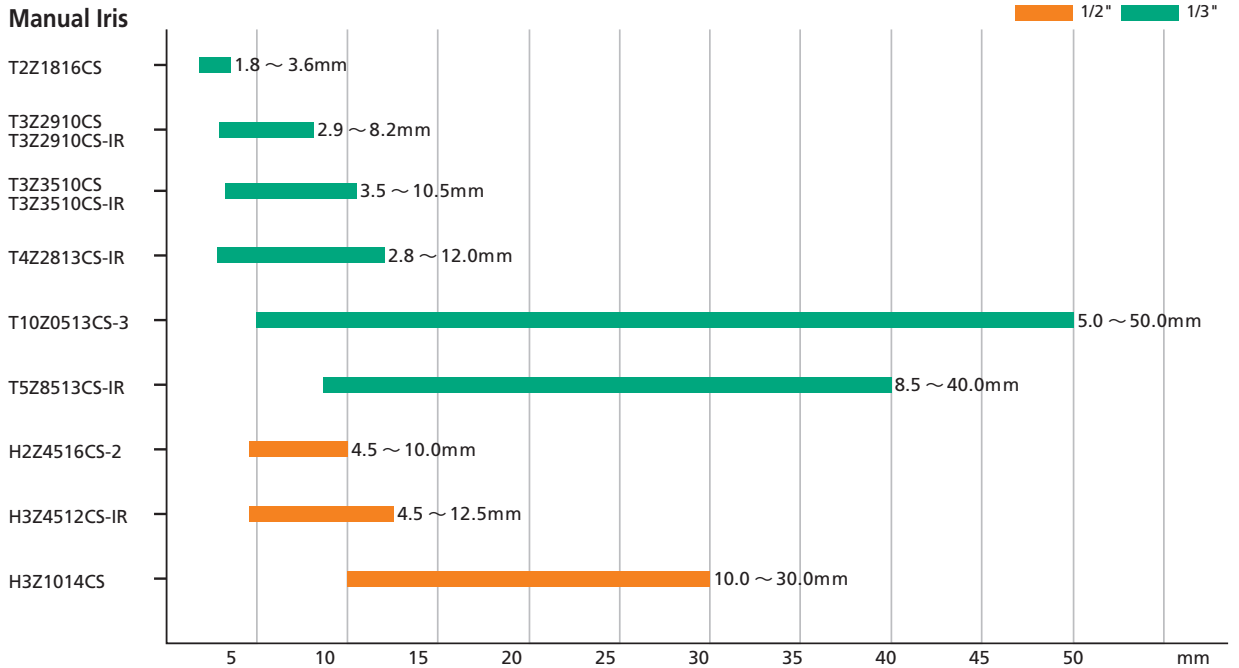


MODEL NO.	HG1214AFCS-3
Format (")	1/2
Mount	CS
Focal Length (mm)	12
Aperture (F)	1.4-360C
Angle of View (HOR)°	30.4
M.O.D. (m)	0.3
Effective Aperture	Front (φmm) 13.0 Rear (φmm) 8.8
Front Filter Thread (φMxP=)	-
Dimensions (φxHxD) or (WidthxD)mm	φ32×39.8×33
Weight (g)	39

Dimensions unit:mm



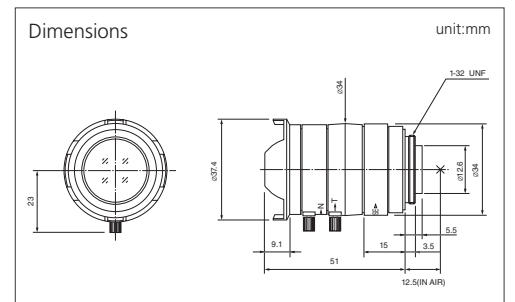
Varifocal Lens Comparison



VARI
MANUAL
WIDE



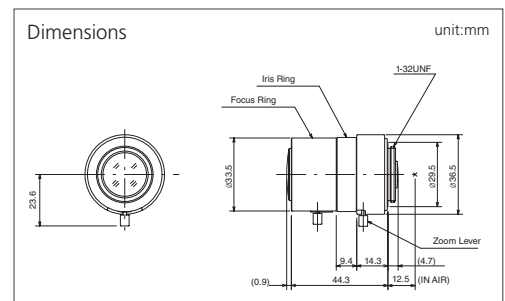
MODEL NO.	T2Z1816CS
Format (")	1/3
Mount	CS
Focal Length (mm)	1.8-3.6
Aperture (F)	1.6-16C
Angle of View (HOR)°	144.2-79.4
M.O.D. (m)	0.2
Effective Aperture	Front (φmm) 22.0 Rear (φmm) 7.9
Front Filter Thread (φMxP=)	-
Dimensions (φxD), (φxHxD) or (Width)mm	φ37.4x51
Weight (g)	68



VARI
MANUAL
F1.0
ASP



MODEL NO.	T3Z2910CS
Format (")	1/3
Mount	CS
Focal Length (mm)	2.9-8.2
Aperture (F)	1.0-16C
Angle of View (HOR)°	98.3-35.2
M.O.D. (m)	0.5
Effective Aperture	Front (φmm) 18.8 Rear (φmm) 9.0
Front Filter Thread (φMxP=)	-
Dimensions (φxD), (φxHxD) or (Width)mm	φ36.5x44.3
Weight (g)	41



VARI

MANUAL

F1.0

ASP

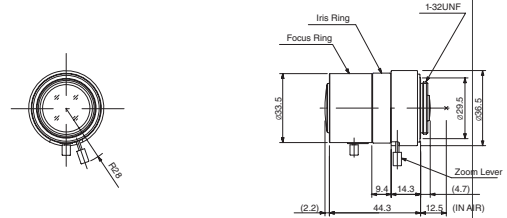
IR



MODEL NO.	T3Z2910CS-IR
Format (")	1/3
Mount	CS
Focal Length (mm)	2.9-8.2
Aperture (F)	1.0-16C
Angle of View (HOR)°	95.0-35.6
M.O.D. (m)	0.5
Effective Aperture Front (φmm)	19.0
Rear (φmm)	8.5
Front Filter Thread (φMxP=)	-
Dimensions ^{(φxD), (φxHxD) or (WxHxD)mm}	φ36.5×44.3
Weight (g)	44

Dimensions

unit:mm



VARI

MANUAL

F1.0

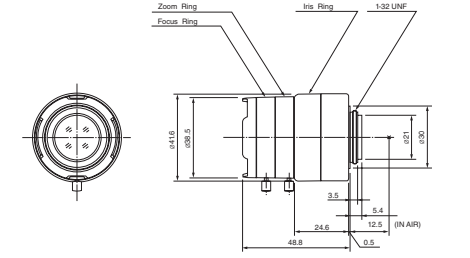
ASP



MODEL NO.	T3Z3510CS
Format (")	1/3
Mount	CS
Focal Length (mm)	3.5-10.5
Aperture (F)	1.0-16C
Angle of View (HOR)°	81.6-27.2
M.O.D. (m)	0.3
Effective Aperture Front (φmm)	18.5
Rear (φmm)	10.1
Front Filter Thread (φMxP=)	-
Dimensions ^{(φxD), (φxHxD) or (WxHxD)mm}	φ41.6×48.8
Weight (g)	63

Dimensions

unit:mm



VARI

MANUAL

F1.0

ASP

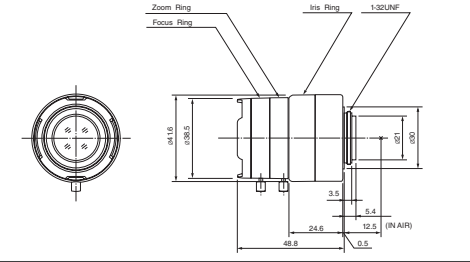
IR



MODEL NO.	T3Z3510CS-IR
Format (")	1/3
Mount	CS
Focal Length (mm)	3.5-10.5
Aperture (F)	1.0-16C
Angle of View (HOR)°	81.8-27.2
M.O.D. (m)	0.3
Effective Aperture Front (φmm)	18.6
Rear (φmm)	10.2
Front Filter Thread (φMxP=)	-
Dimensions ^{(φxD), (φxHxD) or (WxHxD)mm}	φ41.6×48.8
Weight (g)	63

Dimensions

unit:mm



VARI

MANUAL

ASP

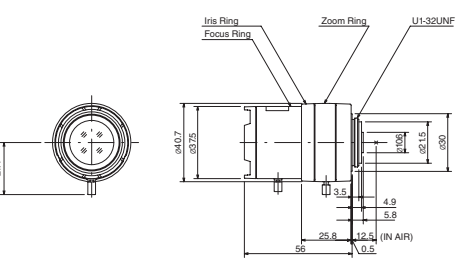
IR



MODEL NO.	T4Z2813CS-IR
Format (")	1/3
Mount	CS
Focal Length (mm)	2.8-12
Aperture (F)	1.3-16C
Angle of View (HOR)°	102.2-23.7
M.O.D. (m)	0.3
Effective Aperture Front (φmm)	23.0
Rear (φmm)	7.4
Front Filter Thread (φMxP=)	-
Dimensions ^{(φxD), (φxHxD) or (WxHxD)mm}	φ40.7×56.0
Weight (g)	63

Dimensions

unit:mm



VARI

MANUAL

TELE

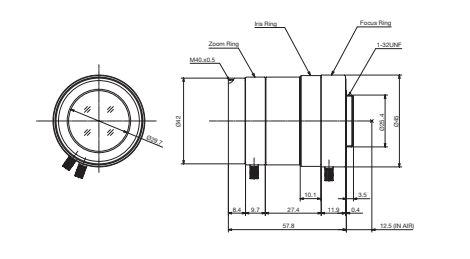
ASP



MODEL NO.	T10Z0513CS-3
Format (")	1/3
Mount	CS
Focal Length (mm)	5-50
Aperture (F)	1.3-16C
Angle of View (HOR)°	51.8-5.6
M.O.D. (m)	0.8
Effective Aperture Front (φmm)	29.5
Rear (φmm)	8.7
Front Filter Thread (φMxP=)	40.5×0.5
Dimensions ^{(φxD), (φxHxD) or (WxHxD)mm}	φ45×57.8
Weight (g)	90

Dimensions

unit:mm



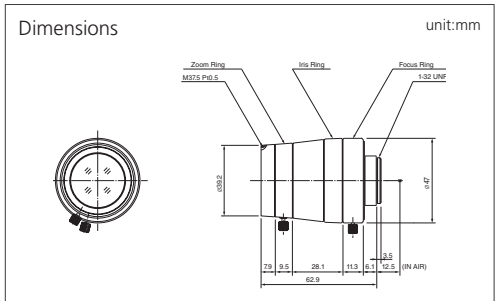
VARIFOCAL MANUAL IRIS



- VARI
- MANUAL
- TELE
- ASP
- IR



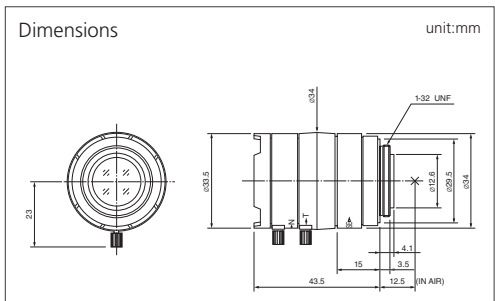
MODEL NO.	T5Z8513CS-IR
Format (")	1/3
Mount	CS
Focal Length (mm)	8.5-40
Aperture (F)	1.3-16C
Angle of View (HOR)°	33.5-7.1
M.O.D. (m)	0.8
Effective Aperture	Front (φmm) 27.0 Rear (φmm) 9.3
Front Filter Thread (φ/MxP=)	37.5×0.5
Dimensions (φxL) (PstHD) or (WstHD)mm	φ47.0×62.9
Weight (g)	126



- VARI
- MANUAL
- IR



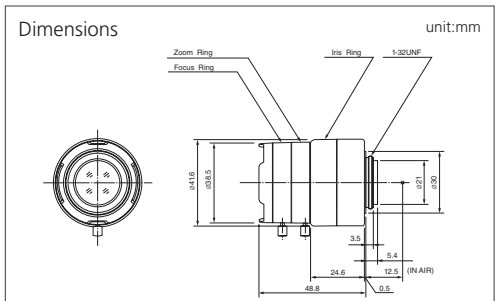
MODEL NO.	H2Z4516CS-2
Format (")	1/2
Mount	CS
Focal Length (mm)	4.5-10
Aperture (F)	1.6-16C
Angle of View (HOR)°	81.3-38.2
M.O.D. (m)	0.3
Effective Aperture	Front (φmm) 18.6 Rear (φmm) 9.0
Front Filter Thread (φ/MxP=)	-
Dimensions (φxL) (PstHD) or (WstHD)mm	φ34×43.5
Weight (g)	40



- VARI
- MANUAL
- ASP
- IR



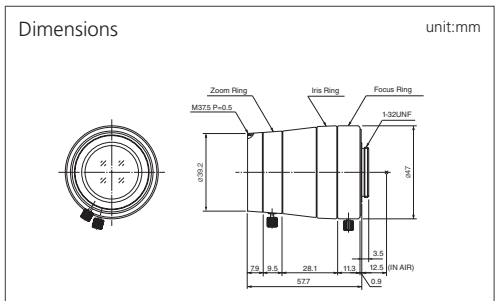
MODEL NO.	H3Z4512CS-IR
Format (")	1/2
Mount	CS
Focal Length (mm)	4.5-12.5
Aperture (F)	1.2-16C
Angle of View (HOR)°	83.7-30.1
M.O.D. (m)	0.3
Effective Aperture	Front (φmm) 19.9 Rear (φmm) 9.9
Front Filter Thread (φ/MxP=)	-
Dimensions (φxL) (PstHD) or (WstHD)mm	φ41.6×48.8
Weight (g)	66



- VARI
- MANUAL
- TELE
- ASP
- IR



MODEL NO.	H3Z1014CS
Format (")	1/2
Mount	CS
Focal Length (mm)	10-30
Aperture (F)	1.4-16C
Angle of View (HOR)°	35.8-12.5
M.O.D. (m)	0.6
Effective Aperture	Front (φmm) 26.6 Rear (φmm) 9.0
Front Filter Thread (φ/MxP=)	37.5×0.5
Dimensions (φxL) (PstHD) or (WstHD)mm	φ47×57.7
Weight (g)	125



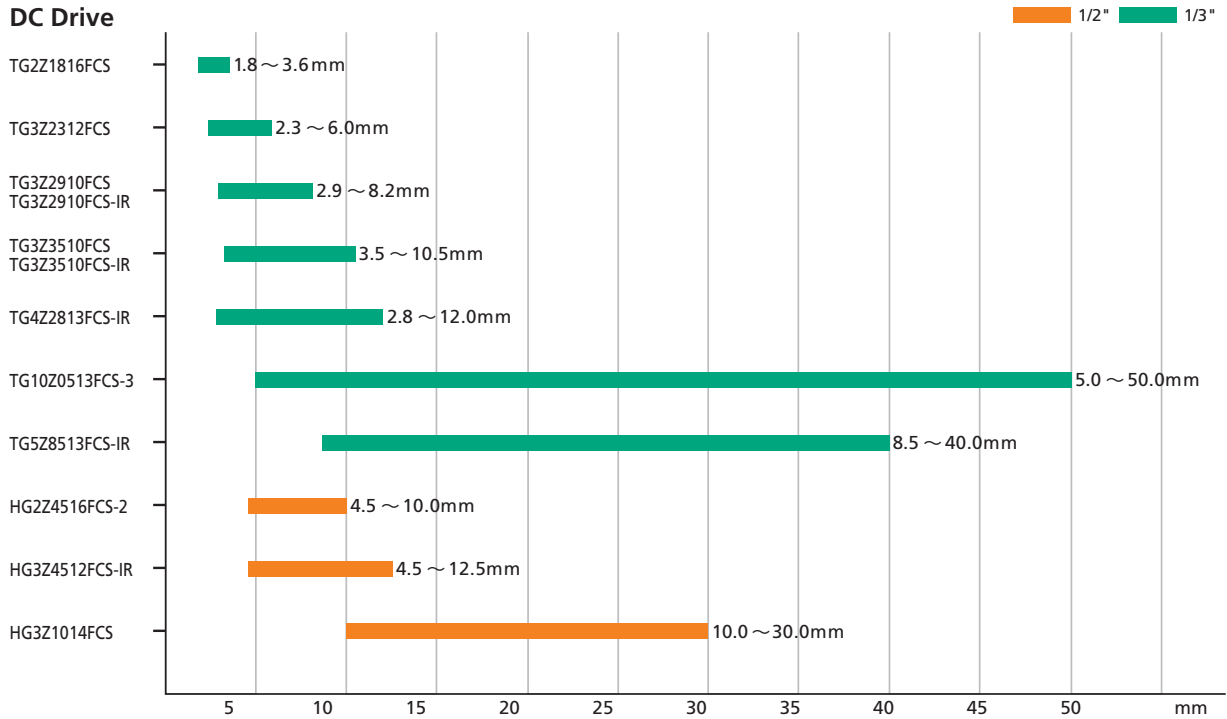


VARIFOCAL

DC DRIVE

Varifocal Lens Comparison

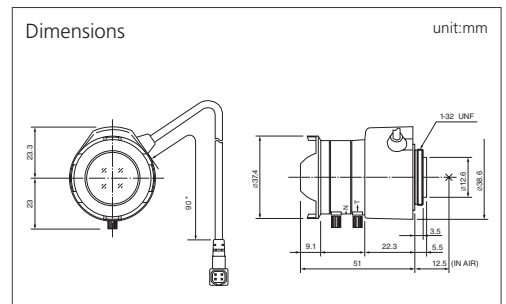
DC Drive



- VARI
- DC
- WIDE



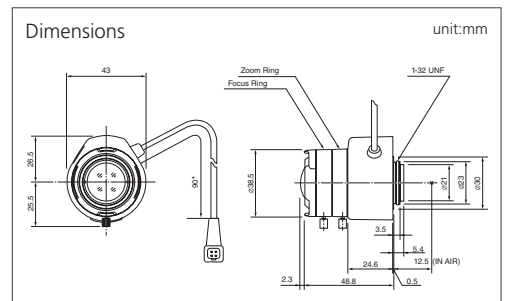
MODEL NO.	TG2Z1816FCS
Format (")	1/3
Mount	CS
Focal Length (mm)	1.8-3.6
Aperture (F)	1.6-360C
Angle of View (HOR)°	144.2-79.4
M.O.D. (m)	0.2
Effective Aperture	Front (φmm) 22.0
	Rear (φmm) 7.9
Front Filter Thread (φMxP=)	-
Dimensions	^(FWD) (FWD) or (WxHxD)mm φ37.4×42.6×51
Weight (g)	78



- VARI
- DC
- WIDE
- ASP



MODEL NO.	TG3Z2312FCS
Format (")	1/3
Mount	CS
Focal Length (mm)	2.3-6
Aperture (F)	1.2-360
Angle of View (HOR)°	114.8-48.2
M.O.D. (m)	0.3
Effective Aperture	Front (φmm) 19.5
	Rear (φmm) 9.0
Front Filter Thread (φMxP=)	-
Dimensions	^(FWD) (FWD) or (WxHxD)mm φ38.5×48×51.1
Weight (g)	76



VARIFOCAL

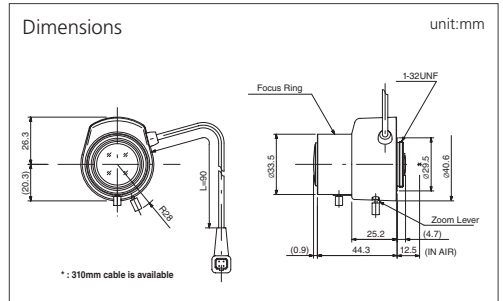
DC DRIVE

**VARIFOCAL
AUTO IRIS**

VARI
DC
F1.0
ASP



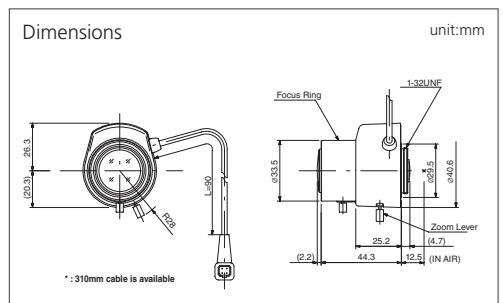
MODEL NO.	TG3Z2910FCS
Format (")	1/3
Mount	CS
Focal Length (mm)	2.9-8.2
Aperture (F)	1.0-360C
Angle of View (HOR)°	98.3-35.2
M.O.D. (m)	0.5
Effective Aperture	Front (φmm) 18.8 Rear (φmm) 9.0
Front Filter Thread (φMxP=)	-
Dimensions	φ33.5×46.6×44.3
Weight (g)	47



VARI
DC
F1.0
ASP
IR



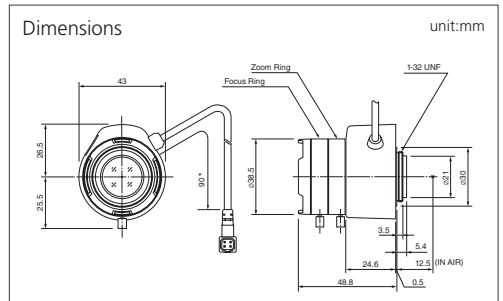
MODEL NO.	TG3Z2910FCS-IR
Format (")	1/3
Mount	CS
Focal Length (mm)	2.9-8.2
Aperture (F)	1.0-360C
Angle of View (HOR)°	95.0-35.6
M.O.D. (m)	0.5
Effective Aperture	Front (φmm) 19.0 Rear (φmm) 8.5
Front Filter Thread (φMxP=)	-
Dimensions	φ33.5×46.6×44.3
Weight (g)	50



VARI
DC
F1.0
ASP



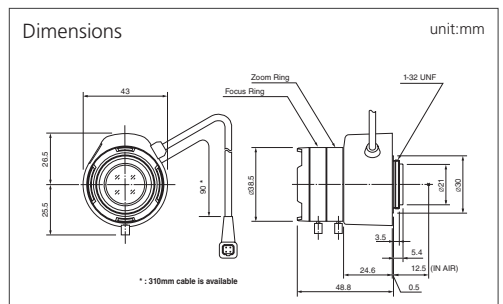
MODEL NO.	TG3Z3510FCS
Format (")	1/3
Mount	CS
Focal Length (mm)	3.5-10.5
Aperture (F)	1.0-360
Angle of View (HOR)°	81.6-27.2
M.O.D. (m)	0.3
Effective Aperture	Front (φmm) 18.5 Rear (φmm) 10.1
Front Filter Thread (φMxP=)	-
Dimensions	φ38.5×48×48.8
Weight (g)	65



VARI
DC
F1.0
ASP
IR



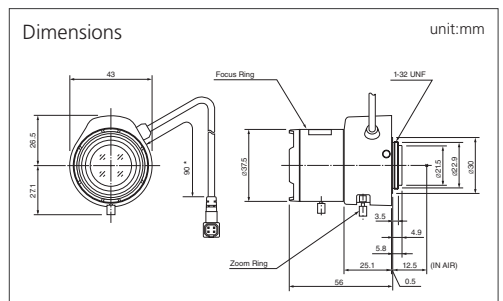
MODEL NO.	TG3Z3510FCS-IR
Format (")	1/3
Mount	CS
Focal Length (mm)	3.5-10.5
Aperture (F)	1.0-360
Angle of View (HOR)°	81.6-27.2
M.O.D. (m)	0.3
Effective Aperture	Front (φmm) 18.6 Rear (φmm) 10.2
Front Filter Thread (φMxP=)	-
Dimensions	φ38.5×48×48.8
Weight (g)	65



VARI
DC
ASP
IR



MODEL NO.	TG4Z2813FCS-IR
Format (")	1/3
Mount	CS
Focal Length (mm)	2.8-12
Aperture (F)	1.3-360
Angle of View (HOR)°	102.2-23.7
M.O.D. (m)	0.3
Effective Aperture	Front (φmm) 23.0 Rear (φmm) 7.4
Front Filter Thread (φMxP=)	-
Dimensions	φ37.5×48×56
Weight (g)	71



**VARIFOCAL
AUTO IRIS**

VARIFOCAL

DC DRIVE

VARI

DC

TELE

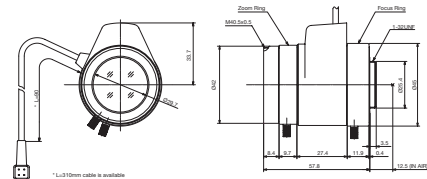
ASP



MODEL NO.	TG10Z0513FCS-3
Format (")	1/3
Mount	CS
Focal Length (mm)	5-50
Aperture (F)	1.3-360C
Angle of View (HOR)°	51.8-5.6
M.O.D. (m)	0.8
Effective Aperture Front (φmm)	29.5
Rear (φmm)	8.7
Front Filter Thread (φMxP=)	40.5×0.5
Dimensions (φxHxD) or (WxHxD)mm	φ45×56.2×57.8
Weight (g)	100

Dimensions

unit:mm



VARI

DC

TELE

ASP

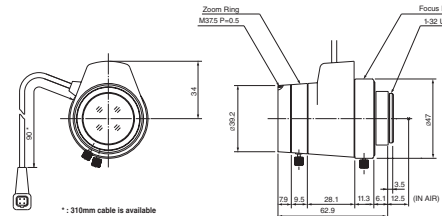
IR



MODEL NO.	TG5Z8513FCS-IR
Format (")	1/3
Mount	CS
Focal Length (mm)	8.5-40
Aperture (F)	1.3-360C
Angle of View (HOR)°	33.5-7.1
M.O.D. (m)	0.8
Effective Aperture Front (φmm)	27.0
Rear (φmm)	9.3
Front Filter Thread (φMxP=)	37.5×0.5
Dimensions (φxHxD) or (WxHxD)mm	φ41.7×57.5×62.9
Weight (g)	114

Dimensions

unit:mm



VARI

DC

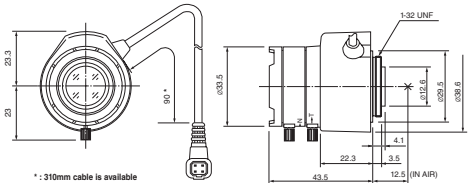
IR



MODEL NO.	HG2Z4516FCS-2
Format (")	1/2
Mount	CS
Focal Length (mm)	4.5-10
Aperture (F)	1.6-360C
Angle of View (HOR)°	81.3-38.2
M.O.D. (m)	0.3
Effective Aperture Front (φmm)	18.6
Rear (φmm)	9.0
Front Filter Thread (φMxP=)	-
Dimensions (φxHxD) or (WxHxD)mm	φ33.5×42.6×43.5
Weight (g)	54

Dimensions

unit:mm



VARI

DC

ASP

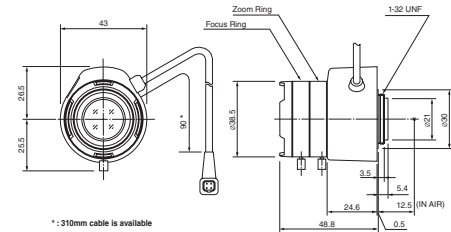
IR



MODEL NO.	HG3Z4512FCS-IR
Format (")	1/2
Mount	CS
Focal Length (mm)	4.5-12.5
Aperture (F)	1.2-360
Angle of View (HOR)°	83.7-30.1
M.O.D. (m)	0.3
Effective Aperture Front (φmm)	19.9
Rear (φmm)	9.9
Front Filter Thread (φMxP=)	-
Dimensions (φxHxD) or (WxHxD)mm	φ38.5×47.5×48.8
Weight (g)	68

Dimensions

unit:mm



VARI

DC

TELE

ASP

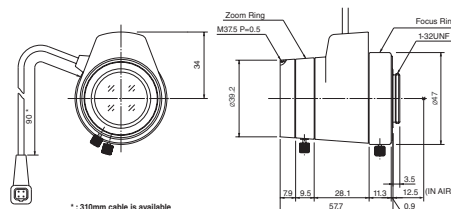
IR



MODEL NO.	HG3Z1014FCS
Format (")	
Mount	
Focal Length (mm)	
Aperture (F)	
Angle of View (HOR)°	
M.O.D. (m)	
Effective Aperture Front (φmm)	
Rear (φmm)	
Front Filter Thread (φMxP=)	
Dimensions (φxHxD) or (WxHxD)mm	φ
Weight	

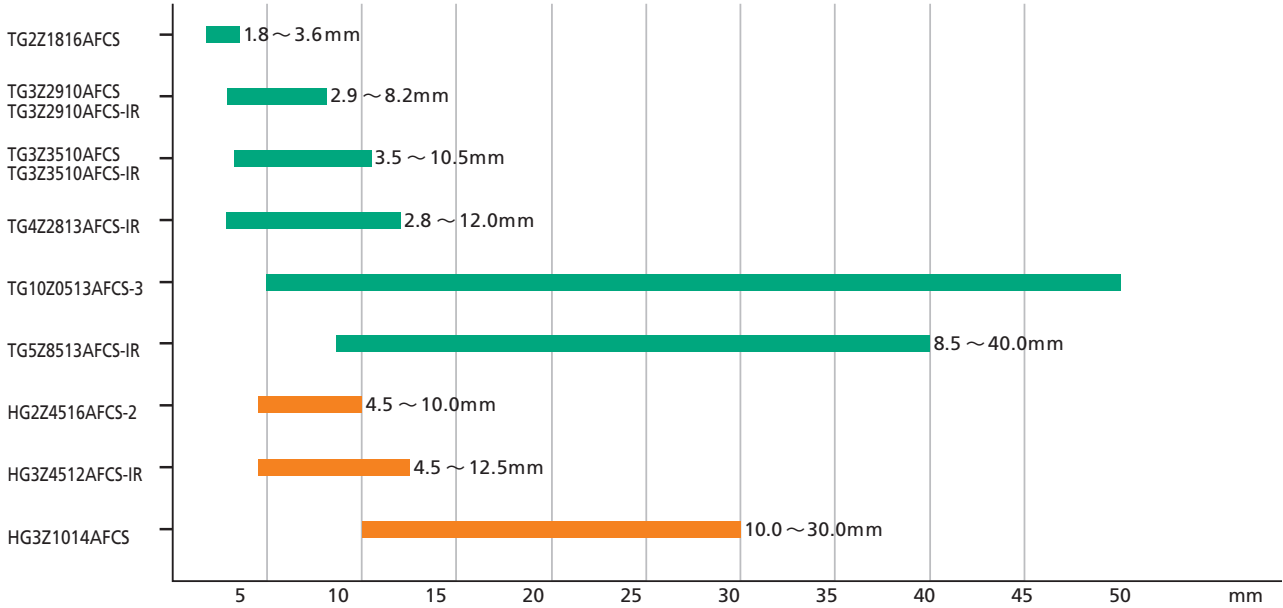
Dimensions

unit:mm



VariFocal Lens Comparison

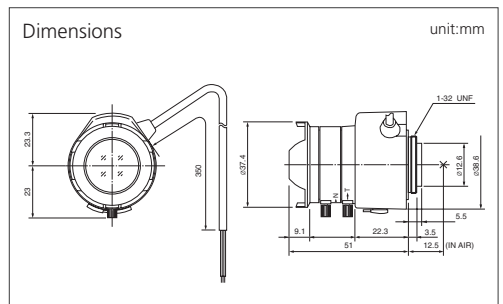
Video Drive



VARI
VIDEO
WIDE



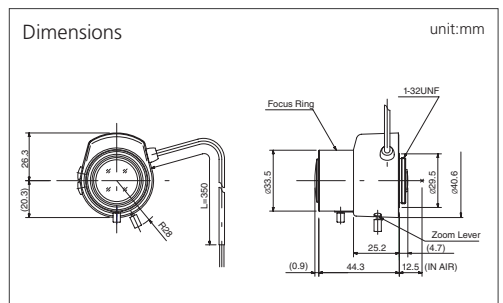
MODEL NO.	TG2Z1816AFCS
Format (")	1/3
Mount	CS
Focal Length (mm)	1.8-3.6
Aperture (F)	1.6-360C
Angle of View (HOR)°	144.2-79.4
M.O.D. (m)	0.2
Effective Aperture	Front (φmm) 22.0 Rear (φmm) 7.9
Front Filter Thread (φMxP=)	-
Dimensions (φxL)(P+HxD) or (WxHxD)mm	φ37.4x42.6x51
Weight (g)	83



VARI
VIDEO
F1.0
ASP



MODEL NO.	TG3Z2910AFCS
Format (")	1/3
Mount	CS
Focal Length (mm)	2.9-8.2
Aperture (F)	1.0-360C
Angle of View (HOR)°	98.3-35.2
M.O.D. (m)	0.5
Effective Aperture	Front (φmm) 18.8 Rear (φmm) 9.0
Front Filter Thread (φMxP=)	-
Dimensions (φxL)(P+HxD) or (WxHxD)mm	φ33.5x46.6x44.3
Weight (g)	51



**VARIFOCAL
AUTO IRIS**

VARIFOCAL

VIDEO DRIVE

VARI

VIDEO

F1.0

ASP

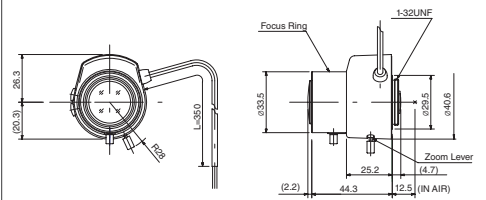
IR



MODEL NO.	TG3Z2910AFCS-IR
Format (")	1/3
Mount	CS
Focal Length (mm)	2.9-8.2
Aperture (F)	1.0-360C
Angle of View (HOR)°	95.0-35.6
M.O.D. (m)	0.5
Effective Aperture	Front (φmm) 19.0
	Rear (φmm) 8.5
Front Filter Thread (φMxP=)	-
Dimensions	φ33.5×46.6×44.3
Weight	54

Dimensions

unit:mm



VARI

VIDEO

F1.0

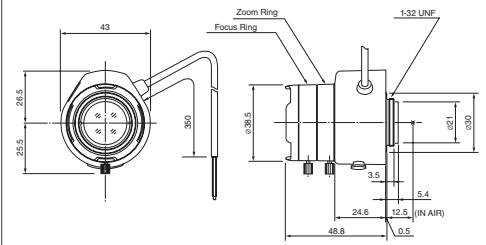
ASP



MODEL NO.	TG3Z3510AFCS
Format (")	1/3
Mount	CS
Focal Length (mm)	3.5-10.5
Aperture (F)	1.0-360
Angle of View (HOR)°	81.6-27.2
M.O.D. (m)	0.3
Effective Aperture	Front (φmm) 18.5
	Rear (φmm) 10.1
Front Filter Thread (φMxP=)	-
Dimensions	φ38.5×48×48.8
Weight (g)	70

Dimensions

unit:mm



VARI

VIDEO

F1.0

ASP

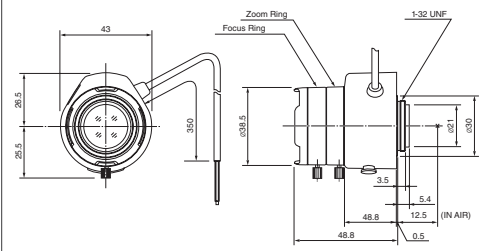
IR



MODEL NO.	TG3Z3510AFCS-IR
Format (")	1/3
Mount	CS
Focal Length (mm)	3.5-10.5
Aperture (F)	1.0-360
Angle of View (HOR)°	81.8-27.2
M.O.D. (m)	0.3
Effective Aperture	Front (φmm) 18.6
	Rear (φmm) 10.2
Front Filter Thread (φMxP=)	-
Dimensions	φ38.5×48×48.8
Weight (g)	70

Dimensions

unit:mm



VARI

VIDEO

ASP

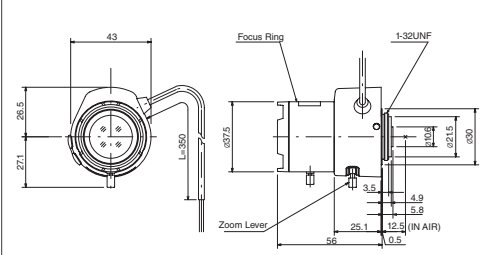
IR



MODEL NO.	TG4Z2813AFCS-IR
Format (")	1/3
Mount	CS
Focal Length (mm)	2.8-12
Aperture (F)	1.3-360
Angle of View (HOR)°	102.2-23.7
M.O.D. (m)	0.3
Effective Aperture	Front (φmm) 23.0
	Rear (φmm) 7.4
Front Filter Thread (φMxP=)	-
Dimensions	φ37.5×48×56
Weight (g)	74

Dimensions

unit:mm



VARI

VIDEO

TELE

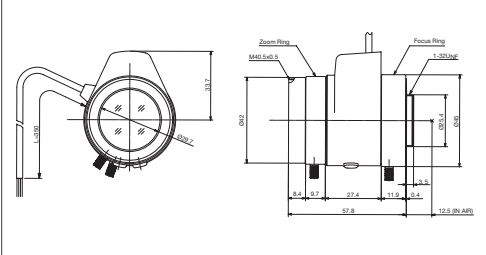
ASP



MODEL NO.	TG10Z0513AFCS-3
Format (")	1/3
Mount	CS
Focal Length (mm)	5-50
Aperture (F)	1.3-360C
Angle of View (HOR)°	51.8-5.6
M.O.D. (m)	0.8
Effective Aperture	Front (φmm) 29.5
	Rear (φmm) 8.7
Front Filter Thread (φMxP=)	40.5×0.5
Dimensions	φ45×56.2×57.8
Weight (g)	103

Dimensions

unit:mm

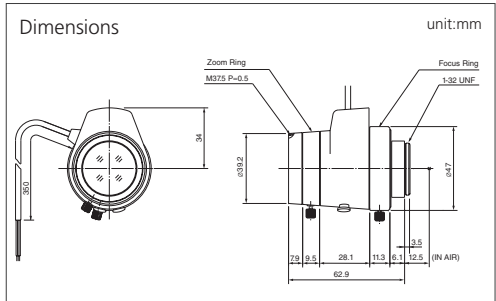


VARIFOCAL

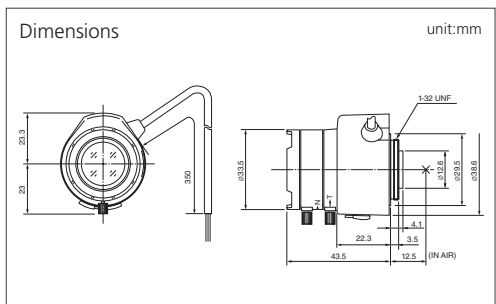
VIDEO DRIVE



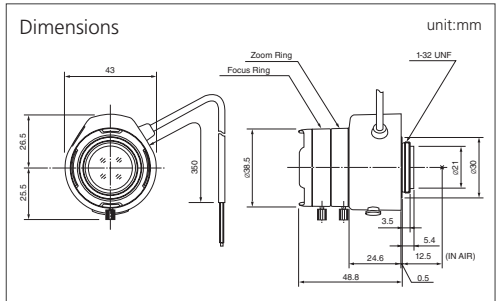
MODEL NO.	TG5Z8513AFCS-IR
Format (")	1/3
Mount	CS
Focal Length (mm)	8.5-40
Aperture (F)	1.3-360C
Angle of View (HOR)°	33.5-7.1
M.O.D. (m)	0.8
Effective Aperture	Front (φmm) 27.0 Rear (φmm) 9.3
Front Filter Thread (φMxP=)	37.5×0.5
Dimensions (φxL)(FφxHφ) or (WxHxD)mm	φ41.7×57.5×62.9
Weight (g)	115



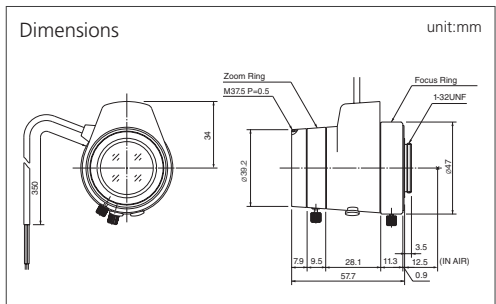
MODEL NO.	HG2Z4516AFCS-2
Format (")	1/2
Mount	CS
Focal Length (mm)	4.5-10
Aperture (F)	1.6-360C
Angle of View (HOR)°	81.3-38.2
M.O.D. (m)	0.3
Effective Aperture	Front (φmm) 18.6 Rear (φmm) 9.0
Front Filter Thread (φMxP=)	-
Dimensions (φxL)(FφxHφ) or (WxHxD)mm	φ33.5×42.6×43.5
Weight (g)	56



MODEL NO.	HG3Z4512AFCS-IR
Format (")	1/2
Mount	CS
Focal Length (mm)	4.5-12.5
Aperture (F)	1.2-360
Angle of View (HOR)°	83.7-30.1
M.O.D. (m)	0.3
Effective Aperture	Front (φmm) 19.9 Rear (φmm) 9.9
Front Filter Thread (φMxP=)	-
Dimensions (φxL)(FφxHφ) or (WxHxD)mm	φ38.5×47.5×48.8
Weight (g)	73



MODEL NO.	HG3Z1014AFCS
Format (")	1/2
Mount	CS
Focal Length (mm)	10-30
Aperture (F)	1.4-360C
Angle of View (HOR)°	35.8-12.5
M.O.D. (m)	0.6
Effective Aperture	Front (φmm) 26.6 Rear (φmm) 9.0
Front Filter Thread (φMxP=)	37.5×0.5
Dimensions (φxL)(FφxHφ) or (WxHxD)mm	φ41.7×57.5×57.7
Weight (g)	125



ZOOM
LENSES

1/3" MOTORIZED ZOOM

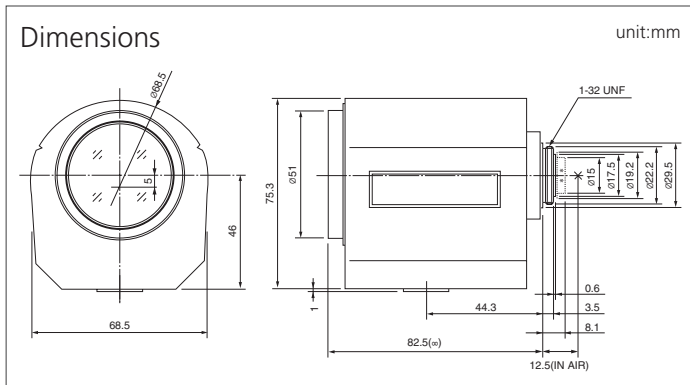
T6Z5710 Series

f 5.7-34.2mm, F1.0

x6



Format (")	1/3
Mount	CS
Focal Length (mm)	5.7-34.2
Angle of View (HOR)°	45.9-8.1
M.O.D. (m)	1.2
Effective Aperture	Front (φmm) 41.0
	Rear (φmm) 10.2
Front Filter Thread (φMxP=)	49.0×0.75
Dimensions (WxHxD)mm	68.5×76.3×82.5



NO.	MODEL NO.				Aperture (F)	Weight (g)
1	T6Z5710M-CS	ZOOM	3 MOTOR	F1.0	1.0-16C	430
2	T6Z5710MP-CS	ZOOM	3 MOTOR	F1.0	PRESET	470
3	T6Z5710MS-CS	ZOOM	3 MOTOR	F1.0	SPOT FILTER	430
4	T6Z5710MSP-CS	ZOOM	3 MOTOR	F1.0	PRESET SPOT FILTER	470
5	T6Z5710AMS-CS	ZOOM	VIDEO	F1.0	SPOT FILTER	450
6	T6Z5710AMSP-CS	ZOOM	VIDEO	F1.0	PRESET SPOT FILTER	490
7	T6Z5710DC-CS	ZOOM	DC	F1.0	SPOT FILTER	440
8	T6Z5710PDC-CS	ZOOM	DC	F1.0	PRESET SPOT FILTER	480

1/3" MOTORIZED ZOOM

ZOOM
LENSES

T10Z5712 Series f 5.7-57mm, F1.2

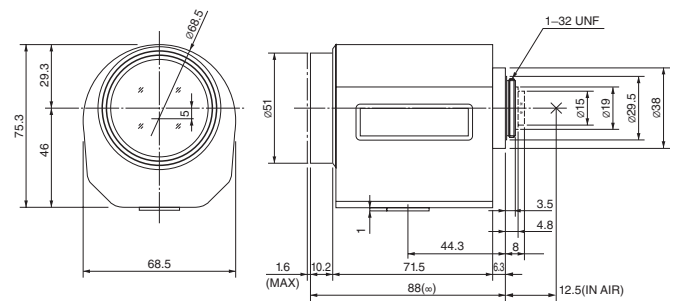
x 10



Format (")	1/3
Mount	CS
Focal Length (mm)	5.7-57
Angle of View (HOR)°	44.6-4.8
M.O.D. (m)	1.8
Effective Aperture	Front (φmm) 45.0
	Rear (φmm) 8.6
Front Filter Thread (φMxP=)	49.0×0.75
Dimensions (WxHxD) mm	68.5×76.3×88

Dimensions

unit:mm



NO.	MODEL NO.			Aperture (F)	Weight (g)	
1	T10Z5712M-CS	ZOOM	3 MOTOR	1.2-22C	450	
2	T10Z5712MP-CS	ZOOM	3 MOTOR	PRESET	490	
3	T10Z5712MS-CS	ZOOM	3 MOTOR	SPOT FILTER	450	
4	T10Z5712MSP-CS	ZOOM	3 MOTOR	PRESET	SPOT FILTER	490
5	T10Z5712AMS-CS	ZOOM	VIDEO	SPOT FILTER	470	
6	T10Z5712AMSP-CS	ZOOM	VIDEO	PRESET	SPOT FILTER	510
7	T10Z5712DC-CS	ZOOM	DC	SPOT FILTER	460	
8	T10Z5712PDC-CS	ZOOM	DC	PRESET	SPOT FILTER	500

ZOOM
LENSES

1/3" MOTORIZED ZOOM

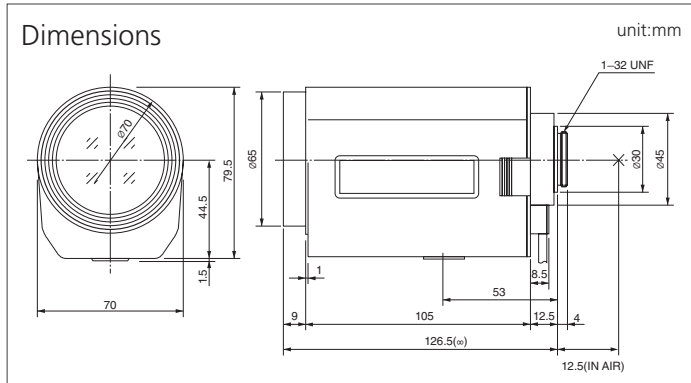
T21Z5816 Series

f 5.8-121.8mm, F1.6

x 21



Format (")	1/3
Mount	CS
Focal Length (mm)	5.8-121.8
Angle of View (HOR)°	44.8-2.3
M.O.D. (m)	1.5
Effective Aperture	Front (φmm) 53.2
	Rear (φmm) 10.6
Front Filter Thread (φMxP=)	62.0×0.75
Dimensions (WxHxD)mm	70×81×126.5



NO.	MODEL NO.			Aperture (F)	Weight (g)	
1	T21Z5816M-CS	ZOOM	3 MOTOR	1.6-22C	665	
2	T21Z5816MP-CS	ZOOM	3 MOTOR	PRESET	700	
3	T21Z5816MS-CS	ZOOM	3 MOTOR	SPOT FILTER	665	
4	T21Z5816MSP-CS	ZOOM	3 MOTOR	PRESET	SPOT FILTER	700
5	T21Z5816AMS-CS2	ZOOM	VIDEO	SPOT FILTER	700	
6	T21Z5816AMSP-CS2	ZOOM	VIDEO	PRESET	SPOT FILTER	740
7	T21Z5816DC-CS	ZOOM	DC	SPOT FILTER	650	
8	T21Z5816PDC-CS	ZOOM	DC	PRESET	SPOT FILTER	690

1/3" MOTORIZED ZOOM

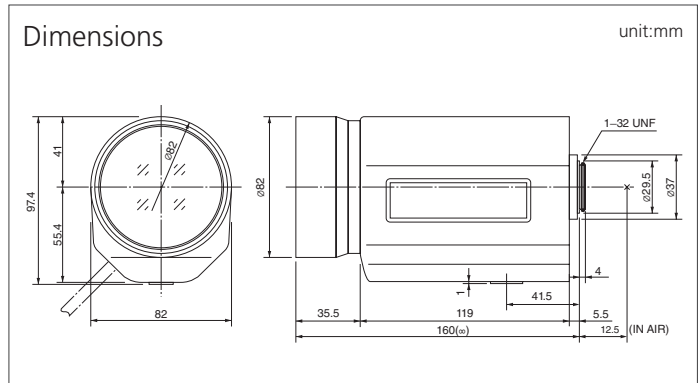
ZOOM LENSES

T34Z5518 Series f 5.5-187mm, F1.8

x 34



Format (")	1/3
Mount	CS
Focal Length (mm)	5.5-187
Angle of View (HOR)°	46.6-1.5
M.O.D. (m)	1.5
Effective Aperture	Front (φmm) 70.0
	Rear (φmm) 9.1
Front Filter Thread (φMxP=)	77.0×0.75
Dimensions (WxHxD)mm	82×97.4×160



NO.	MODEL NO.					Aperture (F)	Weight (g)	
1	T34Z5518AMS-CS	ZOOM	VIDEO	SPOT FILTER		1.8-560C	1160	
2	T34Z5518AMSP-CS	ZOOM	VIDEO	PRESET	SPOT FILTER	1.8-560C	1190	
3	T34Z5518AMSR-CS	ZOOM	VIDEO	SPOT FILTER	OVERRIDE	1.8-560C	1150	
4	T34Z5518AMSPR-CS	ZOOM	VIDEO	PRESET	SPOT FILTER	OVERRIDE	1.8-560C	1180
5	T34Z5518DC-CS	ZOOM	DC	SPOT FILTER		1.8-560C	1110	
6	T34Z5518PDC-CS	ZOOM	DC	PRESET	SPOT FILTER	1.8-560C	1150	

ZOOM
LENSES

1/2" MOTORIZED ZOOM

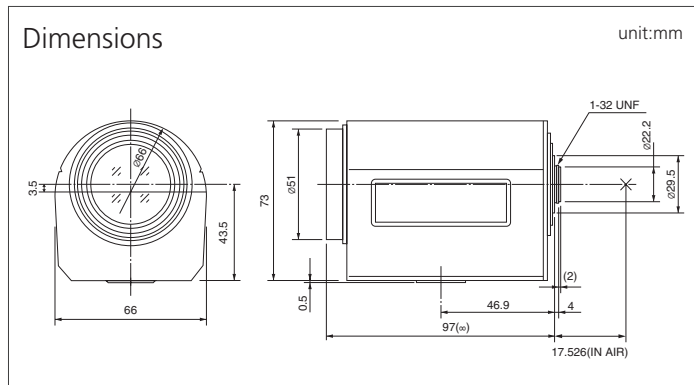
H6Z0812 Series

f 8-48mm, F1.2

x6



Format (")	1/2
Mount	C
Focal Length (mm)	8-48
Angle of View (HOR)°	44.6-8.0
M.O.D. (m)	1.2
Effective Aperture	Front (φmm) 39.2
	Rear (φmm) 16.6
Front Filter Thread (φMxP=)	49.0×0.75
Dimensions (WxHxD)mm	66×73.5×97



NO.	MODEL NO.			Aperture (F)	Weight (g)	
1	H6Z0812M	ZOOM	3 MOTOR	1.2-16C	400	
2	H6Z0812MP	ZOOM	3 MOTOR	PRESET	440	
3	H6Z0812MS	ZOOM	3 MOTOR	SPOT FILTER	400	
4	H6Z0812MSP	ZOOM	3 MOTOR	PRESET	SPOT FILTER	440
5	H6Z0812AMS	ZOOM	VIDEO	SPOT FILTER	420	
6	H6Z0812AMSP	ZOOM	VIDEO	PRESET	SPOT FILTER	460

1/2" MOTORIZED ZOOM

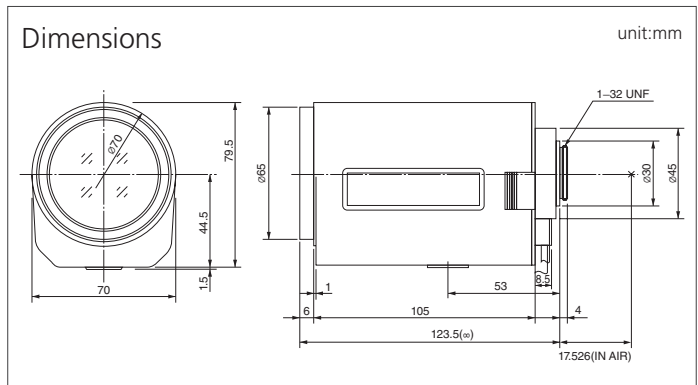
ZOOM LENSES

H10Z0812 Series f 8-80mm, F1.2

x 10



Format (")		1/2
Mount		C
Focal Length (mm)		8-80
Angle of View (HOR)°		44.0-4.7
M.O.D. (m)		1.5
Effective Aperture	Front (φmm)	54.0
	Rear (φmm)	14.0
Front Filter Thread (φMxP=)		62.0×0.75
Dimensions	(WxHxD)mm	70×81×123.5



NO.	MODEL NO.			Aperture (F)	Weight (g)	
1	H10Z0812M	ZOOM	3 MOTOR	1.2-22C	635	
2	H10Z0812MP	ZOOM	3 MOTOR	PRESET	670	
3	H10Z0812MS	ZOOM	3 MOTOR	SPOT FILTER	635	
4	H10Z0812MSP	ZOOM	3 MOTOR	PRESET	SPOT FILTER	670
5	H10Z0812AMS-2	ZOOM	VIDEO	SPOT FILTER	670	
6	H10Z0812AMSP-2	ZOOM	VIDEO	PRESET	SPOT FILTER	710

ZOOM
LENSES

1/2" MOTORIZED ZOOM

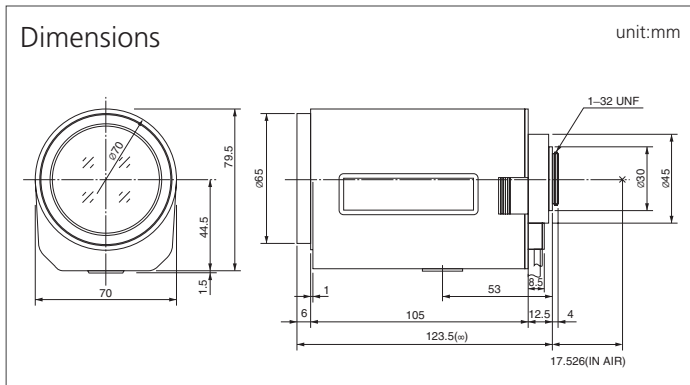
H10Z1218 Series

f 12-120mm, F1.8

x 10



Format (")	1/2
Mount	C
Focal Length (mm)	12-120
Angle of View (HOR)°	29.4-3.1
M.O.D. (m)	1.5
Effective Aperture	Front (φmm) 54.0
	Rear (φmm) 9.2
Front Filter Thread (φMxP=)	62.0×0.75
Dimensions (WxHxD)mm	70×81×123.5



NO.	MODEL NO.			Aperture (F)	Weight (g)	
1	H10Z1218M	ZOOM	3 MOTOR	1.8-22C	635	
2	H10Z1218MP	ZOOM	3 MOTOR	PRESET	670	
3	H10Z1218MS	ZOOM	3 MOTOR	SPOT FILTER	635	
4	H10Z1218MSP	ZOOM	3 MOTOR	PRESET	SPOT FILTER	670
5	H10Z1218AMS-2	ZOOM	VIDEO	SPOT FILTER	670	
6	H10Z1218AMSP-2	ZOOM	VIDEO	PRESET	SPOT FILTER	710
7	H10Z1218DC	ZOOM	DC	SPOT FILTER	630	
8	H10Z1218PDC	ZOOM	DC	PRESET	SPOT FILTER	670

1/2" MOTORIZED ZOOM

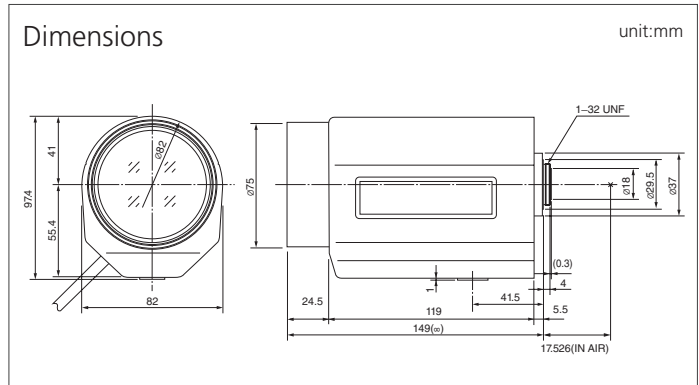
ZOOM LENSES

H16Z7516 Series f 7.5-120mm, F1.6

x 16



Format (")	1/2
Mount	C
Focal Length (mm)	7.5-120
Angle of View (HOR)°	46.6-3.2
M.O.D. (m)	1.5
Effective Aperture	Front (φmm) 66.4
	Rear (φmm) 13.5
Front Filter Thread (φMxP=)	72.0x0.75
Dimensions (WxHxD)mm	82x97.4x149



NO.	MODEL NO.	ZOOM	VIDEO	SPOT FILTER	PRESET	OVERRIDE	Aperture (F)	Weight (g)
1	H16Z7516AMS	ZOOM	VIDEO	SPOT FILTER			1.6-560C	1050
2	H16Z7516AMSP	ZOOM	VIDEO	SPOT FILTER	PRESET		1.6-560C	1080
3	H16Z7516AMSR	ZOOM	VIDEO	SPOT FILTER		OVERRIDE	1.6-560C	1040
4	H16Z7516AMSPR	ZOOM	VIDEO	SPOT FILTER	PRESET	OVERRIDE	1.6-560C	1070
5	H16Z7516DC	ZOOM	DC	SPOT FILTER			1.6-560C	1010
6	H16Z7516PDC	ZOOM	DC	SPOT FILTER	PRESET		1.6-560C	1050

ZOOM
LENSES

1/2" MOTORIZED ZOOM

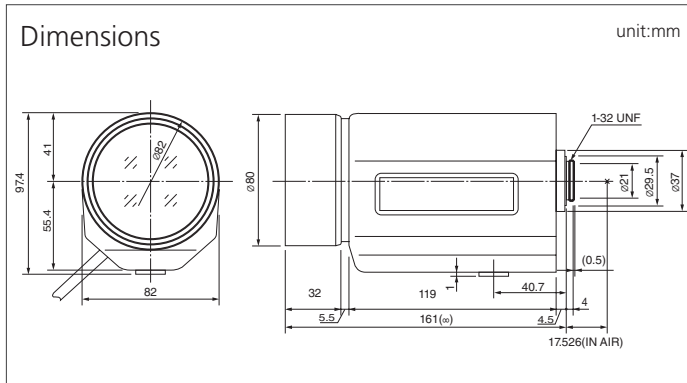
H16Z7516-IR Series

f 7.5-120mm, F1.6

x 16



Format (")	1/2
Mount	C
Focal Length (mm)	7.5-120
Angle of View (HOR)°	47.0-3.1
M.O.D. (m)	1.5
Effective Aperture	Front (φmm) 68.0 Rear (φmm) 14.3
Front Filter Thread (φMxP=)	77.0×0.75
Dimensions (WxHxD)mm	82×97.4×161.5



NO.	MODEL NO.						Aperture (F)	Weight (g)
1	H16Z7516AMS-IR	ZOOM	VIDEO	SPOT FILTER		IR	1.6-560C	1160
2	H16Z7516AMSP-IR	ZOOM	VIDEO	PRESET	SPOT FILTER	IR	1.6-560C	1180
3	H16Z7516AMSR-IR	ZOOM	VIDEO	SPOT FILTER	VERRIDE	IR	1.6-560C	1185
4	H16Z7516AMSPR-IR	ZOOM	VIDEO	PRESET	SPOT FILTER	VERRIDE	IR	1215

Features of H16Z7516-IR Series

Infrared light increases at night because the wavelength distribution changes greatly between day and night. In case of night surveillance with infrared lighting, standard CCTV lenses cause a focus shift because of the difference in wavelength distribution, even when focused properly during the day.

Computar's new IR zoom lens utilizes a special optical glass material which minimizes light dispersion. As a result, refocusing is not required when used at night with infrared lighting. The lens also has a special multi-coating on all lens elements so that the lens transmits more light up to the infrared region. This provides a much more vivid picture when used at night with Day/Night cameras or ultra high sensitivity cameras.

1/2" MOTORIZED ZOOM

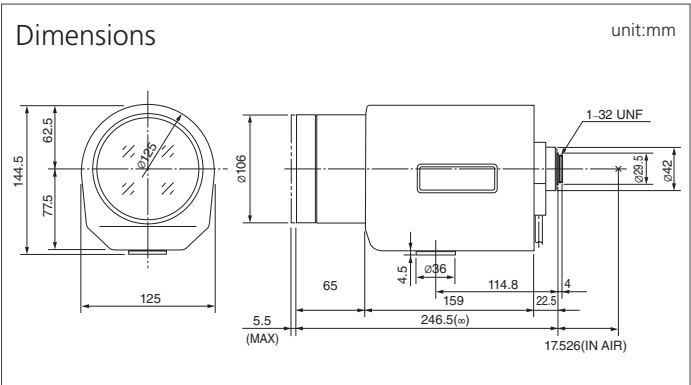
ZOOM LENSES

H30Z1015 Series f 10-300mm, F1.5

x30



Format (")	1/2
Mount	C
Focal Length (mm)	10-300
Angle of View (HOR)°	35.5-1.25
M.O.D. (m)	2.2
Effective Aperture	Front (φmm) 94.0
	Rear (φmm) 14.8
Front Filter Thread (φMxP=)	100×1
Dimensions (WxHxD) mm	125×144.5×246.5



NO.	MODEL NO.				Aperture (F)	Weight (g)	
1	H30Z1015AMS	ZOOM	VIDEO	SPOT FILTER	1.5-560C	3170	
2	H30Z1015AMSP	ZOOM	VIDEO	PRESET	SPOT FILTER	3220	
3	H30Z1015AMSR	ZOOM	VIDEO	SPOT FILTER	VERRIDE	3175	
4	H30Z1015AMSPR	ZOOM	VIDEO	PRESET	SPOT FILTER	VERRIDE	3225

Features of H30Z1015 Series

This lens provides powerful zoom ratio(10-300mm) and the fastest F-stop (F1.5) in the CCTV market, making it ideal for long distance or low light surveillance. Typical applications include highway and traffic monitoring, port and harbor surveillance, airport surveillance and border patrol.

ZOOM
LENSES

1/2" MOTORIZED ZOOM

H60Z1238 Series

f 12.5-750mm, F3.8 / f 25-1500mm, F7.6 (w/2x extender)

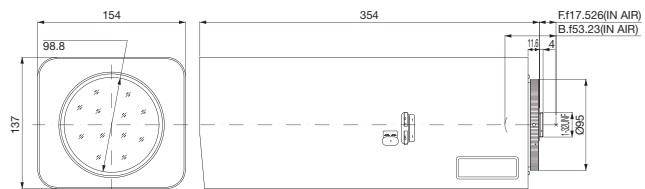
x 60



Format (")	1/2
Mount	C
Focal Length (mm)	12.5-750 25-1500(with 2x extender.)
Angle of View (HOR)°	28.7-0.48
M.O.D. (m)	5.0
Effective Aperture	Front (φmm) 98.8 Rear (φmm) 13.6
Front Filter Thread (φMxP=)	107×1
Dimensions (WxHxD)mm	154×137×354

Dimensions

unit:mm



NO.	MODEL NO.		Aperture (F)	Weight (g)
1	H60Z1238A	ZOOM VIDEO PRESET SPOT FILTER OVERRIDE	3.8-3000	5100
2	H60Z1238A-IR	ZOOM VIDEO PRESET SPOT FILTER OVERRIDE IR	3.8-3000	5200
3	H60Z1238A-IRF	ZOOM VIDEO PRESET SPOT FILTER OVERRIDE Fog through IR	3.8-3000	5200

1/2" MOTORIZED ZOOM

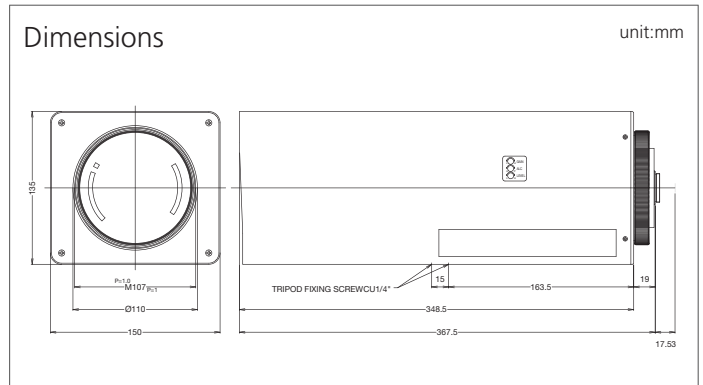
MEGAPIXEL ZOOM

H62Z1235 Series f 12.5-775mm, F3.5

x62



Format (")		1/2
Mount		C
Focal Length (mm)		12.5-775
Angle of View (HOR)°		28.77-0.47
M.O.D. (m)		5.0
Effective Aperture	Front (φmm)	98.5
	Rear (φmm)	17.5
Front Filter Thread (φMxP=)		107×1
Dimensions	(WxHxD)mm	150×135×367.5



NO.	MODEL NO.				Aperture (F)	Weight (g)
1	H62Z1235AMS-MP	ZOOM	VIDEO	2MP	3.5-Close	5500
2	H62Z1235AMSP-MP	ZOOM	VIDEO	PRESET	3.5-Close	5500



PINHOLE

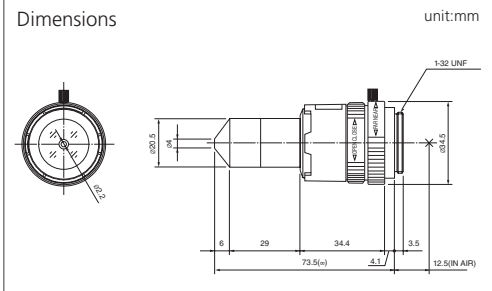
MANUAL IRIS / DC DRIVE / VIDEO DRIVE

MANUAL IRIS

FIX
MANUAL



MODEL NO.	T2625CS-P
Format (")	1/3
Mount	CS
Focal Length (mm)	2.6
Aperture (F)	2.5-32C
Angle of View (HOR)°	83.2
M.O.D. (m)	0.2
Effective Aperture	Front (φmm) 4.8
	Rear (φmm) 11.5
Front Filter Thread (φMxP=)	-
Dimensions	(φD), (φxH) or (WxD)mm φ34.5×73.5
Weight (g)	80

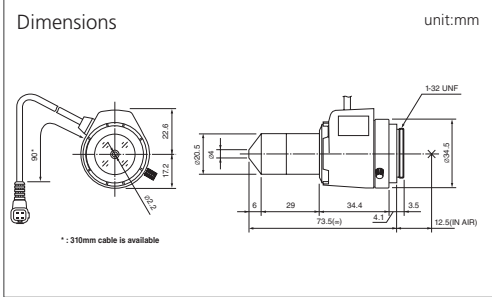


DC DRIVE

FIX
DC



MODEL NO.	TG2625FCS-P
Format (")	1/3
Mount	CS
Focal Length (mm)	2.6
Aperture (F)	2.5-360C
Angle of View (HOR)°	83.2
M.O.D. (m)	0.2
Effective Aperture	Front (φmm) 4.8
	Rear (φmm) 11.5
Front Filter Thread (φMxP=)	-
Dimensions	(φD), (φxH) or (WxD)mm φ34.5×39.8×73.5
Weight (g)	82

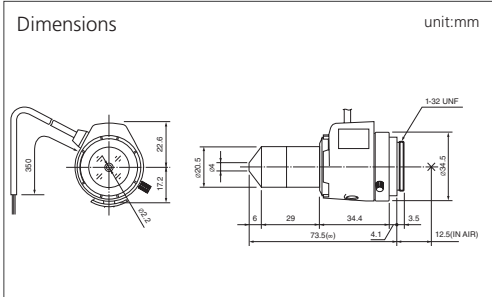


VIDEO DRIVE

FIX
VIDEO



MODEL NO.	TG2625AFCS-P
Format (")	1/3
Mount	CS
Focal Length (mm)	2.6
Aperture (F)	2.5-360C
Angle of View (HOR)°	83.2
M.O.D. (m)	0.2
Effective Aperture	Front (φmm) 4.8
	Rear (φmm) 11.5
Front Filter Thread (φMxP=)	-
Dimensions	(φD), (φxH) or (WxD)mm φ34.5×39.8×73.5
Weight (g)	85



ACCESSORIES



MODEL NO.	EX1.5CS
Description	1.5X Extender for CS-mount
Application	Attached between lens and camera - Makes focal length 1.5X



MODEL NO.	EX1.5C
Description	1.5X Extender for C-mount
Application	Attached between lens and camera - Makes focal length 1.5X



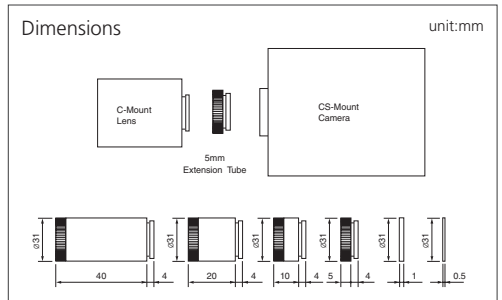
MODEL NO.	EX2CS
Description	2X Extender for CS-mount
Application	Attached between lens and camera - Makes focal length 2X



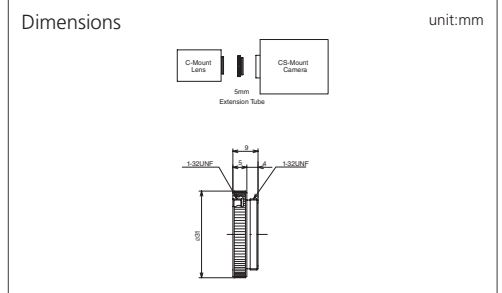
MODEL NO.	EX2C
Description	2X Extender for C-mount
Application	Attached between lens and camera - Makes focal length 2X



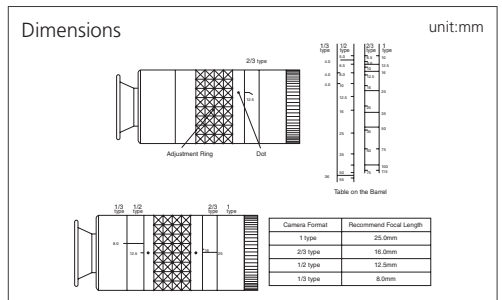
MODEL NO.	VM100
Description	Extension Tube Kit 40, 20, 10, 5, 1, 0.5mm
Application	Attached between lens and camera - Reduces minimum focusing distance



MODEL NO.	VM400
Description	5mm Adapter Ring
Application	Attached between lens and camera - Adapts C-mount lens to CS-mount camera



MODEL NO.	VM300
Description	View Finder
Application	Adjustable field of view - Helps determine required focal length

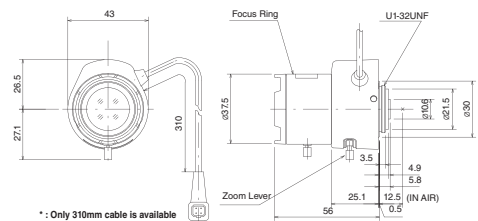


- VARI
- DC
- ASP
- IR
- 1MP
- SECURITY



MODEL NO.	TG4Z2816FCS-MPIR
Format (")	1/3
Mount	CS
Focal Length (mm)	2.8-12
Aperture (F)	1.6-360
Angle of View (HOR)°	102.2-23.7
M.O.D. (m)	0.3
Effective Aperture Front (φmm)	23.0
Rear (φmm)	7.4
Front Filter Thread (φMxP=)	-
Dimensions (φxL) (φxHxD) or (WxHxD)mm	φ37.5×48×56
Weight (g)	71

Dimensions unit:mm



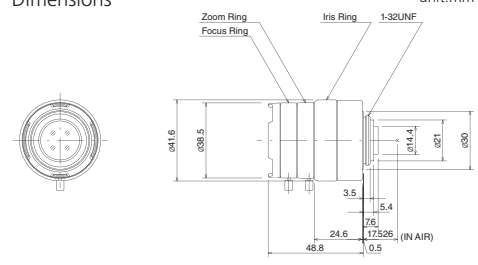
*: Only 310mm cable is available

- VARI
- MANUAL
- 1MP
- SECURITY



MODEL NO.	H2Z0414C-MP
Format (")	1/2
Mount	C
Focal Length (mm)	4-8
Aperture (F)	1.4-16C
Angle of View (HOR)°	90.4-47.0
M.O.D. (m)	0.5
Effective Aperture Front (φmm)	22.2
Rear (φmm)	10.7
Front Filter Thread (φMxP=)	-
Dimensions (φxL) (φxHxD) or (WxHxD)mm	φ41.6×48.8
Weight (g)	72

Dimensions unit:mm

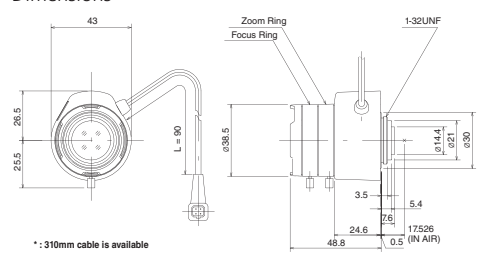


- VARI
- DC
- 1MP
- SECURITY



MODEL NO.	HG2Z0414FC-MP
Format (")	1/2
Mount	C
Focal Length (mm)	4-8
Aperture (F)	1.4-360
Angle of View (HOR)°	90.4-47.0
M.O.D. (m)	0.5
Effective Aperture Front (φmm)	22.2
Rear (φmm)	10.7
Front Filter Thread (φMxP=)	-
Dimensions (φxL) (φxHxD) or (WxHxD)mm	φ38.5×48×48.8
Weight (g)	75

Dimensions unit:mm



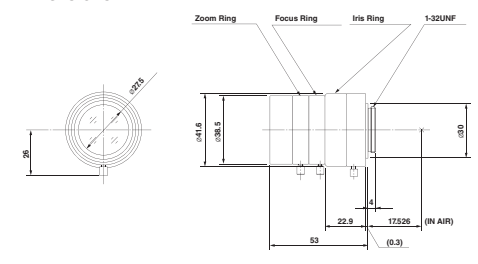
*: 310mm cable is available

- VARI
- MANUAL
- 1MP
- SECURITY



MODEL NO.	M3Z1228C-MP
Format (")	2/3
Mount	C
Focal Length (mm)	12-36
Aperture (F)	2.8-16C
Angle of View (HOR)°	41.0-13.6
M.O.D. (m)	0.2
Effective Aperture Front (φmm)	27.2
Rear (φmm)	12.1
Front Filter Thread (φMxP=)	35.5×0.5
Dimensions (φxL) (φxHxD) or (WxHxD)mm	φ41.6×53
Weight (g)	105

Dimensions unit:mm



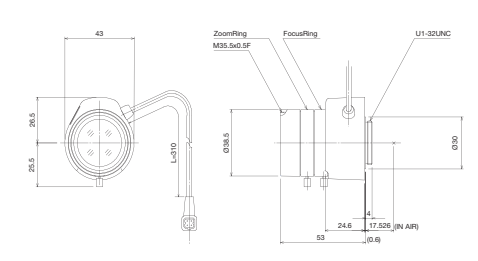
Please note M3Z1228C-MP is produced to order

- VARI
- DC
- 1MP
- SECURITY



MODEL NO.	MG3Z1228FC-MP
Format (")	2/3
Mount	C
Focal Length (mm)	12-36
Aperture (F)	2.8-360
Angle of View (HOR)°	41.0-13.6
M.O.D. (m)	0.2
Effective Aperture Front (φmm)	27.2
Rear (φmm)	12.1
Front Filter Thread (φMxP=)	35.8×0.5
Dimensions (φxL) (φxHxD) or (WxHxD)mm	φ41.6×48×53
Weight (g)	99

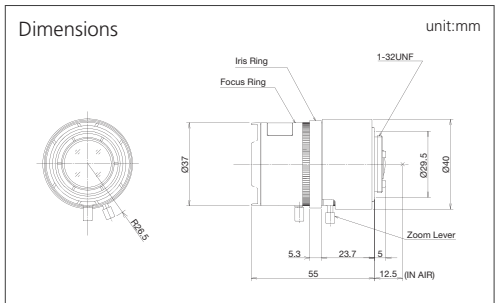
Dimensions unit:mm



- VARI
- MANUAL
- WIDE
- ASP
- IR
- 3MP
- SECURITY
- HDTV 1080



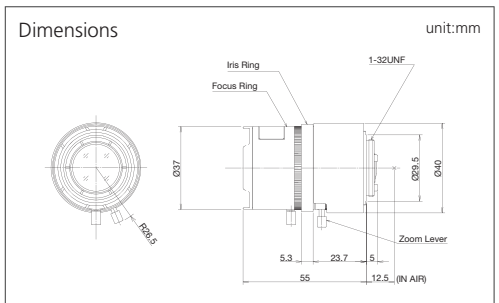
MODEL NO.	T3Z0312CS-MPIR
Format (")	1/3
Mount	CS
Focal Length (mm)	3-8
Aperture (F)	1.2-16C
Angle of View (HOR)°	90.7-35.2
M.O.D. (m)	0.3
Effective Aperture	Front (φmm) 20.9
	Rear (φmm) 10.5
Front Filter Thread (φMxP=)	-
Dimensions	^(FxD) (F+HxD) or (WxHxD)mm
Weight (g)	54.5



- VARI
- MANUAL
- WIDE
- ASP
- IR
- 3MP
- SECURITY
- HDTV 1080



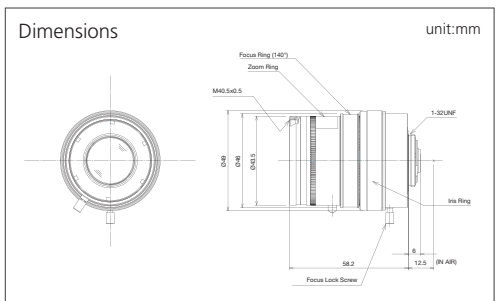
MODEL NO.	A3Z3112CS-MPIR
Format (")	1/2.7
Mount	CS
Focal Length (mm)	3.1-8
Aperture (F)	1.2-16C
Angle of View (HOR)°	95.9-38.7
M.O.D. (m)	0.3
Effective Aperture	Front (φmm) 20.9
	Rear (φmm) 10.5
Front Filter Thread (φMxP=)	-
Dimensions	^(FxD) (F+HxD) or (WxHxD)mm
Weight (g)	52.5



- VARI
- MANUAL
- TELE
- ASP
- IR
- 3MP
- SECURITY
- HDTV 1080



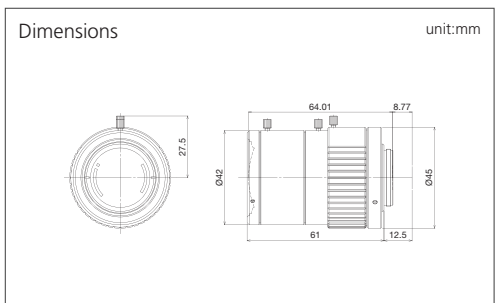
MODEL NO.	A4Z1214CS-MPIR
Format (")	1/2.7
Mount	CS
Focal Length (mm)	12.5-50
Aperture (F)	1.4-16C
Angle of View (HOR)°	24.0-6.2
M.O.D. (m)	1.0
Effective Aperture	Front (φmm) 21.7
	Rear (φmm) 9.1
Front Filter Thread (φMxP=)	40x0.5
Dimensions	^(FxD) (F+HxD) or (WxHxD)mm
Weight (g)	80



- VARI
- MANUAL
- IR
- 3MP
- SECURITY
- HDTV 1080



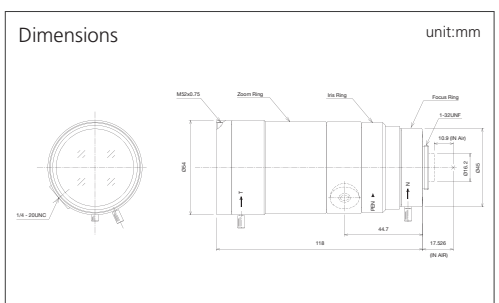
MODEL NO.	H3Z4518CS-MPIR
Format (")	1/2
Mount	CS
Focal Length (mm)	4.5-13.2
Aperture (F)	1.8-16C
Angle of View (HOR)°	80.0-28.6
M.O.D. (m)	0.5
Effective Aperture	Front (φmm) 25.1
	Rear (φmm) 10.0
Front Filter Thread (φMxP=)	-
Dimensions	^(FxD) (F+HxD) or (WxHxD)mm
Weight (g)	148



- VARI
- MANUAL
- TELE
- ASP
- 3MP
- SECURITY
- HDTV 1080



MODEL NO.	H5Z2518C-MP
Format (")	1/2
Mount	C
Focal Length (mm)	25-135
Aperture (F)	1.8-16C
Angle of View (HOR)°	14.5-2.8
M.O.D. (m)	1.5
Effective Aperture	Front (φmm) 44.7
	Rear (φmm) 12.2
Front Filter Thread (φMxP=)	-
Dimensions	^(FxD) (F+HxD) or (WxHxD)mm
Weight (g)	411



MEGAPIXEL
VARIFOCAL
AUTO IRIS

MEGAPIXEL

SECURITY

VARI

DC

WIDE

ASP

IR

3MP

SECURITY

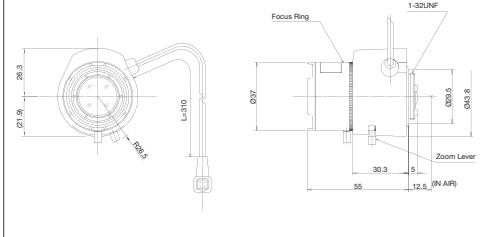
HDTV
1080



MODEL NO.	TG3Z0312FCS-MPIR
Format (")	1/3
Mount	CS
Focal Length (mm)	3-8
Aperture (F)	1.2-360C
Angle of View (HOR)°	90.7-35.2
M.O.D. (m)	0.3
Effective Aperture	Front (φmm) 20.9
	Rear (φmm) 10.5
Front Filter Thread (φMxP=)	-
Dimensions	$\phi 37 \times 48.2 \times 55$
Weight (g)	59

Dimensions

unit:mm



VARI

DC

WIDE

ASP

IR

3MP

SECURITY

HDTV
1080

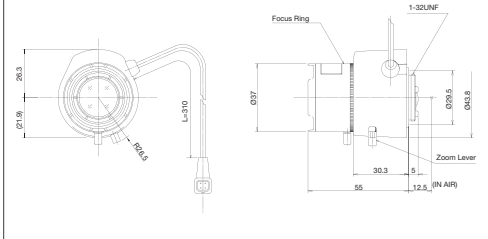


NEW

MODEL NO.	AG3Z3112FCS-MPIR
Format (")	1/2.7
Mount	CS
Focal Length (mm)	3.1-8
Aperture (F)	1.2-360C
Angle of View (HOR)°	95.9-38.7
M.O.D. (m)	0.3
Effective Aperture	Front (φmm) 20.9
	Rear (φmm) 10.5
Front Filter Thread (φMxP=)	-
Dimensions	$\phi 37 \times 48.2 \times 55$
Weight (g)	59

Dimensions

unit:mm



VARI

DC

TELE

ASP

IR

3MP

SECURITY

HDTV
1080

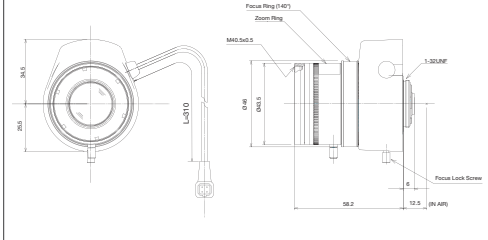


NEW

MODEL NO.	AG4Z1214FCS-MPIR
Format (")	1/2.7
Mount	CS
Focal Length (mm)	12.5-50
Aperture (F)	1.4-360C
Angle of View (HOR)°	24.0-6.2
M.O.D. (m)	1.0
Effective Aperture	Front (φmm) 21.7
	Rear (φmm) 9.1
Front Filter Thread (φMxP=)	40×0.5
Dimensions	$\phi 46 \times 59.3 \times 58.4$
Weight (g)	83

Dimensions

unit:mm



VARI

DC

TELE

ASP

3MP

SECURITY

HDTV
1080

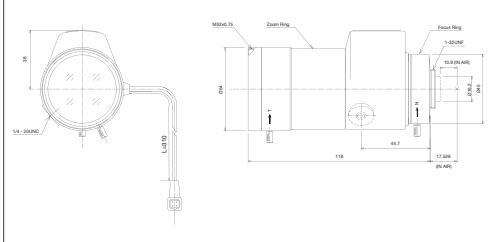


NEW

MODEL NO.	HG5Z2518FC-MP
Format (")	1/2
Mount	C
Focal Length (mm)	25-135
Aperture (F)	1.8-360C
Angle of View (HOR)°	14.5-2.8
M.O.D. (m)	1.5
Effective Aperture	Front (φmm) 44.7
	Rear (φmm) 12.2
Front Filter Thread (φMxP=)	-
Dimensions	$\phi 54 \times 65 \times 118$
Weight (g)	402

Dimensions

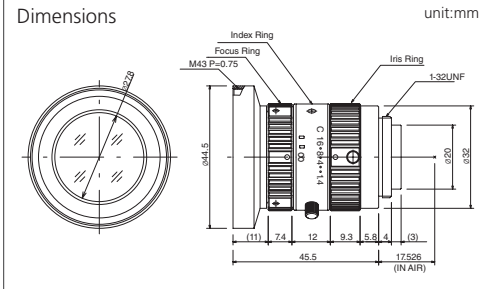
unit:mm



- FIX
- MANUAL
- WIDE
- 1.5MP
- FA



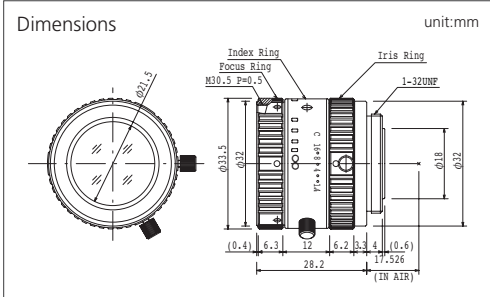
MODEL NO.	H0514-MP2
Format (")	1/2
Mount	C
Focal Length (mm)	5
Aperture (F)	1.4-16C
Angle of View (HOR)°	65.5
M.O.D. (m)	0.3
Effective Aperture	Front (φmm) 27.8
	Rear (φmm) 14.8
Front Filter Thread (φMxP=)	43.0×0.75
Dimensions	(φD), (φHxL) or (WxHxO)mm φ44.5×45.5
Weight (g)	102



- FIX
- MANUAL
- 1.5MP
- SECURITY
- FA



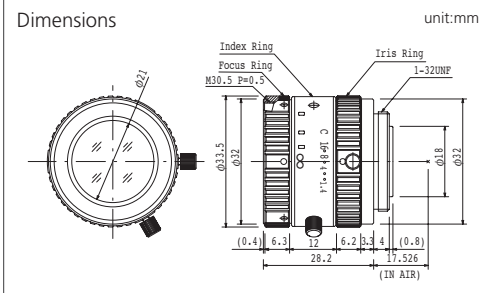
MODEL NO.	M0814-MP2
Format (")	2/3
Mount	C
Focal Length (mm)	8
Aperture (F)	1.4-16C
Angle of View (HOR)°	56.3
M.O.D. (m)	0.1
Effective Aperture	Front (φmm) 21.5
	Rear (φmm) 12.0
Front Filter Thread (φMxP=)	30.5×0.5
Dimensions	(φD), (φHxL) or (WxHxO)mm φ33.5×28.2
Weight (g)	63



- FIX
- MANUAL
- 1.5MP
- SECURITY
- FA



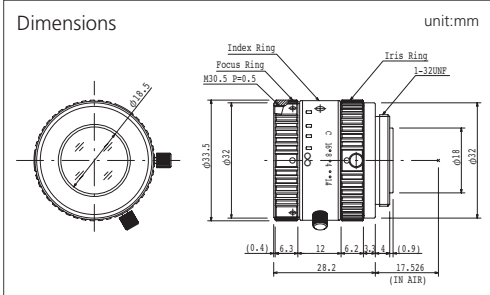
MODEL NO.	M1214-MP2
Format (")	2/3
Mount	C
Focal Length (mm)	12
Aperture (F)	1.4-16C
Angle of View (HOR)°	40.4
M.O.D. (m)	0.15
Effective Aperture	Front (φmm) 21.0
	Rear (φmm) 13.0
Front Filter Thread (φMxP=)	30.5×0.5
Dimensions	(φD), (φHxL) or (WxHxO)mm φ33.5×28.2
Weight (g)	62



- FIX
- MANUAL
- 1.5MP
- SECURITY
- FA



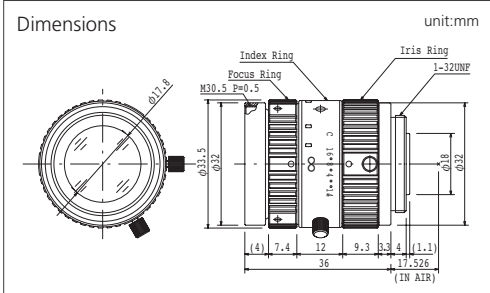
MODEL NO.	M1614-MP2
Format (")	2/3
Mount	C
Focal Length (mm)	16
Aperture (F)	1.4-16C
Angle of View (HOR)°	30.8
M.O.D. (m)	0.3
Effective Aperture	Front (φmm) 18.5
	Rear (φmm) 13.2
Front Filter Thread (φMxP=)	30.5×0.5
Dimensions	(φD), (φHxL) or (WxHxO)mm φ33.5×28.2
Weight (g)	60



- FIX
- MANUAL
- 1.5MP
- SECURITY
- FA



MODEL NO.	M2514-MP2
Format (")	2/3
Mount	C
Focal Length (mm)	25
Aperture (F)	1.4-16C
Angle of View (HOR)°	20.0
M.O.D. (m)	0.3
Effective Aperture	Front (φmm) 17.8
	Rear (φmm) 12.0
Front Filter Thread (φMxP=)	30.5×0.5
Dimensions	(φD), (φHxL) or (WxHxO)mm φ33.5×36.0
Weight (g)	71

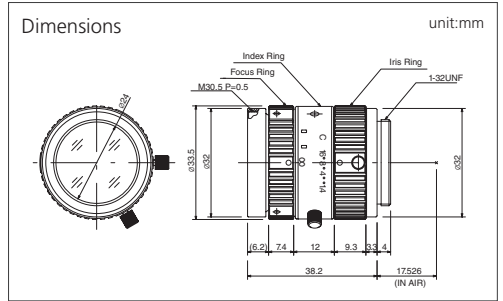




- FIX
- MANUAL
- 1.5MP
- FA



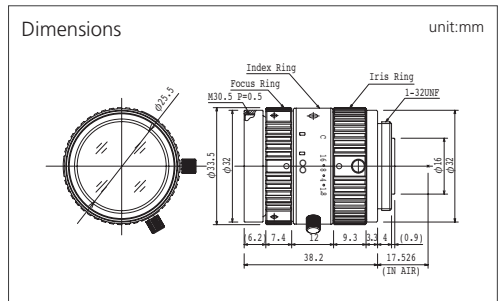
MODEL NO.	M3514-MP
Format (")	2/3
Mount	C
Focal Length (mm)	35
Aperture (F)	1.4-16C
Angle of View (HOR)°	13.9
M.O.D. (m)	0.3
Effective Aperture	Front (φmm) 24.0
	Rear (φmm) 12.0
Front Filter Thread (φMxP=)	30.5×0.5
Dimensions	^{(F×D), (F×HxD)} or (W×HxD)mm
Weight (g)	87



- FIX
- MANUAL
- 1.5MP
- SECURITY
- FA



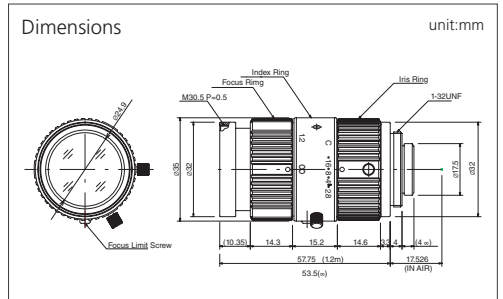
MODEL NO.	M5018-MP2
Format (")	2/3
Mount	C
Focal Length (mm)	50
Aperture (F)	1.8-16C
Angle of View (HOR)°	10.5
M.O.D. (m)	0.5
Effective Aperture	Front (φmm) 25.5
	Rear (φmm) 9.6
Front Filter Thread (φMxP=)	30.5×0.5
Dimensions	^{(F×D), (F×HxD)} or (W×HxD)mm
Weight (g)	85



- FIX
- MANUAL
- TELE
- 1.5MP
- FA



MODEL NO.	M7528-MP
Format (")	2/3
Mount	C
Focal Length (mm)	75
Aperture (F)	2.8-16C
Angle of View (HOR)°	6.8
M.O.D. (m)	0.3
Effective Aperture	Front (φmm) 24.8
	Rear (φmm) 13.6
Front Filter Thread (φMxP=)	30.5×0.5
Dimensions	^{(F×D), (F×HxD)} or (W×HxD)mm
Weight (g)	113



FIX

MANUAL

3MP

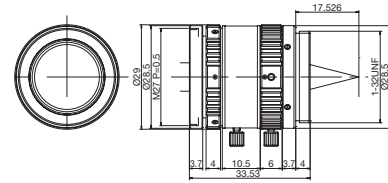
FA



MODEL NO.	M1620-MPV
Format (")	2/3
Mount	C
Focal Length (mm)	16
Aperture (F)	2.0-16
Angle of View (HOR)°	30.7
M.O.D. (m)	0.2
Effective Aperture Front (Ømm)	18.0
Rear (Ømm)	11.0
Front Filter Thread (ØMxP=)	27.0×0.5
Dimensions (ØD, (P-HxH) or (WxH)mm)	φ29×33.53
Weight (g)	53

Dimensions

unit:mm



FIX

MANUAL

3MP

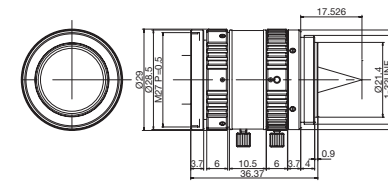
FA



MODEL NO.	M2518-MPV
Format (")	2/3
Mount	C
Focal Length (mm)	25
Aperture (F)	1.8-16
Angle of View (HOR)°	19.9
M.O.D. (m)	0.2
Effective Aperture Front (φ mm)	18.0
Rear (φ mm)	13.0
Front Filter Thread (φMxP=)	27.0×0.5
Dimensions (φD, (P-HxH) or (WxH)mm)	φ29×36.37
Weight (g)	60

Dimensions

unit:mm



FIX

MANUAL

3MP

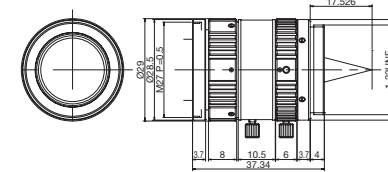
FA



MODEL NO.	M3520-MPV
Format (")	2/3
Mount	C
Focal Length (mm)	35
Aperture (F)	2.0-22
Angle of View (HOR)°	14.3
M.O.D. (m)	0.2
Effective Aperture Front (φ mm)	18.0
Rear (φ mm)	12.0
Front Filter Thread (φMxP=)	27.0×0.5
Dimensions (φD, (P-HxH) or (WxH)mm)	φ29×37.34
Weight (g)	59

Dimensions

unit:mm



FIX

MANUAL

3MP

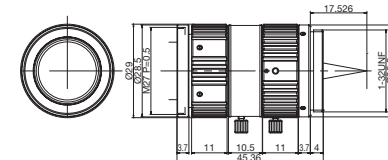
FA



MODEL NO.	M5028-MPV
Format (")	2/3
Mount	C
Focal Length (mm)	50
Aperture (F)	2.8-32
Angle of View (HOR)°	10.0
M.O.D. (m)	0.4
Effective Aperture Front (φ mm)	18.0
Rear (φ mm)	12.0
Front Filter Thread (φMxP=)	27.0×0.5
Dimensions (φD, (P-HxH) or (WxH)mm)	φ29×45.36
Weight (g)	69

Dimensions

unit:mm



FIX

MANUAL

5MP

SECURITY

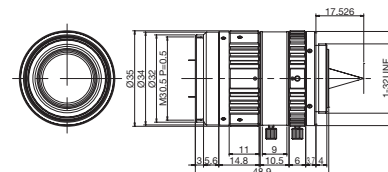
FA



MODEL NO.	M2518-MPW
Format (")	2/3
Mount	C
Focal Length (mm)	25
Aperture (F)	1.8-16
Angle of View (HOR)°	20.5
M.O.D. (m)	0.15
Effective Aperture Front (φ mm)	18.0
Rear (φ mm)	13.0
Front Filter Thread (φMxP=)	30.5×0.5
Dimensions (φD, (P-HxH) or (WxH)mm)	φ35×48.90
Weight (g)	102

Dimensions

unit:mm



CABLE DIAGRAMS OF AUTO IRIS LENSES

FCS series DC DRIVE

FCS series Auto Iris Lens, equipped with auto iris mechanism by galvanometer and with ND filter, can be used with only cameras containing amplifier. Connector plug is applied to the end of the cable.

AFCS series VIDEO DRIVE

AFCS series Auto Iris Lens is equipped with auto Iris mechanism by galvanometer, amplifier and ND spot filter.

	FCS (w/o Amplifier)	AFCS (with Amplifier)
Supplied Power	-	DC8V ~16V 35mA max
Input Signal	-	Video Signal (V or Vs)
Iris Accuracy	-	± 15% (Video level)
Sensitivity Adjustment	-	0.5V (p-p) ~1.0V (p-p) (Video signal)
Input Impedance	-	High impedance
Transit Time	-	Approx. 2sec
Light Weighting Method	-	Adjustable between Average-Peak (to be set at average at factory)
Operating Temperature	-10°C~+50°C	-10°C~+50°C

Pin No.	Color	Function
1	Brown	Control (-)
2	Red	Control (+)
3	Yellow	Drive (+)
4	Orange	Drive (-)

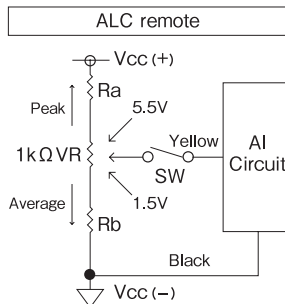
AFCS

- RED : VCC(+) DC8V-16V
- WHITE : Video Signal (V or VS)
- BLACK : Vcc(-)

REMOTE FUNCTIONS

1) LEVEL & ALC remotes have been functioned on the following models

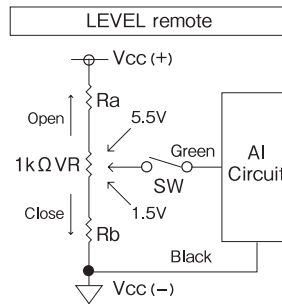
T21Z5816AMS-CS2/AMSP-CS2
H10Z0812AMS-2/AMSP-2
H10Z1218AMS-2/AMSP-2



*Vcc represents input voltage.
*The ALC should be set at the full peak position.

2) LEVEL remote (AS OPTION)

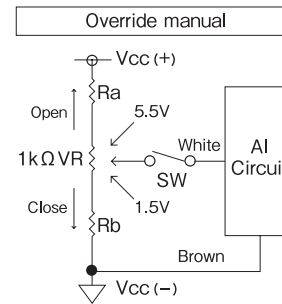
T6Z5710AMS-CS/AMSP-CS
T10Z5712AMS-CS/AMSP-CS
T34Z5518AMS-CS/AMSP-CS
T34Z5518AMSR-CS/AMSPR-CS
H6Z0812AMS/AMSP
H16Z7516AMS/AMSP (-IR)
H16Z7516AMSR/AMSPR (-IR)



*Vcc represents input voltage.

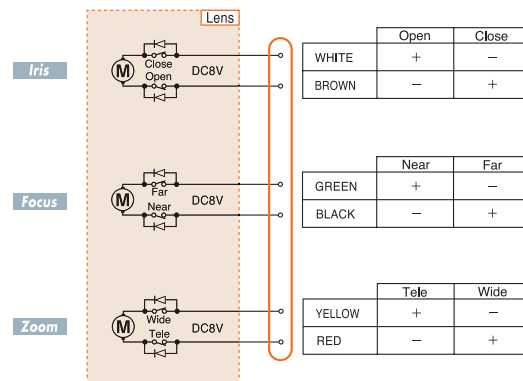
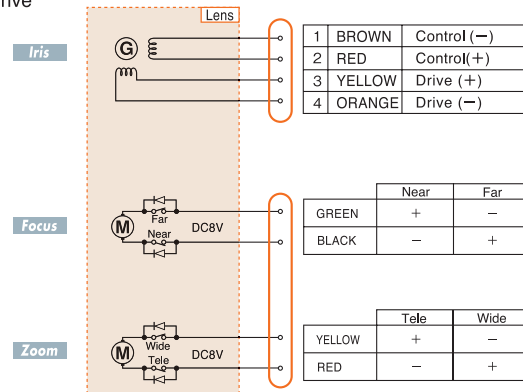
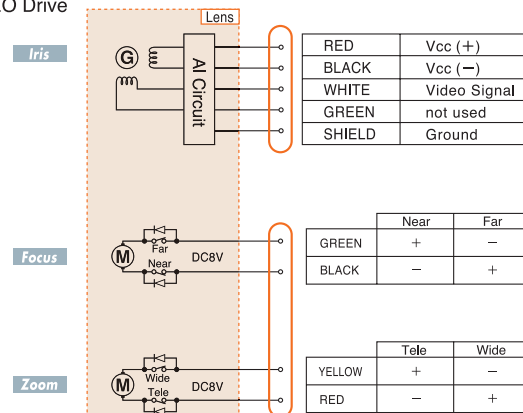
3) Override manual

T34Z5518AMSR-CS/AMSPR-CS
H16Z7516AMSR/AMSPR (-IR)
H30Z1015AMSR/AMSPR



*Vcc represents input voltage.
*The remote voltage should be set between 1.5 ~ 5.5V, and level remote should be OFF.

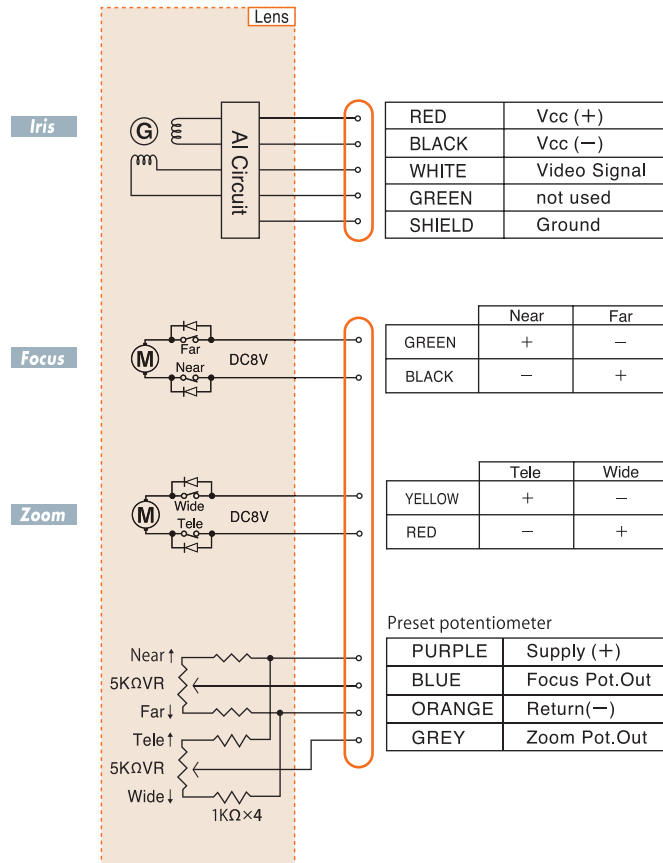
WIRING DIAGRAMS FOR MOTORIZED ZOOM LENSES - 1

<p>Motorized zoom / 3 motor type</p> <p>Iris, focus & zoom can be adjusted by controller.</p>	 <p>Remarks : Connect together with iris, focus and zoom for common system when necessary.</p>
<p>Motorized zoom / auto iris type</p> <p>Auto-iris, focus & zoom can be adjusted by controller.</p> <p>(Some lenses have Level & ALC remote. Please see remote functions at the left page.)</p>	<p>DC Drive</p>  <p>VIDEO Drive</p>  <p>Remarks : Connect together with iris, focus and zoom for common system when necessary.</p>

Motorized zoom preset potentiometer for focus & zoom

This preset function has been developed for high requirement to automation in CCTV system using potentiometers as position sensor for focusing & zooming.

(Some lenses have Level, ALC & Override remote. Please see remote functions at the left page.)



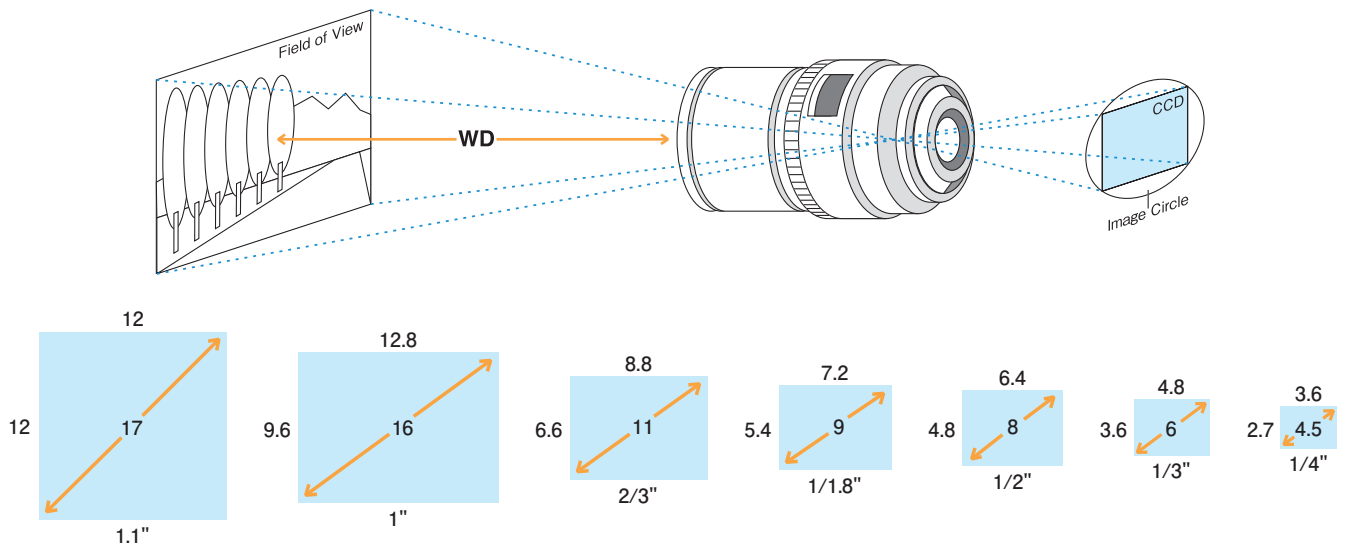
Remarks : Connect together with iris, focus and zoom for common system when necessary.

Note : Wiring diagram details should follow specifications of each lens.

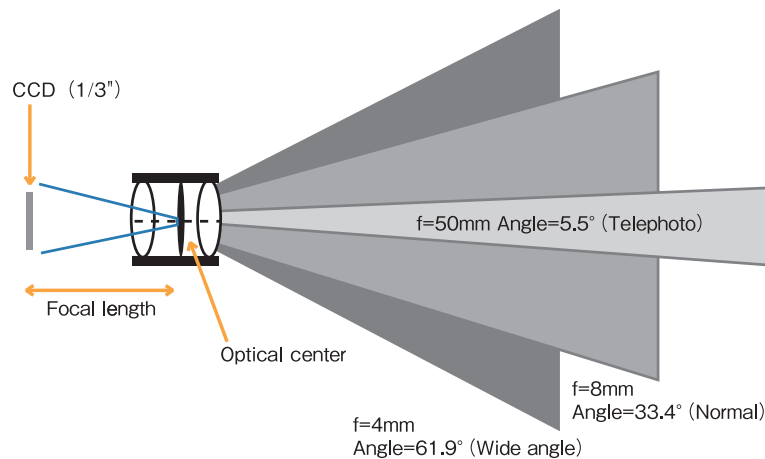


CAMERA FORMAT

The size of camera's imaging device also affects the angle of view, with the smaller devices creating narrower angles of view when used on the same lens. The format of the lens, however is irrelevant to the angle of view, it merely needs to project an image which will cover the device, i.e.; the same format of the camera or larger. This also means that 1/3" cameras can utilize the entire range of lenses from 1/3" to 2/3" with a 1/3" 8mm lens giving the same angle as a 2/3" 8mm lens. The latter combination also provides increased resolution and picture quality as only the center of the lens is being utilized, where the optics can be ground more accurately.



FOCAL LENGTH



ANGLE OF VIEW

It is important to know the angle of view of the lens to take in the object. Angle of view changes with focal length of lens and image size of camera. The focal length to cover the object can be calculated from the next formula.

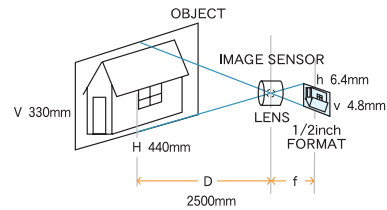
● Formula for calculation

$$f = v \times \frac{D}{V} \dots (1) \quad f = h \times \frac{D}{H} \dots (2)$$

- F : Focal length of lens
- V : Vertical size of object
- H : Horizontal size of object
- D : Distance from lens to object
- v : vertical size of image (see the following table)
- h : horizontal size of image (see the following table)

FORMAT	2/3 inch	1/2 inch	1/3 inch	1/4 inch
V	6.6mm	4.8mm	3.6mm	2.7mm
H	8.8mm	6.4mm	4.8mm	3.6mm

● For example



$$f = 4.8 \times \frac{2500}{330} \doteq 36\text{mm}$$

(2) In case of horizontal size

1/2 inch camera

Horizontal size of object

Distance from lens to object

substitute these datas to formula (2)

h = 6.4mm

H = 440mm (44cm)

D = 2500mm (250cm)

$$f = 6.4 \times \frac{2500}{440} \doteq 36\text{mm}$$

■ COMPARISON OF MONITORING IMAGES

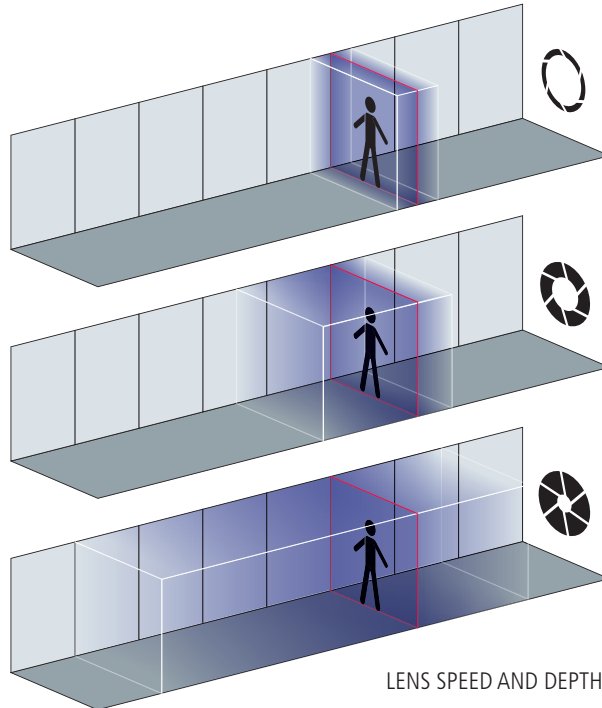
※ Images on 1/3" camera

Object distance / Focal length	2m	5m	10m	20m
f=2.8mm				
f=3.5mm				
f=8mm				
f=30mm				
f=50mm				



DEPTH OF FIELD

The depth of field refers to the area within the field of view which is in focus. A large depth of field means that a large percentage of the field of view is in focus. A small depth of field has only a small section of the field of view in focus. The depth of field is influenced by several factors; a wide angle lens generally has a larger depth of field than a telephoto lens, a higher F stop setting also has a larger depth of field, and high resolution cameras have a larger depth of field.



AUTO OR MANUAL IRIS

Generally we tend to use auto iris lenses externally where there are variations in the lighting levels, manual iris lenses are normally for internal applications where the light level remains constant. With the introduction of electronic iris cameras it is now possible to use manual iris lenses in varying light conditions and the camera will electronically compensate, however there are several considerations to this option; the setting of the F stop becomes critical, if the iris is opened fully to allow the camera to work at night, the depth of field will be very small and it may be more difficult to achieve sharp focus even during the day, the camera can maintain normal video levels but it cannot affect the depth of field. If the iris is closed to increase the depth of field the low light performance of the camera will now be reduced.

VIDEO DRIVE OR DC DRIVE

With auto iris lenses it is necessary to control the operation of the iris to maintain perfect picture levels, Video drive lenses contain amplifier circuit to convert the video signal from the camera into iris motor control. With DC drive lenses the camera must contain amplifier circuitry, the lens now only contains the galvanometric iris motor making it less expensive. The deciding factor depends on the auto iris output of the camera, most now have both types.

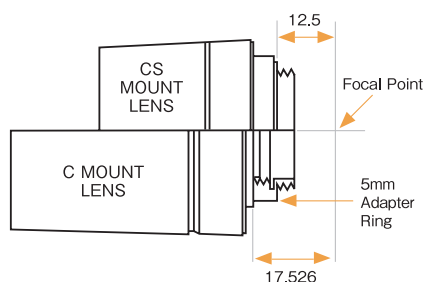
F STOP

The lens usually has two measurements of F stop or aperture, the maximum aperture (minimum F stop) when the lens is fully open and minimum aperture (maximum F stop) just before the lens completely closes. The F stop has a number of effects upon the final image; a low minimum F stop will mean the lens can pass more light in dark condition, allowing the camera to produce a better image, and a maximum F stop may be necessary where there is a very high level of light or reflection, this will prevent the camera "whiting out" and maintain constant video level. All auto iris lenses are supplied with Neutral Density filters to increase the maximum F stop. The F stop also directly affects the depth of field.

TECHNICAL INFORMATION

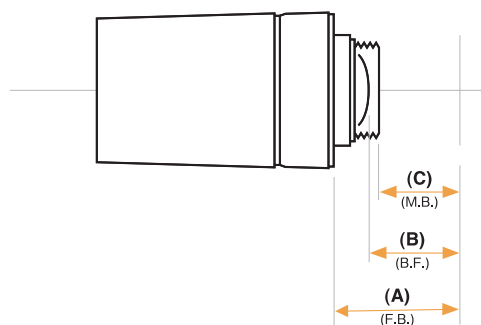
C OR CS MOUNT

Modern cameras and lenses are generally CS mount, with CS mount cameras both types of lenses can be used but the C mount lens requires a 5mm ring (VM400) to be fitted between the camera and lens to achieve a focused image. With C mount cameras it is not possible to use CS mount lenses as it not physically possible to get the lens close enough to the sensor to achieve a focused image.



	C mount lens	CS mount lens
C mount camera	○	×
CS mount camera	needs 5mm ring	○

FLANGE BACK, BACK FOCAL LENGTH, AND MECHANICAL BACK FOCAL LENGTH



(A) Flange Back

Distance between the lens flange and CCD focal plane

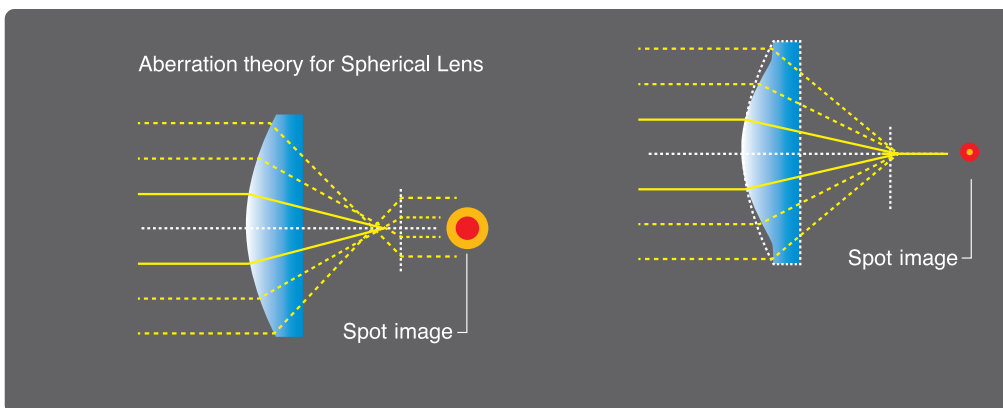
(B) Back Focal Length

Distance between the surface of the rear lens element and CCD focal plane

(C) Mechanical Back Focal Length

Distance between the surface of the lens frame and CCD focal plane

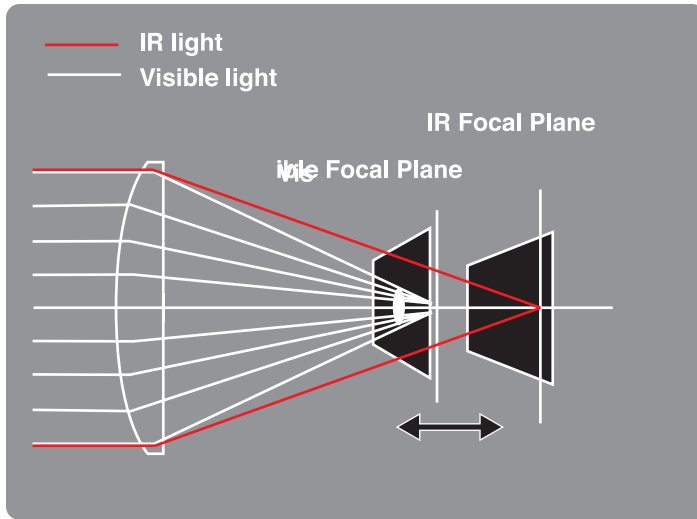
ASPHERICAL LENSES



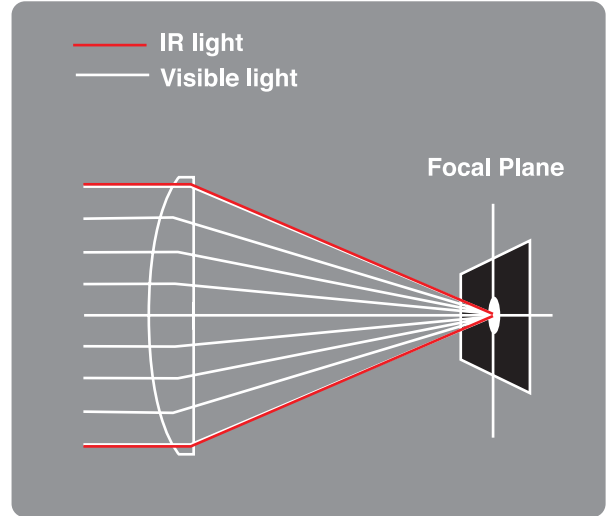
Aspherical lenses have constant refractive indices and are commonly used in almost all CCTV lenses. They are designed in such a way so that light passing through the glass and center of a spherical element should fall on a single point on the image plane, but causing some spherical aberration. This problem is resolved by the aspherical lens technology, enabling more light to pass through the element and to focus right on the same point as on the image plane. Supported by more advanced molding technologies, aspherical lenses eliminate the size constraints and improve the overall optical performance compared with more conventional CCTV lenses.

MECHANISM AND ADVANTAGEOUS EFFECT OF IR LENS

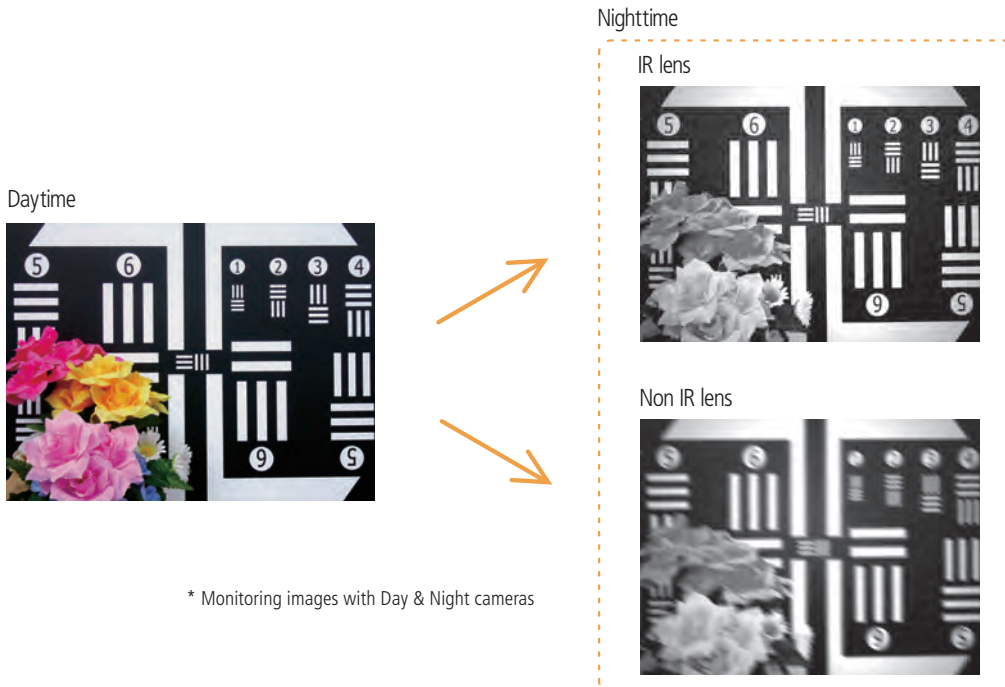
■ NON IR LENS



■ IR LENS



Day & Night cameras normally operate in the near-infrared / infrared zones at night, making the image "out of focus" and unsuitable if used with a conventional lens. Computar® has developed IR Lenses that utilize a special optical glass material which minimizes light dispersion. As a result, refocusing is not required when used with infrared lighting. The lens is manufactured with a special ED glass (extra dispersion) which does not widely disperse light of different wavelengths and with "special coating". This combination allows the lens to deliver perfect focus under normal lighting and also under IR illumination by transmitting more light to the infrared region.



* Monitoring images with Day & Night cameras

TECHNICAL INFORMATION

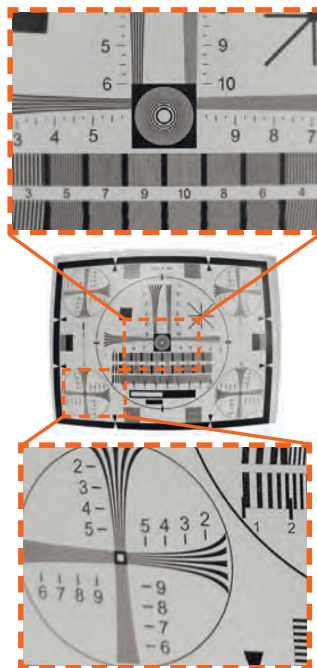
MEGAPIXEL

CCD and CMOS image sensors use a series of pixels arranged on a 2 dimensional grid. These pixels convert an optical image to an electronic signal. The number of pixels in an image usually defines the resolution, with more pixels meaning higher resolution. A megapixel is defined as one million pixels and a camera with a megapixel sensor is called a megapixel camera.

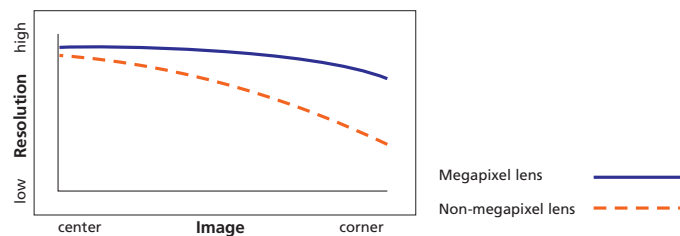
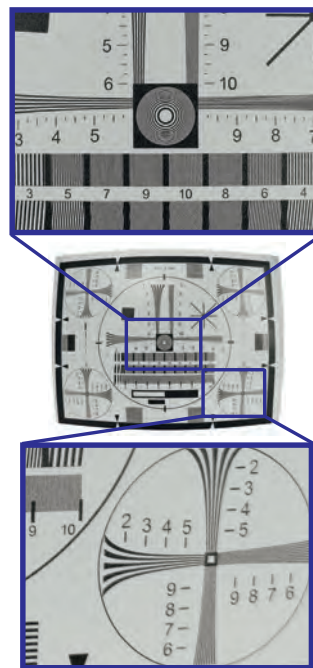
MEGAPIXEL LENS FOR MEGAPIXEL CAMERA

To capture the full resolution of a megapixel camera, it is essential to use a high quality megapixel lens. Overall image quality is heavily influenced by the quality of the optical image directed onto the image sensor. Megapixel lenses provide high contrast, brightness and sharpness across the entire image plane. Non-megapixel lenses will not fully display the resolution of megapixel sensors, especially in the corners of the image.

Non-megapixel lens with a megapixel camera



Megapixel lens with a megapixel camera



* Above pictures and chart are image of lens performance.

P-IRIS LENS TECHNOLOGY

Computar has launched the P-Iris (Precise iris) lens series specifically developed to deliver maximum performance of Megapixel IP cameras. The P-Iris automatically adjusts the iris setting and allows you to select best quality or best depth of field while delivering the highest sensitivity to suit your application. This innovative technology contains many exciting features and is a step up from conventional Fixed, Manual and Auto-iris lenses.

- Precise Iris control Improves image quality
- Optimizes resolution at both center and corner of image
- Optimizes depth of field and shutter speed



HOW P-IRIS WORKS

P-Iris is a new type of iris control that is both automatic and precise. The main function of DC auto-iris lens is to continuously adjust the iris based on lighting conditions. The P-Iris control optimizes the image quality by enabling the best iris position to be set based on multiple factors. The precise digital iris control enables the cameras software to communicate with the lens allowing it to set the F-Stop where the lens performs optimally. At the same time, the P-Iris camera software electronically adjusts the gain (amplification of the signal level) based on the F-Stop, eliminating the need for a neutral density filter and maintaining the optimal iris position for as long as possible. The result is improved image contrast, resolution and depth of field. With the P-Iris feature you may select or prioritize the best iris mode suitable for your application. You may choose Best Quality or Best Depth of field.

BEST QUALITY

In normal situations, the selected iris position and a camera's electronic processing capabilities adjust the exposure based on lighting conditions. Megapixel cameras with the P-Iris technology automatically instruct the iris to move to a different position. In dark conditions, the iris will fully open. In bright conditions the P-Iris camera will limit the closing of the iris to a position that avoids diffraction or blurring. Megapixel cameras with the P-iris system are also able to minimize the difference in resolution between the center and corners of the image, enhancing overall picture quality and sharpness.

BEST DEPTH OF FIELD

Depth of field refers to the distance in front of and beyond the point of focus where objects appear to be sharp simultaneously. A wide iris opening reduces depth of field while a smaller opening increases it. Having good depth of field throughout the scene is essential to achieve optimized image quality. Typically, megapixel sensors have smaller pixels that can result in a narrow depth of field. The P-iris added to megapixel camera will optimize the available depth of field, providing overall sharper images and enhancing foreground and background resolution. The technology is particularly useful in scenes where foreground and background resolution is critical, as in a long corridor.

WIDE RANGE OF BOARD AND CS MOUNT OPTIONS

P-Iris technology is available on on select models of Ganz PixelPro dome and bullet cameras. Computar also offers a wide range of P-iris CS mount lenses. Each P-iris CS mount lens has a special 4-pin connector on its cable. To protect the cameras from damage, P-iris connector plugs are designed not to fit regular cameras.



ANGLE OF VIEW

MONO FOCAL MANUAL IRIS C-MOUNT / CS-MOUNT

P9-10

	Model No.	Format	Mount	Focal Length (mm)	Aperture (F)	Angle of View (HORIZONTAL)				UNIT: (°)
		inch				2/3"	1/2"	1/3"	1/4"	
						(8.8x6.6mm)	(6.4x4.8mm)	(4.8x3.6mm)	(3.6x2.7mm)	
CS MOUNT	T2314FICS-3	1/3	CS	2.3	1.4-16C	-	-	113.3	86.3	
	T2616FICS-4	1/3	CS	2.6	1.6-11C	-	-	99.6	74.9	
	T0412FICS-3	1/3	CS	4	1.2-16C	-	-	63.9	49.1	
	T0812FICS-3	1/3	CS	8	1.2-16C	-	-	34.7	25.9	
	H1214FICS-3	1/2	CS	12	1.4-16C	-	30.4	22.8	17.0	
C MOUNT	M8513	2/3	C	8.5	1.3-16C	57.4	42.6	32.2	24.2	

MONO FOCAL AUTO IRIS DC DRIVE / VIDEO DRIVE

P10-11

	Model No.	Format	Mount	Focal Length (mm)	Aperture (F)	Angle of View (HORIZONTAL)				UNIT: (°)
		inch				2/3"	1/2"	1/3"	1/4"	
						(8.8x6.6mm)	(6.4x4.8mm)	(4.8x3.6mm)	(3.6x2.7mm)	
DC DRIVE	TG2314FCS-3	1/3	CS	2.3	1.4-360C	-	-	113.3	86.3	
	TG2616FCS-4	1/3	CS	2.6	1.6-360C	-	-	99.6	74.9	
	TG0412FCS-3	1/3	CS	4	1.2-360C	-	-	63.9	49.1	
	TG0812FCS-3	1/3	CS	8	1.2-360C	-	-	34.7	25.9	
	HG1214FCS-3	1/2	CS	12	1.4-360C	-	30.4	22.8	17.0	
VIDEO DRIVE	TG2314AFCS-3	1/3	CS	2.3	1.4-360C	-	-	113.3	86.3	
	TG2616AFCS-4	1/3	CS	2.6	1.6-360C	-	-	99.6	74.9	
	HG1214AFCS-3	1/2	CS	12	1.4-360C	-	30.4	22.8	17.0	

VARIFOCAI MANUAL IRIS

P12-14

	Model No.	Format	Mount	Focal Length (mm)	Aperture (F)	Angle of View (HORIZONTAL)				UNIT: (°)
		inch				2/3"	1/2"	1/3"	1/4"	
						(8.8x6.6mm)	(6.4x4.8mm)	(4.8x3.6mm)	(3.6x2.7mm)	
MANUAL IRIS	T2Z1816CS	1/3	CS	1.8-3.6	1.6-16C	-	-	144.2-79.4	109.5-59.6	
	T3Z2910CS	1/3	CS	2.9-8.2	1.0-16C	-	-	98.3-35.2	70.7-26.3	
	T3Z2910CS-IR	1/3	CS	2.9-8.2	1.0-16C	-	-	95.0-35.6	69.0-26.7	
	T3Z3510CS	1/3	CS	3.5-10.5	1.0-16C	-	-	81.6-27.2	59.4-20.4	
	T3Z3510CS-IR	1/3	CS	3.5-10.5	1.0-16C	-	-	81.8-27.2	59.2-20.4	
	T4Z2813CS-IR	1/3	CS	2.8-12	1.3-16C	-	-	102.2-23.7	74.2-17.8	
	T10Z0513CS-3	1/3	CS	5-50	1.3-16C	-	-	51.8-5.6	39.2-4.3	
	T5Z8513CS-IR	1/3	CS	8.5-40	1.3-16C	-	-	33.5-7.1	24.4-5.3	
	H2Z4516CS-2	1/2	CS	4.5-10	1.6-16C	-	81.3-38.2	60.4-28.7	33.6-16.1	
	H3Z4512CS-IR	1/2	CS	4.5-12.5	1.2-16C	-	83.7-30.1	61.3-22.6	45.3-17.0	
	H3Z1014CS	1/2	CS	10-30	1.4-16C	-	35.8-12.5	26.8-9.4	20.1-7.0	

ANGLE OF VIEW



VARIFOCAL AUTO IRIS DC DRIVE / VIDEO DRIVE

P15-20

	Model No.	Format	Mount	Focal Length (mm)	Aperture (F)	Angle of View (HORIZONTAL) UNIT: (°)			
		inch				2/3" (8.8x6.6mm)	1/2" (6.4x4.8mm)	1/3" (4.8x3.6mm)	1/4" (3.6x2.7mm)
DC DRIVE	TG2Z1816FCS	1/3	CS	1.8-3.6	1.6-360C	-	-	144.2-79.4	109.5-59.6
	TG3Z2312FCS	1/3	CS	2.3-6	1.2-360	-	-	114.8-48.2	86.0-36.1
	TG3Z2910FCS	1/3	CS	2.9-8.2	1.0-360C	-	-	98.3-35.2	70.7-26.3
	TG3Z2910FCS-IR	1/3	CS	2.9-8.2	1.0-360C	-	-	95.0-35.6	69.0-26.7
	TG3Z3510FCS	1/3	CS	3.5-10.5	1.0-360	-	-	81.6-27.2	59.4-20.4
	TG3Z3510FCS-IR	1/3	CS	3.5-10.5	1.0-360	-	-	81.8-27.2	59.2-20.4
	TG4Z2813FCS-IR	1/3	CS	2.8-12	1.3-360	-	-	102.2-23.7	74.2-17.8
	TG10Z0513FCS-3	1/3	CS	5-50	1.3-360C	-	-	51.8-5.6	39.2-4.3
	TG5Z8513FCS-IR	1/3	CS	8.5-40	1.3-360C	-	-	33.5-7.1	24.4-5.3
	HG2Z4516FCS-2	1/2	CS	4.5-10	1.6-360C	-	81.3-38.2	60.4-28.7	33.6-16.1
	HG3Z4512FCS-IR	1/2	CS	4.5-12.5	1.2-360	-	83.7-30.1	61.3-22.6	45.3-17.0
HG3Z1014FCS	1/2	CS	10-30	1.4-360C	-	35.8-12.5	26.8-9.4	20.1-7.0	
VIDEO DRIVE	TG2Z1816AFCS	1/3	CS	1.8-3.6	1.6-360C	-	-	144.2-79.4	109.5-59.6
	TG3Z2910AFCS	1/3	CS	2.9-8.2	1.0-360C	-	-	98.3-35.2	70.7-26.3
	TG3Z2910AFCS-IR	1/3	CS	2.9-8.2	1.0-360C	-	-	95.0-35.6	69.0-26.7
	TG3Z3510AFCS	1/3	CS	3.5-10.5	1.0-360	-	-	81.6-27.2	59.4-20.4
	TG3Z3510AFCS-IR	1/3	CS	3.5-10.5	1.0-360	-	-	81.8-27.2	59.2-20.4
	TG4Z2813AFCS-IR	1/3	CS	2.8-12	1.3-36	-	-	102.2-23.7	74.2-17.8
	TG10Z0513AFCS-3	1/3	CS	5-50	1.3-360C	-	-	51.8-5.6	39.2-4.3
	TG5Z8513AFCS-IR	1/3	CS	8.5-40	1.3-360C	-	-	33.5-7.1	24.4-5.3
	HG2Z4516AFCS-2	1/2	CS	4.5-10	1.6-360C	-	81.3-38.2	60.4-28.7	33.6-16.1
	HG3Z4512AFCS-IR	1/2	CS	4.5-12.5	1.2-360	-	83.7-30.1	61.3-22.6	45.3-17.0
	HG3Z1014AFCS	1/2	CS	10-30	1.4-360C	-	35.8-12.5	26.8-9.4	20.1-7.0

MANUAL ZOOM MANUAL IRIS

P21

	Model No.	Format	Mount	Focal Length (mm)	Aperture (F)	Angle of View (HORIZONTAL) UNIT: (°)			
		inch				2/3" (8.8x6.6mm)	1/2" (6.4x4.8mm)	1/3" (4.8x3.6mm)	1/4" (3.6x2.7mm)
MANUAL IRIS	H6Z0812	1/2	C	8-48	1.2-16C	-	44.6-8.0	33.5-6.1	25.2-4.6
	M6Z1212-3S	2/3	C	12.5-75	1.2-16C	38.3-6.7	28.3-5.0	21.3-3.8	16.0-2.8

MANUAL ZOOM WITH AUTO IRIS DC DRIVE/VIDEO DRIVE

P22

	Model No.	Format	Mount	Focal Length (mm)	Aperture (F)	Angle of View (HORIZONTAL) UNIT: (°)			
		inch				2/3" (8.8x6.6mm)	1/2" (6.4x4.8mm)	1/3" (4.8x3.6mm)	1/4" (3.6x2.7mm)
DC DRIVE	T6Z5710AIDC-CS	1/3	CS	5.7-34.2	1.0-360C	-	-	45.9-8.1	34.8-6.2
	H6Z0812AIDC	1/2	C	8-48	1.2-560C	-	44.6-8.0	33.5-6.1	25.2-4.6
VIDEO DRIVE	T6Z5710AIVD-CS	1/3	CS	5.7-34.2	1.0-360C	-	-	45.9-8.1	34.8-6.2
	H6Z0812AIVD	1/2	C	8-48	1.2-560C	-	44.6-8.0	33.5-6.1	25.2-4.6



ANGLE OF VIEW

MOTORIZED ZOOM

1/3" 1/2"

P23-34

	Model No.	Format	Mount	Focal Length (mm)	Aperture (F)	Angle of View (HORIZONTAL) UNIT: (°)			
		inch				2/3" (8.8x6.6mm)	1/2" (6.4x4.8mm)	1/3" (4.8x3.6mm)	1/4" (3.6x2.7mm)
1/3"	T6Z5710 series	1/3	CS	5.7-34.2	1.0 ~	-	-	45.9-8.1	34.8-6.2
	T10Z5712 series	1/3	CS	5.7-57	1.2 ~	-	-	44.6-4.8	34.2-3.7
	T21Z5816 series	1/3	CS	5.8-121.8	1.6 ~	-	-	44.8-2.3	33.8-1.8
	T34Z5518 series	1/3	CS	5.5-187	1.8 ~	-	-	46.6-1.5	35.2-1.1
1/2"	H6Z0812 series	1/2	C	8-48	1.2 ~	-	44.6-8.0	33.5-6.1	25.2-4.6
	H10Z0812 series	1/2	C	8-80	1.2 ~	-	44.0-4.7	33.3-3.5	25.0-2.6
	H10Z1218 series	1/2	C	12-120	1.8 ~	-	29.4-3.1	22.2-2.3	16.7-1.7
	H16Z7516 series	1/2	C	7.5-120	1.6 ~	-	46.6-3.2	35.3-2.4	26.6-1.8
	H16Z7516-IR series	1/2	C	7.5-120	1.6 ~	-	47.0-3.1	35.4-2.4	26.6-1.7
	H30Z1015 series	1/2	C	10-300	1.5 ~	-	35.5-1.25	26.8-0.94	20.1-0.71
	H60Z1238 series	1/2	C	12.5-750	3.8 ~	-	28.7-0.48	21.7-0.37	16.4-0.28
H6Z21235 series (MP)	1/2	C	12.5-775	3.5 ~	-	28.77-0.47	21.8-0.35	16.41-0.26	

PINHOLE MANUAL IRIS / DC DRIVE / VIDEO DRIVE

P35

	Model No.	Format	Mount	Focal Length (mm)	Aperture (F)	Angle of View (HORIZONTAL) UNIT: (°)			
		inch				2/3" (8.8x6.6mm)	1/2" (6.4x4.8mm)	1/3" (4.8x3.6mm)	1/4" (3.6x2.7mm)
MANUAL IRIS	T2625CS-P	1/3	CS	2.6	2.5-32C	-	-	83.2	67.5
DC DRIVE	TG2625FCS-P	1/3	CS	2.6	2.5-360C	-	-	83.2	67.5
VIDEO DRIVE	TG2625AFCS-P	1/3	CS	2.6	2.5-360C	-	-	83.2	67.5

MEGAPIXEL VARIFOVAL SECURITY

P37

	Model No.	Format	Mount	Focal Length (mm)	Aperture (F)	Angle of View (HORIZONTAL) UNIT: (°)			
		inch				2/3" (8.8x6.6mm)	1/2" (6.4x4.8mm)	1/3" (4.8x3.6mm)	1/4" (3.6x2.7mm)
1/3" ~ 2/3"	TG4Z2816FCS-MPIR	1/3	CS	2.8-12	1.6-360	-	-	102.2-23.7	74.2-17.8
	H2Z0414C-MP	1/2	C	4-8	1.4-16C	-	90.4-47.0	67.0-35.3	50.0-26.5
	HG2Z0414FC-MP	1/2	C	4-8	1.4-360	-	90.4-47.0	67.0-35.3	50.0-26.5
	M3Z1228C-MP	2/3	C	12-36	2.8-16C	41.0-13.6	30.2-10.0	22.8-7.6	17.1-5.7
	MG3Z1228FC-MP	2/3	C	12-36	2.8-360	41.0-13.6	30.2-10.0	22.8-7.6	17.1-5.7

3 MEGAPIXEL VARIFOVAL SECURITY

P38-40

	Model No.	Format	Mount	Focal Length (mm)	Aperture (F)	Angle of View (HORIZONTAL) UNIT: (°)				
		inch				1/2" (4:3)	1/2.7" (16:9)	1/2.7" (4:3)	1/3" (4:3)	1/4" (4:3)
MANUAL IRIS	T3Z0312CS-MPIR	1/3	CS	3-8	1.2-16C	-	-	-	90.7-35.2	84.8-33
	A3Z3112CS-MPIR	1/2.7	CS	3.1-8	1.2-16C	-	105.4-42.2	95.9-38.7	86.7-35.2	-
	A4Z1214CS-MPIR	1/2.7	CS	12.5-50	1.4-16C	-	26.3-6.7	24.0-6.2	21.7-5.6	-
	H3Z4518CS-MPIR	1/2	CS	4.5-13.2	1.8-16C	80.0-28.6	-	-	60.0-21.5	-
	H5Z2518C-MP	1/2	C	25-135	1.8-16C	14.5-2.8	-	-	10.8-2.1	-
DC IRIS	TG3Z0312FCS-MPIR	1/3	CS	3-8	1.2-360C	-	-	-	90.7-35.2	84.8-33
	AG3Z3112FCS-MPIR	1/2.7	CS	3.1-8	1.2-360C	-	105.4-42.2	95.9-38.7	86.7-35.2	-
	AG4Z1214FCS-MPIR	1/2.7	CS	12.5-50	1.4-360C	-	26.3-6.7	24.0-6.2	21.7-5.6	-
	HG5Z2518FC-MP	1/2	C	25-135	1.8-360C	14.5-2.8	-	-	10.8-2.1	-
P-IRIS	TG3Z0312KCS-MPIR	1/3	CS	3-8	1.2-16C	-	-	-	90.7-35.2	84.8-33
	AG3Z3112KCS-MPIR	1/2.7	CS	3.1-8	1.2-16C	-	105.4-42.2	95.9-38.7	86.7-35.2	-
	AG4Z1214KCS-MPIR	1/2.7	CS	12.5-50	1.4-16C	-	26.3-6.7	24.0-6.2	21.7-5.6	-

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ANGLE OF VIEW

MEGAPIXEL MONOFOCAL SECURITY / ITS / FA- IMAGE PROCESSING

P41-43

	Model No.	Format	Mount	Focal Length (mm)	Aperture (F)	Angle of View (HORIZONTAL) UNIT: (°)			
		inch				2/3" (8.8x6.6mm)	1/2" (6.4x4.8mm)	1/3" (4.8x3.6mm)	1/4" (3.6x2.7mm)
MEGAPIXEL	H0514-MP2	1/2	C	5	1.4-16C	-	65.5	51.4	39.5
	M0814-MP2	2/3	C	8	1.4-16C	56.3	42.5	32.4	24.6
	M1214-MP2	2/3	C	12	1.4-16C	40.4	30.0	22.7	17.1
	M1614-MP2	2/3	C	16	1.4-16C	30.8	22.7	17.1	12.6
	M2514-MP2	2/3	C	25	1.4-16C	20.0	14.6	11.0	8.2
	M3514-MP	2/3	C	35	1.4-16C	13.9	10.1	7.6	5.7
	M5018-MP2	2/3	C	50	1.8-16C	10.5	7.6	5.7	4.3
	M7528-MP	2/3	C	75	2.8-16C	6.8	5.0	3.7	2.8
3 MEGAPIXEL	M1620-MPV	2/3	C	16	2.0-16	30.7	22.6	17.1	12.8
	M2518-MPV	2/3	C	25	1.8-16	19.9	14.5	10.9	8.2
	M3520-MPV	2/3	C	35	2.0-22	14.3	10.4	7.8	5.9
	M5028-MPV	2/3	C	50	2.8-32	10.0	7.3	5.5	4.1
5 MEGAPIXEL	M2518-MPW	2/3	C	25	1.8-16	20.5	15	11.3	8.5

OTHERS SECURITY / FA - IMAGE PROCESSING

P44

	Model No.	Format	Mount	Focal Length (mm)	Aperture (F)	Angle of View (HORIZONTAL) UNIT: (°)			
		inch				1.1"	1"	2/3"	1/2"
SD	TEC-55	2/3	C	55	2.8-32C	-	-	9.2	6.7
	MLH-10X	1/2	C	*0.084-0.84X	5.6-32C	-	-	-	18.0-3.6
MEGAPIXEL	MLM-3XMP	2/3	C	*0.3X-1.0X	4.5-22C	-	-	11.8-1.2	8.6-0.9
	TEC-V7X	1.1	C	*0.07-0.5X	4.3-32	7.05-1.12	7.28-1.25	5.05-0.89	-

* Mark (MLH-10X, MLM-3XMP, TEC-V7X) shows maximum magnification.

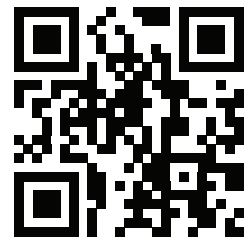
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