CBC GROUP

CCTV LENS

PRODUCT GUIDE

computar®

computar

The World Standard for Industrial Lenses.

At CBC, we have set the world standard for industrial 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 CCTV lenses, CBC and the Computar brand have grown along with the demands of the world market.

Computar CCTV lenses were introduced in the U.S.A. during the mid 1970s and have continued to meet security challenges globally for more than 40 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 industrial 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.

CONTENTS

computar

FEATURE INDICATION

Lens type

FIX	Fixed Focal	Fixed focal length, very simple and compact design
VARI	Vari-Focal	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 objects
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

SWIR / LWIR

SWIR	Short-wavelength IR	Designed for SWIR (800-1700nm) range
LWIR	Long-wavelength IR	Designed for LWIR (8-12μm) range
Athermal	Athermal	Athermalized lens which maintains focus position over wide change of the environmental temperature
17μm	17μm pitch Sensor	Thermal lens which can be used with 17μm pitch sensor

MODEL NAME CODING RULE

Manual Iris / Auto Iris(DC&Video) / Vari-Focal Manual Iris / Vari-Focal Auto Iris (DC & Video)

	①	②	③	④	⑤	⑥	⑦	⑧
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 Sensor Size	T	1/3 inch
	A	1/2.7 inch
	H	1/2 inch
	E	1/1.8 inch
	M	2/3 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	**I**nfra**R**ed Lens (Day & Night)
	MP	Megapixel
	P	Pinhole

Manual Zoom

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

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

Motorized Zoom

	①	③	④	⑤	⑪	⑦	⑧	⑪
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

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
	EX	2X extender

※ This rule does not apply to some products

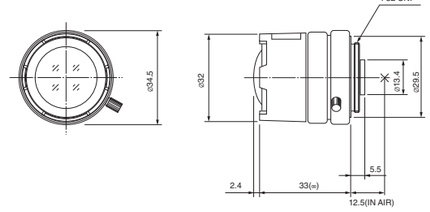
MANUAL IRIS

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 (ΦxD),(ΦxHxD) or (WxHxD)mm	ϕ34.5×35.4
Weight (g)	43

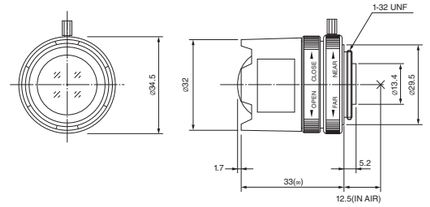
Dimensions unit:mm



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 (ΦxD),(ΦxHxD) or (WxHxD)mm	ϕ34.5×34.7
Weight (g)	45

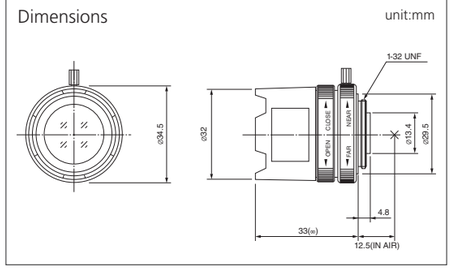
Dimensions unit:mm



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 (ΦxD),(ΦxHxD) or (WxHxD)mm	ϕ34.5×33
Weight (g)	36

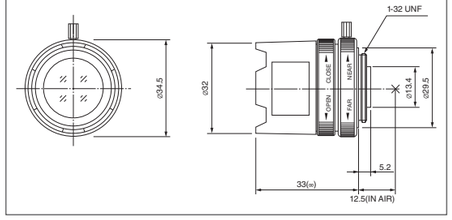
Dimensions unit:mm



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 (ΦxD),(ΦxHxD) or (WxHxD)mm	ϕ34.5×33
Weight (g)	37

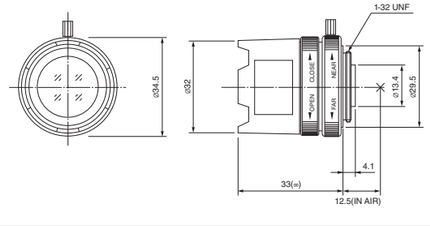
Dimensions unit:mm



FIX
MANUAL
IR

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 (ΦxD),(ΦxHxD) or (WxHxD)mm	ϕ34.5×33
Weight (g)	33

Dimensions unit:mm



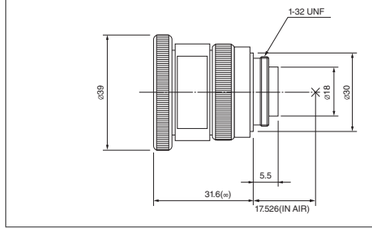
MANUAL IRIS

C-MOUNT

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 (ΦxD),(ΦxHxD) or (WxHxD)mm	ϕ39×31.6
Weight (g)	50

Dimensions unit:mm



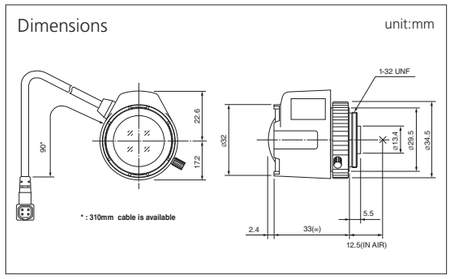
AUTO IRIS

DC DRIVE / VIDEO DRIVE

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 (ΦxD),(ΦxHxD) or (WxHxD)mm	ϕ32×39.8×35.4
Weight (g)	45

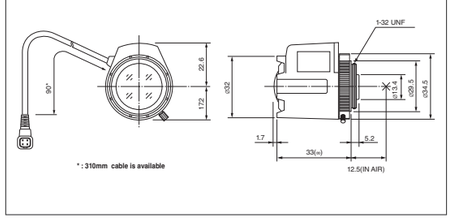
Dimensions unit:mm



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 (ΦxD),(ΦxHxD) or (WxHxD)mm	ϕ32×39.8×34.7
Weight (g)	47

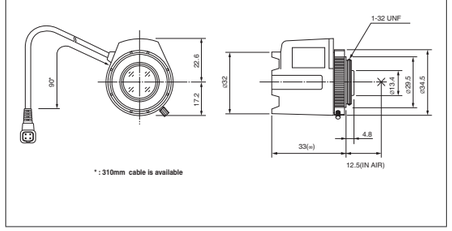
Dimensions unit:mm



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 (ΦxD),(ΦxHxD) or (WxHxD)mm	ϕ32×39.8×33
Weight (g)	38

Dimensions unit:mm



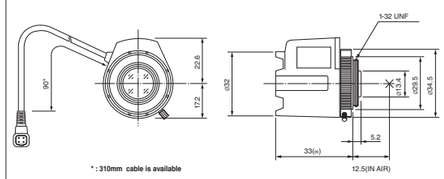
AUTO IRIS

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 (ϕxD),(ϕxHxD) or (WxHxD)mm	ϕ32×39.8×33
Weight (g)	39

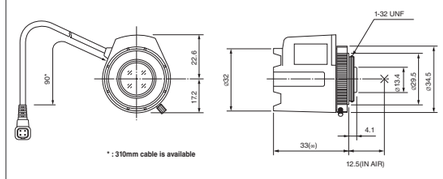
Dimensions unit:mm



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 (ϕxD),(ϕxHxD) or (WxHxD)mm	ϕ32×39.8×33
Weight (g)	35

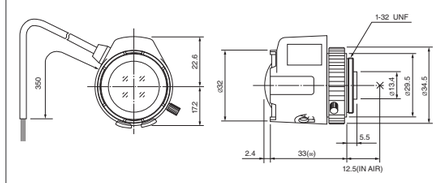
Dimensions unit:mm



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 (ϕxD),(ϕxHxD) or (WxHxD)mm	ϕ32×39.8×35.4
Weight (g)	48

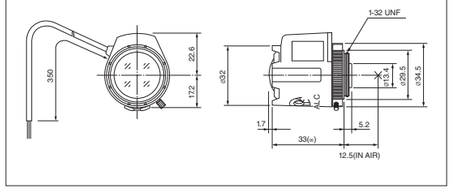
Dimensions unit:mm



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 (ϕxD),(ϕxHxD) or (WxHxD)mm	ϕ32×39.8×34.7
Weight (g)	50

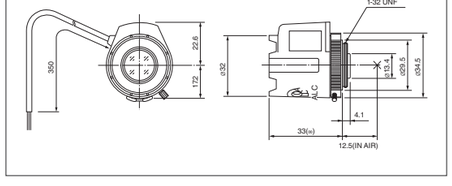
Dimensions unit:mm



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 (ϕxD),(ϕxHxD) or (WxHxD)mm	ϕ32×39.8×33
Weight (g)	39

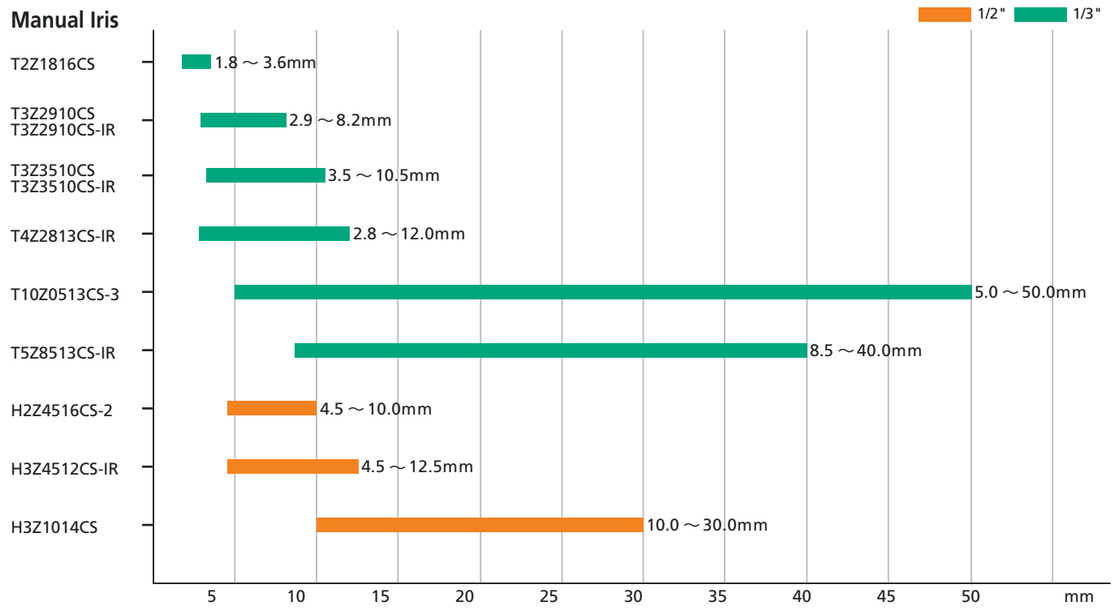
Dimensions unit:mm



VARI-FOCAL

MANUAL IRIS

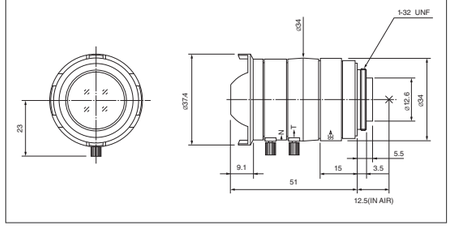
Vari-Focal Lens Comparison



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 (WxHxD)mm	ϕ37.4×51
Weight (g)	68

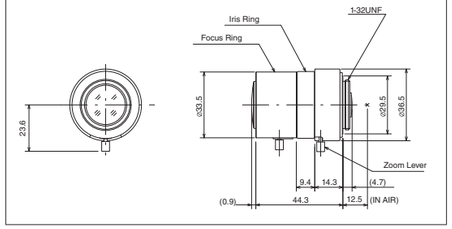
Dimensions unit:mm



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 (WxHxD)mm	ϕ36.5×44.3
Weight (g)	41

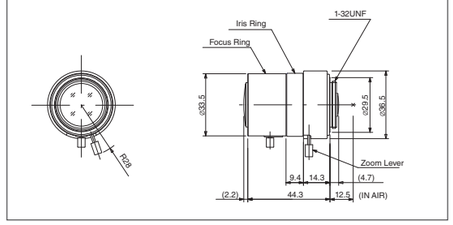
Dimensions unit:mm



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

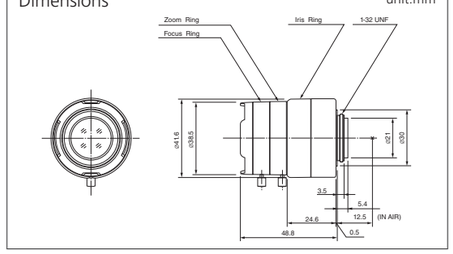
Dimensions unit:mm



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

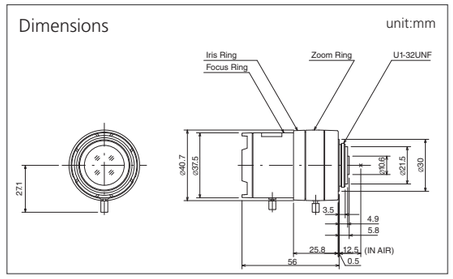
MODEL NO.	T3Z3510CS-IR
Format (")	1/3
Mount	CS
Focal Length (mm)	3.5-10.5
Aperture (F)	1.0-16C
Angle of View (HOR)°	81.8-27.2
M.O.D. (m)	0.3
Effective Aperture Front (ϕmm)	18.6
Rear (ϕmm)	10.2
Front Filter Thread (ϕMxP=)	-
Dimensions (ΦxD),(ΦxHxD) or (WxHxD)mm	ϕ41.6×48.8
Weight (g)	63

Dimensions unit:mm

VARI MANUAL F1.0 ASP IR

MODEL NO.	T4Z2813CS-IR-2
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

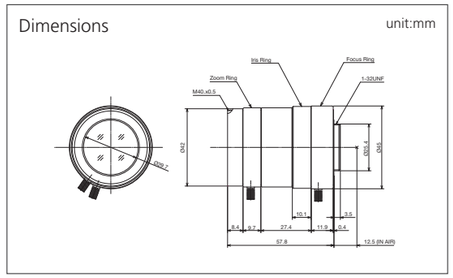
Dimensions unit:mm



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

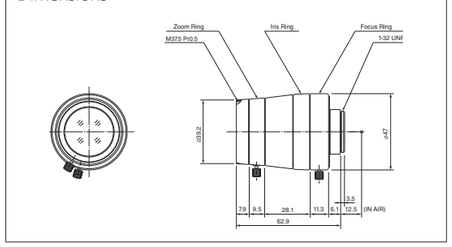
Dimensions unit:mm



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 (ϕMxP=)	37.5×0.5
Dimensions (ΦxD),(ΦxHxD) or (WxHxD)mm	ϕ47.0×62.9
Weight (g)	126

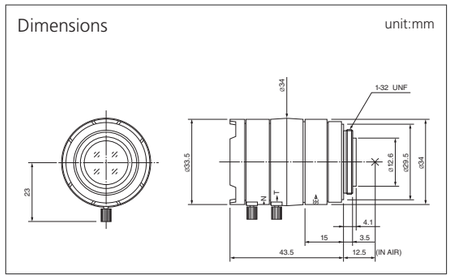
Dimensions unit:mm



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 (ϕMxP=)	-
Dimensions (ΦxD),(ΦxHxD) or (WxHxD)mm	ϕ34×43.5
Weight (g)	40

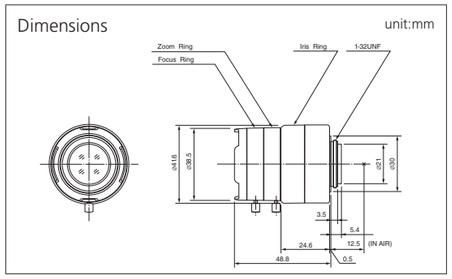
Dimensions unit:mm



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 (ϕMxP=)	-
Dimensions (ΦxD),(ΦxHxD) or (WxHxD)mm	ϕ41.6×48.8
Weight (g)	66

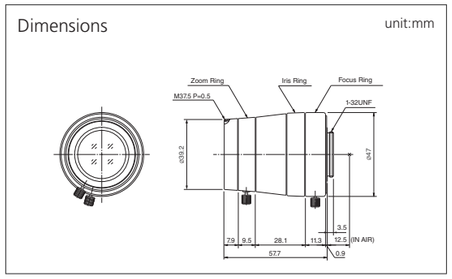
Dimensions unit:mm



VARI MANUAL TELE ASP IR

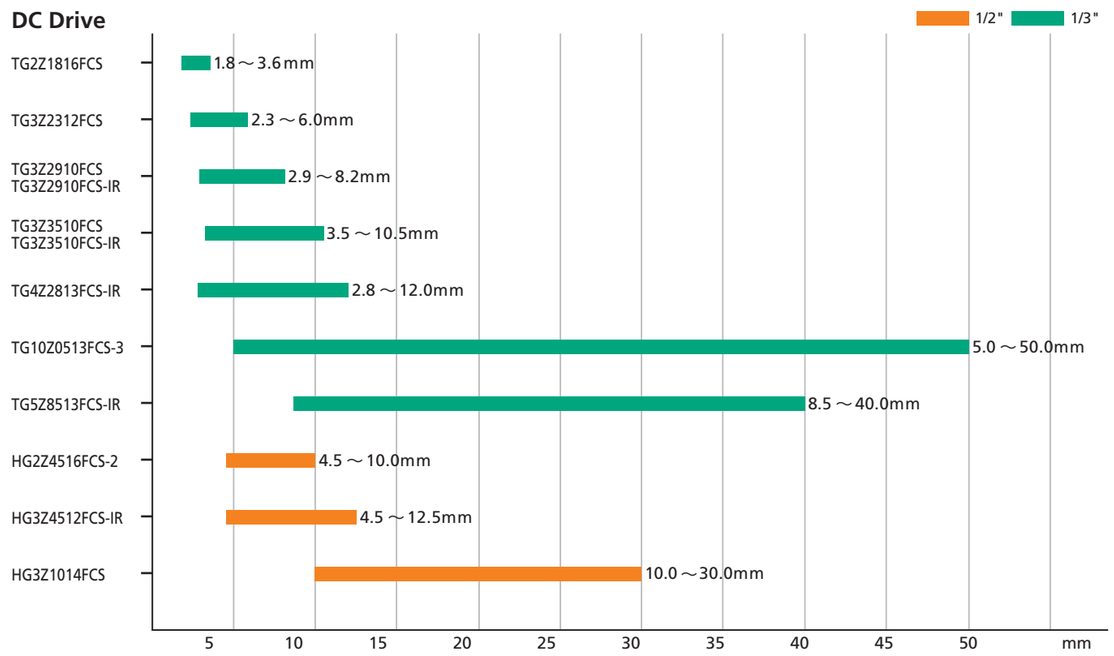
MODEL NO.	H3Z1014CS
Format (")	1/2
Mount	CS
Focal Length (mm)	10-30
Aperture (F)	1.4-16C
Angle of View (HOR)°	35.8-12.5
M.O.D. (m)	0.6
Effective Aperture Front (ϕmm)	26.6
Rear (ϕmm)	9.0
Front Filter Thread (ϕMxP=)	37.5×0.5
Dimensions (ΦxD),(ΦxHxD) or (WxHxD)mm	ϕ47×57.7
Weight (g)	125

Dimensions unit:mm



※ HG3Z1014 Series 1/2type lenses have no focus shift with or without IR lighting only when used with 1/2type cameras. If these lenses are used with 1/3type cameras, some focus shift may occur with IR lighting.

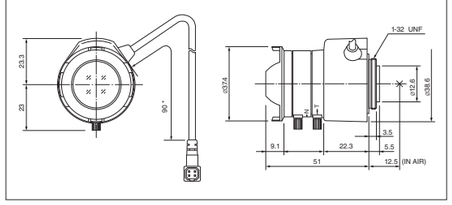
Vari-Focal Lens Comparison



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 (ΦxD),(ΦxHxD) or (WxHxD)mm	ϕ37.4×42.6×51
Weight (g)	78

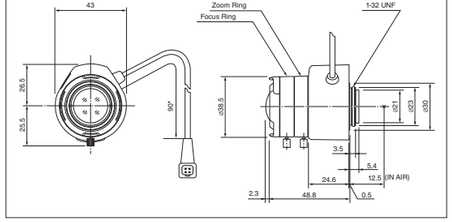
Dimensions unit:mm



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 (ΦxD),(ΦxHxD) or (WxHxD)mm	ϕ38.5×48×51.1
Weight (g)	76

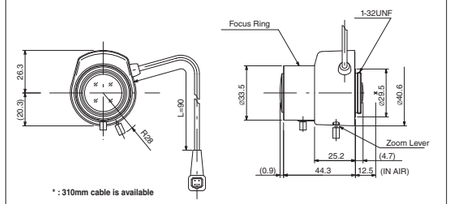
Dimensions unit:mm



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 (ΦxD),(ΦxHxD) or (WxHxD)mm	ϕ33.5×46.6×44.3
Weight (g)	47

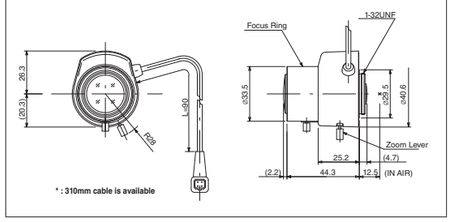
Dimensions unit:mm



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 (ΦxD),(ΦxHxD) or (WxHxD)mm	ϕ33.5×46.6×44.3
Weight (g)	50

Dimensions unit:mm



VARI
DC
F1.0
ASP

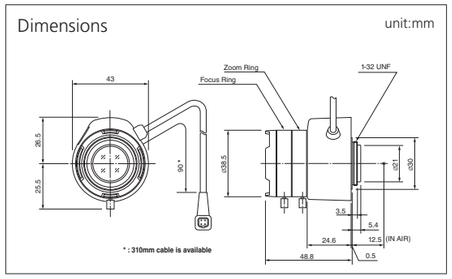
MODEL NO.	TG3Z3510FCS
Format (")	1/3
Mount	CS
Focal Length (mm)	3.5-10.5
Aperture (F)	1.0-360
Angle of View (HOR)°	81.6-27.2
M.O.D. (m)	0.3
Effective Aperture Front (ϕmm)	18.5
Rear (ϕmm)	10.1
Front Filter Thread (ϕMxP=)	-
Dimensions (ΦxD),(ΦxHxD) or (WxHxD)mm	ϕ38.5×48×48.8
Weight (g)	65

Dimensions unit:mm

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 (ΦxD),(ΦxHxD) or (WxHxD)mm	ϕ38.5×48×48.8
Weight (g)	65

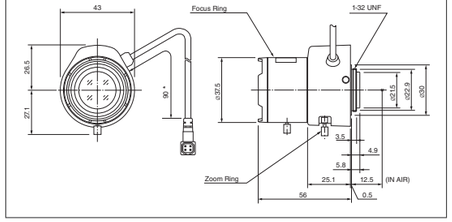
Dimensions unit:mm



VARI
DC
ASP
IR

MODEL NO.	TG4Z2813FCS-IR-2
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 (ΦxD),(ΦxHxD) or (WxHxD)mm	ϕ37.5×48×56
Weight (g)	71

Dimensions unit:mm



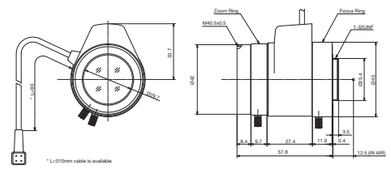
VARI-FOCAL

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 (ϕxD),(ϕxHxD) or (WxHxD)mm	ϕ45×56.2×57.8
Weight (g)	100

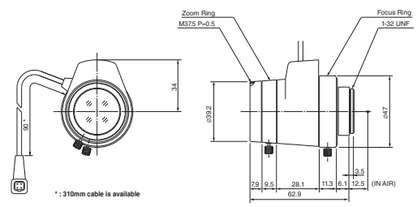
Dimensions unit:mm



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 (ϕxD),(ϕxHxD) or (WxHxD)mm	ϕ41.7×57.5×62.9
Weight (g)	114

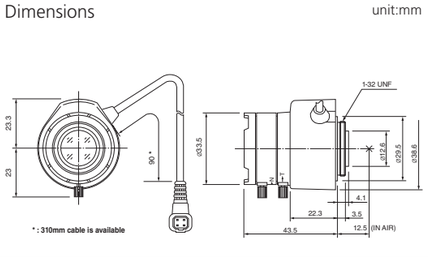
Dimensions unit:mm



VARI DC TELE ASP 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 (ϕxD),(ϕxHxD) or (WxHxD)mm	ϕ33.5×42.6×43.5
Weight (g)	54

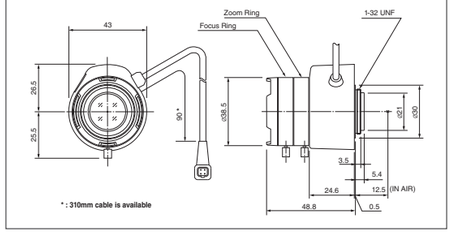
Dimensions unit:mm



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 (ϕxD),(ϕxHxD) or (WxHxD)mm	ϕ38.5×47.5×48.8
Weight (g)	68

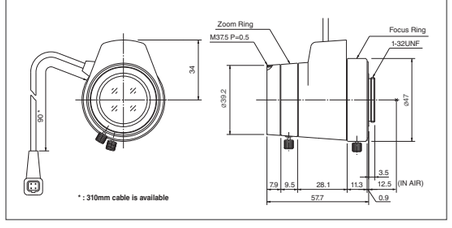
Dimensions unit:mm



VARI DC TELE ASP IR

MODEL NO.	HG3Z1014FCS
Format (")	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 (ϕxD),(ϕxHxD) or (WxHxD)mm	ϕ41.7×57.5×57.7
Weight (g)	120

Dimensions unit:mm

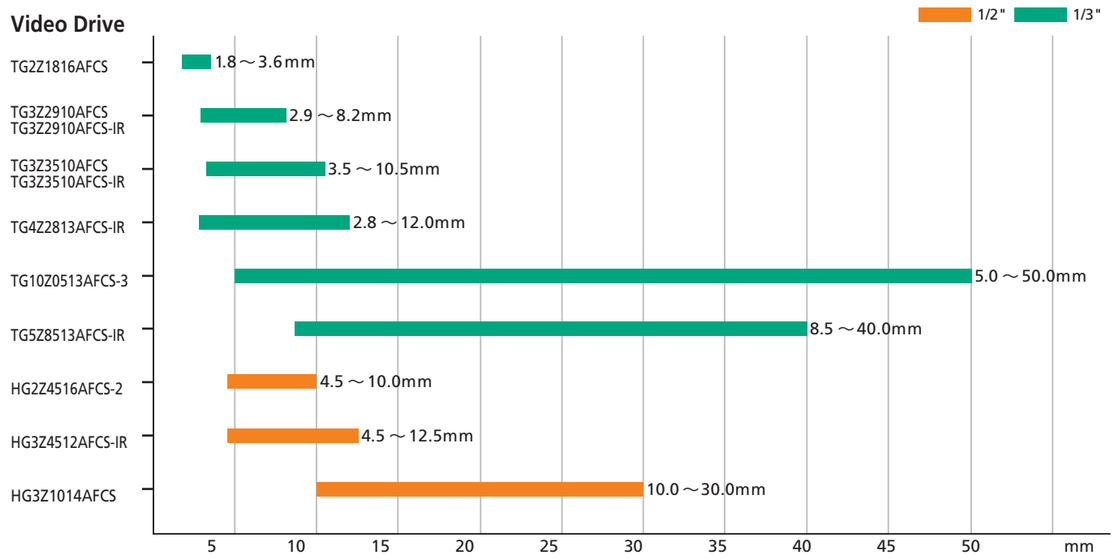


※ HG3Z1014 Series 1/2type lenses have no focus shift with or without IR lighting only when used with 1/2type cameras. If these lenses are used with 1/3type cameras, some focus shift may occur with IR lighting.

VARI-FOCAL

VIDEO DRIVE

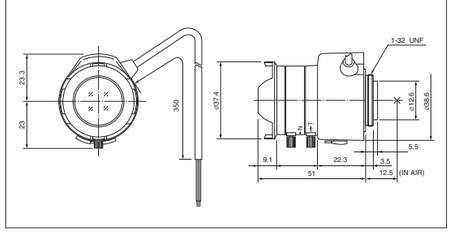
Vari-Focal Lens Comparison



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 (ϕxD),(ϕxHxD) or (WxHxD)mm	ϕ37.4×42.6×51
Weight (g)	83

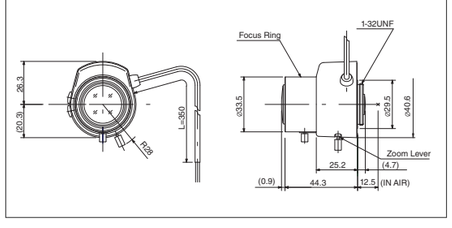
Dimensions unit:mm



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 (ϕxD),(ϕxHxD) or (WxHxD)mm	ϕ33.5×46.6×44.3
Weight (g)	51

Dimensions unit:mm



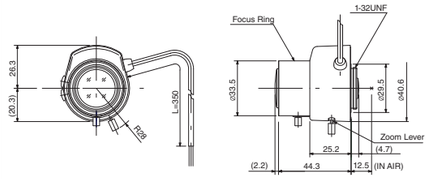
VARI-FOCAL

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 (ΦxD),(ΦxHxD) or (WxHxD)mm	ϕ33.5×46.6×44.3
Weight (g)	54

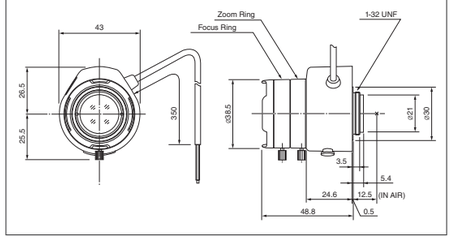
Dimensions unit:mm



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 (ΦxD),(ΦxHxD) or (WxHxD)mm	ϕ38.5×48×48.8
Weight (g)	70

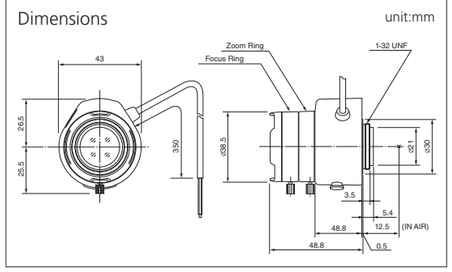
Dimensions unit:mm



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 (ΦxD),(ΦxHxD) or (WxHxD)mm	ϕ38.5×48×48.8
Weight (g)	70

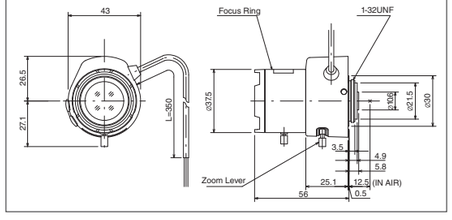
Dimensions unit:mm



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 (ΦxD),(ΦxHxD) or (WxHxD)mm	ϕ37.5×48×56
Weight (g)	74

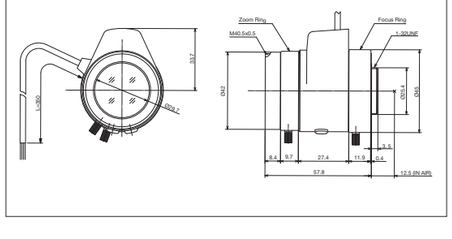
Dimensions unit:mm



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 (ΦxD),(ΦxHxD) or (WxHxD)mm	ϕ45×56.2×57.8
Weight (g)	103

Dimensions unit:mm



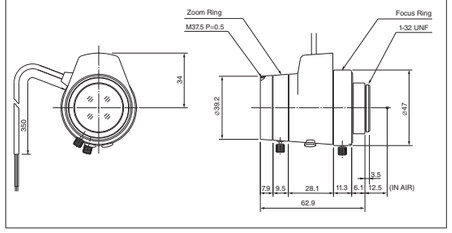
VARI-FOCAL

VIDEO DRIVE

VARI VIDEO TELE ASP IR

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 (ΦxD),(ΦxHxD) or (WxHxD)mm	ϕ41.7×57.5×62.9
Weight (g)	115

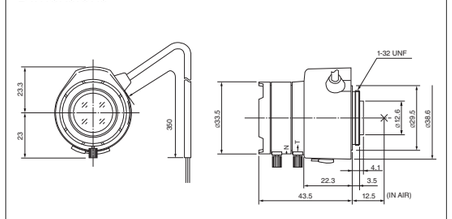
Dimensions unit:mm



VARI VIDEO IR

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 (ΦxD),(ΦxHxD) or (WxHxD)mm	ϕ33.5×42.6×43.5
Weight (g)	56

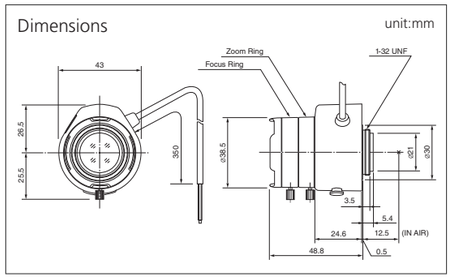
Dimensions unit:mm



VARI VIDEO ASP IR

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 (ΦxD),(ΦxHxD) or (WxHxD)mm	ϕ38.5×47.5×48.8
Weight (g)	73

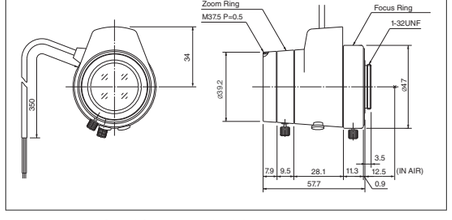
Dimensions unit:mm



VARI VIDEO ASP TELE IR

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 (ΦxD),(ΦxHxD) or (WxHxD)mm	ϕ41.7×57.5×57.7
Weight (g)	125

Dimensions unit:mm



※ HG3Z1014 Series 1/2type lenses have no focus shift with or without IR lighting only when used with 1/2type cameras. If these lenses are used with 1/3type cameras, some focus shift may occur with IR lighting.

PINHOLE

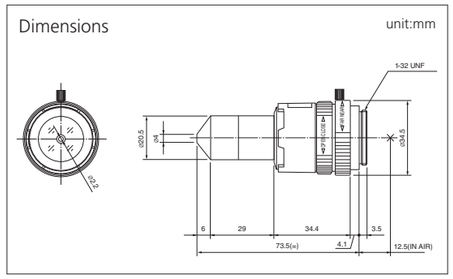
MANUAL IRIS / DC DRIVE / VIDEO DRIVE

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 (ΦxD),(ΦxHxD) or (WxHxD)mm	ϕ34.5×73.5
Weight (g)	80

Dimensions unit:mm

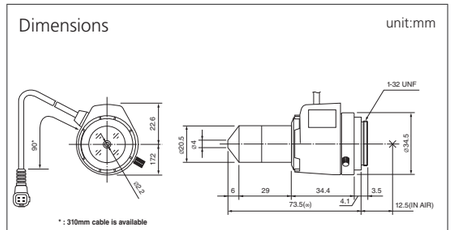


DC DRIVE

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 (ΦxD),(ΦxHxD) or (WxHxD)mm	ϕ34.5×39.8×73.5
Weight (g)	82

Dimensions unit:mm

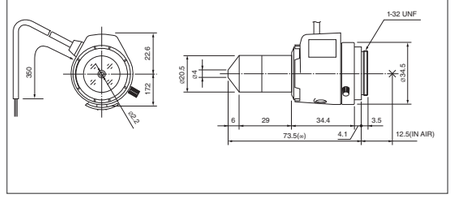


VIDEO DRIVE

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 (ΦxD),(ΦxHxD) or (WxHxD)mm	ϕ34.5×39.8×73.5
Weight (g)	85

Dimensions unit:mm



MANUAL ZOOM

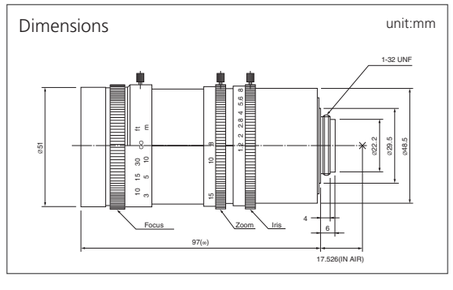
MANUAL IRIS / DC DRIVE / VIDEO DRIVE

MANUAL IRIS

ZOOM
MANUAL

MODEL NO.	H6Z0812
Format (")	1/2
Mount	C
Focal Length (mm)	8-48
Aperture (F)	1.2-16C
Angle of View (HOR)°	44.6-8.0
M.O.D. (m)	1.2
Effective Aperture Front (ϕmm)	32.9
Rear (ϕmm)	16.6
Front Filter Thread (ϕMxP=)	49.0×0.75
Dimensions (ΦxD),(ΦxHxD) or (WxHxD)mm	ϕ51.8×97
Weight (g)	305

Dimensions unit:mm



MANUAL ZOOM

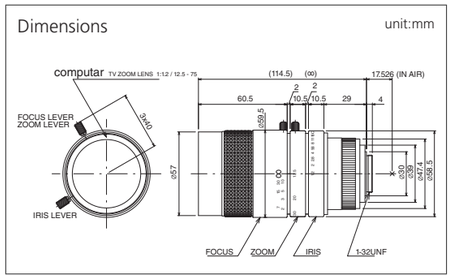
MANUAL IRIS / DC DRIVE / VIDEO DRIVE

MANUAL IRIS

ZOOM
MANUAL

MODEL NO.	M6Z1212-3S
Format (")	2/3
Mount	C
Focal Length (mm)	12.5-75
Aperture (F)	1.2-16C
Angle of View (HOR)°	38.3-6.7
M.O.D. (m)	1.0
Effective Aperture Front (ϕmm)	46.5
Rear (ϕmm)	15.6
Front Filter Thread (ϕMxP=)	55.0×0.75
Dimensions (ΦxD),(ΦxHxD) or (WxHxD)mm	ϕ59.9×114.5
Weight (g)	483

Dimensions unit:mm

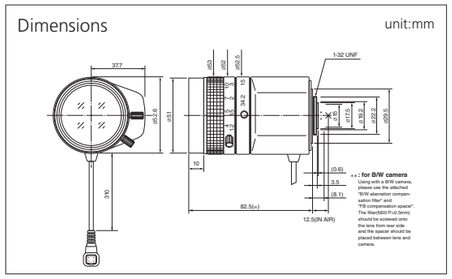


DC DRIVE

ZOOM
DC
F1.0
SPOT FILTER

MODEL NO.	T6Z5710AIDC-CS
Format (")	1/3
Mount	CS
Focal Length (mm)	5.7-34.2
Aperture (F)	1.0-360C
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 (ΦxD),(ΦxHxD) or (WxHxD)mm	ϕ53×64×82.5
Weight (g)	295

Dimensions unit:mm

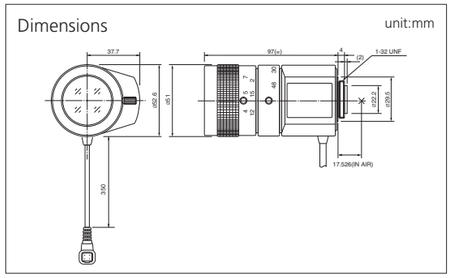


VIDEO DRIVE

ZOOM
DC
SPOT FILTER

MODEL NO.	H6Z0812AIDC
Format (")	1/2
Mount	C
Focal Length (mm)	8-48
Aperture (F)	1.2-560C
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 (ΦxD),(ΦxHxD) or (WxHxD)mm	ϕ52.6×64×97
Weight (g)	295

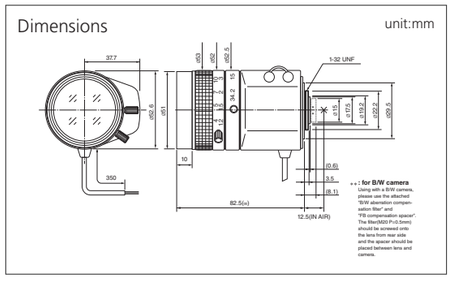
Dimensions unit:mm



ZOOM
VIDEO
F1.0
SPOT FILTER

MODEL NO.	T6Z5710AIVD-CS
Format (")	1/3
Mount	CS
Focal Length (mm)	5.7-34.2
Aperture (F)	1.0-360C
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 (ΦxD),(ΦxHxD) or (WxHxD)mm	ϕ53×64×82.5
Weight (g)	295

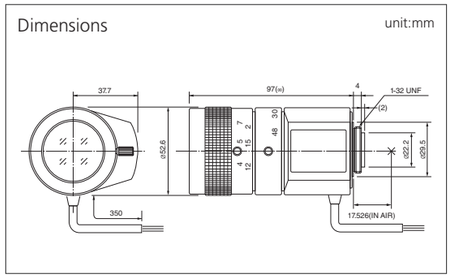
Dimensions unit:mm



ZOOM
VIDEO
SPOT FILTER

MODEL NO.	H6Z0812AIVD
Format (")	1/2
Mount	C
Focal Length (mm)	8-48
Aperture (F)	1.2-560C
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 (ΦxD),(ΦxHxD) or (WxHxD)mm	ϕ52.6×64×97
Weight (g)	295

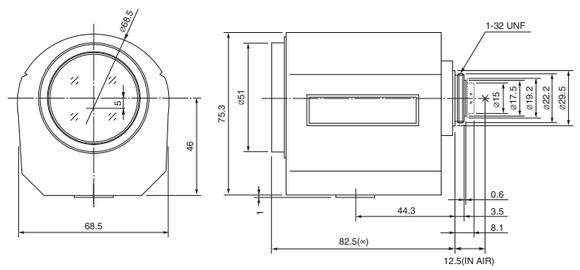
Dimensions unit:mm



T6Z5710 Series
f 5.7-34.2mm, F1.0
6x

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

Dimensions unit:mm

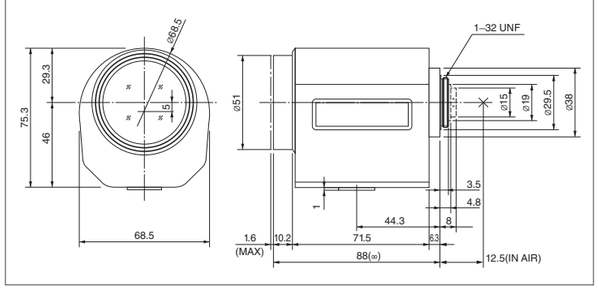


NO.	MODEL NO.						Aperture (F)	Weight (g)
1	T6Z5710M-CS	ZOOM	3 MOTOR	F1.0			1.0-16C	430
2	T6Z5710MP-CS	ZOOM	3 MOTOR	F1.0	PRESET		1.0-16C	470
3	T6Z5710MS-CS	ZOOM	3 MOTOR	F1.0		SPOT FILTER	1.0-360C	430
4	T6Z5710MSP-CS	ZOOM	3 MOTOR	F1.0	PRESET	SPOT FILTER	1.0-360C	470
5	T6Z5710AMS-CS	ZOOM	VIDEO	F1.0		SPOT FILTER	1.0-360C	450
6	T6Z5710AMSP-CS	ZOOM	VIDEO	F1.0	PRESET	SPOT FILTER	1.0-360C	490
7	T6Z5710DC-CS	ZOOM	DC	F1.0		SPOT FILTER	1.0-360C	440
8	T6Z5710PDC-CS	ZOOM	DC	F1.0	PRESET	SPOT FILTER	1.0-360C	480

T10Z5712 Series
f 5.7-57mm, F1.2
10x

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

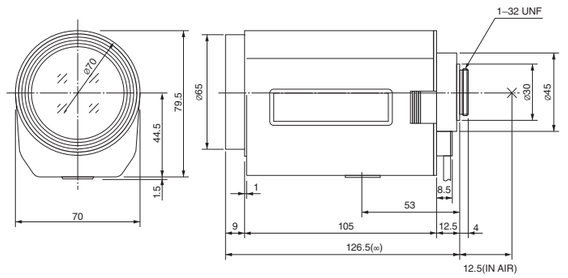


NO.	MODEL NO.						Aperture (F)	Weight (g)
1	T10Z5712M-CS	ZOOM	3 MOTOR				1.2-22C	450
2	T10Z5712MP-CS	ZOOM	3 MOTOR	PRESET			1.2-22C	490
3	T10Z5712MS-CS	ZOOM	3 MOTOR		SPOT FILTER		1.2-560C	450
4	T10Z5712MSP-CS	ZOOM	3 MOTOR	PRESET	SPOT FILTER		1.2-560C	490
5	T10Z5712AMS-CS	ZOOM	VIDEO		SPOT FILTER		1.2-560C	470
6	T10Z5712AMSP-CS	ZOOM	VIDEO	PRESET	SPOT FILTER		1.2-560C	510
7	T10Z5712DC-CS	ZOOM	DC		SPOT FILTER		1.2-560C	460
8	T10Z5712PDC-CS	ZOOM	DC	PRESET	SPOT FILTER		1.2-560C	500

T21Z5816 Series
f 5.8-121.8mm, F1.6
21x

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

Dimensions unit:mm

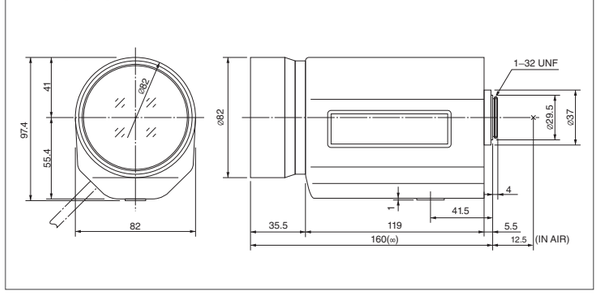


NO.	MODEL NO.		Aperture (F)	Weight (g)
1	T21Z5816M-CS	ZOOM 3 MOTOR	1.6-22C	665
2	T21Z5816MP-CS	ZOOM 3 MOTOR PRESET	1.6-22C	700
3	T21Z5816MS-CS	ZOOM 3 MOTOR SPOT FILTER	1.6-560C	665
4	T21Z5816MSP-CS	ZOOM 3 MOTOR PRESET SPOT FILTER	1.6-560C	700
5	T21Z5816AMS-CS2	ZOOM VIDEO SPOT FILTER	1.6-560C	700
6	T21Z5816AMSP-CS2	ZOOM VIDEO PRESET SPOT FILTER	1.6-560C	740
7	T21Z5816DC-CS	ZOOM DC SPOT FILTER	1.6-560C	650
8	T21Z5816PDC-CS	ZOOM DC PRESET SPOT FILTER	1.6-560C	690

T34Z5518 Series
f 5.5-187mm, F1.8
34x

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

Dimensions unit:mm

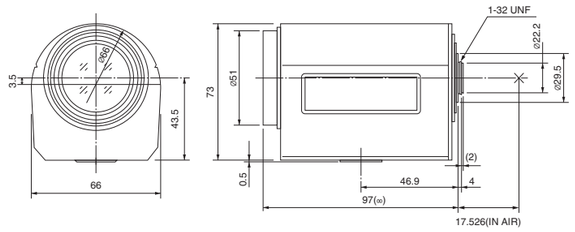


NO.	MODEL NO.		Aperture (F)	Weight (g)
1	T34Z5518AMS-CS	ZOOM VIDEO SPOT FILTER	1.8-560C	1160
2	T34Z5518AMSP-CS	ZOOM VIDEO PRESET SPOT FILTER	1.8-560C	1190
3	T34Z5518AMSR-CS	ZOOM VIDEO SPOT FILTER OVERRIDE	1.8-560C	1150
4	T34Z5518AMSPR-CS	ZOOM VIDEO PRESET SPOT FILTER OVERRIDE	1.8-560C	1180
5	T34Z5518DC-CS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

H6Z0812 Series
f 8-48mm, F1.2
6x

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

Dimensions unit:mm

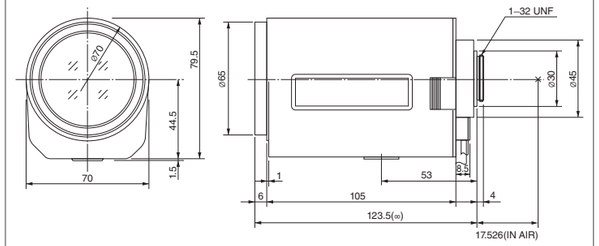


NO.	MODEL NO.		Aperture (F)	Weight (g)
1	H6Z0812M	ZOOM 3 MOTOR	1.2-16C	400
2	H6Z0812MP	ZOOM 3 MOTOR PRESET	1.2-16C	440
3	H6Z0812MS	ZOOM 3 MOTOR SPOT FILTER	1.2-560C	400
4	H6Z0812MSP	ZOOM 3 MOTOR PRESET SPOT FILTER	1.2-560C	440
5	H6Z0812AMS	ZOOM VIDEO SPOT FILTER	1.2-560C	420
6	H6Z0812AMSP	ZOOM VIDEO PRESET SPOT FILTER	1.2-560C	460

H10Z0812 Series
f 8-80mm, F1.2
10x

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

Dimensions unit:mm

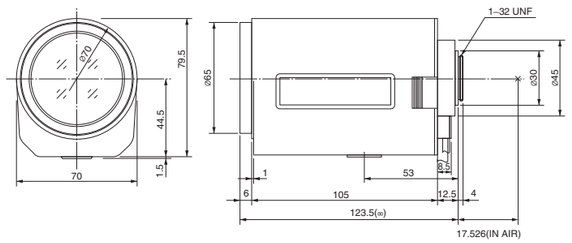


NO.	MODEL NO.		Aperture (F)	Weight (g)
1	H10Z0812M	ZOOM 3 MOTOR	1.2-22C	635
2	H10Z0812MP	ZOOM 3 MOTOR PRESET	1.2-22C	670
3	H10Z0812MS	ZOOM 3 MOTOR SPOT FILTER	1.2-560C	635
4	H10Z0812MSP	ZOOM 3 MOTOR PRESET SPOT FILTER	1.2-560C	670
5	H10Z0812AMS-2	ZOOM VIDEO SPOT FILTER	1.2-560C	670
6	H10Z0812AMSP-2	ZOOM VIDEO PRESET SPOT FILTER	1.2-560C	710

H10Z1218 Series
f 12-120mm, F1.8
10x

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

Dimensions unit:mm

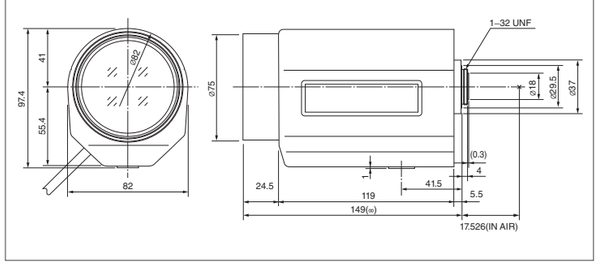


NO.	MODEL NO.		Aperture (F)	Weight (g)
1	H10Z1218M	ZOOM 3 MOTOR	1.8-22C	635
2	H10Z1218MP	ZOOM 3 MOTOR PRESET	1.8-22C	670
3	H10Z1218MS	ZOOM 3 MOTOR SPOT FILTER	1.8-560C	635
4	H10Z1218MSP	ZOOM 3 MOTOR PRESET SPOT FILTER	1.8-560C	670
5	H10Z1218AMS-2	ZOOM VIDEO SPOT FILTER	1.8-560C	670
6	H10Z1218AMSP-2	ZOOM VIDEO PRESET SPOT FILTER	1.8-560C	710
7	H10Z1218DC	ZOOM DC SPOT FILTER	1.8-560C	630
8	H10Z1218PDC	ZOOM DC PRESET SPOT FILTER	1.8-560C	670

H16Z7516 Series
f 7.5-120mm, F1.6
16x

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=)		72.0×0.75
Dimensions	(WxHxD)mm	82×97.4×149

Dimensions unit:mm

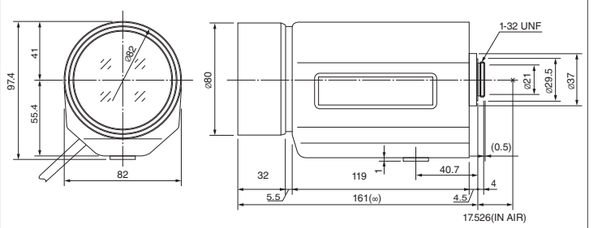


NO.	MODEL NO.		Aperture (F)	Weight (g)
1	H16Z7516AMS	ZOOM VIDEO SPOT FILTER	1.6-560C	1050
2	H16Z7516AMSP	ZOOM VIDEO PRESET SPOT FILTER	1.6-560C	1080
3	H16Z7516AMSR	ZOOM VIDEO SPOT FILTER OVERRIDE	1.6-560C	1040
4	H16Z7516AMSPR	ZOOM VIDEO PRESET SPOT FILTER OVERRIDE	1.6-560C	1070
5	H16Z7516DC	ZOOM DC SPOT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

H16Z7516-IR Series
f 7.5-120mm, F1.6
16x

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

Dimensions unit:mm



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 OVERRIDE IR	1.6-560C	1185
4	H16Z7516AMSPR-IR	ZOOM VIDEO PRESET SPOT FILTER OVERRIDE IR	1.6-560C	1215

Features of H16Z7516-IR series

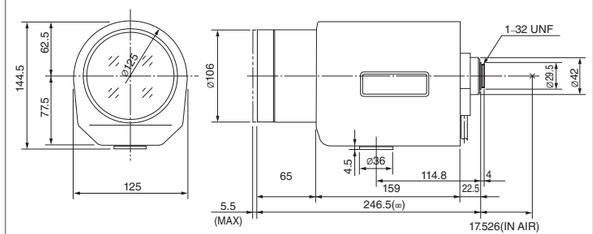
Infrared light increases at night because the wavelength distribution changes greatly between day and night. In case of night surveillance with infrared lighting, standard CCTV lenses cause a focus shift because of the difference in wavelength distribution, even when focused properly during the day.

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.

H30Z1015 Series
f 10-300mm, F1.5
30x

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

Dimensions unit:mm



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

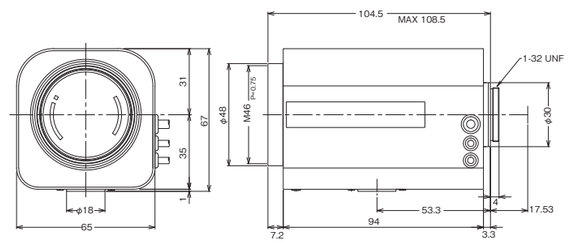
H10Z0819-MP Series
f 8-80mm, F1.9

10x

NEW

Format (")		1/2
Mount		C
Focal Length (mm)		8-80
Angle of View (HOR)°		44.8-4.5
M.O.D. (m)		2.5
Effective Aperture	Front (ϕmm)	40.0
	Rear (ϕmm)	13.2
Front Filter Thread (ϕMxP=)		46×0.75
Dimensions	(WxHxD)mm	65×67×104.5

Dimensions unit:mm



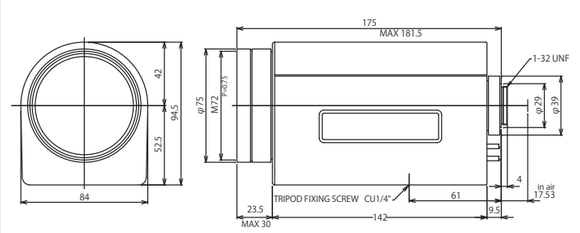
NO.	MODEL NO.		Aperture (F)	Weight (g)
1	H10Z0819AMS-MP	ZOOM VIDEO SPOT FILTER 2MP	1.9-1000	540
2	H10Z0819AMSP-MP	ZOOM VIDEO PRESET SPOT FILTER 2MP	1.9-1000	590
3	H10Z0819DC-MP	ZOOM DC SPOT FILTER 2MP	1.9-1000	540
4	H10Z0819PDC-MP	ZOOM DC PRESET SPOT FILTER 2MP	1.9-1000	590

H21Z1016-MP Series
f 10-210mm, F1.6

21x

Format (")		1/2
Mount		C
Focal Length (mm)		10-210
Angle of View (HOR)°		35.4-1.72
M.O.D. (m)		2.0
Effective Aperture	Front (ϕmm)	68.0
	Rear (ϕmm)	11.8
Front Filter Thread (ϕMxP=)		72.0×0.75
Dimensions	(WxHxD)mm	84×94.5×181.5

Dimensions unit:mm

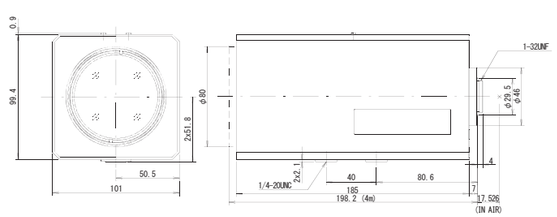


NO.	MODEL NO.		Aperture (F)	Weight (g)
1	H21Z1016AMS-MP	ZOOM VIDEO SPOT FILTER 2MP	1.6-1000	1050
2	H21Z1016AMSP-MP	ZOOM VIDEO PRESET SPOT FILTER 2MP	1.6-1000	1100
3	H21Z1016DC-MP	ZOOM DC SPOT FILTER 2MP	1.6-1000	1050
4	H21Z1016PDC-MP	ZOOM DC PRESET SPOT FILTER 2MP	1.6-1000	1100

E24Z1018-MP Series
f 10-240mm, F1.8
24x

Format (")		1/1.8
Mount		C
Focal Length (mm)		10-240
Angle of View (HOR)°		39.0-1.7
M.O.D. (m)		4.0
Effective Aperture	Front (ϕmm)	66.0
	Rear (ϕmm)	13.0
Front Filter Thread (ϕMxP=)		77×1
Dimensions	(WxHxD)mm	101×102.4×198.2

Dimensions unit:mm



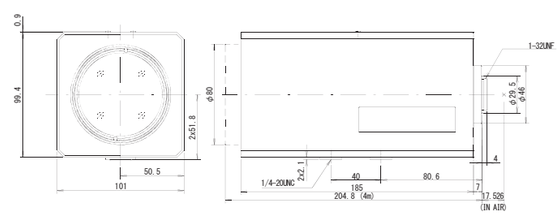
NO.	MODEL NO.						Aperture (F)	Weight (g)
1	E24Z1018M-MP	ZOOM	3 MOTOR			3MP	1.8-22C	2080
2	E24Z1018MP-MP	ZOOM	3 MOTOR	PRESET		3MP	1.8-22C	2120
3	E24Z1018MS-MP	ZOOM	3 MOTOR		SPOT FILTER	3MP	1.8-500C	2080
4	E24Z1018MSP-MP	ZOOM	3 MOTOR	PRESET	SPOT FILTER	3MP	1.8-500C	2120
5	E24Z1018AMS-MP	ZOOM	VIDEO		SPOT FILTER	3MP	1.8-500C	2020
6	E24Z1018AMSP-MP	ZOOM	VIDEO	PRESET	SPOT FILTER	3MP	1.8-500C	2060
7	E24Z1018DC-MP	ZOOM	DC		SPOT FILTER	3MP	1.8-500C	2020
8	E24Z1018PDC-MP	ZOOM	DC	PRESET	SPOT FILTER	3MP	1.8-500C	2060
9	E24Z1018K-MP	ZOOM	P-iris			3MP	1.8-22C	2010
10	E24Z1018KP-MP	ZOOM	P-iris	PRESET		3MP	1.8-22C	2050

※ Override and Iris preset models are available. Please contact us.
※ P-iris lenses can only be controlled by specifically designed cameras with P-iris software.

E24Z1018-MPIR Series
f 10-240mm, F1.8
24x

Format (")		1/1.8
Mount		C
Focal Length (mm)		10-240
Angle of View (HOR)°		39.0-1.7
M.O.D. (m)		3.0
Effective Aperture	Front (ϕmm)	66.0
	Rear (ϕmm)	13.0
Front Filter Thread (ϕMxP=)		77×1
Dimensions	(WxHxD)mm	101×102.4×204.8

Dimensions unit:mm



NO.	MODEL NO.						Aperture (F)	Weight (g)
1	E24Z1018M-MPIR	ZOOM	3 MOTOR			3MP IR	1.8-522C	2160
2	E24Z1018MP-MPIR	ZOOM	3 MOTOR	PRESET		3MP IR	1.8-522C	2200
3	E24Z1018MS-MPIR	ZOOM	3 MOTOR		SPOT FILTER	3MP IR	1.8-500C	2160
4	E24Z1018MSP-MPIR	ZOOM	3 MOTOR	PRESET	SPOT FILTER	3MP IR	1.8-500C	2200
5	E24Z1018AMS-MPIR	ZOOM	VIDEO		SPOT FILTER	3MP IR	1.8-500C	2100
6	E24Z1018AMSP-MPIR	ZOOM	VIDEO	PRESET	SPOT FILTER	3MP IR	1.8-500C	2140
7	E24Z1018DC-MPIR	ZOOM	DC		SPOT FILTER	3MP IR	1.8-500C	2100
8	E24Z1018PDC-MPIR	ZOOM	DC	PRESET	SPOT FILTER	3MP IR	1.8-500C	2140
9	E24Z1018K-MPIR	ZOOM	P-iris			3MP IR	1.8-522C	2090
10	E24Z1018KP-MPIR	ZOOM	P-iris	PRESET		3MP IR	1.8-522C	2130

※ Override and Iris preset models are available. Please contact us.
※ P-iris lenses can only be controlled by specifically designed cameras with P-iris software.

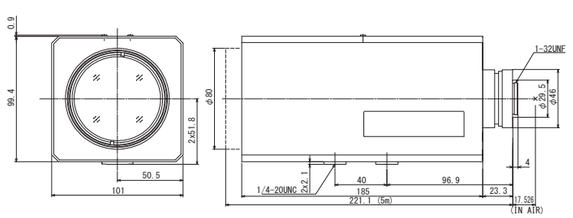
MOTORIZED ZOOM

M24Z1527-MP Series
f 15-360mm, F2.7
24x

NEW

Format (")		2/3
Mount		C
Focal Length (mm)		15-360
Angle of View (HOR)°		32.3-1.4
M.O.D. (m)		5.0
Effective Aperture	Front (ϕmm)	66.0
	Rear (ϕmm)	13.8
Front Filter Thread (ϕMxP=)		77×1
Dimensions	(WxHxD)mm	101×102.4×221.1

Dimensions unit:mm



NO.	MODEL NO.						Aperture (F)	Weight (g)
1	M24Z1527M-MP	ZOOM	3 MOTOR			2MP	2.7-22C	2200
2	M24Z1527MP-MP	ZOOM	3 MOTOR	PRESET		2MP	2.7-22C	2240
3	M24Z1527MS-MP	ZOOM	3 MOTOR		SPOT FILTER	2MP	2.7-500C	2200
4	M24Z1527MSP-MP	ZOOM	3 MOTOR	PRESET	SPOT FILTER	2MP	2.7-500C	2240
5	M24Z1527AMS-MP	ZOOM	VIDEO		SPOT FILTER	2MP	2.7-500C	2140
6	M24Z1527AMSP-MP	ZOOM	VIDEO	PRESET	SPOT FILTER	2MP	2.7-500C	2180
7	M24Z1527DC-MP	ZOOM	DC		SPOT FILTER	2MP	2.7-500C	2140
8	M24Z1527PDC-MP	ZOOM	DC	PRESET	SPOT FILTER	2MP	2.7-500C	2180
9	M24Z1527K-MP	ZOOM	P-iris			2MP	2.7-22C	2130
10	M24Z1527KP-MP	ZOOM	P-iris	PRESET		2MP	2.7-22C	2170

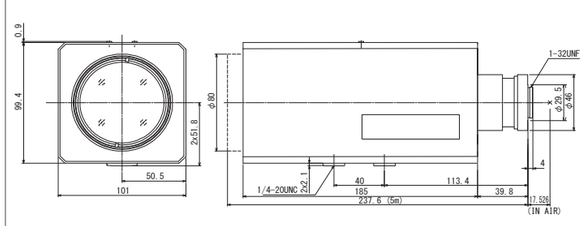
※ Override and Iris preset models are available. Please contact us.
※ P-iris lenses can only be controlled by specifically designed cameras with P-iris software.

M24Z2138-MP Series
f 21-500mm, F3.8
24x

NEW

Format (")		2/3
Mount		C
Focal Length (mm)		21-360
Angle of View (HOR)°		23.5-1.0
M.O.D. (m)		5.0
Effective Aperture	Front (ϕmm)	66.0
	Rear (ϕmm)	14.5
Front Filter Thread (ϕMxP=)		77×1
Dimensions	(WxHxD)mm	101×102.4×237.6

Dimensions unit:mm



NO.	MODEL NO.						Aperture (F)	Weight (g)
1	M24Z2138M-MP	ZOOM	3 MOTOR			2MP	3.8-22C	2260
2	M24Z2138MP-MP	ZOOM	3 MOTOR	PRESET		2MP	3.8-22C	2300
3	M24Z2138MS-MP	ZOOM	3 MOTOR		SPOT FILTER	2MP	3.8-500C	2260
4	M24Z2138MSP-MP	ZOOM	3 MOTOR	PRESET	SPOT FILTER	2MP	3.8-500C	2300
5	M24Z2138AMS-MP	ZOOM	VIDEO		SPOT FILTER	2MP	3.8-500C	2200
6	M24Z2138AMSP-MP	ZOOM	VIDEO	PRESET	SPOT FILTER	2MP	3.8-500C	2240
7	M24Z2138DC-MP	ZOOM	DC		SPOT FILTER	2MP	3.8-500C	2200
8	M24Z2138PDC-MP	ZOOM	DC	PRESET	SPOT FILTER	2MP	3.8-500C	2240
9	M24Z2138K-MP	ZOOM	P-iris			2MP	3.8-22C	2190
10	M24Z2138KP-MP	ZOOM	P-iris	PRESET		2MP	3.8-22C	2230

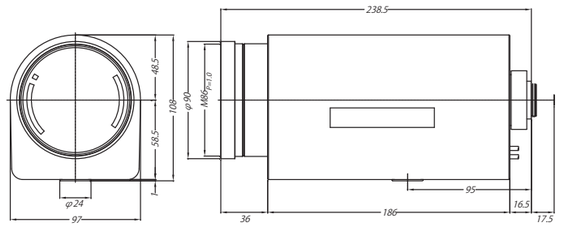
※ Override and Iris preset models are available. Please contact us.
※ P-iris lenses can only be controlled by specifically designed cameras with P-iris software.

H35Z1015-MP Series
f 10-350mm, F1.5

35x

Format (")		1/2
Mount		C
Focal Length (mm)		10-350
Angle of View (HOR)°		35.30-1.05
M.O.D. (m)		2.5
Effective Aperture	Front (ϕmm)	80.1
	Rear (ϕmm)	17.3
Front Filter Thread (ϕMxP=)		86×1
Dimensions	(WxHxD)mm	97×109×238.5

Dimensions unit:mm



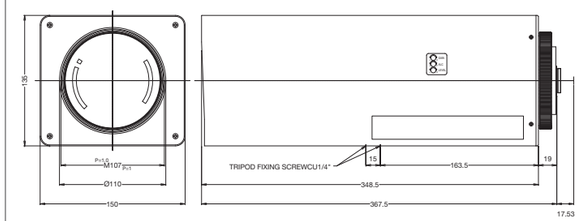
NO.	MODEL NO.		Aperture (F)	Weight (g)
1	H35Z1015AMS-MP	ZOOM VIDEO SPOT FILTER 2MP	1.5-1000	1830
2	H35Z1015AMSP-MP	ZOOM VIDEO PRESET SPOT FILTER 2MP	1.5-1000	1830
3	H35Z1015DC-MP	ZOOM DC SPOT FILTER 2MP	1.5-1000	1830
4	H35Z1015PDC-MP	ZOOM DC PRESET SPOT FILTER 2MP	1.5-1000	1830

H62Z1235-MP Series
f 12.5-775mm, F3.5 / f 25-1550mm, F7.0(w/2 × extender)

62x

Format (")		1/2
Mount		C
Focal Length (mm)		12.5-775 25-1550(with 2x extender.)
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

Dimensions unit:mm



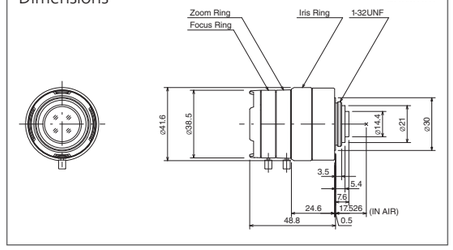
NO.	MODEL NO.		Aperture (F)	Weight (g)
1	H62Z1235AMP-MP	ZOOM VIDEO PRESET 2MP	3.5-Close	5350
2	H62Z1235AMP-MP-EX	ZOOM VIDEO PRESET 2MP Extender	3.5-Close (7.0-Close)	5550
3	H62Z1235AMP-MPIR	ZOOM VIDEO PRESET 2MP IR Fog through	3.5-Close	5800
4	H62Z1235AMP-MPIR-EX	ZOOM VIDEO PRESET 2MP Extender IR Fog through	3.5-Close (7.0-Close)	6000
5	H62Z1235PDC-MP	ZOOM DC PRESET 2MP	3.5-Close	5350
6	H62Z1235PDC-MP-EX	ZOOM DC PRESET 2MP Extender	3.5-Close (7.0-Close)	5550
7	H62Z1235PDC-MPIR	ZOOM DC PRESET 2MP IR Fog through	3.5-Close	5800
8	H62Z1235PDC-MPIR-EX	ZOOM DC PRESET 2MP Extender IR Fog through	3.5-Close (7.0-Close)	6000

※ Non-Preset model is available. Please contact us.

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 (ΦxD),(ΦxHxD) or (WxHxD)mm	ϕ41.6×48.8
Weight (g)	72

Dimensions unit:mm



VARI
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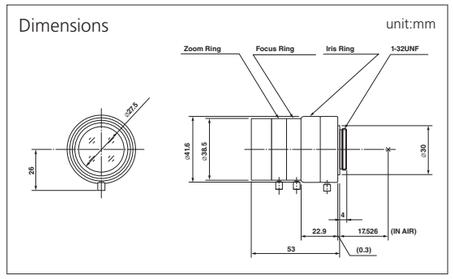
SECURITY

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 (ΦxD),(ΦxHxD) or (WxHxD)mm	ϕ41.6×53
Weight (g)	105

Dimensions unit:mm



NEW

VARI
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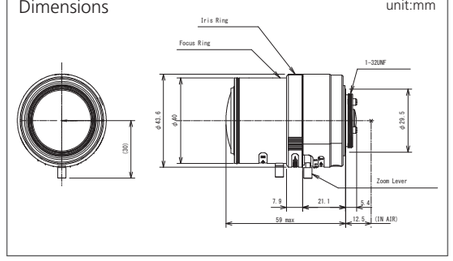
SECURITY
HDTV 1080

MODEL NO.	A4Z2812CS-MPIR
Format (")	1/2.7
Mount	CS
Focal Length (mm)	2.8-10
Aperture (F)	1.2-16C
Angle of View (HOR)°	127.6-34.3
M.O.D. (m)	0.5
Effective Aperture Front (ϕmm)	27.0
Rear (ϕmm)	9.7
Front Filter Thread (ϕMxP=)	-
Dimensions (ΦxD),(ΦxHxD) or (WxHxD)mm	ϕ43.6×59
Weight (g)	63

Dimensions unit:mm



NEW

VARI
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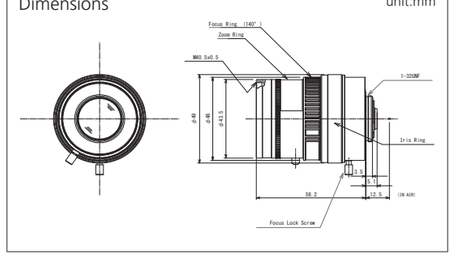
3MP
SECURITY
HDTV 1080

MODEL NO.	A6Z8516CS-MP
Format (")	1/2.7
Mount	CS
Focal Length (mm)	8.5-50
Aperture (F)	1.6-16C
Angle of View (HOR)°	38.0-6.8
M.O.D. (m)	1.0
Effective Aperture Front (ϕmm)	21.7
Rear (ϕmm)	9.8
Front Filter Thread (ϕMxP=)	40.5×0.5
Dimensions (ΦxD),(ΦxHxD) or (WxHxD)mm	ϕ49×58.2
Weight (g)	77

Dimensions unit:mm



VARI
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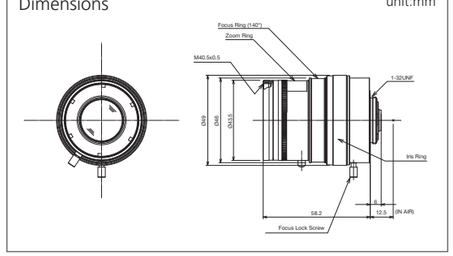
HDTV 1080

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=)	40×0.5
Dimensions (ΦxD),(ΦxHxD) or (WxHxD)mm	ϕ49×58.2
Weight (g)	80

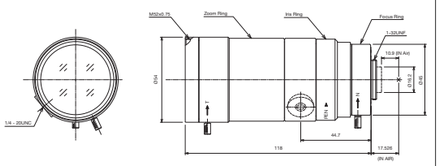
Dimensions unit:mm



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=)	ϕ52×0.75
Dimensions (ΦxD),(ΦxHxD) or (WxHxD)mm	ϕ54×118
Weight (g)	411

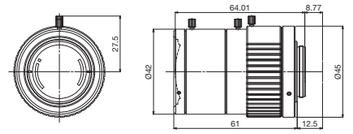
Dimensions unit:mm



VARI
MANUAL
WIDE
IR
5MP
SECURITY
HDTV 1080

MODEL NO.	E3Z4518CS-MPIR
Format (")	1/1.8
Mount	CS
Focal Length (mm)	4.5-13.2
Aperture (F)	1.8-16C
Angle of View (HOR)°	105.3-35.3
M.O.D. (m)	0.5
Effective Aperture Front (ϕmm)	25.1
Rear (ϕmm)	10.0
Front Filter Thread (ϕMxP=)	-
Dimensions (ΦxD),(ΦxHxD) or (WxHxD)mm	ϕ42×61
Weight (g)	148

Dimensions unit:mm

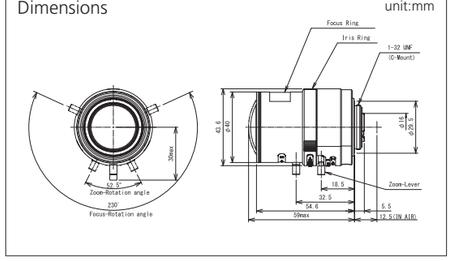


NEW

VARI
MANUAL
WIDE
ASP
IR
5MP
SECURITY
HDTV 1080

MODEL NO.	A3Z2812CS-MPWIR
Format (")	1/2.7
Mount	CS
Focal Length (mm)	2.8-8.5
Aperture (F)	1.2-16C
Angle of View (HOR)°	124.7-41.3
M.O.D. (m)	0.5
Effective Aperture Front (ϕmm)	24.8
Rear (ϕmm)	8.4
Front Filter Thread (ϕMxP=)	-
Dimensions (ΦxD),(ΦxHxD) or (WxHxD)mm	ϕ43.6×59
Weight (g)	64

Dimensions unit:mm



NEW

VARI
MANUAL
WIDE
ASP
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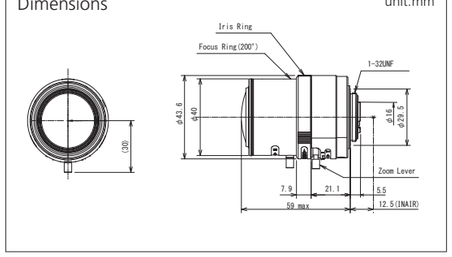
8MP
SECURITY
HDTV 1080

MODEL NO.	E3Z3915CS-MPWIR
Format (")	1/1.8
Mount	CS
Focal Length (mm)	3.9-10
Aperture (F)	1.5-16C
Angle of View (HOR)°	108.1-42.1
M.O.D. (m)	0.8
Effective Aperture Front (ϕmm)	25.0
Rear (ϕmm)	10.0
Front Filter Thread (ϕMxP=)	-
Dimensions (ΦxD),(ΦxHxD) or (WxHxD)mm	ϕ43.6×59
Weight (g)	69

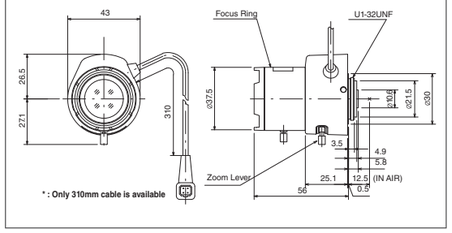
Dimensions unit:mm



VARI DC ASP IR 1MP SECURITY

MODEL NO.	TG4Z2816FCS-MPIR-2
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 (ΦxD),(ΦxHxD) or (WxHxD)mm	ϕ37.5×48×56
Weight (g)	71

Dimensions unit:mm

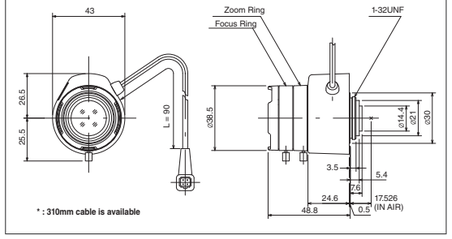


* : Only 310mm cable is available

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 (ΦxD),(ΦxHxD) or (WxHxD)mm	ϕ38.5×48×48.8
Weight (g)	75

Dimensions unit:mm

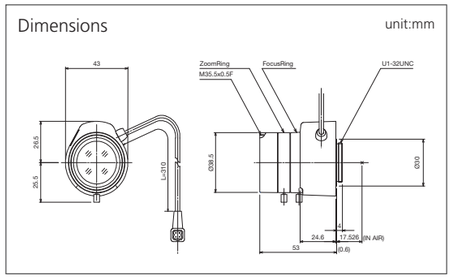


* : 310mm cable is available

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=)	35.5×0.5
Dimensions (ΦxD),(ΦxHxD) or (WxHxD)mm	ϕ41.6×48×53
Weight (g)	99

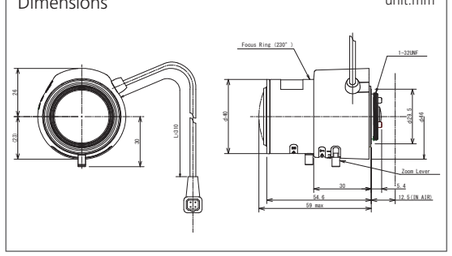
Dimensions unit:mm



VARI DC 1MP SECURITY NEW

MODEL NO.	AG4Z2812FCS-MPIR
Format (")	1/2.7
Mount	CS
Focal Length (mm)	2.8-10
Aperture (F)	1.2-360C
Angle of View (HOR)°	127.6-34.3
M.O.D. (m)	0.5
Effective Aperture Front (ϕmm)	27.0
Rear (ϕmm)	9.7
Front Filter Thread (ϕMxP=)	-
Dimensions (ΦxD),(ΦxHxD) or (WxHxD)mm	ϕ40×49×59
Weight (g)	66

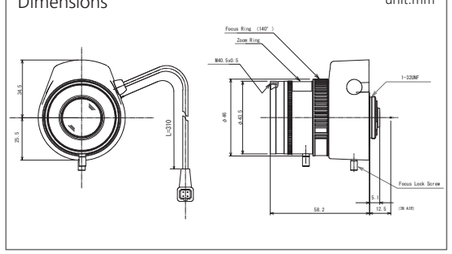
Dimensions unit:mm



VARI DC TELE ASP 3MP SECURITY HDTV 1080 NEW

MODEL NO.	AG6Z8516FCS-MP
Format (")	1/2.7
Mount	CS
Focal Length (mm)	8.5-50
Aperture (F)	1.6-360C
Angle of View (HOR)°	38.0-6.8
M.O.D. (m)	1.0
Effective Aperture Front (ϕmm)	21.7
Rear (ϕmm)	9.8
Front Filter Thread (ϕMxP=)	40.5×0.5
Dimensions (ΦxD),(ΦxHxD) or (WxHxD)mm	ϕ46×60×58.2
Weight (g)	80

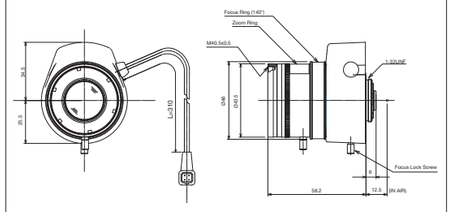
Dimensions unit:mm



VARI DC TELE ASP IR 3MP SECURITY HDTV 1080

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 (ΦxD),(ΦxHxD) or (WxHxD)mm	ϕ46×59.3×58.4
Weight (g)	83

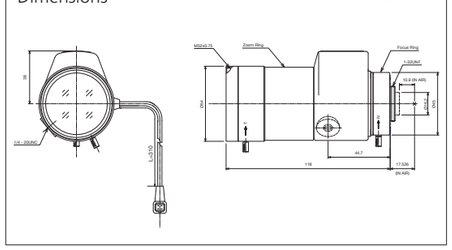
Dimensions unit:mm



VARI DC TELE ASP 3MP SECURITY HDTV 1080

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=)	ϕ52×0.75
Dimensions (ΦxD),(ΦxHxD) or (WxHxD)mm	ϕ54×65×118
Weight (g)	402

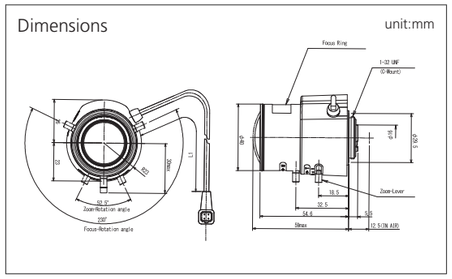
Dimensions unit:mm



VARI DC WIDE ASP IR 5MP SECURITY HDTV 1080 NEW

MODEL NO.	AG3Z2812FCS-MPWIR
Format (")	1/2.7
Mount	CS
Focal Length (mm)	2.8-8.5
Aperture (F)	1.2-360C
Angle of View (HOR)°	124.7-41.3
M.O.D. (m)	0.5
Effective Aperture Front (ϕmm)	24.8
Rear (ϕmm)	8.4
Front Filter Thread (ϕMxP=)	-
Dimensions (ΦxD),(ΦxHxD) or (WxHxD)mm	ϕ43.6×59
Weight (g)	67

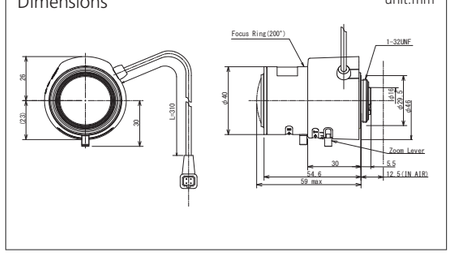
Dimensions unit:mm



VARI DC WIDE ASP IR 8MP SECURITY HDTV 1080 NEW

MODEL NO.	EG3Z3915FCS-MPWIR
Format (")	1/1.8
Mount	CS
Focal Length (mm)	3.9-10
Aperture (F)	1.5-360C
Angle of View (HOR)°	108.1-42.1
M.O.D. (m)	0.8
Effective Aperture Front (ϕmm)	25.0
Rear (ϕmm)	10.0
Front Filter Thread (ϕMxP=)	-
Dimensions (ΦxD),(ΦxHxD) or (WxHxD)mm	ϕ43.6×59
Weight (g)	72

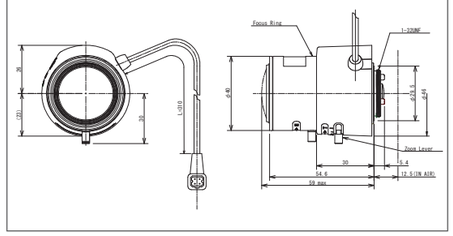
Dimensions unit:mm



VARI
P-iris
WIDE
ASP
IR
3MP
SECURITY
HDTV 1080

MODEL NO.	AG4Z2812KCS-MPIR
Format (")	1/2.7
Mount	CS
Focal Length (mm)	2.8-10
Aperture (F)	1.2-F16C
Angle of View (HOR)°	127.6-34.3
M.O.D. (m)	0.5
Effective Aperture Front (ϕmm)	27.0
Rear (ϕmm)	9.7
Front Filter Thread (ϕMxP=)	-
Dimensions (ΦxD),(ΦxHxD) or (WxHxD)mm	ϕ40×49×59
Weight (g)	65

Dimensions unit:mm



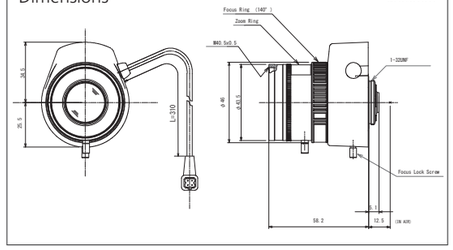
※ P-iris lenses can only be controlled by specifically designed cameras with P-iris software.

NEW

VARI
P-iris
TELE
ASP
3MP
SECURITY
HDTV 1080

MODEL NO.	AG6Z8516KCS-MP
Format (")	1/2.7
Mount	CS
Focal Length (mm)	8.5-50
Aperture (F)	1.6-16C
Angle of View (HOR)°	38.0-6.8
M.O.D. (m)	1.0
Effective Aperture Front (ϕmm)	21.7
Rear (ϕmm)	9.8
Front Filter Thread (ϕMxP=)	40.5×0.5
Dimensions (ΦxD),(ΦxHxD) or (WxHxD)mm	ϕ46×60×58.2
Weight (g)	78

Dimensions unit:mm



※ P-iris lenses can only be controlled by specifically designed cameras with P-iris software.

VARI
P-iris
TELE
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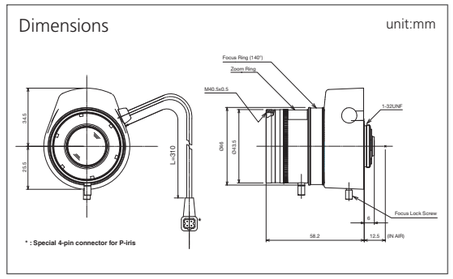
SECURITY
HDTV 1080

MODEL NO.	AG4Z1214KCS-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=)	40×0.5
Dimensions (ΦxD),(ΦxHxD) or (WxHxD)mm	ϕ46×59.3×58.4
Weight (g)	81

Dimensions unit:mm



※ P-iris lenses can only be controlled by specifically designed cameras with P-iris software.

NEW

VARI
P-iris
WIDE
ASP
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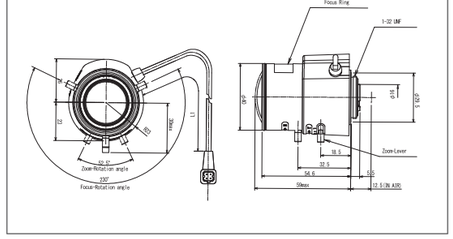
5MP
SECURITY
HDTV 1080

MODEL NO.	AG3Z2812KCS-MPWIR
Format (")	1/2.7
Mount	CS
Focal Length (mm)	2.8-8.5
Aperture (F)	1.2-16C
Angle of View (HOR)°	124.7-41.3
M.O.D. (m)	0.5
Effective Aperture Front (ϕmm)	24.8
Rear (ϕmm)	8.4
Front Filter Thread (ϕMxP=)	-
Dimensions (ΦxD),(ΦxHxD) or (WxHxD)mm	ϕ43.6×59
Weight (g)	66

Dimensions unit:mm



※ P-iris lenses can only be controlled by specifically designed cameras with P-iris software.

NEW

VARI
P-iris
WIDE
ASP
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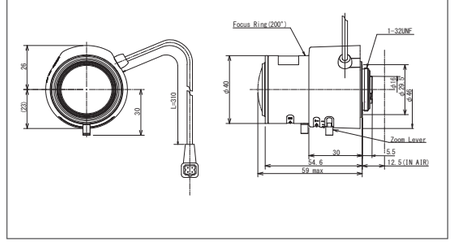
8MP
SECURITY
HDTV 1080

MODEL NO.	EG3Z3915KCS-MPWIR
Format (")	1/1.8
Mount	CS
Focal Length (mm)	3.9-10
Aperture (F)	1.5-360C
Angle of View (HOR)°	108.1-42.1
M.O.D. (m)	0.8
Effective Aperture Front (ϕmm)	25.0
Rear (ϕmm)	10.0
Front Filter Thread (ϕMxP=)	-
Dimensions (ΦxD),(ΦxHxD) or (WxHxD)mm	ϕ43.6×59
Weight (g)	71

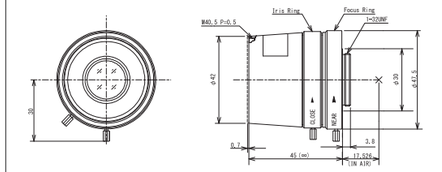
Dimensions unit:mm



FIX
MANUAL
5MP
ITS

MODEL NO.	M0918FIC-MP
Format (")	2/3
Mount	C
Focal Length (mm)	9
Aperture (F)	1.8-16C
Angle of View (HOR)°	52.1
M.O.D. (m)	1
Effective Aperture Front (ϕmm)	20.1
Rear (ϕmm)	12.4
Front Filter Thread (ϕMxP=)	40.5×0.5
Dimensions (ΦxD),(ΦxHxD) or (WxHxD)mm	ϕ47.5×45
Weight (g)	133.6

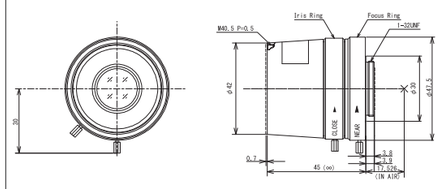
Dimensions unit:mm



FIX
MANUAL
5MP
ITS

MODEL NO.	M1218FIC-MP
Format (")	2/3
Mount	C
Focal Length (mm)	12
Aperture (F)	1.8-16C
Angle of View (HOR)°	39.3
M.O.D. (m)	1
Effective Aperture Front (ϕmm)	20.0
Rear (ϕmm)	13.2
Front Filter Thread (ϕMxP=)	40.2×0.5
Dimensions (ΦxD),(ΦxHxD) or (WxHxD)mm	ϕ47.5×45
Weight (g)	133.2

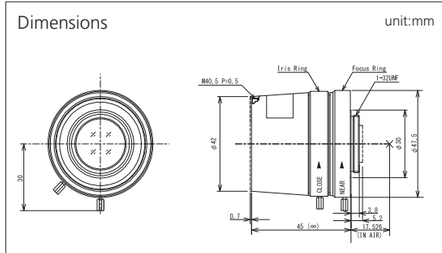
Dimensions unit:mm



FIX
MANUAL
5MP
ITS

MODEL NO.	M1616FIC-MP
Format (")	2/3
Mount	C
Focal Length (mm)	16
Aperture (F)	1.6-16C
Angle of View (HOR)°	30.8
M.O.D. (m)	1
Effective Aperture Front (ϕmm)	21.9
Rear (ϕmm)	11.0
Front Filter Thread (ϕMxP=)	40.5×0.5
Dimensions (ΦxD),(ΦxHxD) or (WxHxD)mm	ϕ47.5×45
Weight (g)	139.3

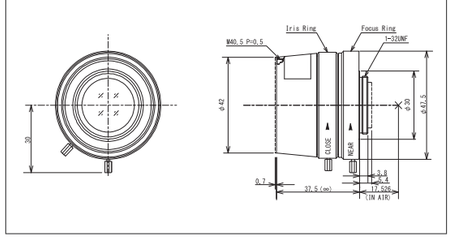
Dimensions unit:mm



FIX
MANUAL
5MP
ITS

MODEL NO.	M2514FIC-MP
Format (")	2/3
Mount	C
Focal Length (mm)	25
Aperture (F)	1.4-16C
Angle of View (HOR)°	20.0
M.O.D. (m)	1.5
Effective Aperture Front (ϕmm)	23.4
Rear (ϕmm)	14.6
Front Filter Thread (ϕMxP=)	40.5×0.5
Dimensions (ΦxD),(ΦxHxD) or (WxHxD)mm	ϕ47.5×37.5
Weight (g)	124.8

Dimensions unit:mm

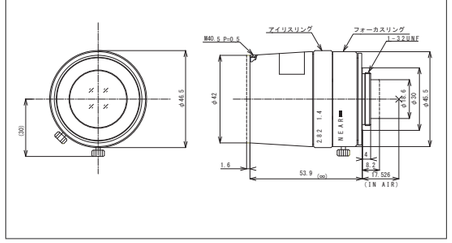


NEW

FIX
MANUAL
IR
5MP
ITS

MODEL NO.	M2514FIC-MPIR
Format (")	2/3
Mount	C
Focal Length (mm)	25
Aperture (F)	1.4-16C
Angle of View (HOR)°	20.0
M.O.D. (m)	1
Effective Aperture Front (ϕmm)	27.0
Rear (ϕmm)	12.4
Front Filter Thread (ϕMxP=)	40.5×0.5
Dimensions (ΦxD),(ΦxHxD) or (WxHxD)mm	ϕ46.5×53.9
Weight (g)	154.2

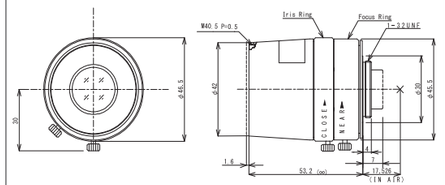
Dimensions unit:mm



FIX MANUAL IR 5MP ITS

MODEL NO.	M3518FIC-MPIR
Format (")	2/3
Mount	C
Focal Length (mm)	35
Aperture (F)	1.8-16
Angle of View (HOR)°	13.9
M.O.D. (m)	1
Effective Aperture Front (ϕmm)	19.8
Rear (ϕmm)	12.1
Front Filter Thread (ϕMxP=)	40.5×0.5
Dimensions (ΦxD),(ΦxHxD) or (WxHxD)mm	ϕ46.5×53.2
Weight (g)	149.2

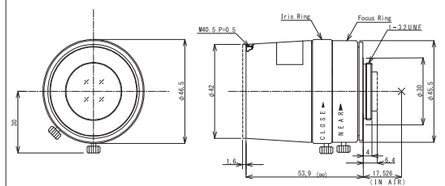
Dimensions unit:mm



FIX MANUAL IR 5MP ITS

MODEL NO.	M5020FIC-MPIR
Format (")	2/3
Mount	C
Focal Length (mm)	50
Aperture (F)	2.0-16C
Angle of View (HOR)°	9.8
M.O.D. (m)	2
Effective Aperture Front (ϕmm)	25.2
Rear (ϕmm)	11.0
Front Filter Thread (ϕMxP=)	40.5×0.5
Dimensions (ΦxD),(ΦxHxD) or (WxHxD)mm	ϕ46.5×53.9
Weight (g)	155

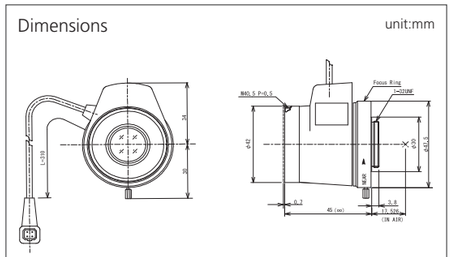
Dimensions unit:mm



FIX DC 5MP ITS

MODEL NO.	MG0918FC-MP
Format (")	2/3
Mount	C
Focal Length (mm)	9
Aperture (F)	1.8-360C
Angle of View (HOR)°	52.1
M.O.D. (m)	1
Effective Aperture Front (ϕmm)	20.1
Rear (ϕmm)	12.4
Front Filter Thread (ϕMxP=)	40.5×0.5
Dimensions (ΦxD),(ΦxHxD) or (WxHxD)mm	ϕ42×57.8×45
Weight (g)	107

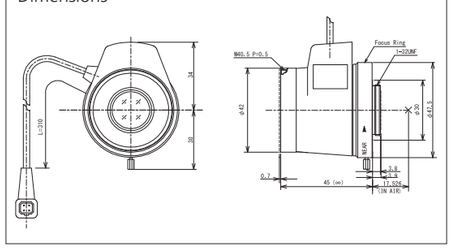
Dimensions unit:mm



FIX DC 5MP ITS

MODEL NO.	MG1218FC-MP
Format (")	2/3
Mount	C
Focal Length (mm)	12
Aperture (F)	1.8-360C
Angle of View (HOR)°	39.3
M.O.D. (m)	1
Effective Aperture Front (ϕmm)	20.0
Rear (ϕmm)	13.2
Front Filter Thread (ϕMxP=)	40.5×0.5
Dimensions (ΦxD),(ΦxHxD) or (WxHxD)mm	ϕ42×57.8×45
Weight (g)	105.6

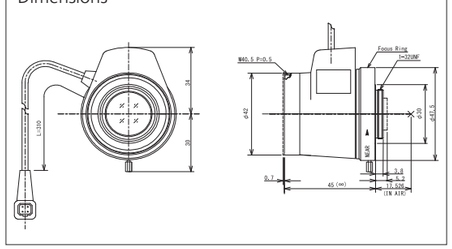
Dimensions unit:mm



FIX DC 5MP ITS

MODEL NO.	MG1616FC-MP
Format (")	2/3
Mount	C
Focal Length (mm)	16
Aperture (F)	1.6-360C
Angle of View (HOR)°	30.8
M.O.D. (m)	1
Effective Aperture Front (ϕmm)	21.9
Rear (ϕmm)	11.0
Front Filter Thread (ϕMxP=)	40.5×0.5
Dimensions (ΦxD),(ΦxHxD) or (WxHxD)mm	ϕ42×57.8×45
Weight (g)	112.6

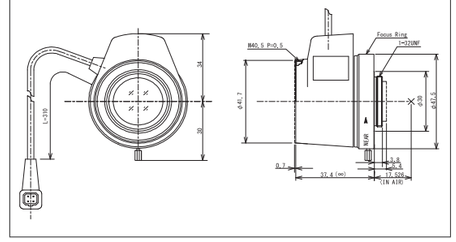
Dimensions unit:mm



FIX DC 5MP ITS

MODEL NO.	MG2514FC-MP
Format (")	2/3
Mount	C
Focal Length (mm)	25
Aperture (F)	1.4-360C
Angle of View (HOR)°	20.0
M.O.D. (m)	1.5
Effective Aperture Front (ϕmm)	23.4
Rear (ϕmm)	14.6
Front Filter Thread (ϕMxP=)	40.5×0.5
Dimensions (ΦxD),(ΦxHxD) or (WxHxD)mm	ϕ41.7×57.8×37.4
Weight (g)	102.2

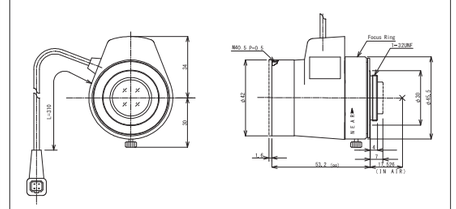
Dimensions unit:mm



FIX DC IR 5MP ITS

MODEL NO.	MG3518FC-MPIR
Format (")	2/3
Mount	C
Focal Length (mm)	35
Aperture (F)	1.8-360C
Angle of View (HOR)°	13.9
M.O.D. (m)	1
Effective Aperture Front (ϕmm)	19.8
Rear (ϕmm)	12.1
Front Filter Thread (ϕMxP=)	40.5×0.5
Dimensions (ΦxD),(ΦxHxD) or (WxHxD)mm	ϕ42×56.8×53.2
Weight (g)	125.8

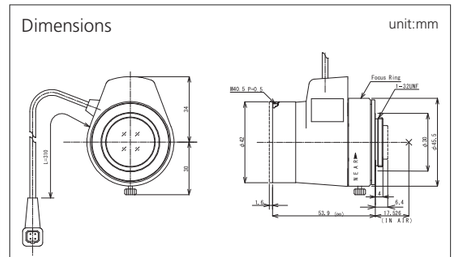
Dimensions 単位:mm



FIX DC IR 5MP ITS

MODEL NO.	MG5020FC-MPIR
Format (")	2/3
Mount	C
Focal Length (mm)	50
Aperture (F)	2.0-360C
Angle of View (HOR)°	9.8
M.O.D. (m)	2
Effective Aperture Front (ϕmm)	25.2
Rear (ϕmm)	11.0
Front Filter Thread (ϕMxP=)	40.5×0.5
Dimensions (ΦxD),(ΦxHxD) or (WxHxD)mm	ϕ42×56.8×53.9
Weight (g)	131.8

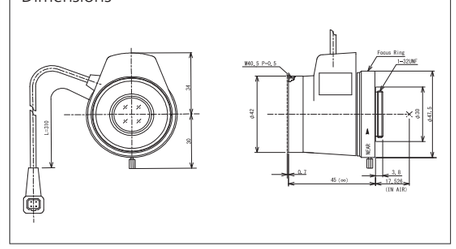
Dimensions unit:mm



FIX P-iris 5MP ITS

MODEL NO.	MG0918KC-MP
Format (")	2/3
Mount	C
Focal Length (mm)	9
Aperture (F)	1.8-16C
Angle of View (HOR)°	52.1
M.O.D. (m)	1
Effective Aperture Front (ϕmm)	20.1
Rear (ϕmm)	12.4
Front Filter Thread (ϕMxP=)	40.5×0.5
Dimensions (ΦxD),(ΦxHxD) or (WxHxD)mm	ϕ42×57.8×45
Weight (g)	105

Dimensions unit:mm

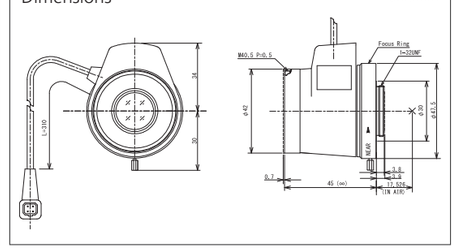


※ P-iris lenses can only be controlled by specifically designed cameras with P-iris software.

FIX P-iris 5MP ITS

MODEL NO.	MG1218KC-MP
Format (")	2/3
Mount	C
Focal Length (mm)	12
Aperture (F)	1.8-16C
Angle of View (HOR)°	39.3
M.O.D. (m)	1
Effective Aperture Front (ϕmm)	20.0
Rear (ϕmm)	13.2
Front Filter Thread (ϕMxP=)	40.5×0.5
Dimensions (ΦxD),(ΦxHxD) or (WxHxD)mm	ϕ42×57.8×45
Weight (g)	103

Dimensions unit:mm

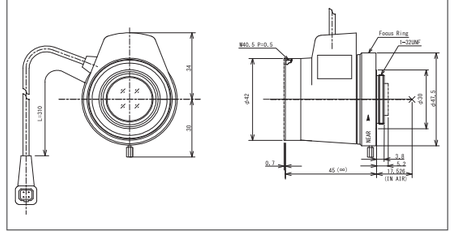


※ P-iris lenses can only be controlled by specifically designed cameras with P-iris software.

FIX
P-iris
5MP
ITS

MODEL NO.	MG1616KC-MP
Format (")	2/3
Mount	C
Focal Length (mm)	16
Aperture (F)	1.8-16C
Angle of View (HOR)°	30.8
M.O.D. (m)	1
Effective Aperture Front (ϕmm)	21.9
Rear (ϕmm)	11.0
Front Filter Thread (ϕMxP=)	40.5×0.5
Dimensions (ΦxD),(ΦxHxD) or (WxHxD)mm	ϕ42×57.8×45
Weight (g)	110

Dimensions unit:mm

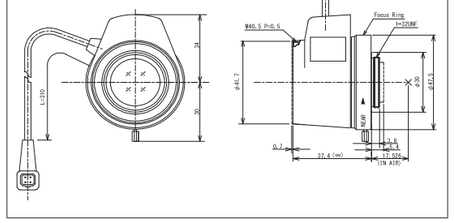


※ P-iris lenses can only be controlled by specifically designed cameras with P-iris software.

FIX
P-iris
5MP
ITS

MODEL NO.	MG2514KC-MP
Format (")	2/3
Mount	C
Focal Length (mm)	25
Aperture (F)	1.4-16C
Angle of View (HOR)°	20.0
M.O.D. (m)	1.5
Effective Aperture Front (ϕmm)	23.4
Rear (ϕmm)	14.6
Front Filter Thread (ϕMxP=)	40.5×0.5
Dimensions (ΦxD),(ΦxHxD) or (WxHxD)mm	ϕ41.7×57.8×37.4
Weight (g)	100

Dimensions unit:mm

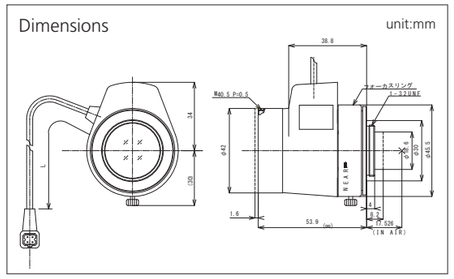


※ P-iris lenses can only be controlled by specifically designed cameras with P-iris software.

NEW
FIX
P-iris
IR
5MP
ITS

MODEL NO.	MG2514KC-MPIR
Format (")	2/3
Mount	C
Focal Length (mm)	25
Aperture (F)	1.4
Angle of View (HOR)°	20.0
M.O.D. (m)	1
Effective Aperture Front (ϕmm)	27.0
Rear (ϕmm)	12.4
Front Filter Thread (ϕMxP=)	40.5×0.5
Dimensions (ΦxD),(ΦxHxD) or (WxHxD)mm	ϕ42×58.6×53.9
Weight (g)	129

Dimensions unit:mm

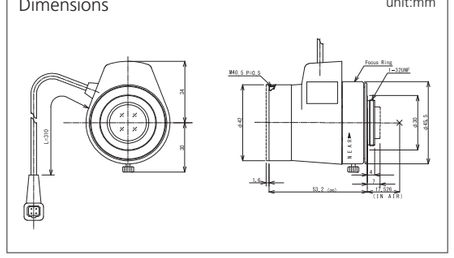


※ P-iris lenses can only be controlled by specifically designed cameras with P-iris software.

FIX
P-iris
IR
5MP
ITS

MODEL NO.	MG3518KC-MPIR
Format (")	2/3
Mount	C
Focal Length (mm)	35
Aperture (F)	1.8-16C
Angle of View (HOR)°	13.9
M.O.D. (m)	1
Effective Aperture Front (ϕmm)	19.8
Rear (ϕmm)	12.1
Front Filter Thread (ϕMxP=)	40.5×0.5
Dimensions (ΦxD),(ΦxHxD) or (WxHxD)mm	ϕ42×56.8×53.2
Weight (g)	123

Dimensions unit:mm

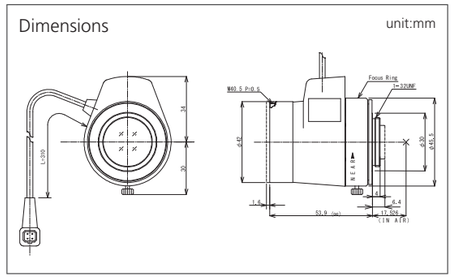


※ P-iris lenses can only be controlled by specifically designed cameras with P-iris software.

FIX
P-iris
IR
5MP
ITS

MODEL NO.	MG5020KC-MPIR
Format (")	2/3
Mount	C
Focal Length (mm)	50
Aperture (F)	2.0-16C
Angle of View (HOR)°	9.8
M.O.D. (m)	2
Effective Aperture Front (ϕmm)	25.2
Rear (ϕmm)	11.0
Front Filter Thread (ϕMxP=)	40.5×0.5
Dimensions (ΦxD),(ΦxHxD) or (WxHxD)mm	ϕ42×56.8×53.9
Weight (g)	129

Dimensions unit:mm

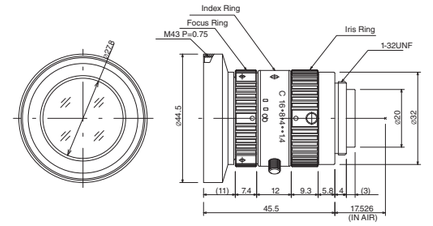


※ P-iris lenses can only be controlled by specifically designed cameras with P-iris software.

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 (ΦxD),(ΦxHxD) or (WxHxD)mm	ϕ44.5×45.5
Weight (g)	102

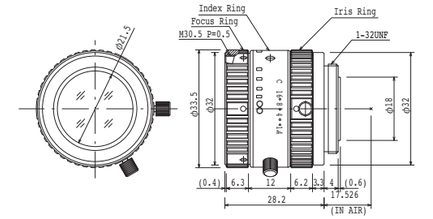
Dimensions unit:mm



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 (ΦxD),(ΦxHxD) or (WxHxD)mm	ϕ33.5×28.2
Weight (g)	63

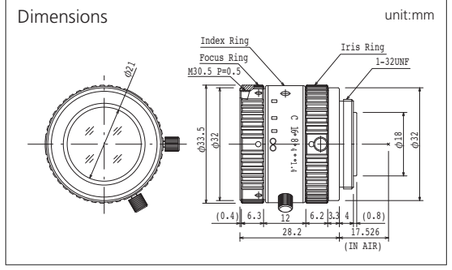
Dimensions unit:mm



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 (ΦxD),(ΦxHxD) or (WxHxD)mm	ϕ33.5×28.2
Weight (g)	62

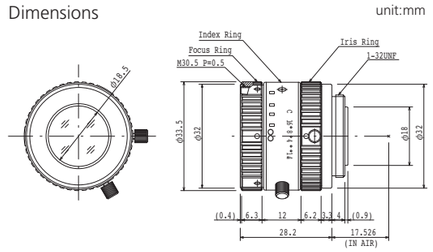
Dimensions unit:mm



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 (ΦxD),(ΦxHxD) or (WxHxD)mm	ϕ33.5×28.2
Weight (g)	60

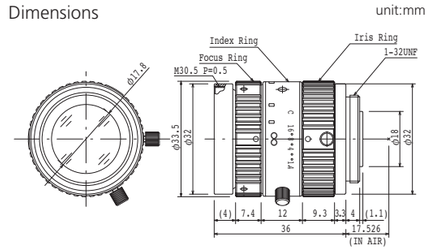
Dimensions unit:mm



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 (ΦxD),(ΦxHxD) or (WxHxD)mm	ϕ33.5×36.0
Weight (g)	71

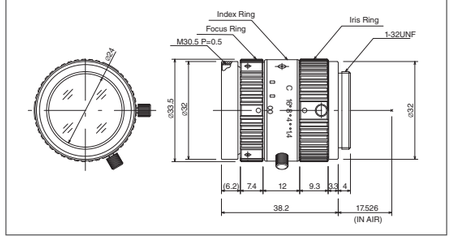
Dimensions unit:mm



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 (ΦxD),(ΦxHxD) or (WxHxD)mm	ϕ33.0×38.2
Weight (g)	87

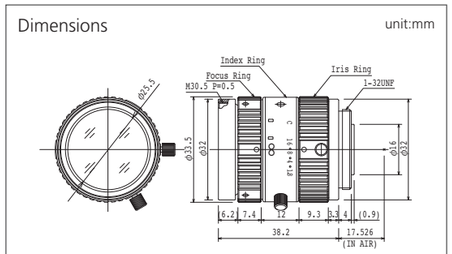
Dimensions unit:mm



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 (ΦxD),(ΦxHxD) or (WxHxD)mm	ϕ33.5×38.2
Weight (g)	85

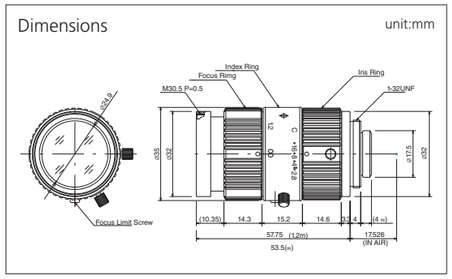
Dimensions unit:mm



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 (ΦxD),(ΦxHxD) or (WxHxD)mm	ϕ35.0×57.75
Weight (g)	113

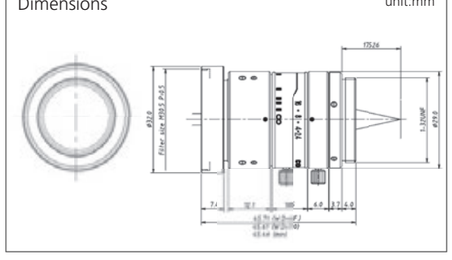
Dimensions unit:mm



NEW
FIX
MANUAL
5MP
FA

MODEL NO.	M0824-MPW2
Format (")	2/3
Mount	C
Focal Length (mm)	8
Aperture (F)	2.4-16C
Angle of View (HOR)°	57.8
M.O.D. (m)	0.5
Effective Aperture Front (ϕmm)	21.0
Rear (ϕmm)	12.0
Front Filter Thread (ϕMxP=)	32×0.5
Dimensions (ΦxD),(ΦxHxD) or (WxHxD)mm	ϕ32×45.71
Weight (g)	80

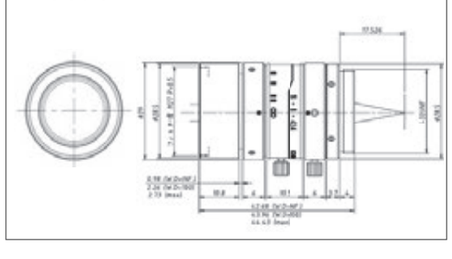
Dimensions unit:mm



NEW
FIX
MANUAL
5MP
FA

MODEL NO.	M1224-MPW2
Format (")	2/3
Mount	C
Focal Length (mm)	12
Aperture (F)	2.4-16C
Angle of View (HOR)°	39.8
M.O.D. (m)	1.0
Effective Aperture Front (ϕmm)	19.5
Rear (ϕmm)	13.5
Front Filter Thread (ϕMxP=)	27×0.5
Dimensions (ΦxD),(ΦxHxD) or (WxHxD)mm	ϕ29×42.68
Weight (g)	72

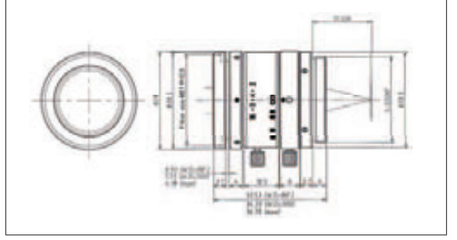
Dimensions unit:mm



FIX
MANUAL
5MP
FA

MODEL NO.	M1620-MPW2
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 (ϕmm)	18.0
Rear (ϕmm)	11.0
Front Filter Thread (ϕMxP=)	27.0×0.5
Dimensions (ΦxD),(ΦxHxD) or (WxHxD)mm	ϕ29×33.53
Weight (g)	53

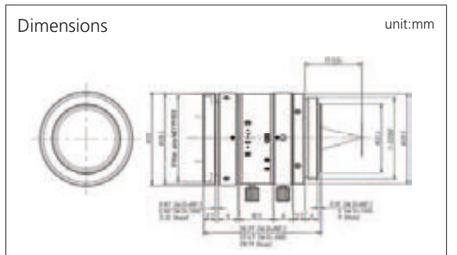
Dimensions unit:mm



FIX
MANUAL
5MP
FA

MODEL NO.	M2518-MPW2
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 (ϕmm)	18.0
Rear (ϕmm)	13.0
Front Filter Thread (ϕMxP=)	27.0×0.5
Dimensions (ΦxD),(ΦxHxD) or (WxHxD)mm	ϕ29×36.37
Weight (g)	60

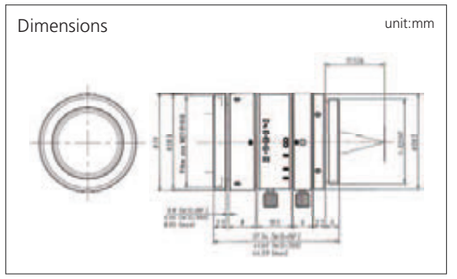
Dimensions unit:mm



FIX
MANUAL
5MP
FA

MODEL NO.	M3520-MPW2
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 (ϕmm)	18.0
Rear (ϕmm)	12.0
Front Filter Thread (ϕMxP=)	27.0×0.5
Dimensions (ΦxD),(ΦxHxD) or (WxHxD)mm	ϕ29×37.34
Weight (g)	59

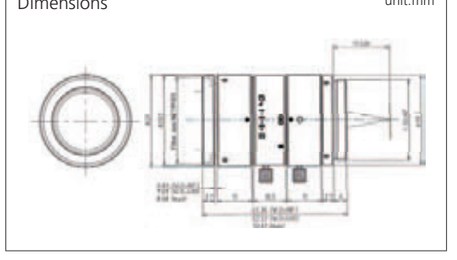
Dimensions unit:mm



FIX
MANUAL
5MP
FA

MODEL NO.	M5028-MPW2
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 (ϕmm)	18.0
Rear (ϕmm)	12.0
Front Filter Thread (ϕMxP=)	27.0×0.5
Dimensions (ΦxD),(ΦxHxD) or (WxHxD)mm	ϕ29×45.36
Weight (g)	69

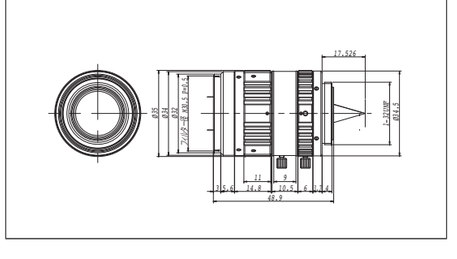
Dimensions unit:mm



FIX
MANUAL
5MP
SECURITY
FA
FLOATING

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 (ϕmm)	18.0
Rear (ϕmm)	13.0
Front Filter Thread (ϕMxP=)	30.5×0.5
Dimensions (ΦxD),(ΦxHxD) or (WxHxD)mm	ϕ35×48.90
Weight (g)	102

Dimensions unit:mm

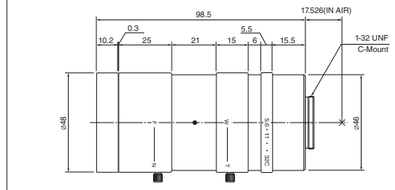


ZOOM MANUAL FA

MODEL NO.	MLH-10X
Format (")	1/2
Mount	C
Focal Length (mm)	* 0.084-0.84X
Aperture (F)	5.6-32C
Angle of View (HOR)°	18.0-3.6
M.O.D. (m)	0.1524 (6")
Effective Aperture Front (ϕmm)	30.0
Rear (ϕmm)	6.4
Front Filter Thread (ϕMxP=)	46.0×0.75
Dimensions (ϕxD),(ϕxHxD) or (WxHxD)mm	ϕ48×98.5
Weight (g)	260

NOTE : Macro zoom lens ＊mark shows maximum magnification

Dimensions unit:mm

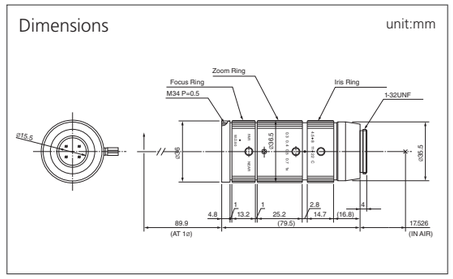


ZOOM MANUAL 1MP FA

MODEL NO.	MLM-3XMP
Format (")	2/3
Mount	C
Focal Length (mm)	* 0.3-1.0X
Aperture (F)	4.5-22C
Angle of View (HOR)°	11.8-2.78
M.O.D. (m)	0.09
Effective Aperture Front (ϕmm)	15.5
Rear (ϕmm)	7.0
Front Filter Thread (ϕMxP=)	34.0×0.5
Dimensions (ϕxD),(ϕxHxD) or (WxHxD)mm	ϕ36.5×79.5
Weight (g)	150

NOTE : Macro zoom lens ＊mark shows maximum magnification

Dimensions unit:mm

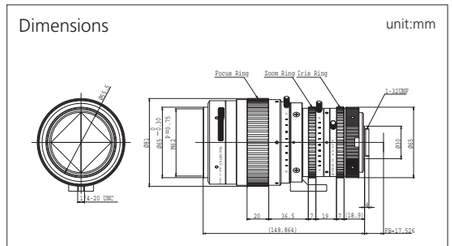


ZOOM MANUAL 5MP FA

型名	TEC-V7X
Format (")	1.1
Mount	C
Focal Length (mm)	* 0.07-0.5X
Aperture (F)	4.3-32
Angle of View (HOR)°	7.05-1.12
M.O.D. (m)	0.182
Effective Aperture Front (ϕmm)	55.2
Rear (ϕmm)	14.9
Front Filter Thread (ϕMxP=)	62.0×0.75
Dimensions (ϕxD),(ϕxHxD) or (WxHxD)mm	ϕ61×152.86
Weight (g)	1400

NOTE : Macro zoom lens with telecentric design ＊mark shows maximum magnification

Dimensions unit:mm

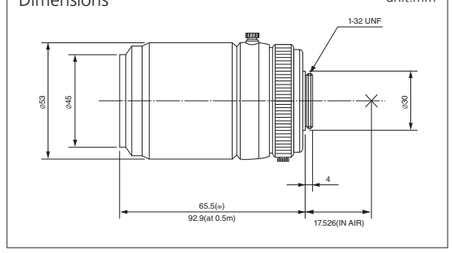


FIX MANUAL FA

MODEL NO.	TEC-M55
Format (")	2/3
Mount	C
Focal Length (mm)	55
Aperture (F)	2.8-32C
Angle of View (HOR)°	9.2
M.O.D. (m)	0.14
Effective Aperture Front (ϕmm)	33.0
Rear (ϕmm)	13.3
Front Filter Thread (ϕMxP=)	43.0×0.75
Dimensions (ϕxD),(ϕxHxD) or (WxHxD)mm	ϕ53×92.9
Weight (g)	320

NOTE : Telecentric lens TEC-M55 has 0.75X and 2X rear adapters as option.

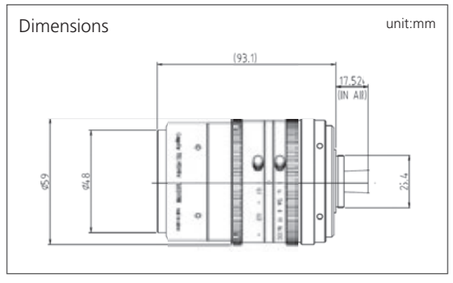
Dimensions unit:mm



FIX MANUAL 5MP FA NEW

MODEL NO.	TEC-M55MPW
Format (")	2/3
Mount	C
Focal Length (mm)	55
Aperture (F)	3.0-22C
Angle of View (HOR)°	0.14
M.O.D. (m)	0.14
Effective Aperture Front (ϕmm)	30.8
Rear (ϕmm)	10.7
Front Filter Thread (ϕMxP=)	46.0×0.75
Dimensions (ϕxD),(ϕxHxD) or (WxHxD)mm	ϕ59×93.1
Weight (g)	470

Dimensions unit:mm



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

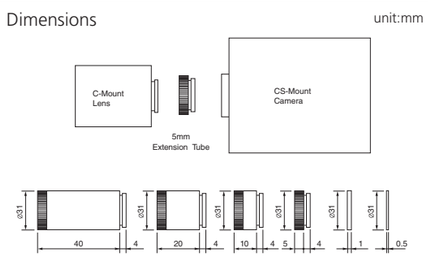
MODEL NO.	EX1.5C
Description	1.5X Extender for C-mount
Application	Attached between lens and camera - Makes focal length 1.5X

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

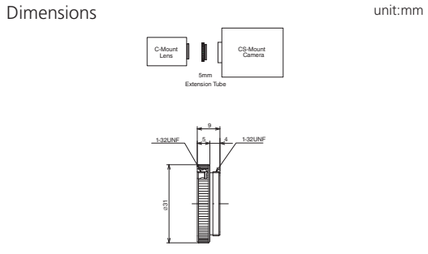
MODEL NO.	VM100
Description	Extension Tube Kit 40, 20, 10, 5, 1, 0.5mm
Application	Attached between lens and camera - Reduces minimum focusing distance

Dimensions unit:mm



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

Dimensions unit:mm



MODEL NO.	M55-0.75X
Description	Rear converter 0.75X (Designed for TEC-M55)
Application	Makes focal length 0.75X

MODEL NO.	M55-2.0X
Description	Rear converter 2.0X (Designed for TEC-M55)
Application	Makes focal length 2.0X

SWIR Lens

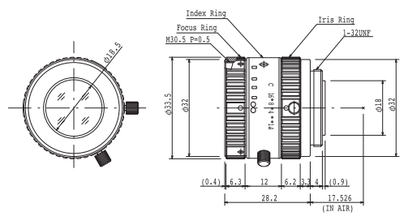
Short-wavelength IR (800-1700nm)

FIX
MANUAL
SWIR
FA

NEW

MODEL NO.	M1614-SW
Focal Length (mm)	16
Aperture (F)	1.4-16C
Image Circle	φ12.3
Mount	C
Angle of View (HOR)° (15μm, 640x512 sensor)	21.6
M.O.D. (m)	0.3
Front Filter Thread (φ MxP=)	30.5×0.5
Dimensions	φ33.5×28.2
Weight (g)	60

Dimensions unit:mm

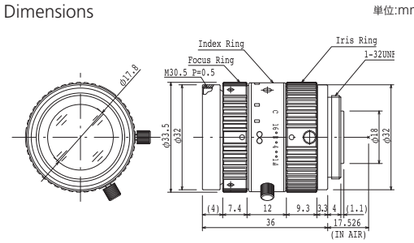


FIX
MANUAL
SWIR
FA

NEW

MODEL NO.	M2514-SW
Focal Length (mm)	25
Aperture (F)	1.4-16C
Image Circle	φ12.3
Mount	C
Angle of View (HOR)° (15μm, 640x512 sensor)	21.6
M.O.D. (m)	0.3
Front Filter Thread (φ MxP=)	30.5×0.5
Dimensions	φ33.5×36.0
Weight (g)	71.2

Dimensions 単位:mm

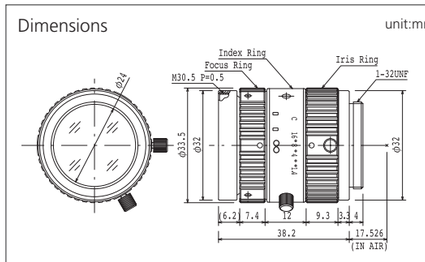


FIX
MANUAL
SWIR
FA

NEW

MODEL NO.	M3514-SW
Focal Length (mm)	35
Aperture (F)	1.4-16C
Image Circle	φ12.3
Mount	C
Angle of View (HOR)° (15μm, 640x512 sensor)	16.0
M.O.D. (m)	0.3
Front Filter Thread (φ MxP=)	30.5×0.5
Dimensions	φ33.5×38.2
Weight (g)	87

Dimensions unit:mm

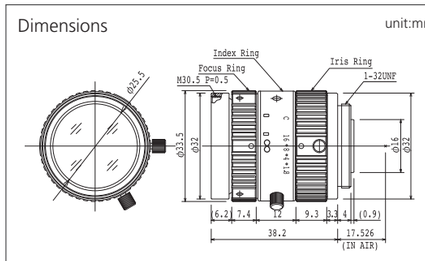


FIX
MANUAL
SWIR
FA

NEW

MODEL NO.	M5018-SW
Focal Length (mm)	50
Aperture (F)	1.8-16C
Image Circle	φ12.3
Mount	C
Angle of View (HOR)° (15μm, 640x512 sensor)	11.3
M.O.D. (m)	0.3
Front Filter Thread (φ MxP=)	30.5×0.5
Dimensions	φ33.5×38.2
Weight (g)	85

Dimensions unit:mm



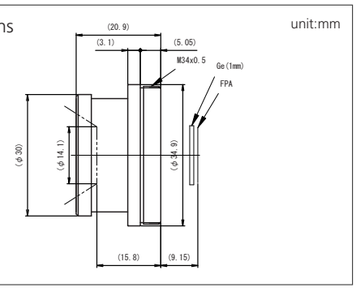
LWIR Lens

Long-wavelength IR (8-12μm)

FIX
LWIR
ATHERMAL
17μm

MODEL NO.	TH17V1311-34
Focal Length (mm)	13
Aperture (F)	1.1
Image Circle	φ13.6
Mount (mm)	M34 x 0.5 (Pitch)
Wave Band (μm)	8-12
Angle of View (HOR)° (17μm, 640 x480 sensor)	50.3
Back Focal Length (mm) (Include 1mm Ge Window)	12.44
Material Used	Zinc Sulfide
Dimensions	φ30×20.9
Weight (g)	19

Dimensions unit:mm

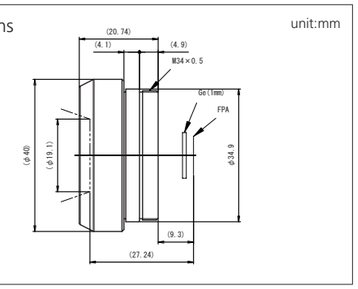


NOTE : DLC (Diamond Like Carbon) coating option is available.

FIX
LWIR
ATHERMAL
17μm

MODEL NO.	TH17V1810-34
Focal Length (mm)	18.8
Aperture (F)	1.0
Image Circle	φ13.6
Mount (mm)	M34 x 0.5 (Pitch)
Wave Band (μm)	8-12
Angle of View (HOR)° (17μm, 640 x480 sensor)	32.9
Back Focal Length (mm) (Include 1mm Ge Window)	11.3
Material Used	Zinc Sulfide
Dimensions	φ40×20.74
Weight (g)	20

Dimensions unit:mm



NOTE : DLC (Diamond Like Carbon) coating option is available.

FIX
LWIR
ATHERMAL
17μm

MODEL NO.	TH17V3511-34
Focal Length (mm)	35
Aperture (F)	1.1
Image Circle	φ13.6
Mount (mm)	M34 x 0.5 (Pitch)
Wave Band (μm)	8-12
Angle of View (HOR)° (17μm, 640 x480 sensor)	17.7
Back Focal Length (mm) (Include 1mm Ge Window)	13.2
Material Used	Zinc Sulfide
Dimensions	φ46×43.1
Weight (g)	94

Dimensions unit:mm

NOTE : DLC (Diamond Like Carbon) coating option is available.

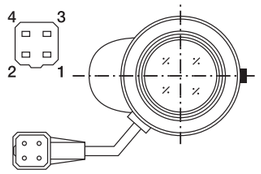
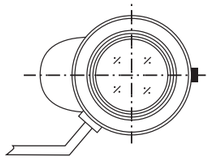
CABLE DIAGRAMS OF AUTO IRIS LENSES

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.

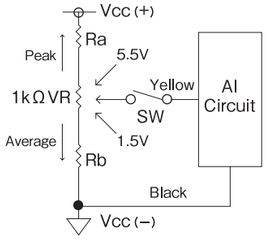
	FCS(w/o Amplifier)	AFCS(with Amplifier)
Supplied Power	-	DC8V ~16V 35mA max
Input Signal	-	Video Signal (V or Vs)
Iris Accuracy	-	± 15% (Video level)
Sensitivity Adjustment	-	0.5V (p-p) ~1.0V (p-p) (Video signal)
Input Impedance	-	High impedance
Transit Time	-	Approx. 2sec
Light Weighting Method	-	Adjustable between Average-Peak (to be set at average at factory)
Operating Temperature	−10℃~+50℃	−10℃~+50℃
Wiring Diagram	 Pin No. 1 Brown Control (−) 2 Red Control (+) 3 Yellow Drive (+) 4 Orange Drive (−)	 AFCS LENS • 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

ALC remote

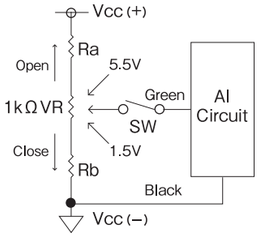


*Vcc represents input voltage.
*The ALC should be set at the full peak position.

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)

LEVEL remote

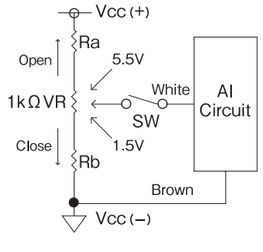


*Vcc represents input voltage.

3) Override manual

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

Override manual

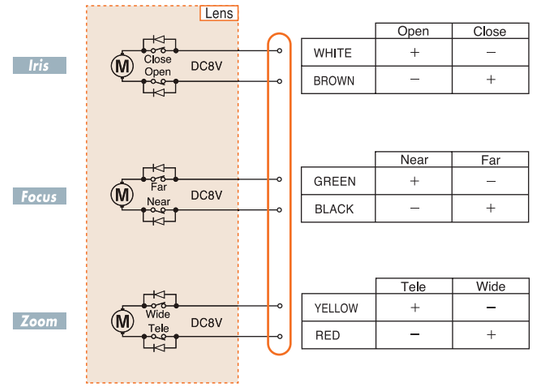


*Vcc represents input voltage.
*The remote voltage should be set between 1.5 ~ 5.5V, and level remote should be OFF.

WIRING DIAGRAMS FOR MOTORIZED ZOOM LENSES 1

Motorized zoom / 3 motor type

Iris, focus & zoom can be adjusted by controller.



	Open	Close
WHITE	+	−
BROWN	−	+

	Near	Far
GREEN	+	−
BLACK	−	+

	Tele	Wide
YELLOW	+	−
RED	−	+

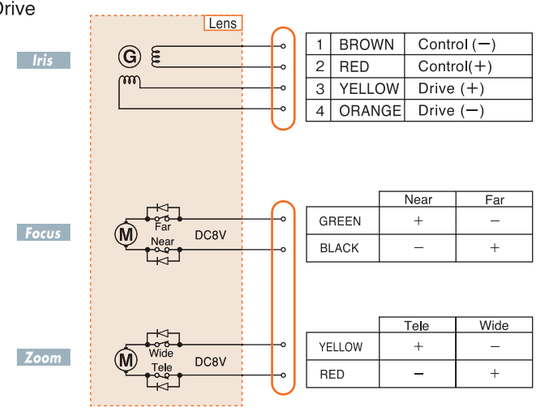
Remarks : Connect together with iris, focus and zoom for common system when necessary.

Motorized zoom / auto iris type

Auto-iris, focus & zoom can be adjusted by controller.

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

DC Drive

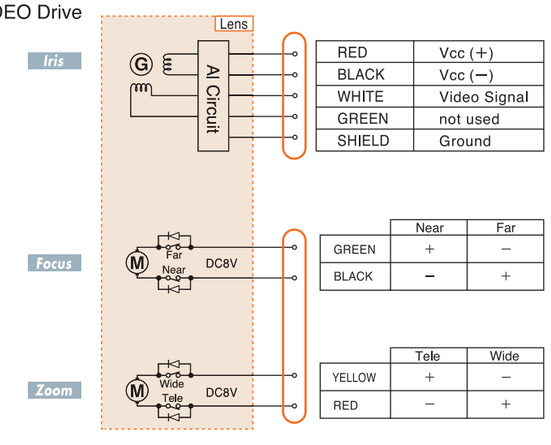


1	BROWN	Control (−)
2	RED	Control(+)
3	YELLOW	Drive (+)
4	ORANGE	Drive (−)

	Near	Far
GREEN	+	−
BLACK	−	+

	Tele	Wide
YELLOW	+	−
RED	−	+

VIDEO Drive



RED	Vcc (+)
BLACK	Vcc (−)
WHITE	Video Signal
GREEN	not used
SHIELD	Ground

	Near	Far
GREEN	+	−
BLACK	−	+

	Tele	Wide
YELLOW	+	−
RED	−	+

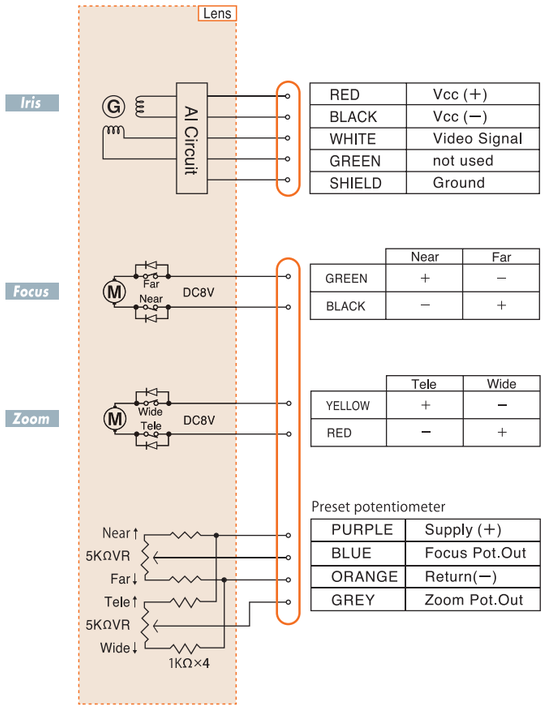
Remarks : Connect together with iris, focus and zoom for common system when necessary.

WIRING DIAGRAMS FOR MOTORIZED ZOOM LENSES 2

Motorized zoom preset potentiometer for focus & zoom

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

(Some lenses have Level, ALC & Override remote. Please see remote functions on page 51.)



RED	Vcc (+)
BLACK	Vcc (−)
WHITE	Video Signal
GREEN	not used
SHIELD	Ground

	Near	Far
GREEN	+	−
BLACK	−	+

	Tele	Wide
YELLOW	+	−
RED	−	+

Preset potentiometer

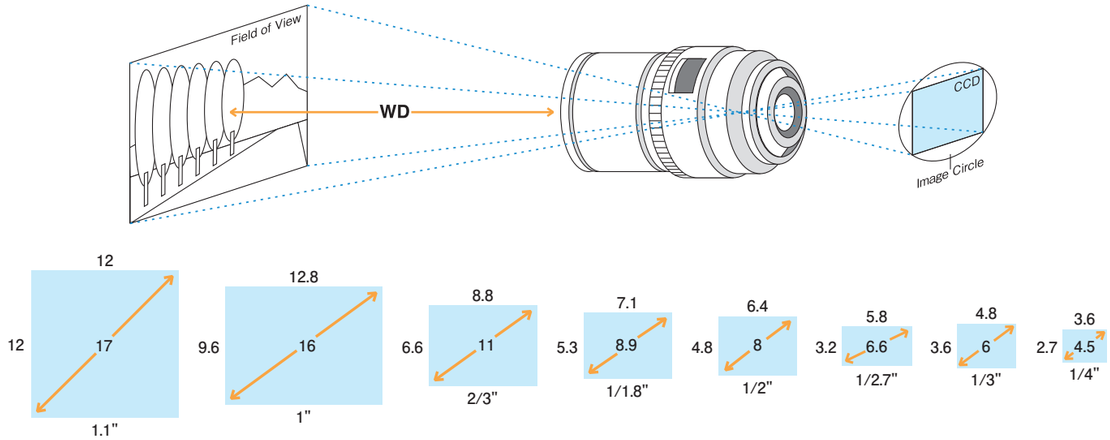
PURPLE	Supply (+)
BLUE	Focus Pot.Out
ORANGE	Return(−)
GREY	Zoom Pot.Out

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

Note : Regarding the wiring diagram of x60 and x20 Zoomlens, please refer to the instruction manual.

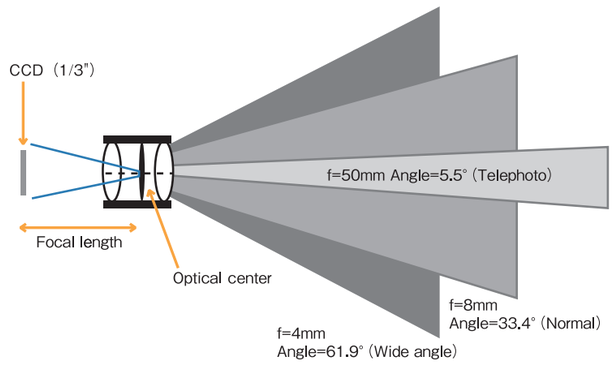
IMAGE SIZE

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 1.1," with a 1/3" 8mm lens giving the same angle as a 1.1" 8mm lens. The latter combination also provides increased resolution and picture quality as only the centre of the lens is being utilized, where the optics can be ground more accurately.



FOCAL LENGTH

The focal length of the lens is measured in mm and directly relates to the angle of view that will be achieved. Short focal length provides wide angle of view and long focal length becomes telephoto, with narrow angle of view. A normal angle of view is similar to what we see with our own eye and has a relative focal length equal to the pick up device. The "computar" range calculator is simple device to use for estimating focal length, object dimension and angle of view, alternatively the VM300 view finder gives an optical way of finding focal length.



TECHNICAL INFORMATION

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.

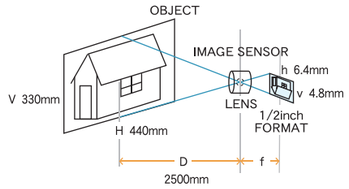
Formula for calculation

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

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



(1) In case of vertical size
1/2 inch camera — v = 4.8mm
Vertical size of object — V = 330mm(33cm)
Distance from lens to object — D = 2500mm(250cm)
substitute these datas to formula (1)

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

(2) In case of horizontal size
1/2 inch camera — h = 6.4mm
Horizontal size of object — H = 440mm(44cm)
Distance from lens to object — D = 2500mm(250cm)
substitute these datas to formula (2)

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

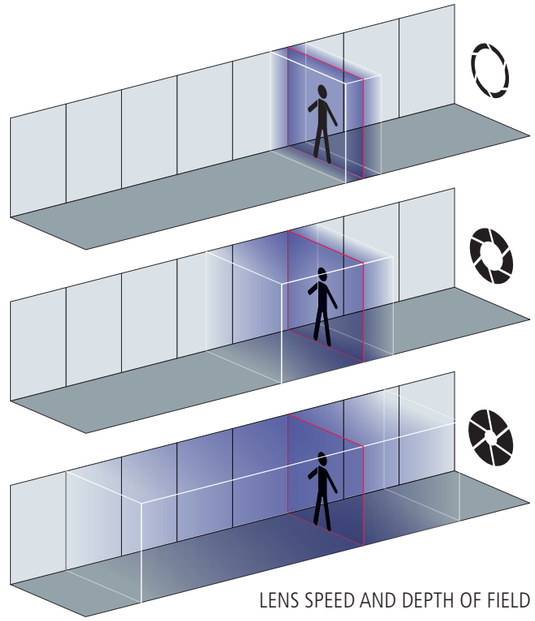
COMPARISON OF MONITORING IMAGES

※ 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.



LENS SPEED AND DEPTH OF FIELD IMAGE

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 dept 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.

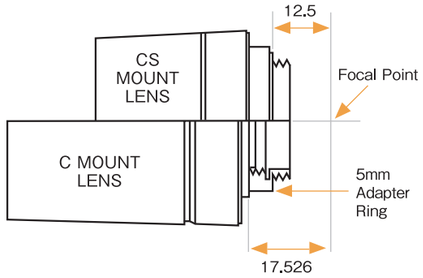
F STOP

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

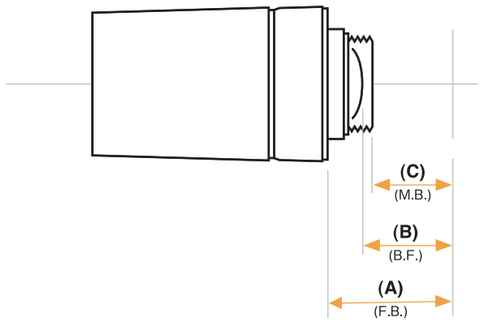
C OR CS MOUNT

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

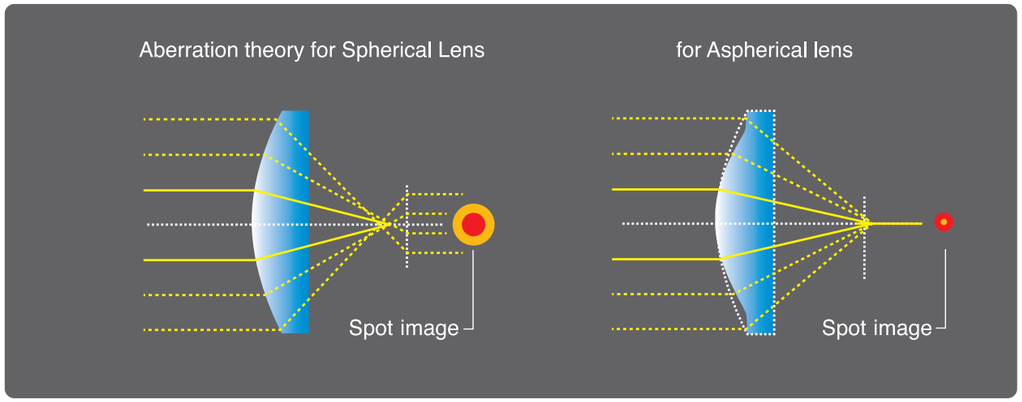


(A) Flange Back
Distance between the lens flange and CCD focal plane

(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

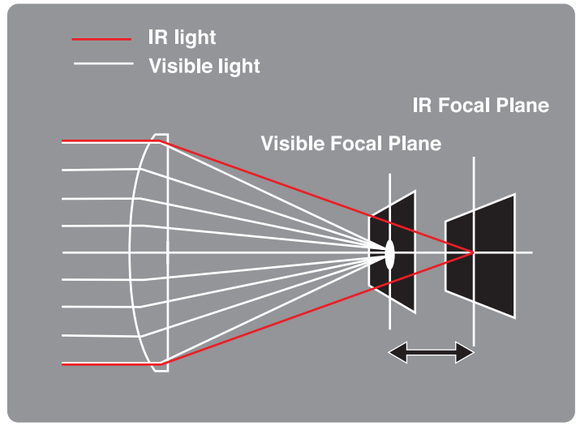


Spherical lenses have constant refractive indices and are commonly used in almost all CCTV lenses. They are designed in such a way so that light passing through the glass and center of a spherical element should fall on a single point on the image plane, but causing some spherical aberration. This problem 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.

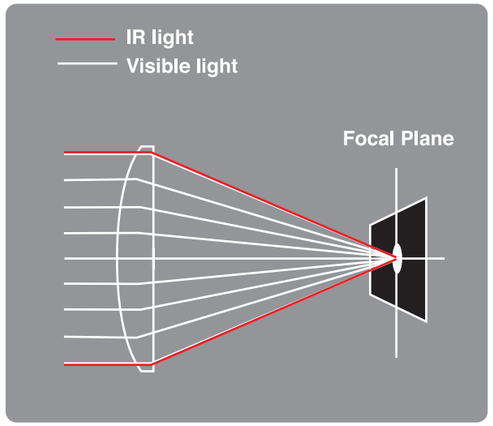
TECHNICAL INFORMATION

MECHANISM AND ADVANTAGEOUS EFFECT OF IR LENS

■ NON IR LENS

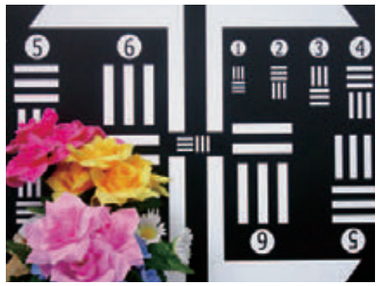


■ IR LENS



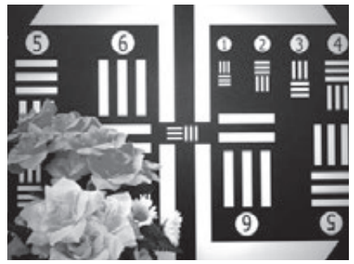
Day & Night cameras normally operate in the near-infrared / infrared zones at night, making the image "out of focus" and unsuitable if used with a conventional lens. Computar® has developed IR Lenses that utilize a special optical glass material which minimizes light dispersion. As a result, refocusing 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.

Daytime



Nighttime

IR lens



Non IR lens

※ Monitoring images with Day & Night cameras

TECHNICAL INFORMATION

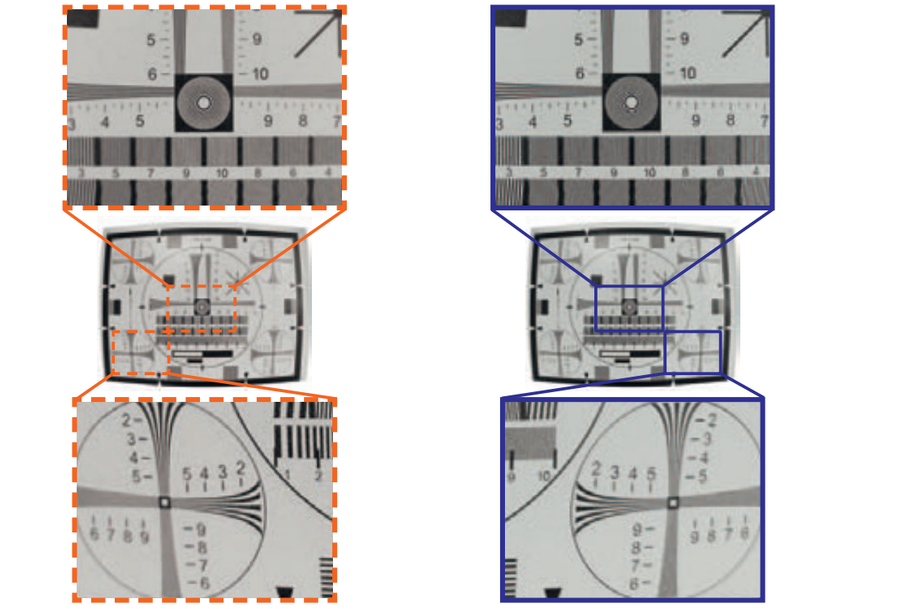
MEGAPIXEL

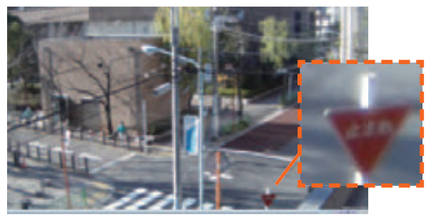
CCD and CMOS image sensors use a series of pixels arranged on a 2 dimensional grid. These pixels convert an optical image to an electronic signal. The number of pixels in an image usually defines the resolution, with more pixels meaning higher resolution. A megapixel is defined as one million pixels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

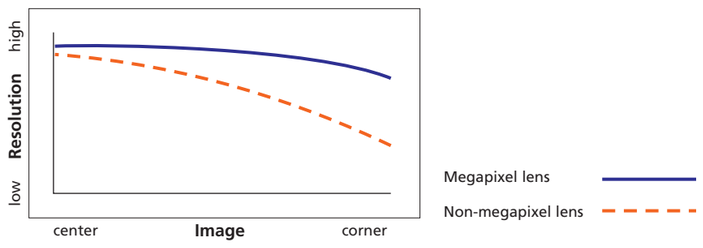
MEGAPIXEL LENS FOR MEGAPIXEL CAMERA

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 illustrations of lens performance.

P-IRIS LENS

Computar® has launched P-iris (Precise iris) lens series targeted at the network camera market. This series is equipped with a stepping motor for digital iris control instead of a conventional galvanometer. With this technology, Computar® has created a dedicated network camera lens that can systematically control the iris. Combined with specialized software in the camera, P-iris lenses deliver superior picture quality, enhancing contrast, resolution and depth of field in a wide range of applications, not just to maintain the optimum light level to the image as an existing function.

■ ENHANCING PICTURE QUALITY

Megapixel cameras with the P-iris system minimize the difference in resolution between the center and corners of the image, enhancing overall picture quality and sharpness by enabling the optimal iris position to be set. Also, P-iris limits the iris position to prevent diffraction when the iris becomes too small in extremely bright situations.

■ MAXIMIZE DEPTH OF FIELD

Having good depth of field throughout the scene is essential to achieve optimized image quality. Unfortunately, megapixel sensors often have small pixels which can cause a narrow depth of field. P-iris technology 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

Various vari-focal board lenses using P-iris technology are available to fit a variety of mini dome and bullet camera housings. 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

P3 ~ 4

	Model No.	Format inch	Mount	Focal Length (mm)	Aperture (F)	Angle of View (HORIZONTAL) UNIT: (°) 2/3" (8.8×6.6mm)	1/2" (6.4×4.8mm)	1/3" (4.8×3.6mm)	1/4" (3.6×2.7mm)
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

P4 ~ 5

	Model No.	Format inch	Mount	Focal Length (mm)	Aperture (F)	Angle of View (HORIZONTAL) UNIT: (°) 2/3" (8.8×6.6mm)	1/2" (6.4×4.8mm)	1/3" (4.8×3.6mm)	1/4" (3.6×2.7mm)
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

VARI-FOCAL MANUAL IRIS

P6 ~ 8

	Model No.	Format inch	Mount	Focal Length (mm)	Aperture (F)	Angle of View (HORIZONTAL) UNIT: (°) 2/3" (8.8×6.6mm)	1/2" (6.4×4.8mm)	1/3" (4.8×3.6mm)	1/4" (3.6×2.7mm)
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

VARI-FOCAL AUTO IRIS — DC DRIVE / VIDEO DRIVE

P9 ~ 14

	Model No.	Format inch	Mount	Focal Length (mm)	Aperture (F)	Angle of View (HORIZONTAL) UNIT: (°) 2/3" (8.8×6.6mm)	1/2" (6.4×4.8mm)	1/3" (4.8×3.6mm)	1/4" (3.6×2.7mm)
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

PINHOLE — MANUAL IRIS / DC DRIVE / VIDEO DRIVE

P15

	Model No.	Format inch	Mount	Focal Length (mm)	Aperture (F)	Angle of View (HORIZONTAL) UNIT: (°) 2/3" (8.8×6.6mm)	1/2" (6.4×4.8mm)	1/3" (4.8×3.6mm)	1/4" (3.6×2.7mm)
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

MANUAL ZOOM — MANUAL IRIS

P15 ~ 16

	Model No.	Format inch	Mount	Focal Length (mm)	Aperture (F)	Angle of View (HORIZONTAL) UNIT: (°) 2/3" (8.8×6.6mm)	1/2" (6.4×4.8mm)	1/3" (4.8×3.6mm)	1/4" (3.6×2.7mm)
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

P16

	Model No.	Format inch	Mount	Focval Length (mm)	Aperture (F)	Angle of View (HORIZONTAL) UNIT: (°) 2/3" (8.8×6.6mm)	1/2" (6.4×4.8mm)	1/3" (4.8×3.6mm)	1/4" (3.6×2.7mm)
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" 1/1.8" 2/3" — P17 ~ 34

	Model No.	Format	Mount	Focal Length (mm)	Aperture (F)	Angle of View (HORIZONTAL) UNIT: (°)				
		inch				2/3" (8.8×6.6mm)	1/1.8" (7.1×5.4mm)	1/2" (6.4×4.8mm)	1/3" (4.8×3.6mm)	1/4" (3.6×2.7mm)
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
MEGAPIXEL	H10Z0819-MP series	1/2	C	8-80	1.9 ~	-	-	44.81-4.45	34.62-3.38	26.39-2.55
	H21Z1016-MP series	1/2	C	10-210	1.6 ~	-	-	35.4-1.72	26.9-1.30	20.2-0.98
	E24Z1018-MP(IR) series	1/1.8	C	10-240	1.8 ~	-	39.0-1.7	35.2-1.6	26.5-1.2	-
	M24Z1527-MP series	2/3	C	15-360	F2.7 ~	32.3-1.4	26.3-1.2	23.6-1.0	-	-
	M24Z2138-MP series	2/3	C	21-500	F3.8 ~	23.5-1.0	18.9-0.8	17.1-0.8	-	-
	H35Z1015-MP series	1/2	C	10-350	1.5 ~	-	-	35.30-1.05	26.70-0.79	20.1-0.44
	H62Z1235-MP series	1/2	C	12.5-775	3.5 ~	-	-	28.77-0.47	21.8-0.35	16.41-0.26

MEGAPIXEL — SECURITY — P35 ~ 39

	Model No.	Format	Mount	Focal Length (mm)	Aperture (F)	Angle of View (HORIZONTAL) UNIT: (°)							
		inch				2/3" (8.8×6.6mm)	1/1.8" (7.1×5.4mm)	1/2" (6.4×4.8mm)	1/2.8" (5.2×3.9mm)	1/2.7" (16 : 9)	1/2.7" (4 : 3)	1/3" (4.8×3.6mm)	1/4" (3.6×2.7mm)
MANUAL IRIS	H2Z0414FC-MP	1/2	C	4-8	1.4-16C	-	-	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
	A4Z2812CS-MPIR	1/2.7	CS	2.8-10	1.2-360C	-	-	-	110.3-30.5	127.6-34.3	113.4-31.2	101.3-28.4	73.7-21.3
	A6Z8516CS-MP	1/2.7	CS	8.5-50	1.6-360C	-	-	-	34.0-6.0	38.0-6.8	34.8-6.2	31.6-5.7	-
	A4Z1214CS-MPIR	1/2.7	CS	12.5-50	1.4-16C	-	-	-	23.4-6.1	26.3-6.7	24.0-6.2	21.7-5.6	-
	H5Z2518C-MP	1/2	C	25-135	1.8-16C	-	-	14.5-2.8	-	-	-	10.8-2.1	-
	E3Z4518CS-MPIR	1/1.8	CS	4.5-13.2	1.8-16C	-	105.3-35.3	80.0-28.6	-	-	-	60.0-21.5	-
	A3Z2812CS-MPWIR	1/2.7	CS	2.8-8.5	1.2-16C	-	-	-	108.8-37.0	124.7-41.3	110.8-37.6	99.1-34.1	72.3-25.6
	E3Z3915CS-MPWIR	1/1.8	CS	3.9-10	1.5-16C	-	108.1-42.1	96.0-37.9	-	-	-	70.2-28.4	-
DC IRIS	TG4Z2816FCS-MPIR	1/3	CS	2.8-12	1.6-360C	-	-	-	-	-	-	102.2-23.7	74.2-17.8
	HG2Z0414FC-MP	1/2	C	4-8	1.4-360C	-	-	90.4-47.0	-	-	-	67.0-35.3	50.0-26.5
	MG3Z1228FC-MP	2/3	C	12-36	2.8-360C	41.0-13.6	-	30.2-10.0	-	-	-	22.8-7.6	17.1-5.7
	AG4Z2812FCS-MPIR	1/2.7	CS	2.8-10	1.2-360C	-	-	-	110.3-30.5	127.6-34.3	113.4-31.2	101.3-28.4	73.7-21.3
	AG6Z8516FCS-MP	1/2.7	CS	8.5-50	1.6-360C	-	-	-	34.0-6.0	38.0-6.8	34.8-6.2	31.6-5.7	-
	AG4Z1214FCS-MPIR	1/2.7	CS	12.5-50	1.4-360C	-	-	-	23.4-6.1	26.3-6.7	24.0-6.2	21.7-5.6	-
	HG5Z2518FC-MP	1/2	C	25-135	1.8-16C	-	-	14.5-2.8	-	-	-	10.8-2.1	-
	AG3Z2812FCS-MPWIR	1/2.7	CS	2.8-8.5	1.2-16C	-	-	-	108.8-37.0	124.7-41.3	110.8-37.6	99.1-34.1	72.3-25.6
	EG3Z3915FCS-MPWIR	1/1.8	CS	3.9-10	1.5-16C	-	108.1-42.1	96.0-37.9	-	-	-	70.2-28.4	-
P-IRIS	AG4Z2812KCS-MPIR	1/2.7	CS	2.8-10	1.2-360C	-	-	-	110.3-30.5	127.6-34.3	113.4-31.2	101.3-28.4	73.7-21.3
	AG6Z8516KCS-MP	1/2.7	CS	8.5-50	1.6-360C	-	-	-	34.0-6.0	38.0-6.8	34.8-6.2	31.6-5.7	-
	AG4Z1214KCS-MPIR	1/2.7	CS	12.5-50	1.4-16C	-	-	-	23.4-6.1	26.3-6.7	24.0-6.2	21.7-5.6	-
	AG3Z2812KCS-MPWIR	1/2.7	CS	2.8-8.5	1.2-16C	-	-	-	108.8-37.0	124.7-41.3	110.8-37.6	99.1-34.1	72.3-25.6
	EG3Z3915KCS-MPWIR	1/1.8	CS	3.9-10	1.5-16C	-	108.1-42.1	96.0-37.9	-	-	-	70.2-28.4	-

MEGAPIXEL MONO FOCAL — ITS — P40 ~ 43

	Model No.	Format	Mount	Focal Length (mm)	Aperture (F)	Angle of View (HORIZONTAL) UNIT: (°)			
		inch				2/3" (8.8×6.6mm)	1/2" (6.4×4.8mm)	1/3" (4.8×3.6mm)	1/4" (3.6×2.7mm)
MANUAL IRIS	M0918FIC(KC)-MP	2/3	C	9	1.8-16C	52.1	38.7	29.3	-
	M1218FIC(KC)-MP	2/3	C	12	1.8-16C	39.3	29.1	22.1	-
	M1616FIC(KC)-MP	2/3	C	16	1.6-16C	30.8	22.7	17.1	-
	M2514FIC(KC)-MP (IR)	2/3	C	25	1.4-16C	20.0	14.6	11.0	-
	M3518FIC(KC)-MPIR	2/3	C	35	1.8-16C	13.9	10.2	7.6	-
	M5020FIC(KC)-MPIR	2/3	C	50	2.0-16C	9.8	7.1	5.3	-
P-IRIS	MG0918FC-MP	2/3	C	9	1.8-360C	52.1	38.7	29.3	-
	MG1218FC-MP	2/3	C	12	1.8-360C	39.3	29.1	22.1	-
	MG1616FC-MP	2/3	C	16	1.6-360C	30.8	22.7	17.1	-
	MG2514FC-MP (IR)	2/3	C	25	1.4-360C	20.0	14.6	11.0	-
	MG3518FC-MPIR	2/3	C	35	1.8-360C	13.9	10.2	7.6	-
	MG5020FC-MPIR	2/3	C	50	2.0-360C	9.8	7.1	5.3	-

MEGAPIXEL FA — FA / IMAGE PROCESSING / SECURITY / ITS — P44 ~ 46

	Model No.	Format	Mount	Focal Length (mm)	Aperture (F)	Angle of View (HORIZONTAL) UNIT: (°)			
		inch				2/3" (8.8×6.6mm)	1/2" (6.4×4.8mm)	1/3" (4.8×3.6mm)	1/4" (3.6×2.7mm)
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
5 MEGAPIXEL	M0824-MPW2	2/3	C	8	2.4-16	57.8	43.7	33.2	25.2
	M1224-MPW2	2/3	C	12	2.4-16	39.8	29.5	22.3	16.8
	M1620-MPW2	1/2	C	16	2.0-16	30.7	22.6	17.1	12.8
	M2518-MPW2	1/2	C	25	1.8-16	19.9	14.5	10.9	8.2
	M3520-MPW2	1/2	C	35	2.0-22	14.3	10.4	7.8	5.9
	M5028-MPW2	1/2	C	50	2.8-32	10.0	7.3	5.5	4.1
	M2518-MPW	1/2	C	25	1.8-16	20.5	15.0	11.3	8.5

OTHERS — FA / IMAGE PROCESSING — P47

	Model No.	Format	Mount	Focal Length (mm)	Aperture (F)	Angle of View (HORIZONTAL) UNIT: (°)			
		inch				1.1" (12×12mm)	1" (12.8×9.6mm)	2/3" (8.8×6.6mm)	1/2" (6.4×4.8mm)
MACRO TELECENTRIC	TEC-M55	2/3	C	55	2.8-32C	-	-	9.2	6.7
	TEC-M55MPW	2/3	C	55	3.0-22C	-	-	9.2	6.7
	MLH-10X	1/2	C	※ 0.084-0.84X	5.6-32C	-	-	-	18.0-3.6
	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	※ 0.07X-0.5X	4.3-32	7.05-1.12	7.28-1.25	5.08-0.89	-

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

SWIR — Short-wavelength IR (800-1700nm) — P49

	Model No.	Format	Mount	Focal Length (mm)	Aperture (F)	Angle of View (HORIZONTAL)		Angle of View (HORIZONTAL, InGaAs, Sensor)		
		inch				2/3"	1/2"	640×512 (15μm)	320×256 (25μm)	320×256 (20μm)
SWIR	M1614-SW	2/3	C	16	1.4-16C	30.6	22.5	33.2	27.9	22.5
	M2514-SW	2/3	C	25	1.4-16C	19.8	14.5	21.6	18.1	14.5
	M3514-SW	2/3	C	35	1.4-16C	14.7	10.7	16.0	13.4	10.7
	M5018-SW	2/3	C	50	1.8-16C	10.4	7.6	11.3	9.5	7.6

LWIR — Long-wavelength IR (8-12μm) — P50

	Model No.	Mount (mm)	Focal Length (mm)	Aperture (F)	Angle of View (HORIZONTAL) UNIT: (°)			
					640 x 480 (17μm)	384 x 288 (25μm)	320 x 240 (25μm)	320 x 240 (17μm)
LWIR	TH17V1311-34	M34 x 0.5(Pitch)	13	1.1	50.3	43.9	36.2	24.3
	TH17V1810-34	M34 x 0.5(Pitch)	18.8	1.0	32.9	28.9	24.3	16.3
	TH17V3511-34	M34 x 0.5(Pitch)	35	1.1	17.7	15.6	13.0	8.9

※ SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

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