

LENS

PRODUCT GUIDE

2014.3



compart's®



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® 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.

C O N T E N T S

01 FEATURE INDICATION

02 MODEL NAME CODING RULE

03 MANUAL IRIS C-MOUNT / CS-MOUNT

04 AUTO IRIS DC DRIVE / VIDEO DRIVE

06 VARIFOCAL MANUAL IRIS

09 VARIFOCAL AUTO IRIS DC DRIVE

12 VARIFOCAL AUTO IRIS VIDEO DRIVE

15 PINHOLE / MANUAL ZOOM MANUAL IRIS / DC DRIVE / VIDEO DRIVE

17 MOTORIZED ZOOM 1/3" 1/2"

27 MEGAPIXEL MOTORIZED ZOOM 1/2" 1/1.8" 2/3" MEGAPIXEL

35 MEGAPIXEL SECURITY / FA • IMAGE PROCESSING

48 ACCESSORIES

49 SWIR / LWIR

51 TECHNICAL INFORMATION

61 ANGLE OF VIEW

FEATURE INDICATION

Lens type

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

Iris type

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

Function

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

Feature of Focal Length

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

Feature of Zoom

SPOT FILTER	Spot Filter	A neutral density filter inside the lens that attenuates the amount of light transmission from very bright 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

SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE

MODEL NAME CODING RULE

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

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

① 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	HG2Z0414FC-MP... 2 times (f=4~8mm)
④ Focal Length	T2314FICS..... f=2.3 mm
⑤ Aperture	T3Z2910CS..... F1.0
⑥ Iris Type	FI / Blank..... Manual Iris
	AF..... Auto Iris (Video)
	F..... Auto Iris (DC)
	K..... P-iris
⑦ Mount Type	CS..... CS-Mount
	C..... C-Mount
⑧ Character	IR..... InfraRed Lens (Day & Night)
	MP..... Megapixel
	P..... Pinhole

Manual Zoom

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

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

Motorized Zoom

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

⑪ Functional Identification	M..... 3 Motors (Iris,Focus & Zoom by Motorized Control)
	MP..... 3 Motors + Preset
	MS..... 3 Motors + Spot Filter
	MSP..... 3 Motors + Spot Filter + Preset
	AMS..... Auto Iris (Video)+Spot Filter
	AMSP..... Auto Iris (Video)+Spot Filter + Preset
	AMSR..... Auto Iris (Video)+Spot Filter+ Over-Ride
	AMSPR..... Auto Iris (Video) +Spot Filter+ Preset + Over-Ride
	DC..... Auto Iris (DC) +Spot Filter
	PDC..... Auto Iris (DC) +Spot Filter+ Preset
	A..... Auto Iris (Video)+Spot Filter+Preset+Over-Ride+Lever Remote+ALC remote
	F..... Fog through Filter
	EX..... 2X extender

*This rule does not apply to select products

MANUAL IRIS

MANUAL IRIS

CS-MOUNT

FIX

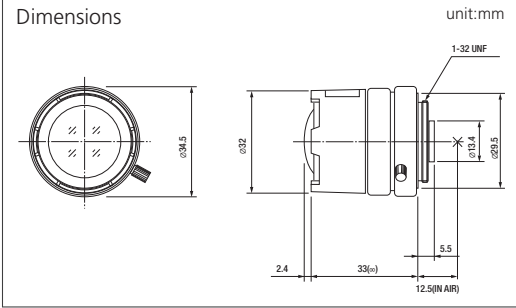
MANUAL

WIDE



MODEL NO.	T2314FICS-3
Format (")	1/3
Mount	CS
Focal Length (mm)	2.3
Aperture (F)	1.4-16C
Angle of View (HOR)°	113.3
M.O.D. (m)	0.2
Effective Aperture	Front (φmm) 22.8 Rear (φmm) 7.0
Front Filter Thread (φMxP=)	-
Dimensions <small>(φxD), (φ45xD) or (WxHxD)mm</small>	φ34.5 × 35.4
Weight (g)	43

Dimensions



FIX

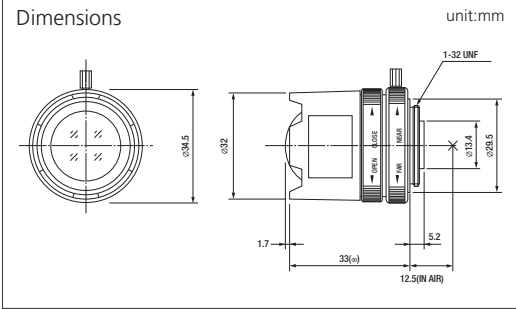
MANUAL

WIDE



MODEL NO.	T2616FICS-4
Format (")	1/3
Mount	CS
Focal Length (mm)	2.6
Aperture (F)	1.6-11C
Angle of View (HOR)°	99.6
M.O.D. (m)	0.3
Effective Aperture	Front (φmm) 16.4 Rear (φmm) 8.0
Front Filter Thread (φMxP=)	-
Dimensions <small>(φxD), (φ45xD) or (WxHxD)mm</small>	φ34.5 × 34.7
Weight (g)	45

Dimensions



FIX

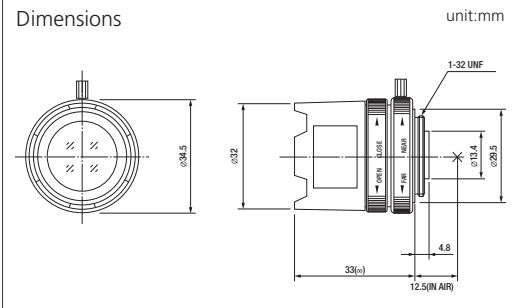
MANUAL

IR



MODEL NO.	T0412FICS-3
Format (")	1/3
Mount	CS
Focal Length (mm)	4
Aperture (F)	1.2-16C
Angle of View (HOR)°	63.9
M.O.D. (m)	0.2
Effective Aperture	Front (φmm) 15.5 Rear (φmm) 8.5
Front Filter Thread (φMxP=)	-
Dimensions <small>(φxD), (φ45xD) or (WxHxD)mm</small>	φ34.5 × 33
Weight (g)	36

Dimensions



FIX

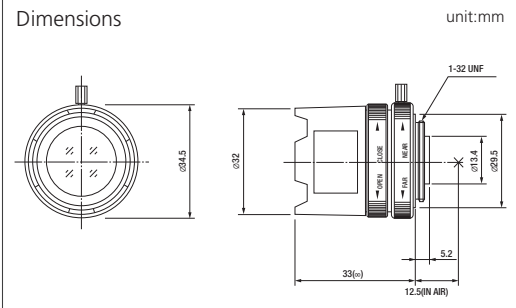
MANUAL

IR



MODEL NO.	T0812FICS-3
Format (")	1/3
Mount	CS
Focal Length (mm)	8
Aperture (F)	1.2-16C
Angle of View (HOR)°	34.7
M.O.D. (m)	0.2
Effective Aperture	Front (φmm) 15.0 Rear (φmm) 8.8
Front Filter Thread (φMxP=)	-
Dimensions <small>(φxD), (φ45xD) or (WxHxD)mm</small>	φ34.5 × 33
Weight (g)	37

Dimensions



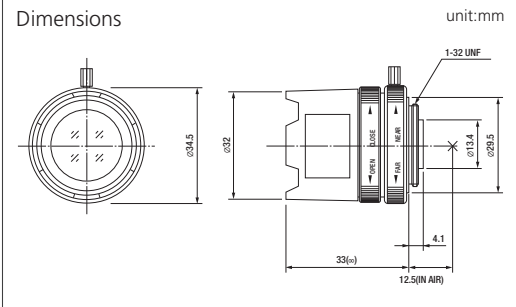
FIX

MANUAL



MODEL NO.	H1214FICS-3
Format (")	1/2
Mount	CS
Focal Length (mm)	12
Aperture (F)	1.4-16C
Angle of View (HOR)°	30.4
M.O.D. (m)	0.3
Effective Aperture	Front (φmm) 13.0 Rear (φmm) 8.8
Front Filter Thread (φMxP=)	-
Dimensions <small>(φxD), (φ45xD) or (WxHxD)mm</small>	φ34.5 × 33
Weight (g)	33

Dimensions



MANUAL IRIS

C-MOUNT

MANUAL IRIS

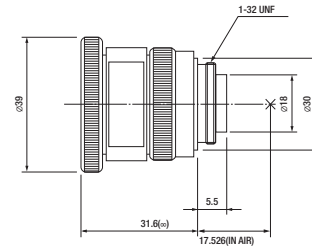
FIX
MANUAL



MODEL NO.	M8513
Format (")	2/3
Mount	C
Focal Length (mm)	8.5
Aperture (F)	1.3-16C
Angle of View (HOR)°	57.4
M.O.D. (m)	0.2
Effective Aperture	Front (φmm) 20.0
	Rear (φmm) 12.0
Front Filter Thread (φMxP=)	-
Dimensions	$\phi 39 \times 31.6$
Weight (g)	50

Dimensions

unit:mm



AUTO IRIS

DC DRIVE / VIDEO DRIVE

AUTO IRIS

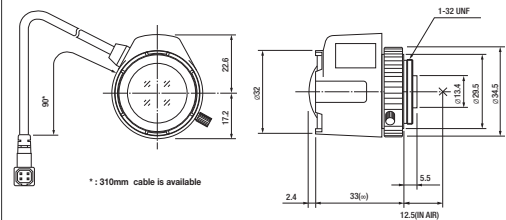
FIX
DC
WIDE



MODEL NO.	TG2314FCS-3
Format (")	1/3
Mount	CS
Focal Length (mm)	2.3
Aperture (F)	1.4-360C
Angle of View (HOR)°	113.3
M.O.D. (m)	0.2
Effective Aperture	Front (φmm) 22.8
	Rear (φmm) 7.0
Front Filter Thread (φMxP=)	-
Dimensions	$\phi 32 \times 39.8 \times 35.4$
Weight (g)	45

Dimensions

unit:mm



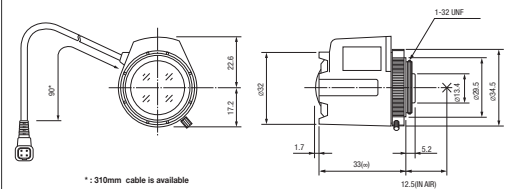
FIX
DC
WIDE



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	$\phi 32 \times 39.8 \times 34.7$
Weight (g)	47

Dimensions

unit:mm



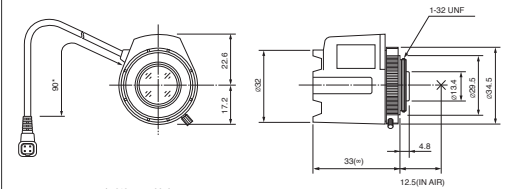
FIX
DC
IR



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	$\phi 32 \times 39.8 \times 33$
Weight (g)	38

Dimensions

unit:mm



**AUTO
IRIS**

AUTO IRIS

DC DRIVE / VIDEO DRIVE

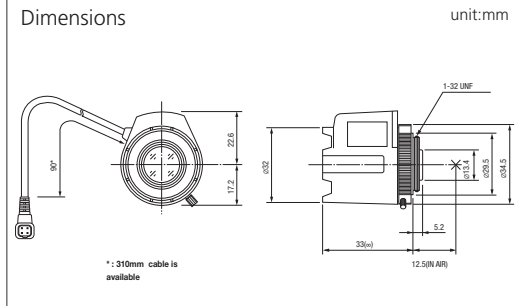
FIX

DC

IR



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

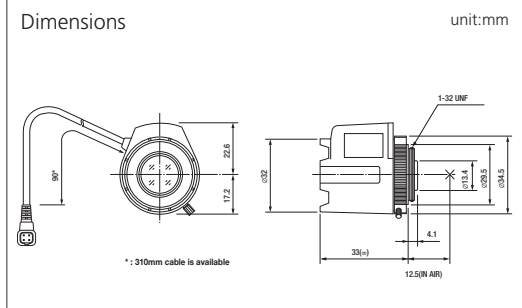


FIX

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



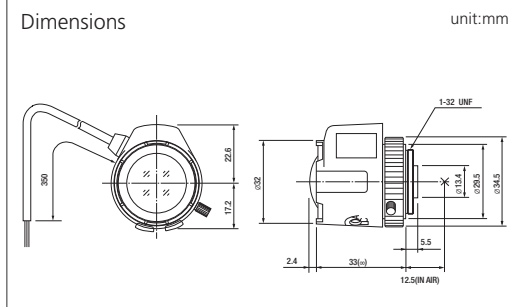
FIX

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



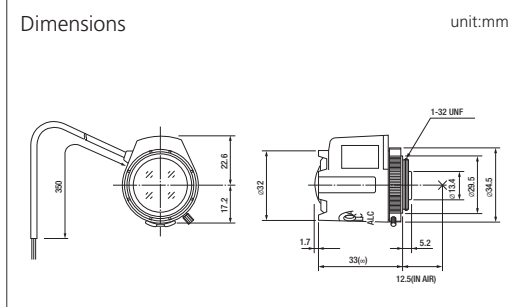
FIX

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

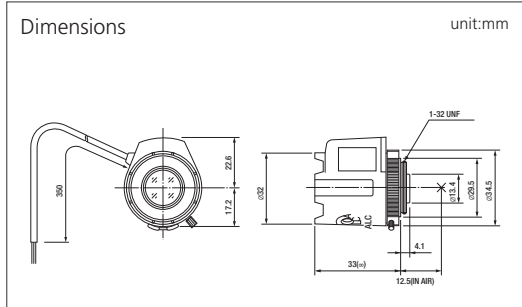


FIX

VIDEO

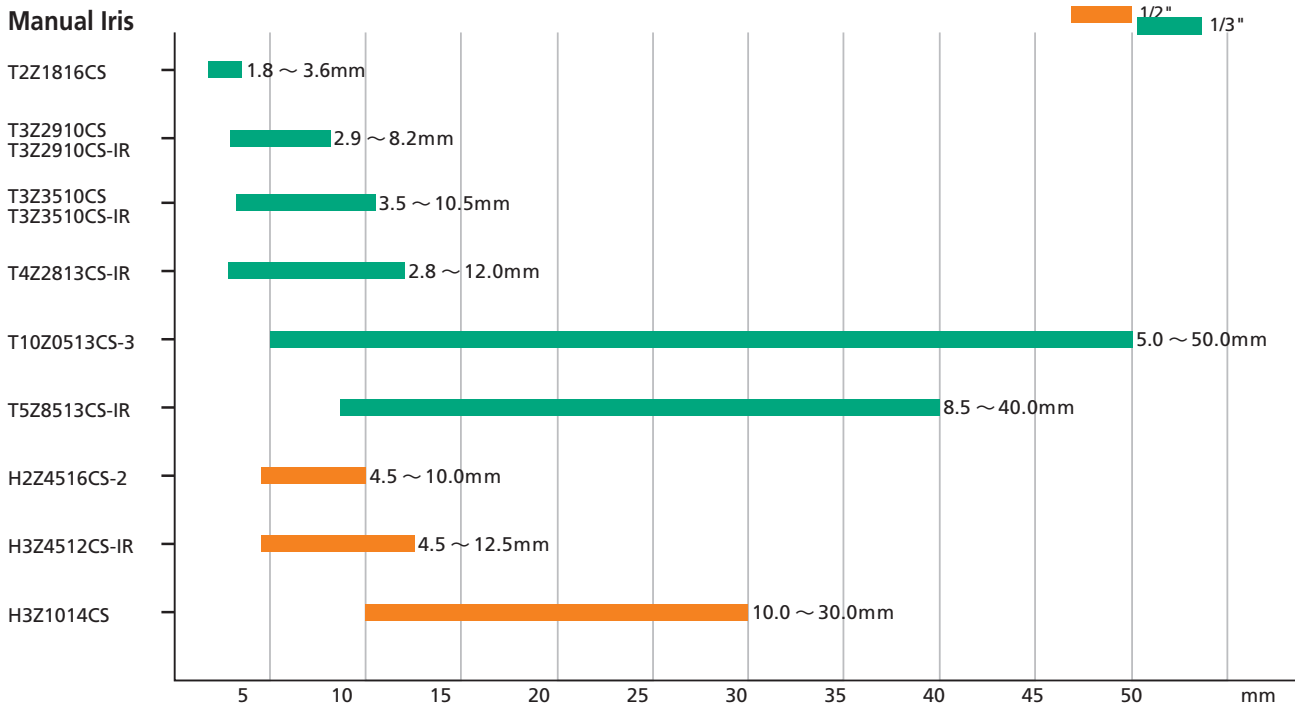


MODEL NO.	HG1214AFCS-3
Format (")	1/2
Mount	CS
Focal Length (mm)	12
Aperture (F)	1.4-360C
Angle of View (HOR)°	30.4
M.O.D. (m)	0.3
Effective Aperture	Front (φmm) 13.0 Rear (φmm) 8.8
Front Filter Thread (φMxP=)	-
Dimensions (φD), (φxHxD) or (WxHxD)mm	φ32 × 39.8 × 33
Weight (g)	39



Varifocal Lens Comparison

Manual Iris

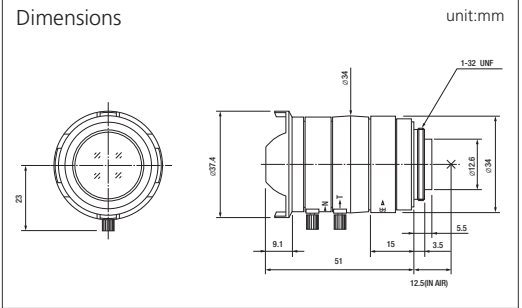


VARI
MANUAL
WIDE



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 (φID),(φxHxD) or (WxHxD)mm	φ37.4 × 51
Weight (g)	68

Dimensions

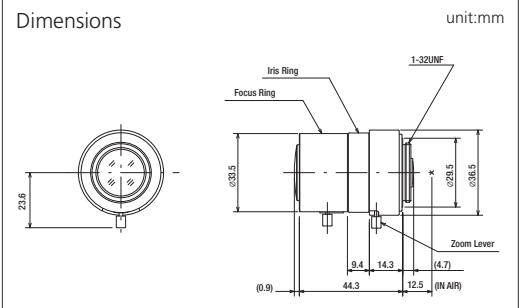


VARI
MANUAL
F1.0
ASP



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 (φID),(φxHxD) or (WxHxD)mm	φ36.5 × 44.3
Weight (g)	41

Dimensions

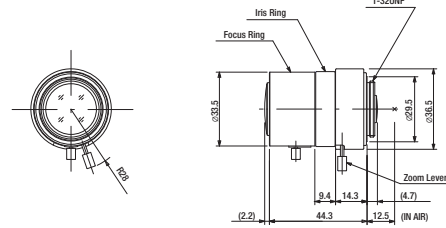


- VARI
- MANUAL
- F1.0
- ASP
- IR



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	φ36.5 × 44.3
Weight (g)	44

Dimensions unit:mm

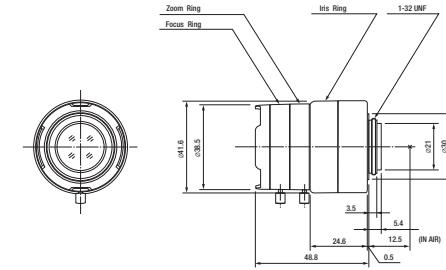


- VARI
- MANUAL
- F1.0
- ASP



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	φ41.6 × 48.8
Weight (g)	63

Dimensions unit:mm

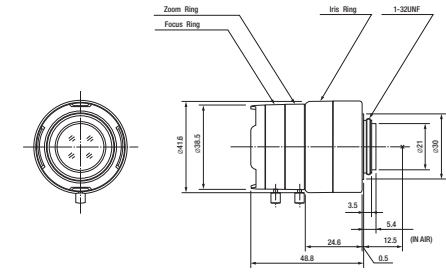


- VARI
- MANUAL
- F1.0
- ASP
- IR



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	φ41.6 × 48.8
Weight (g)	63

Dimensions unit:mm

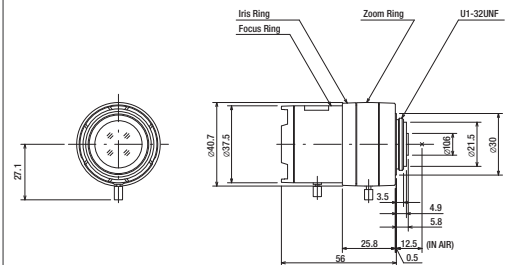


- VARI
- MANUAL
- ASP
- IR



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	φ40.7 × 56.0
Weight (g)	63

Dimensions unit:mm

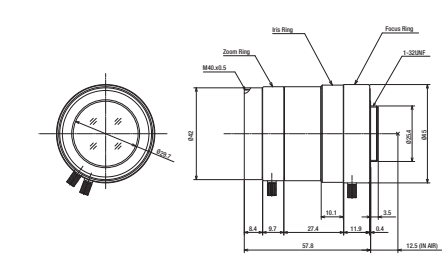


- VARI
- MANUAL
- TELE
- ASP



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	φ45 × 57.8
Weight (g)	90

Dimensions unit:mm



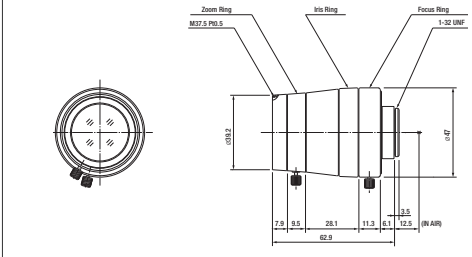
VARI
MANUAL
TELE
ASP
IR



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 (φ _D),(φ _H ±0.03) or (WxH±0.03)mm	φ47.0 × 62.9
Weight (g)	126

Dimensions

unit:mm



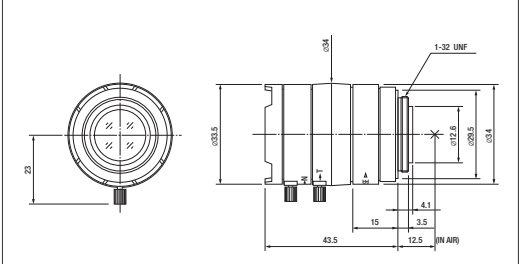
VARI
MANUAL
IR



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 (φ _D),(φ _H ±0.03) or (WxH±0.03)mm	φ34 × 43.5
Weight (g)	40

Dimensions

unit:mm



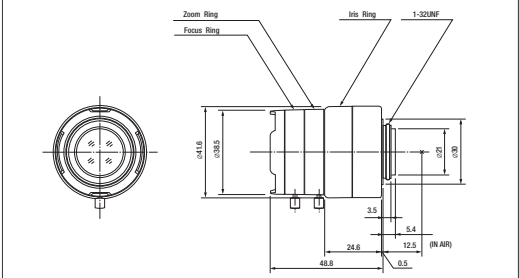
VARI
MANUAL
ASP
IR



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 (φ _D),(φ _H ±0.03) or (WxH±0.03)mm	φ41.6 × 48.8
Weight (g)	66

Dimensions

unit:mm



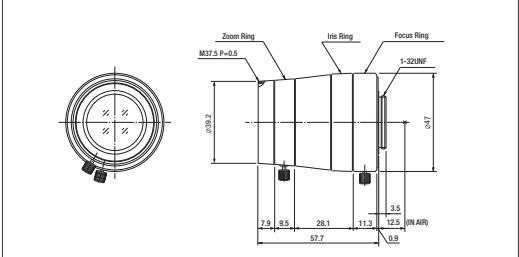
VARI
MANUAL
TELE
ASP
IR



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 (φ _D),(φ _H ±0.03) or (WxH±0.03)mm	φ47 × 57.7
Weight (g)	125

Dimensions

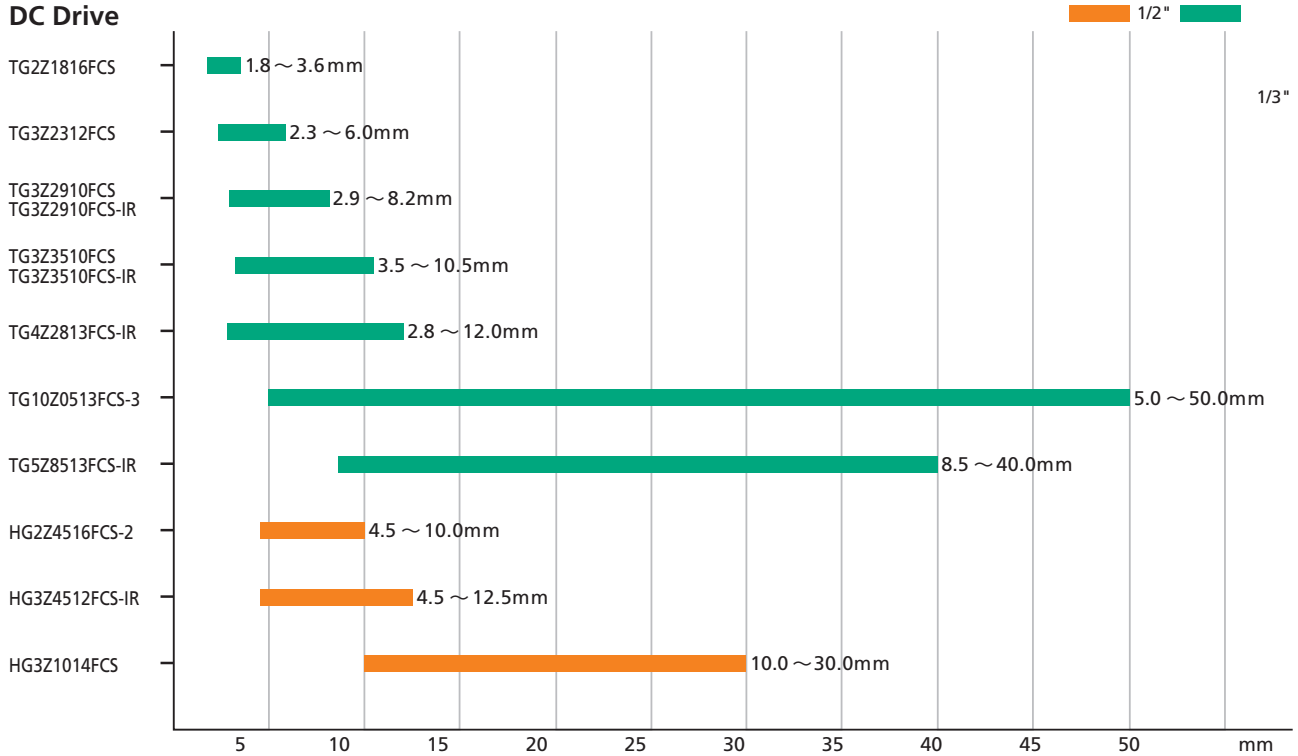
unit:mm



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

VariFocal Lens Comparison

DC Drive



VARI

DC

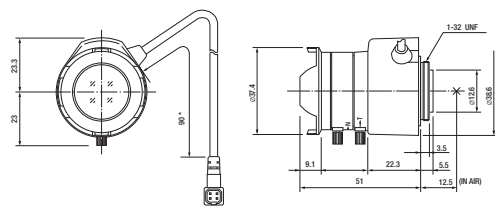
WIDE



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

Dimensions

unit:mm



VARI

DC

WIDE

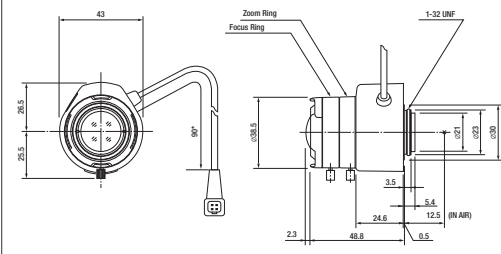
ASP



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	(φD),(φxHxD) or (WxHxD)mm φ38.5 × 48 × 51.1
Weight (g)	76

Dimensions

unit:mm



VARIFOCAL

DC DRIVE

VARIFOCAL
AUTO IRIS

VARI

DC

F1.0

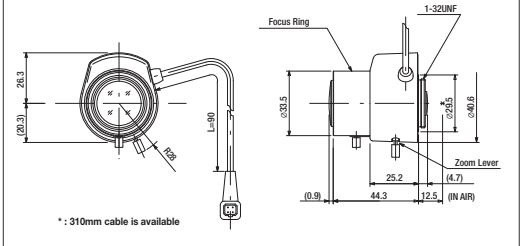
ASP



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

Dimensions

unit:mm



VARI

DC

F1.0

ASP

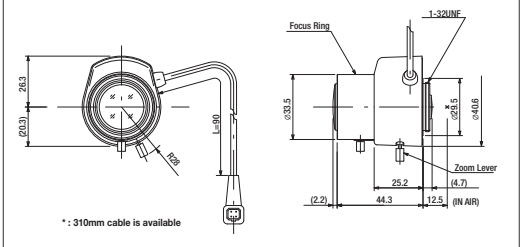
IR



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

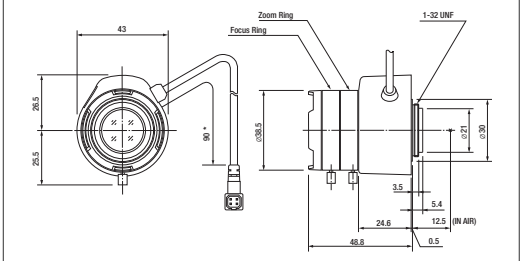
ASP



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

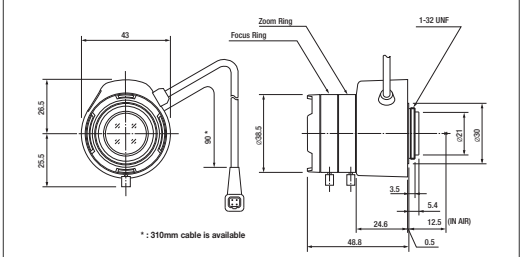
IR



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

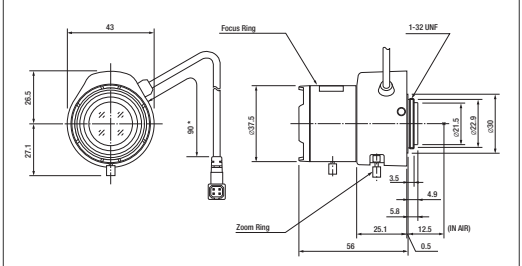
IR



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



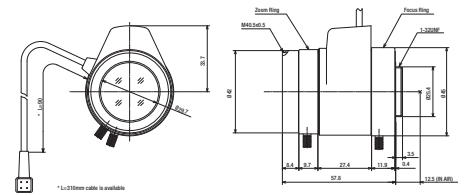
- VARI
- DC
- TELE
- ASP



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



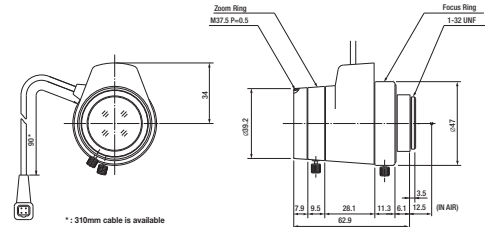
- VARI
- DC
- TELE
- ASP
- IR



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



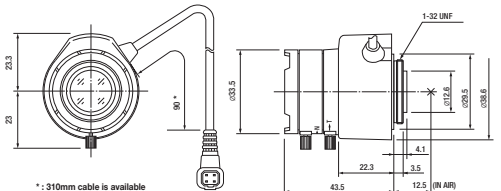
- VARI
- DC
- IR



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



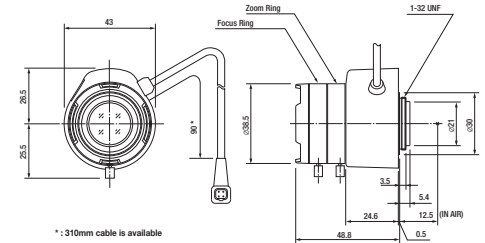
- VARI
- DC
- ASP
- IR



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



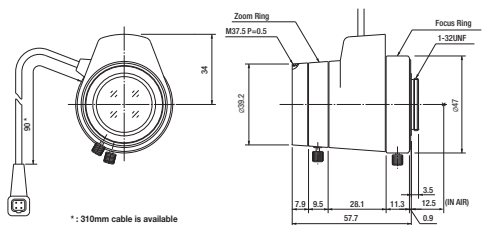
- VARI
- DC
- TELE
- ASP
- IR



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

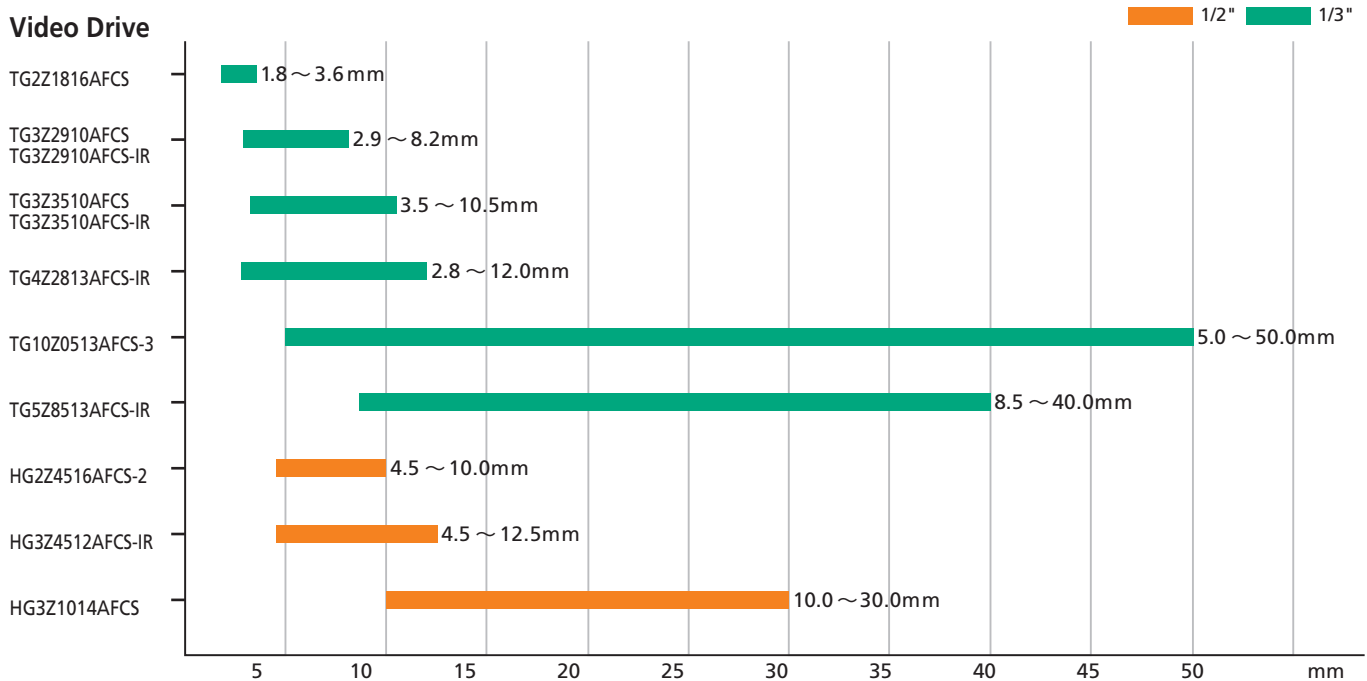
unit:mm



※ 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.

VariFocal Lens Comparison

Video Drive



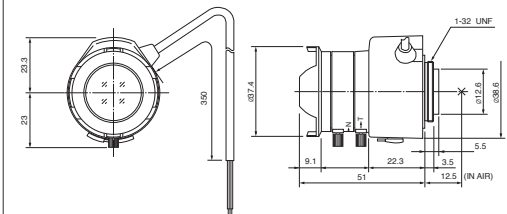
VARI
VIDEO
WIDE



MODEL NO.	TG2Z1816AFCS
Format (")	1/3
Mount	CS
Focal Length (mm)	1.8-3.6
Aperture (F)	1.6-360C
Angle of View (HOR)°	144.2-79.4
M.O.D. (m)	0.2
Effective Aperture Front (φmm)	22.0
Effective Aperture Rear (φmm)	7.9
Front Filter Thread (φMxP=)	-
Dimensions (φH, φHxH) or (WxHxD)mm	φ37.4 × 42.6 × 51
Weight (g)	83

Dimensions

unit:mm



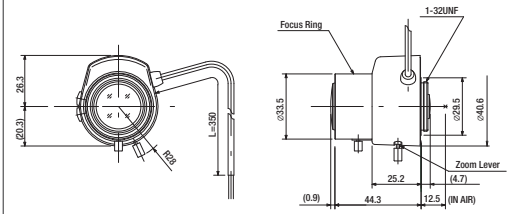
VARI
VIDEO
F1.0
ASP



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
Effective Aperture Rear (φmm)	9.0
Front Filter Thread (φMxP=)	-
Dimensions (φH, φHxH) or (WxHxD)mm	φ33.5 × 46.6 × 44.3
Weight (g)	51

Dimensions

unit:mm



VARI

VIDEO

F1.0

ASP

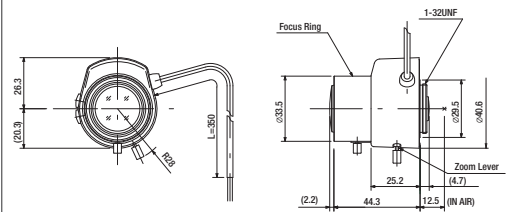
IR



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 ₁ (φstxD) or (WxHxD)mm)	φ33.5 × 46.6 × 44.3
Weight (g)	54

Dimensions

unit:mm



VARI

VIDEO

F1.0

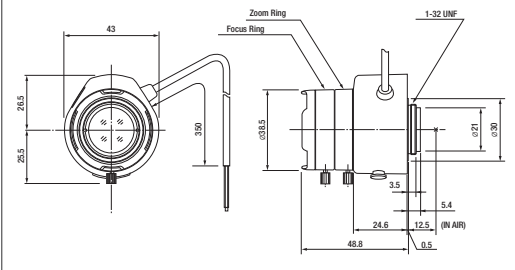
ASP



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 ₁ (φstxD) or (WxHxD)mm)	φ38.5 × 48 × 48.8
Weight (g)	70

Dimensions

unit:mm



VARI

VIDEO

F1.0

ASP

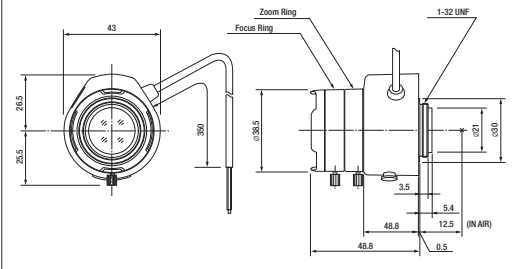
IR



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 ₁ (φstxD) or (WxHxD)mm)	φ38.5 × 48 × 48.8
Weight (g)	70

Dimensions

unit:mm



VARI

VIDEO

ASP

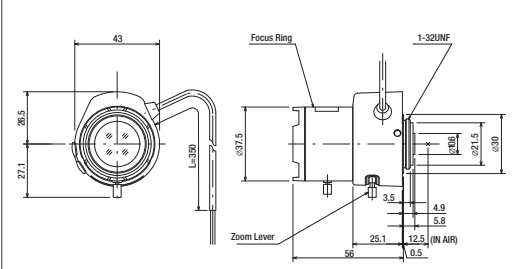
IR



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 ₁ (φstxD) or (WxHxD)mm)	φ37.5 × 48 × 56
Weight (g)	74

Dimensions

unit:mm



VARI

VIDEO

TELE

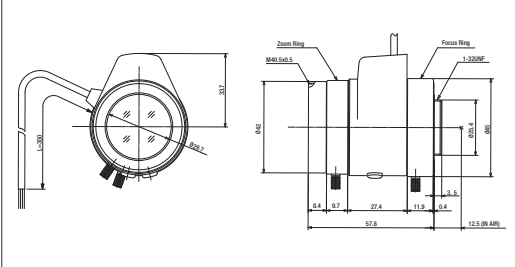
ASP



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 ₁ (φstxD) or (WxHxD)mm)	φ45 × 56.2 × 57.8
Weight (g)	103

Dimensions

unit:mm



VARIFOCAL

VIDEO DRIVE

VARIFOCAL
AUTO IRIS

VARI

VIDEO

TELE

ASP

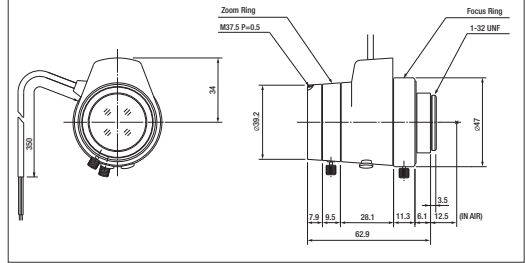
IR



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 (φD), (φHxH) or (WxHxD)mm	φ41.7 × 57.5 × 62.9
Weight (g)	115

Dimensions

unit:mm



VARI

VIDEO

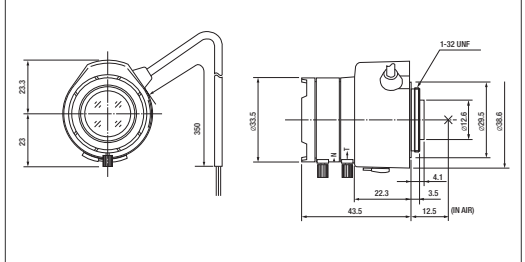
IR



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 (φD), (φHxH) or (WxHxD)mm	φ33.5 × 42.6 × 43.5
Weight (g)	56

Dimensions

unit:mm



VARI

VIDEO

ASP

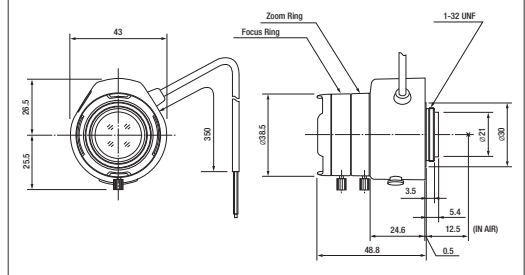
IR



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 (φD), (φHxH) or (WxHxD)mm	φ38.5 × 47.5 × 48.8
Weight (g)	73

Dimensions

unit:mm



VARI

VIDEO

ASP

TELE

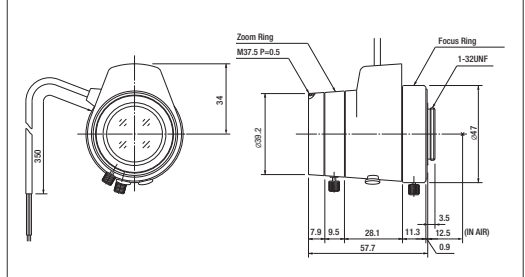
IR



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 (φD), (φHxH) 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

PINHOLE

MANUAL IRIS / DC DRIVE / VIDEO DRIVE

FIX

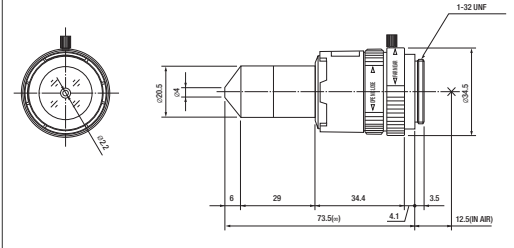
MANUAL



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



FIX

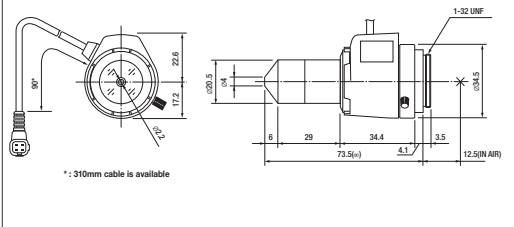
DC



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



DC DRIVE

FIX

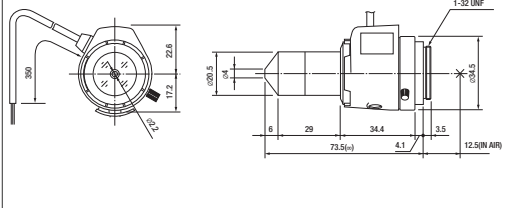
VIDEO



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



VIDEO DRIVE

MANUAL ZOOM

MANUAL ZOOM

MANUAL IRIS / DC DRIVE / VIDEO DRIVE

ZOOM

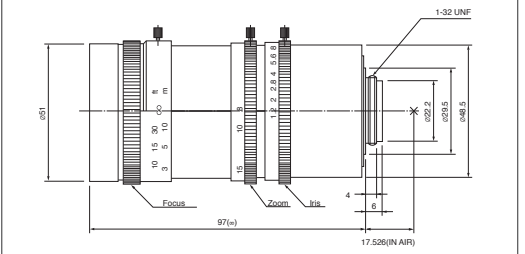
MANUAL



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

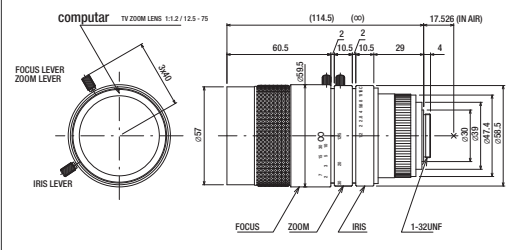


ZOOM
MANUAL



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 (φID), (φHxD) or (WxHxD)mm	φ59.9 × 114.5
Weight (g)	483

Dimensions unit:mm

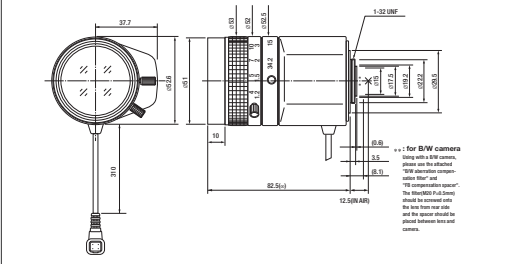


ZOOM
DC
F1.0
SPOT FILTER



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 (φID), (φHxD) or (WxHxD)mm	φ53 × 64 × 82.5
Weight (g)	295

Dimensions unit:mm

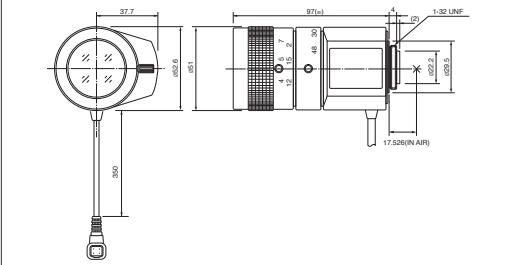


ZOOM
DC
SPOT FILTER



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 (φID), (φHxD) or (WxHxD)mm	φ52.6 × 64 × 97
Weight (g)	295

Dimensions unit:mm

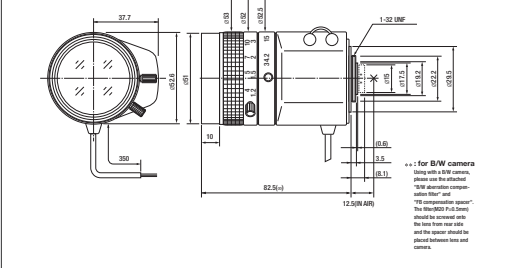


ZOOM
VIDEO
F1.0
SPOT FILTER



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 (φID), (φHxD) or (WxHxD)mm	φ53 × 64 × 82.5
Weight (g)	295

Dimensions unit:mm

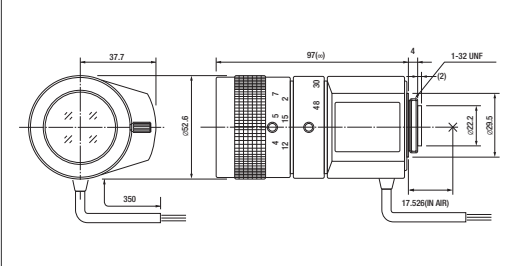


ZOOM
VIDEO
SPOT FILTER



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 (φID), (φHxD) or (WxHxD)mm	φ52.6 × 64 × 97
Weight (g)	295

Dimensions unit:mm



ZOOM
LENSES

1/3" MOTORIZED ZOOM

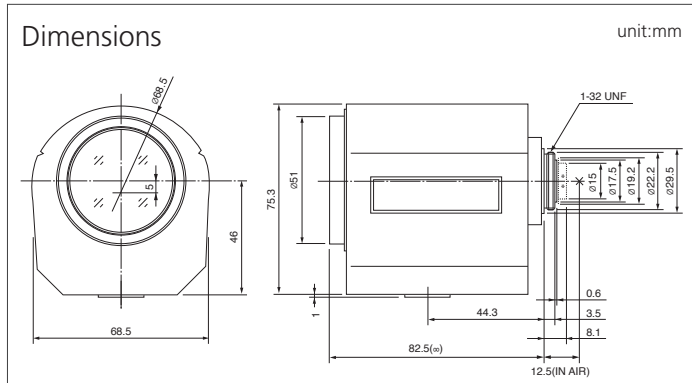
T6Z5710 Series

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



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

1/3" MOTORIZED ZOOM

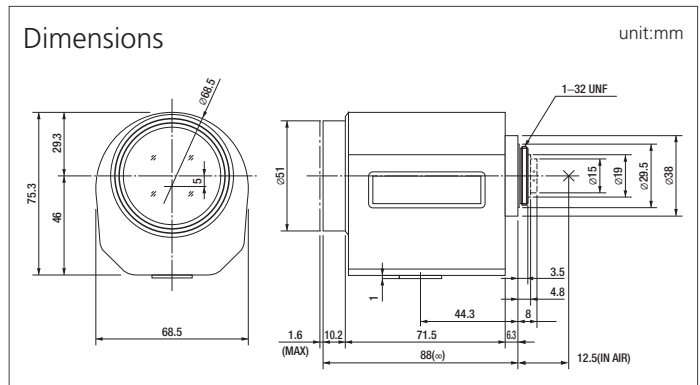
ZOOM
LENSES

T10Z5712 Series f 5.7-57mm, F1.2

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



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

ZOOM
LENSES

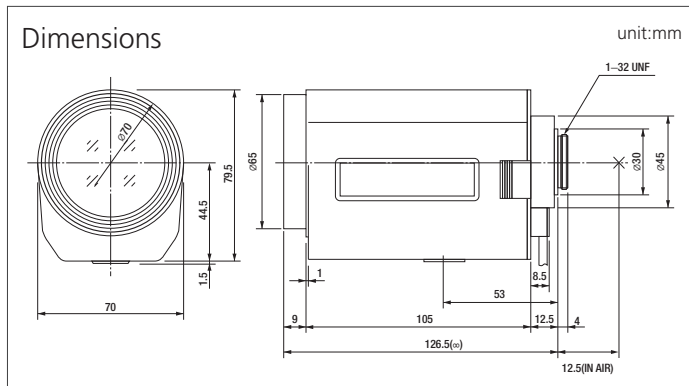
1/3" MOTORIZED ZOOM

T21Z5816 Series f 5.8-121.8mm, F1.6

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



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

1/3" MOTORIZED ZOOM

ZOOM
LENSES

T34Z5518 Series f 5.5-187mm, F1.8

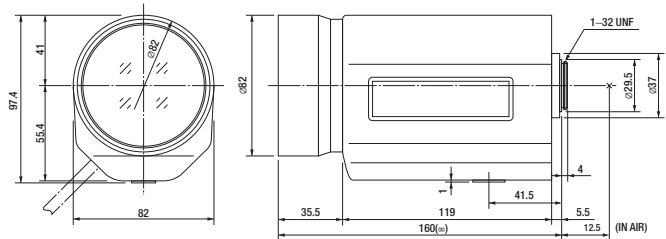
34x



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	

ZOOM
LENSES

1/2" MOTORIZED ZOOM

H6Z0812 Series

f 8-48mm, F1.2

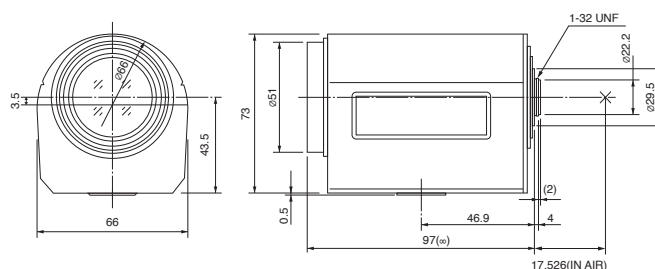
6x



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	440	
3	H6Z0812MS	ZOOM	3 MOTOR	SPOT FILTER	400	
4	H6Z0812MSP	ZOOM	3 MOTOR	PRESET	SPOT FILTER	440
5	H6Z0812AMS	ZOOM	VIDEO	SPOT FILTER	420	
6	H6Z0812AMSP	ZOOM	VIDEO	PRESET	SPOT FILTER	460

1/2" MOTORIZED ZOOM

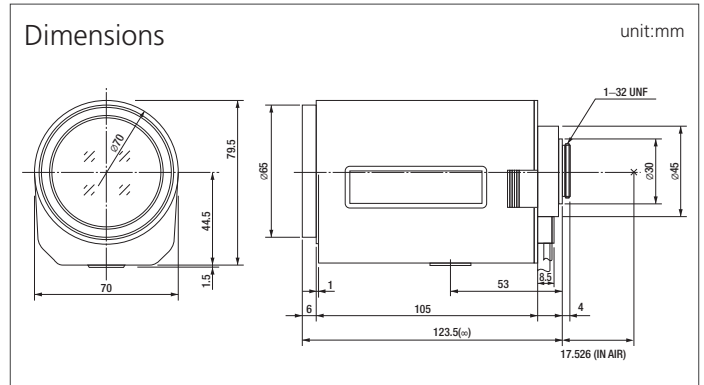
ZOOM LENSES

H10Z0812 Series f 8-80mm, F1.2

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



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

ZOOM
LENSES

1/2" MOTORIZED ZOOM

H10Z1218 Series

f 12-120mm, F1.8

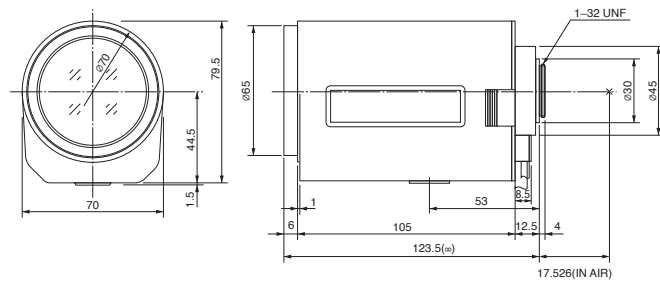
10x



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	670	
3	H10Z1218MS	ZOOM	3 MOTOR	SPOT FILTER	635	
4	H10Z1218MSP	ZOOM	3 MOTOR	PRESET	SPOT FILTER	670
5	H10Z1218AMS-2	ZOOM	VIDEO	SPOT FILTER	670	
6	H10Z1218AMSP-2	ZOOM	VIDEO	PRESET	SPOT FILTER	710
7	H10Z1218DC	ZOOM	DC	SPOT FILTER	630	
8	H10Z1218PDC	ZOOM	DC	PRESET	SPOT FILTER	670

1/2" MOTORIZED ZOOM

ZOOM LENSES

H16Z7516 Series f 7.5-120mm, F1.6

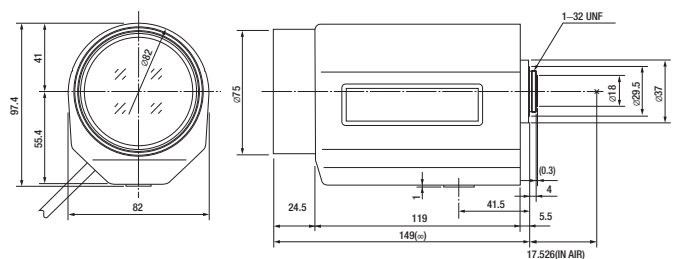
16x



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	

ZOOM
LENSES

1/2" MOTORIZED ZOOM

H16Z7516-IR Series

f 7.5-120mm, F1.6

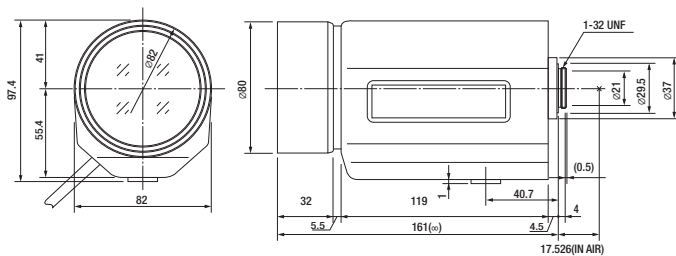
16x



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

Features of H16Z7516-IR series

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

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

1/2" MOTORIZED ZOOM

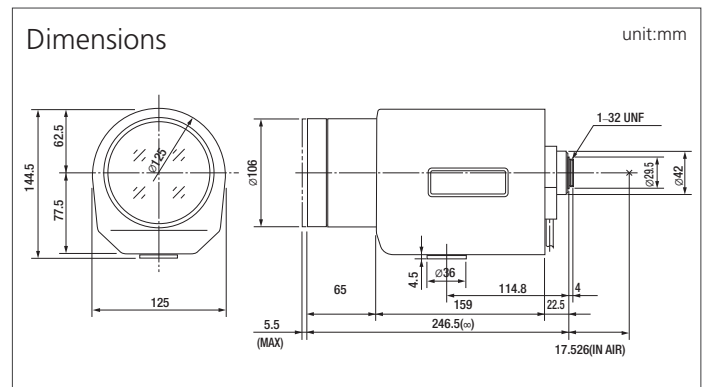
ZOOM LENSES

H30Z1015 Series f 10-300mm, F1.5

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



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

Features of H30Z1015 series

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

MEGAPIXEL
ZOOM

1/2" MEGAPIXEL MOTORIZED ZOOM

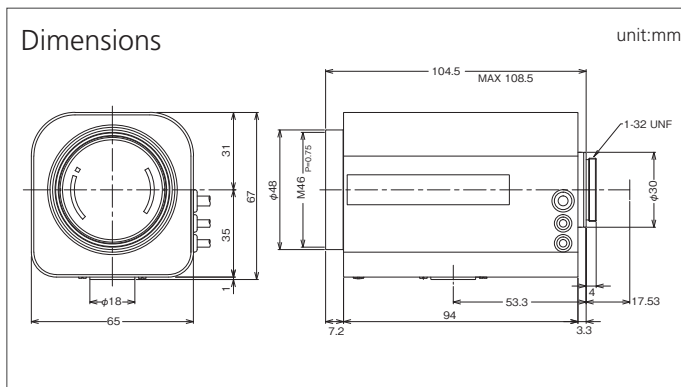
H10Z0819-MP Series

f 8-80mm, F1.9

10x



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



NO.	MODEL NO.	ZOOM	VIDEO	PRESET	SPOT FILTER	2MP	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

1/2" MEGAPIXEL MOTORIZED ZOOM

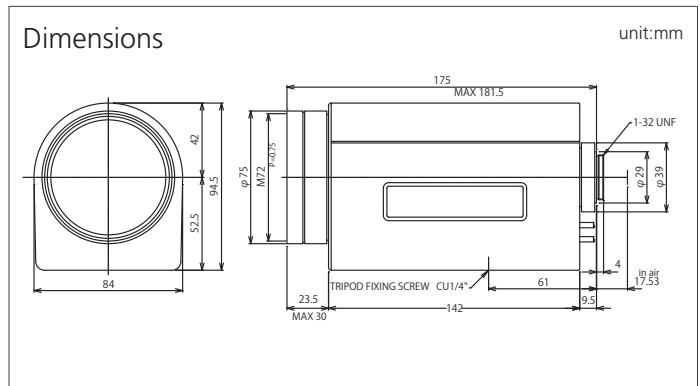
MEGAPIXEL
ZOOM

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



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	1100
3	H21Z1016DC-MP	ZOOM	DC	SPOT FILTER	2MP	1.6-1000	1050
4	H21Z1016PDC-MP	ZOOM	DC	PRESET	SPOT FILTER	2MP	1100

MEGAPIXEL
ZOOM

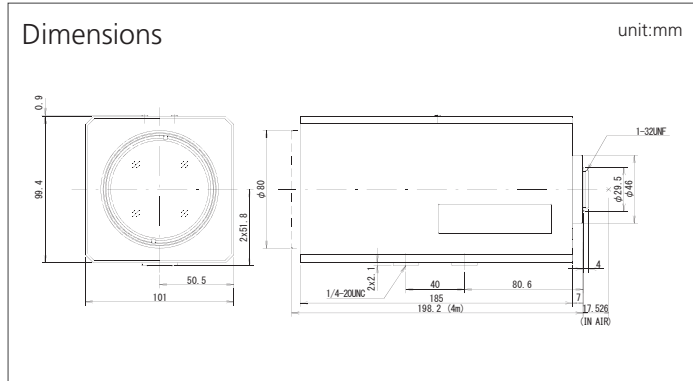
1/1.8" MEGAPIXEL MOTORIZED ZOOM

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



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

※ Override and Iris preset models are acceptable. Please contact us.

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

1/1.8" MEGAPIXEL MOTORIZED ZOOM

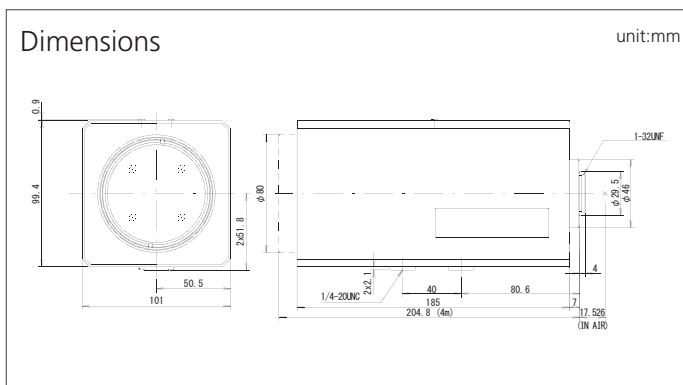
MEGAPIXEL
ZOOM

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



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

MEGAPIXEL
ZOOM

1/1.8" MEGAPIXEL MOTORIZED ZOOM

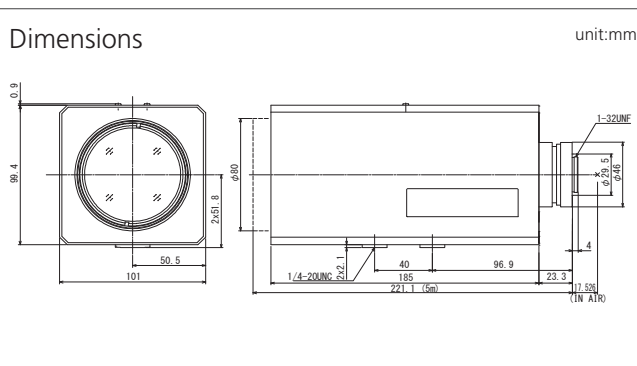
M24Z1527-MP Series

f 15-360mm, F2.7

24x



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



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	2.7-22C	2240	
3	M24Z1527MS-MP	ZOOM	3 MOTOR	SPOT FILTER	2.7-500C	2200	
4	M24Z1527MSP-MP	ZOOM	3 MOTOR	PRESET	SPOT FILTER	2.7-500C	2240
5	M24Z1527AMS-MP	ZOOM	VIDEO	SPOT FILTER	2.7-500C	2140	
6	M24Z1527AMSP-MP	ZOOM	VIDEO	PRESET	SPOT FILTER	2.7-500C	2180
7	M24Z1527DC-MP	ZOOM	DC	SPOT FILTER	2.7-500C	2140	
8	M24Z1527PDC-MP	ZOOM	DC	PRESET	SPOT FILTER	2.7-500C	2180
9	M24Z1527K-MP	ZOOM	P-iris	2MP	2.7-22C	2130	
10	M24Z1527KP-MP	ZOOM	P-iris	PRESET	2.7-22C	2170	

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

1/1.8" MEGAPIXEL MOTORIZED ZOOM

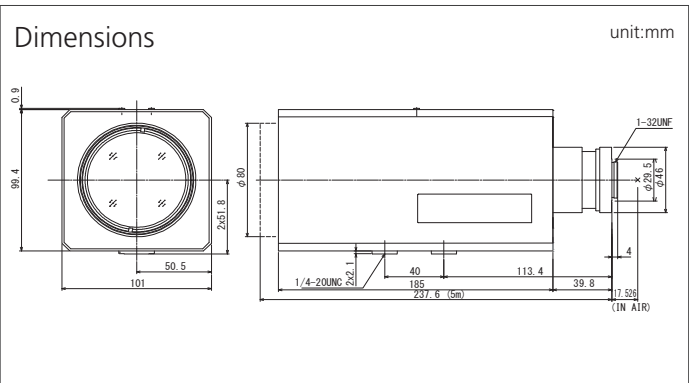
MEGAPIXEL
ZOOM

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

24x



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



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

MEGAPIXEL
ZOOM

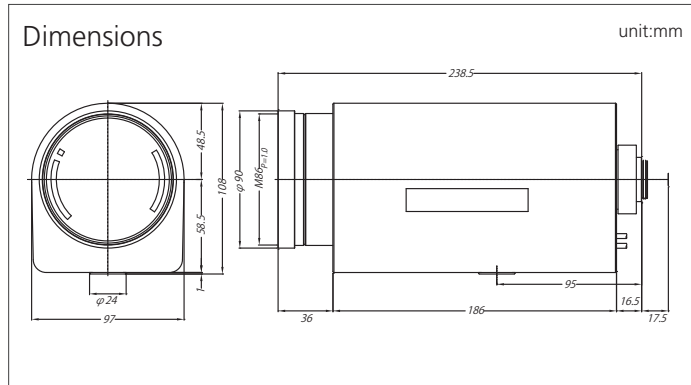
1/2" MEGAPIXEL MOTORIZED ZOOM

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



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	1830
3	H35Z1015DC-MP	ZOOM	DC	SPOT FILTER	2MP	1.5-1000	1830
4	H35Z1015PDC-MP	ZOOM	DC	PRESET	SPOT FILTER	2MP	1830

1/2" MEGAPIXEL MOTORIZED ZOOM

MEGAPIXEL
ZOOM

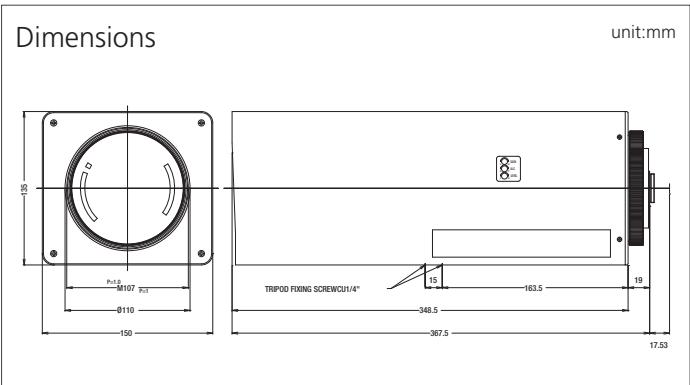
H62Z1235-MP Series

f 12.5-775mm, F3.5 / f 25-1550mm, F7.0 (w/2 x 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



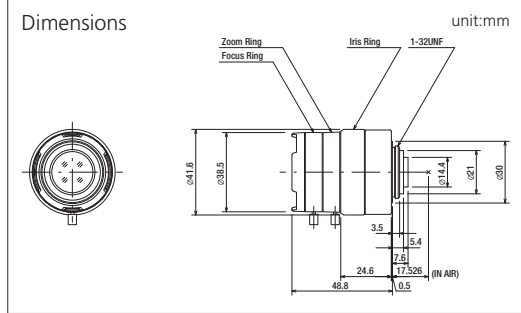
NO.	MODEL NO.	ZOOM	VIDEO	PRESET	2MP	Extender	IR	Fog through	Aperture (F)	Weight (g)
1	H62Z1235AMP-MP	■	■	■	■				3.5-Close	5350
2	H62Z1235AMP-MP-EX	■	■	■	■	■			3.5-Close (7.0-Close)	5550
3	H62Z1235AMP-MPIR	■	■	■	■		■	■	3.5-Close	5800
4	H62Z1235AMP-MPIR-EX	■	■	■	■	■	■	■	3.5-Close (7.0-Close)	6000
5	H62Z1235PDC-MP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

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

- VARI
- MANUAL
- 1 MP
- SECURITY



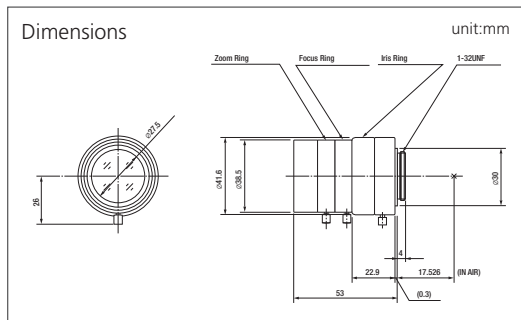
MODEL NO.	H2Z0414C-MP
Format (")	1/2
Mount	C
Focal Length (mm)	4-8
Aperture (F)	1.4-16C
Angle of View (HOR)°	90.4-47.0
M.O.D. (m)	0.5
Effective Aperture	Front (φmm) 22.2 Rear (φmm) 10.7
Front Filter Thread (φMxP=)	-
Dimensions	(φxD), (φxHxD) or (WxHxD)mm φ41.6 × 48.8
Weight (g)	72



- VARI
- MANUAL
- 1 MP
- SECURITY



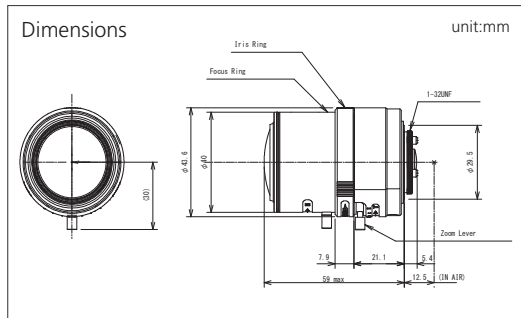
MODEL NO.	M3Z1228C-MP
Format (")	2/3
Mount	C
Focal Length (mm)	12-36
Aperture (F)	2.8-16C
Angle of View (HOR)°	41.0-13.6
M.O.D. (m)	0.2
Effective Aperture	Front (φmm) 27.2 Rear (φmm) 12.1
Front Filter Thread (φMxP=)	35.5 × 0.5
Dimensions	(φxD), (φxHxD) or (WxHxD)mm φ41.6 × 53
Weight (g)	105



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



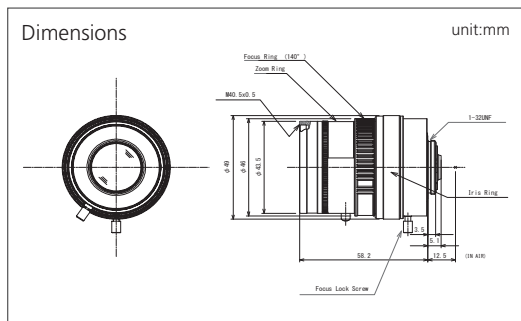
MODEL NO.	A4Z2812CS-MPIR
Format (")	1/2.7
Mount	CS
Focal Length (mm)	2.8-10
Aperture (F)	1.2-16C
Angle of View (HOR)°	127.6-34.3
M.O.D. (m)	0.5
Effective Aperture	Front (φmm) 27.0 Rear (φmm) 9.7
Front Filter Thread (φMxP=)	-
Dimensions	(φxD), (φxHxD) or (WxHxD)mm φ43.6 × 59
Weight (g)	63



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



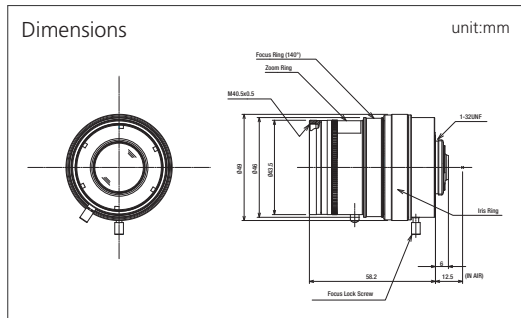
MODEL NO.	A6Z8516CS-MP
Format (")	1/2.7
Mount	CS
Focal Length (mm)	8.5-50
Aperture (F)	1.6-16C
Angle of View (HOR)°	38.0-6.8
M.O.D. (m)	1.0
Effective Aperture	Front (φmm) 21.7 Rear (φmm) 9.8
Front Filter Thread (φMxP=)	40.5 × 0.5
Dimensions	(φxD), (φxHxD) or (WxHxD)mm φ49 × 58.2
Weight (g)	77



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



MODEL NO.	A4Z1214CS-MPIR
Format (")	1/2.7
Mount	CS
Focal Length (mm)	12.5-50
Aperture (F)	1.4-16C
Angle of View (HOR)°	24.0-6.2
M.O.D. (m)	1.0
Effective Aperture	Front (φmm) 21.7 Rear (φmm) 9.1
Front Filter Thread (φMxP=)	40 × 0.5
Dimensions	(φxD), (φxHxD) or (WxHxD)mm φ49 × 58.2
Weight (g)	80

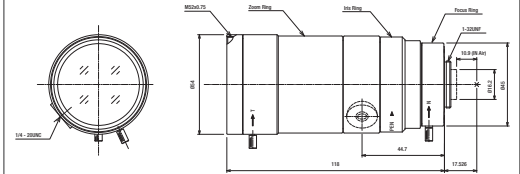


- VARI
- MANUAL
- TELE
- ASP
- 3MP
- SECURITY
- HDTV 1080



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 (φxH) or (WxHxD)mm	φ54 × 118
Weight (g)	411

Dimensions unit:mm

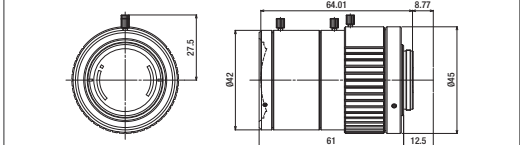


- VARI
- MANUAL
- WIDE
- IR
- 5MP
- SECURITY
- HDTV 1080



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 (φxH) or (WxHxD)mm	φ42 × 61
Weight (g)	148

Dimensions unit:mm

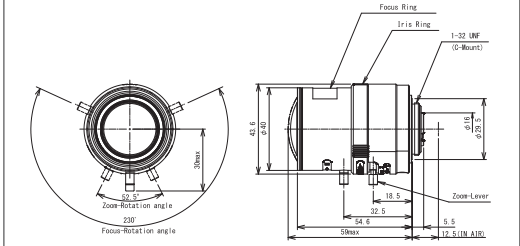


- VARI
- MANUAL
- WIDE
- ASP
- IR
- 5MP
- SECURITY
- HDTV 1080



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 (φxH) or (WxHxD)mm	φ43.6 × 59
Weight (g)	64

Dimensions unit:mm

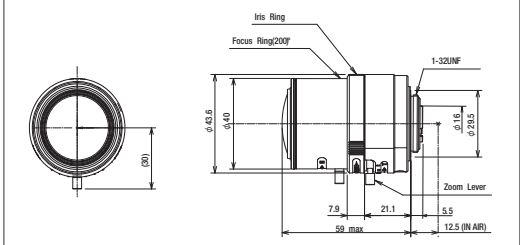


- VARI
- MANUAL
- WIDE
- ASP
- IR
- 8MP
- SECURITY
- HDTV 1080



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 (φxH) or (WxHxD)mm	φ43.6 × 59
Weight (g)	69

Dimensions unit:mm



**MEGAPIXEL
VARIFOCAI
AUTO IRIS**

MEGAPIXEL

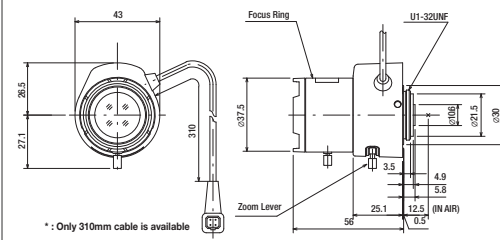
SECURITY

- 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



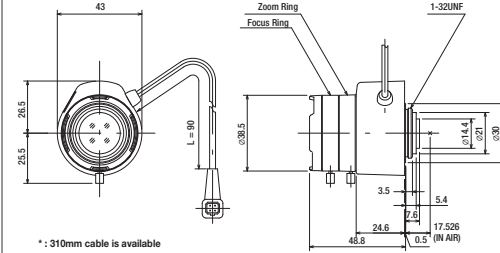
* : 310mm cable is available

- 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



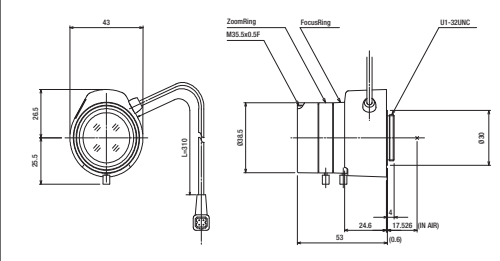
* : 310mm cable is available

- 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

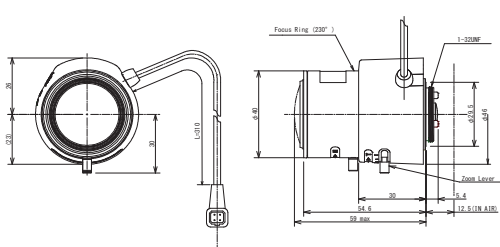


- VARI
- DC
- WIDE
- ASP
- IR
- 3MP
- SECURITY
- HDTV 1080



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

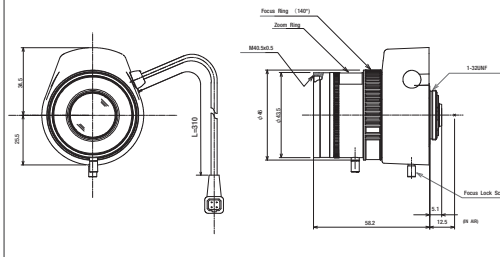


- VARI
- DC
- TELE
- ASP
- 3MP
- SECURITY
- HDTV 1080



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

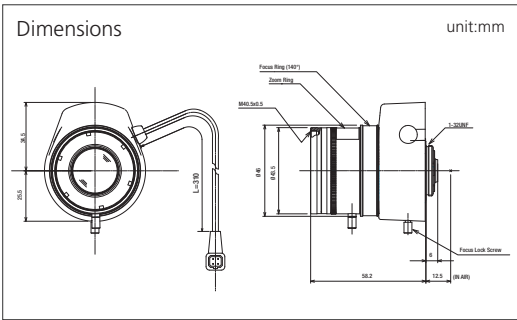
Dimensions unit:mm



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



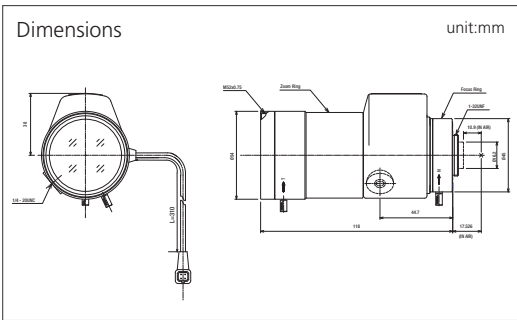
MODEL NO.	AG4Z1214FCS-MPIR
Format (")	1/2.7
Mount	CS
Focal Length (mm)	12.5-50
Aperture (F)	1.4-360C
Angle of View (HOR)°	24.0-6.2
M.O.D. (m)	1.0
Effective Aperture	Front (φmm) 21.7 Rear (φmm) 9.1
Front Filter Thread (φMxP=)	40 × 0.5
Dimensions (φD ₁ (φHxH ₁) or (WxHxD)mm)	φ46 × 59.3 × 58.4
Weight (g)	83



- 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 (φD ₁ (φHxH ₁) or (WxHxD)mm)	φ54 × 65 × 118
Weight (g)	402

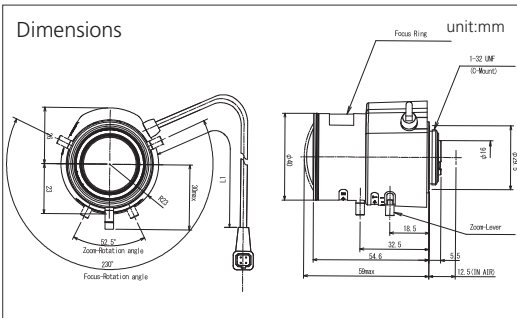


- VARI
- DC
- WIDE
- ASP
- IR
- 5MP
- SECURITY
- HDTV 1080



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 (φD ₁ (φHxH ₁) or (WxHxD)mm)	φ43.6 × 59
Weight (g)	67

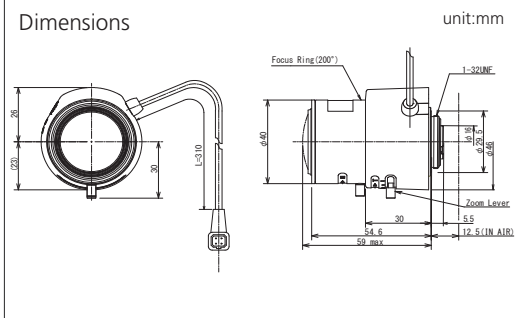


- VARI
- DC
- WIDE
- ASP
- IR
- 8MP
- SECURITY
- HDTV 1080



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 (φD ₁ (φHxH ₁) or (WxHxD)mm)	φ43.6 × 59
Weight (g)	72



MEGAPIXEL
VARIFOCAL
P-IRIS

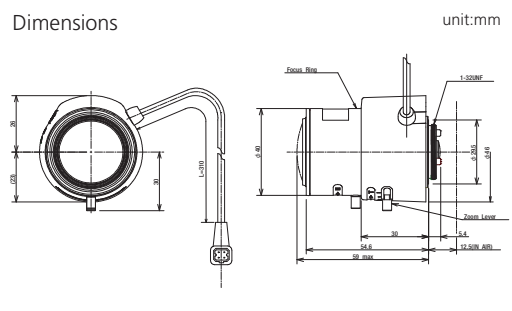
MEGAPIXEL

SECURITY

- 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

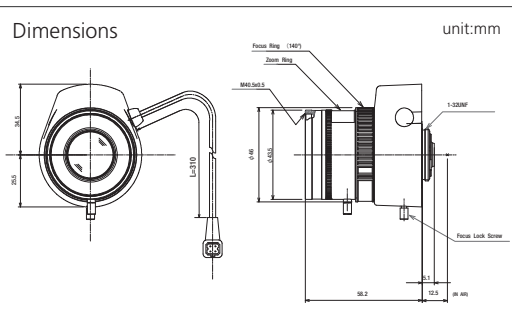


※ P-iris lenses can only be controlled by specifically designed cameras with P-iris software.

- 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

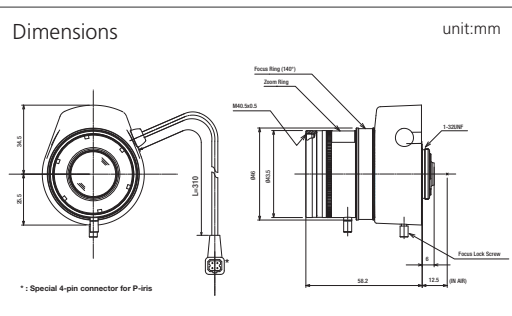


※ P-iris lenses can only be controlled by specifically designed cameras with P-iris software.

- VARI
- P-iris
- TELE
- ASP
- IR
- 3MP
- 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

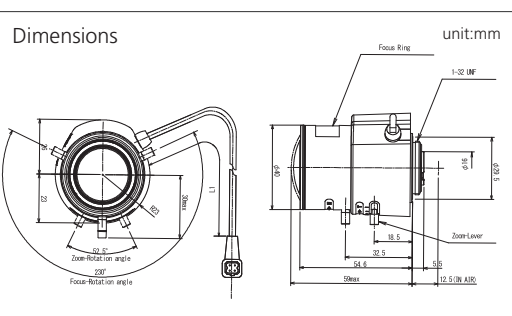


※ P-iris lenses can only be controlled by specifically designed cameras with P-iris software.

- VARI
- P-iris
- WIDE
- ASP
- IR
- 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

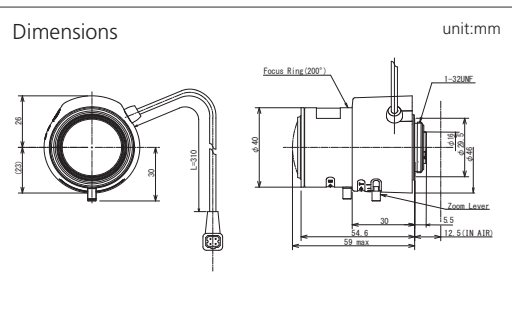


※ P-iris lenses can only be controlled by specifically designed cameras with P-iris software.

- VARI
- P-iris
- WIDE
- ASP
- IR
- 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

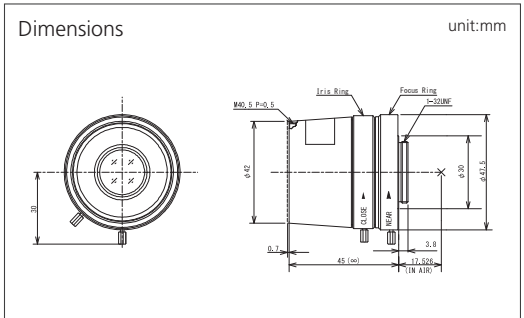




- FIX
- MANUAL
- 5MP
- ITS



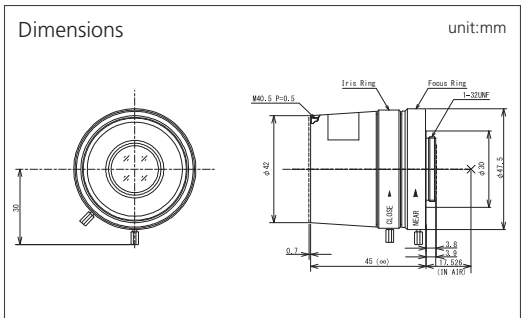
MODEL NO.	M0918FIC-MP
Format (")	2/3
Mount	C
Focal Length (mm)	9
Aperture (F)	1.8-16C
Angle of View (HOR)°	52.1
M.O.D. (m)	1
Effective Aperture Front (φmm)	20.1
Rear (φmm)	12.4
Front Filter Thread (φMxP=)	40.5 × 0.5
Dimensions (φD ₁ , φHxH ₂) or (WxHxD)mm	φ47.5 × 45
Weight (g)	133.6



- FIX
- MANUAL
- 5MP
- ITS



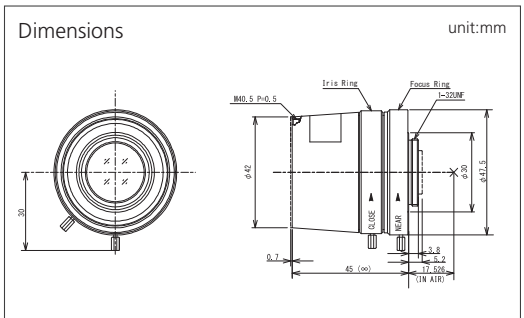
MODEL NO.	M1218FIC-MP
Format (")	2/3
Mount	C
Focal Length (mm)	12
Aperture (F)	1.8-16C
Angle of View (HOR)°	39.3
M.O.D. (m)	1
Effective Aperture Front (φmm)	20.0
Rear (φmm)	13.2
Front Filter Thread (φMxP=)	40.2 × 0.5
Dimensions (φD ₁ , φHxH ₂) or (WxHxD)mm	φ47.5 × 45
Weight (g)	133.2



- FIX
- MANUAL
- 5MP
- ITS



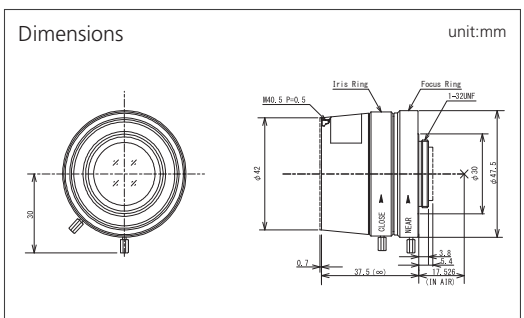
MODEL NO.	M1616FIC-MP
Format (")	2/3
Mount	C
Focal Length (mm)	16
Aperture (F)	1.6-16C
Angle of View (HOR)°	30.8
M.O.D. (m)	1
Effective Aperture Front (φmm)	21.9
Rear (φmm)	11.0
Front Filter Thread (φMxP=)	40.5 × 0.5
Dimensions (φD ₁ , φHxH ₂) or (WxHxD)mm	φ47.5 × 45
Weight (g)	139.3



- FIX
- MANUAL
- 5MP
- ITS



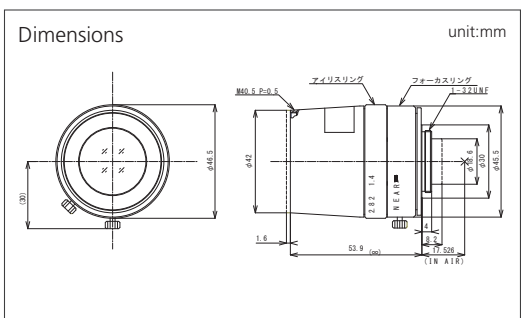
MODEL NO.	M2514FIC-MP
Format (")	2/3
Mount	C
Focal Length (mm)	25
Aperture (F)	1.4-16C
Angle of View (HOR)°	20.0
M.O.D. (m)	1.5
Effective Aperture Front (φmm)	23.4
Rear (φmm)	14.6
Front Filter Thread (φMxP=)	40.5 × 0.5
Dimensions (φD ₁ , φHxH ₂) or (WxHxD)mm	φ47.5 × 37.5
Weight (g)	124.8



- 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 (φD ₁ , φHxH ₂) or (WxHxD)mm	φ46.5 × 53.9
Weight (g)	154.2



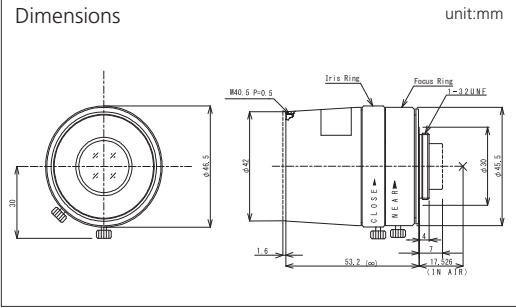
MEGAPIXEL

ITS (Intelligent Transportation System)

- FIX
- MANUAL
- IR
- 5MP
- ITS



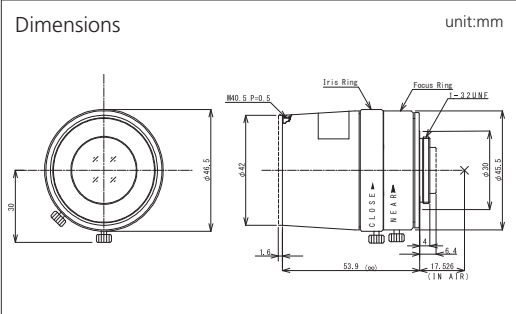
MODEL NO.	M3518FIC-MPIR
Format (")	2/3
Mount	C
Focal Length (mm)	35
Aperture (F)	1.8-16
Angle of View (HOR)°	13.9
M.O.D. (m)	1
Effective Aperture	Front (φmm) 19.8
	Rear (φmm) 12.1
Front Filter Thread (φMxP=)	40.5 × 0.5
Dimensions (φxD), (φxHxD) or (WxHxD)mm	φ46.5 × 53.2
Weight (g)	149.2



- FIX
- MANUAL
- IR
- 5MP
- ITS



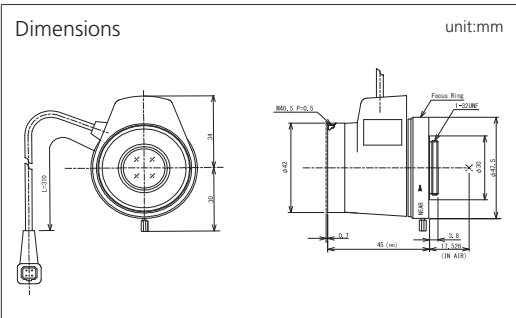
MODEL NO.	M5020FIC-MPIR
Format (")	2/3
Mount	C
Focal Length (mm)	50
Aperture (F)	2.0-16C
Angle of View (HOR)°	9.8
M.O.D. (m)	2
Effective Aperture	Front (φmm) 25.2
	Rear (φmm) 11.0
Front Filter Thread (φMxP=)	40.5 × 0.5
Dimensions (φxD), (φxHxD) or (WxHxD)mm	φ46.5 × 53.9
Weight (g)	155



- FIX
- DC
- 5MP
- ITS



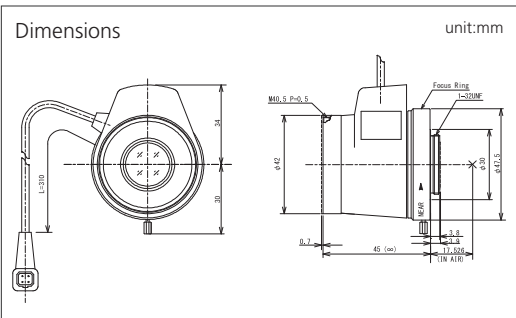
MODEL NO.	MG0918FC-MP
Format (")	2/3
Mount	C
Focal Length (mm)	9
Aperture (F)	1.8-360C
Angle of View (HOR)°	52.1
M.O.D. (m)	1
Effective Aperture	Front (φmm) 20.1
	Rear (φmm) 12.4
Front Filter Thread (φMxP=)	40.5 × 0.5
Dimensions (φxD), (φxHxD) or (WxHxD)mm	φ42 × 57.8 × 45
Weight (g)	107



- FIX
- DC
- 5MP
- ITS



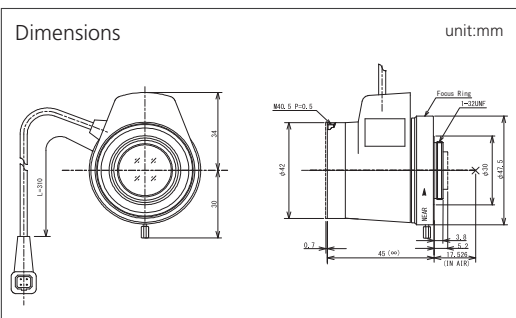
MODEL NO.	MG1218FC-MP
Format (")	2/3
Mount	C
Focal Length (mm)	12
Aperture (F)	1.8-360C
Angle of View (HOR)°	39.3
M.O.D. (m)	1
Effective Aperture	Front (φmm) 20.0
	Rear (φmm) 13.2
Front Filter Thread (φMxP=)	40.5 × 0.5
Dimensions (φxD), (φxHxD) or (WxHxD)mm	φ42 × 57.8 × 45
Weight (g)	105.6



- 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



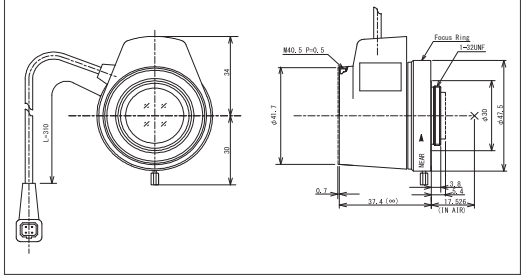
- FIX
- DC
- 5MP
- ITS



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 (φx(D), (φxHxD) or (WxHxD)mm)	φ41.7 × 57.8 × 37.4
Weight (g)	102.2

Dimensions

unit:mm



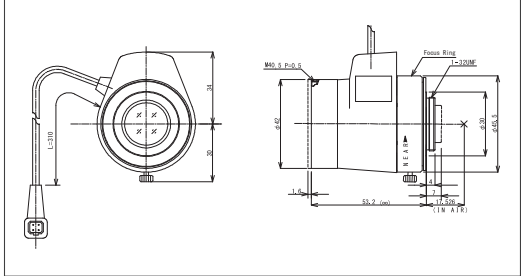
- FIX
- DC
- IR
- 5MP
- ITS



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 (φx(D), (φxHxD) or (WxHxD)mm)	φ42 × 56.8 × 53.2
Weight (g)	125.8

Dimensions

單位:mm



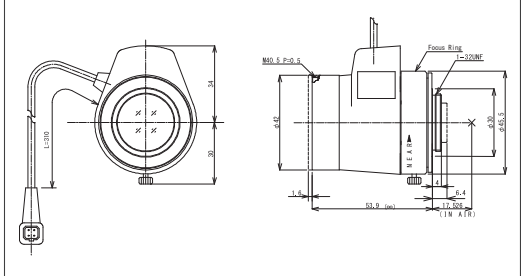
- FIX
- DC
- IR
- 5MP
- ITS



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 (φx(D), (φxHxD) or (WxHxD)mm)	φ42 × 56.8 × 53.9
Weight (g)	131.8

Dimensions

unit:mm



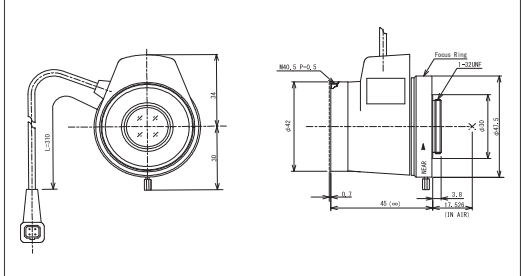
- FIX
- P-iris
- 5MP
- ITS



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 (φx(D), (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.

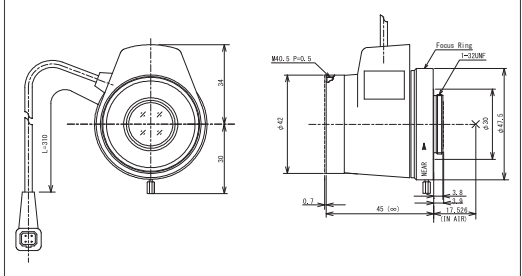
- FIX
- P-iris
- 5MP
- ITS



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 (φx(D), (φxHxD) or (WxHxD)mm)	φ42 × 57.8 × 45
Weight (g)	103

Dimensions

unit:mm

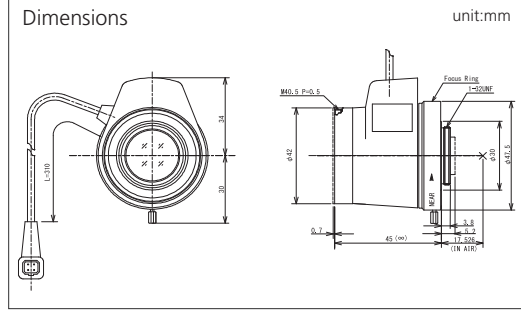


※ P-iris lenses can only be controlled by specifically designed cameras with P-iris software.

- 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 (φD),(φFstD) or (WxHxD)mm	φ42 × 57.8 × 45
Weight (g)	110

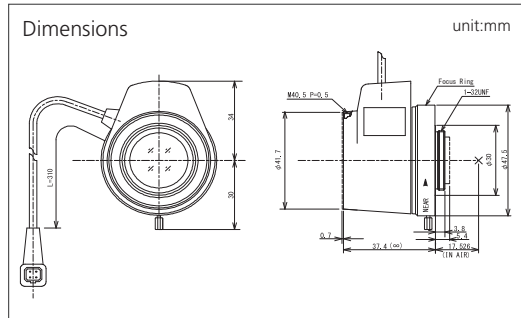


※ P-iris lenses can only be controlled by specifically designed cameras with P-iris software.

- 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 (φD),(φFstD) or (WxHxD)mm	φ41.7 × 57.8 × 37.4
Weight (g)	100



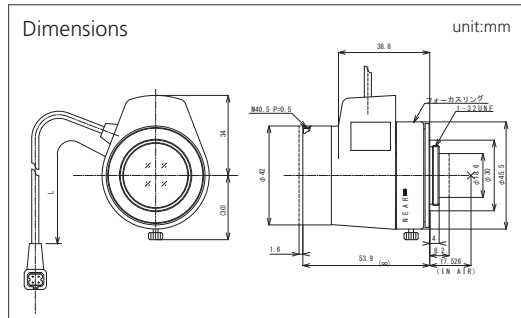
※ P-iris lenses can only be controlled by specifically designed cameras with P-iris software.

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 (φD),(φFstD) or (WxHxD)mm	φ42 × 58.6 × 53.9
Weight (g)	129

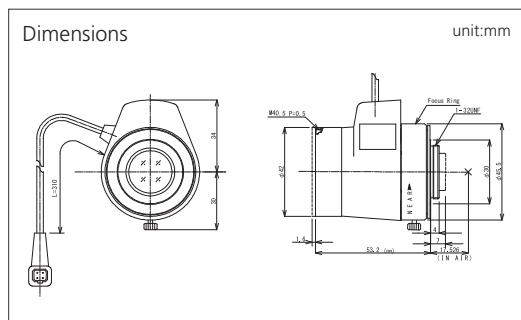


※ P-iris lenses can only be controlled by specifically designed cameras with P-iris software.

- 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 (φD),(φFstD) or (WxHxD)mm	φ42 × 56.8 × 53.2
Weight (g)	123

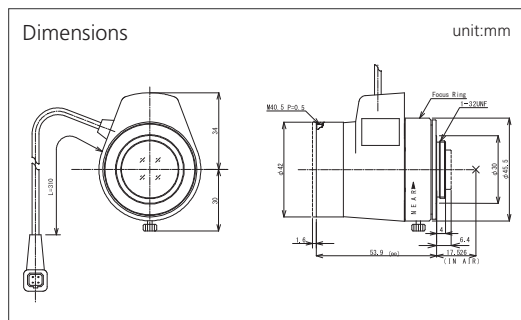


※ P-iris lenses can only be controlled by specifically designed cameras with P-iris software.

- 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 (φD),(φFstD) or (WxHxD)mm	φ42 × 56.8 × 53.9
Weight (g)	129



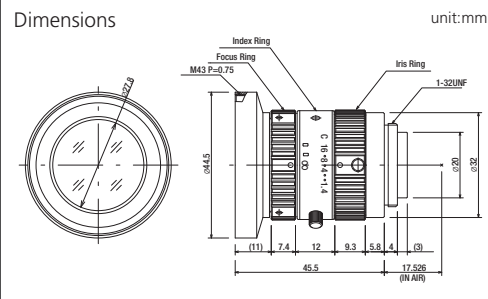
※ P-iris lenses can only be controlled by specifically designed cameras with P-iris software.

- 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	φ44.5 × 45.5
Weight (g)	102

Dimensions

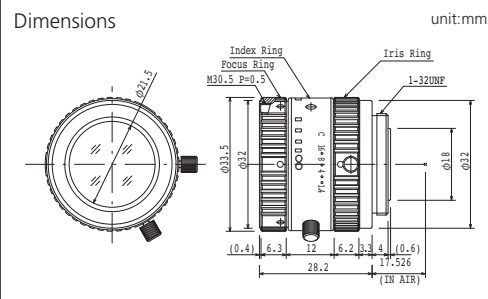


- FIX
- MANUAL
- 1.5MP
- SECURITY
- FA



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	φ33.5 × 28.2
Weight (g)	63

Dimensions

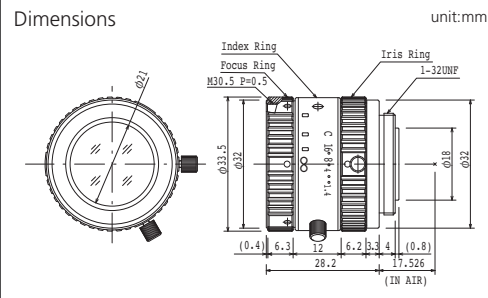


- FIX
- MANUAL
- 1.5MP
- SECURITY
- FA



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	φ33.5 × 28.2
Weight (g)	62

Dimensions

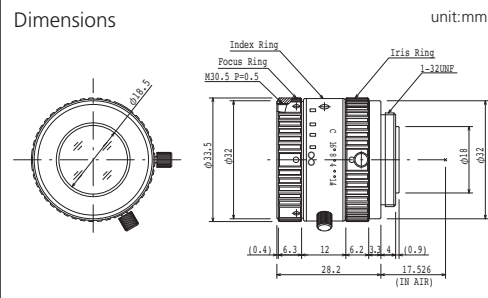


- FIX
- MANUAL
- 1.5MP
- SECURITY
- FA



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	φ33.5 × 28.2
Weight (g)	60

Dimensions

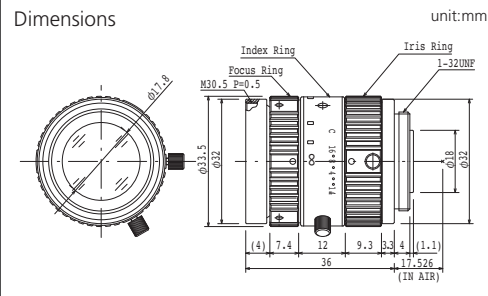


- FIX
- MANUAL
- 1.5MP
- SECURITY
- FA



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	φ33.5 × 36.0
Weight (g)	71

Dimensions



MEGAPIXEL

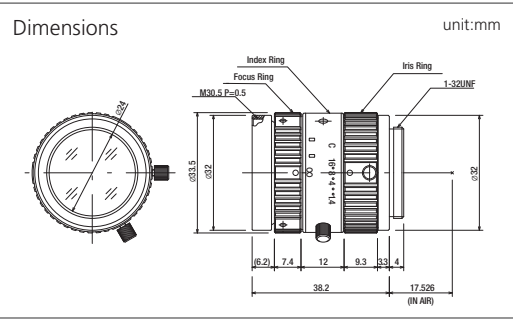
MEGAPIXEL

FA · IMAGE PROCESSING / SECURITY / ITS

- FIX
- MANUAL
- 1.5MP
- FA



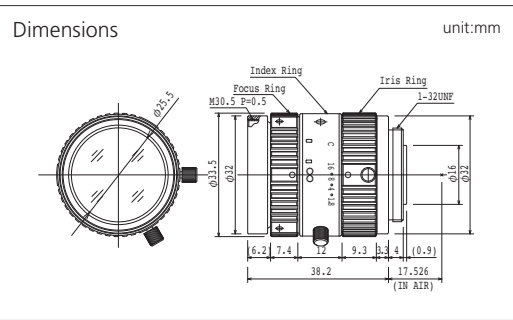
MODEL NO.	M3514-MP
Format (")	2/3
Mount	C
Focal Length (mm)	35
Aperture (F)	1.4-16C
Angle of View (HOR)°	13.9
M.O.D. (m)	0.3
Effective Aperture	Front (φmm) 24.0
	Rear (φmm) 12.0
Front Filter Thread (φMxP=)	30.5 × 0.5
Dimensions (φxL) (φxHxD) or (WxHxD)mm	φ33.0 × 38.2
Weight (g)	87



- FIX
- MANUAL
- 1.5MP
- SECURITY
- FA



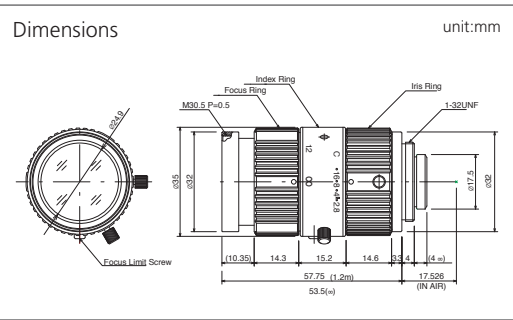
MODEL NO.	M5018-MP2
Format (")	2/3
Mount	C
Focal Length (mm)	50
Aperture (F)	1.8-16C
Angle of View (HOR)°	10.5
M.O.D. (m)	0.5
Effective Aperture	Front (φmm) 25.5
	Rear (φmm) 9.6
Front Filter Thread (φMxP=)	30.5 × 0.5
Dimensions (φxL) (φxHxD) or (WxHxD)mm	φ33.5 × 38.2
Weight (g)	85



- FIX
- MANUAL
- TELE
- 1.5MP
- FA



MODEL NO.	M7528-MP
Format (")	2/3
Mount	C
Focal Length (mm)	75
Aperture (F)	2.8-16C
Angle of View (HOR)°	6.8
M.O.D. (m)	0.3
Effective Aperture	Front (φmm) 24.8
	Rear (φmm) 13.6
Front Filter Thread (φMxP=)	30.5 × 0.5
Dimensions (φxL) (φxHxD) or (WxHxD)mm	φ35.0 × 57.75
Weight (g)	113

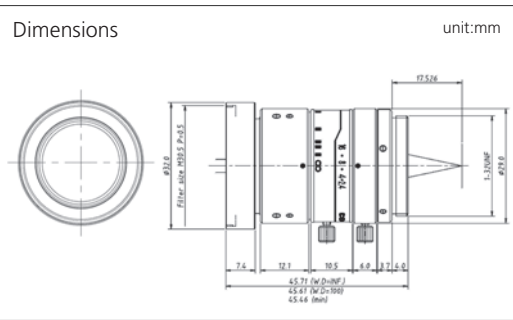


- FIX
- MANUAL
- 5MP
- FA



NEW

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 (φxL) (φxHxD) or (WxHxD)mm	φ32 × 45.71
Weight (g)	80

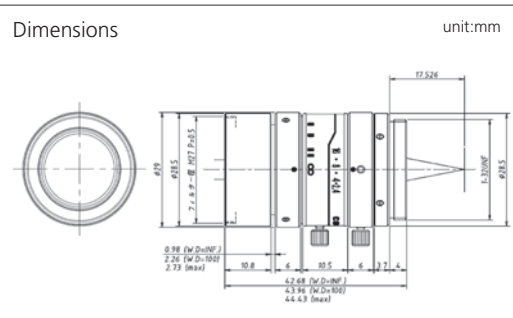


- FIX
- MANUAL
- 5MP
- FA



NEW

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 (φxL) (φxHxD) or (WxHxD)mm	φ29 × 42.68
Weight (g)	72





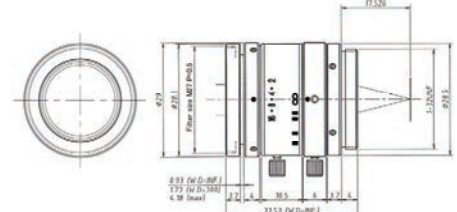
- FIX
- MANUAL
- 5MP
- FA



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) Rear (φmm)
	18.0 11.0
Front Filter Thread (φMxP=)	27.0 × 0.5
Dimensions (φD ₁ / (φHxH ₁) or (WxHxD)mm)	φ29 × 33.53
Weight (g)	53

Dimensions

unit:mm



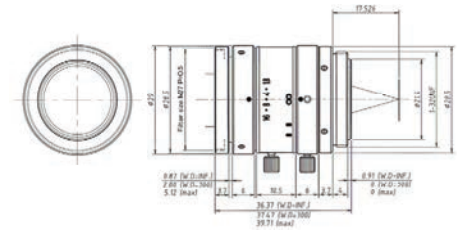
- FIX
- MANUAL
- 5MP
- FA



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) Rear (φmm)
	18.0 13.0
Front Filter Thread (φMxP=)	27.0 × 0.5
Dimensions (φD ₁ / (φHxH ₁) or (WxHxD)mm)	φ29 × 36.37
Weight (g)	60

Dimensions

unit:mm



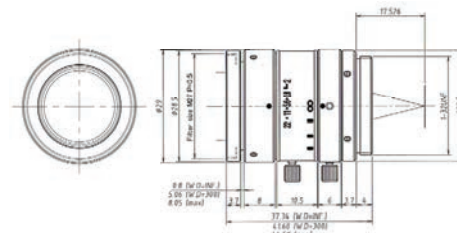
- FIX
- MANUAL
- 5MP
- FA



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) Rear (φmm)
	18.0 12.0
Front Filter Thread (φMxP=)	27.0 × 0.5
Dimensions (φD ₁ / (φHxH ₁) or (WxHxD)mm)	φ29 × 37.34
Weight (g)	59

Dimensions

unit:mm



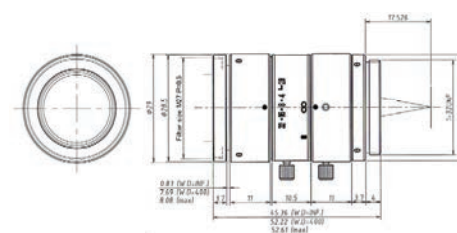
- FIX
- MANUAL
- 5MP
- FA



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) Rear (φmm)
	18.0 12.0
Front Filter Thread (φMxP=)	27.0 × 0.5
Dimensions (φD ₁ / (φHxH ₁) or (WxHxD)mm)	φ29 × 45.36
Weight (g)	69

Dimensions

unit:mm



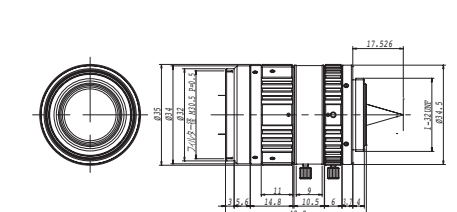
- FIX
- MANUAL
- 5MP
- SECURITY
- FA
- FLOATING



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) Rear (φmm)
	18.0 13.0
Front Filter Thread (φMxP=)	30.5 × 0.5
Dimensions (φD ₁ / (φHxH ₁) or (WxHxD)mm)	φ35 × 48.90
Weight (g)	102

Dimensions

unit:mm



MACRO
TELECENTRIC

MACRO ZOOM / TELECENTRIC

FA • IMAGE PROCESSING

ZOOM

MANUAL

FA

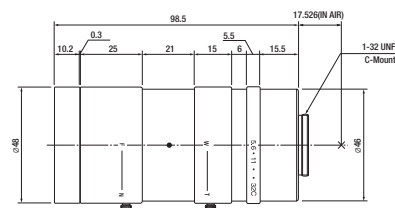


MODEL NO.	MLH-10X
Format (")	1/2
Mount	C
Focal Length (mm)	* 0.084-0.84X
Aperture (F)	5.6-32C
Angle of View (HOR)°	18.0-3.6
M.O.D. (m)	0.1524 (6")
Effective Aperture	Front (φmm) 30.0
	Rear (φmm) 6.4
Front Filter Thread (φMxP=)	46.0 × 0.75
Dimensions (φxD, φxHxD) or (WxHxD)mm	φ48 × 98.5
Weight (g)	260

NOTE : Macro zoom lens * mark shows maximum magnification

Dimensions

unit:mm



ZOOM

MANUAL

1MP

FA

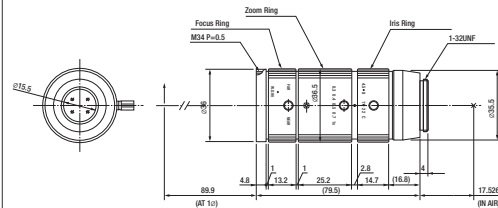


MODEL NO.	MLM-3XMP
Format (")	2/3
Mount	C
Focal Length (mm)	* 0.3-1.0X
Aperture (F)	4.5-22C
Angle of View (HOR)°	11.8-2.78
M.O.D. (m)	0.09
Effective Aperture	Front (φmm) 15.5
	Rear (φmm) 7.0
Front Filter Thread (φMxP=)	34.0 × 0.5
Dimensions (φxD, φxHxD) or (WxHxD)mm	φ36.5 × 79.5
Weight (g)	150

NOTE : Macro zoom lens * mark shows maximum magnification

Dimensions

unit:mm



ZOOM

MANUAL

5MP

FA

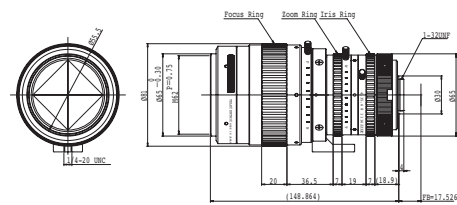


型名	TEC-V7X
Format (")	1.1
Mount	C
Focal Length (mm)	* 0.07-0.5X
Aperture (F)	4.3-32
Angle of View (HOR)°	7.05-1.12
M.O.D. (m)	0.182
Effective Aperture	Front (φmm) 55.2
	Rear (φmm) 14.9
Front Filter Thread (φMxP=)	62.0 × 0.75
Dimensions (φxD, φxHxD) or (WxHxD)mm	φ61 × 152.86
Weight (g)	1400

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

Dimensions

unit:mm



FIX

MANUAL

FA

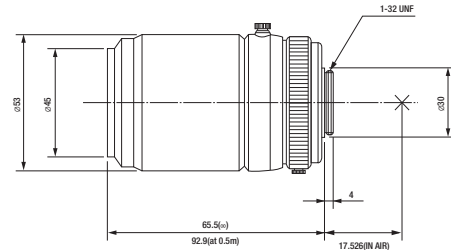


MODEL NO.	TEC-M55
Format (")	2/3
Mount	C
Focal Length (mm)	55
Aperture (F)	2.8-32C
Angle of View (HOR)°	9.2
M.O.D. (m)	0.14
Effective Aperture	Front (φmm) 33.0
	Rear (φmm) 13.3
Front Filter Thread (φMxP=)	43.0 × 0.75
Dimensions (φxD, φxHxD) or (WxHxD)mm	φ53 × 92.9
Weight (g)	320

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

Dimensions

unit:mm



FIX

MANUAL

5MP

FA

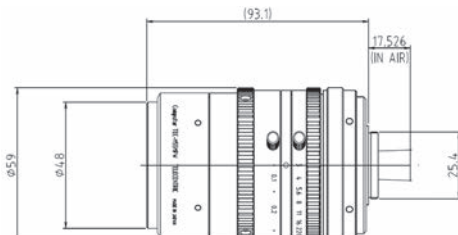


MODEL NO.	TEC-M55MPW
Format (")	2/3
Mount	C
Focal Length (mm)	55
Aperture (F)	3.0-22C
Angle of View (HOR)°	0.14
M.O.D. (m)	0.14
Effective Aperture	Front (φmm) 30.8
	Rear (φmm) 10.7
Front Filter Thread (φMxP=)	46.0 × 0.75
Dimensions (φxD, φxHxD) or (WxHxD)mm	φ59 × 93.1
Weight (g)	470

NEW

Dimensions

unit:mm



ACCESSORIES



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



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



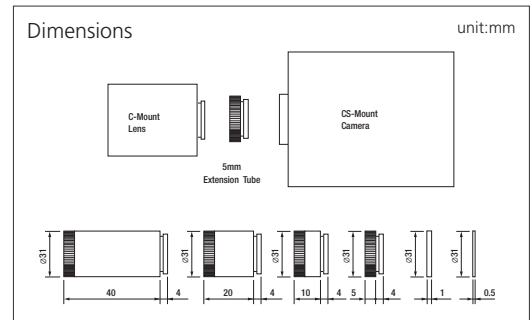
MODEL NO.	EX2CS
Description	2X Extender for CS-mount
Application	Attached between lens and camera - Makes focal length 2X



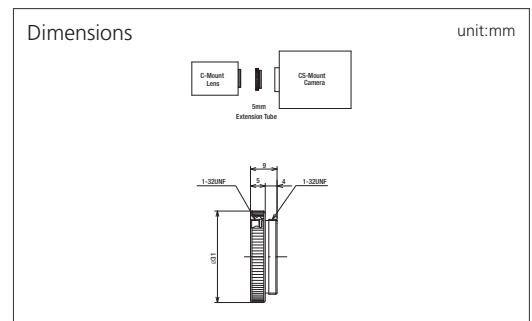
MODEL NO.	EX2C
Description	2X Extender for C-mount
Application	Attached between lens and camera - Makes focal length 2X



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



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



MODEL NO.	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

SWIR Lens

Short-wavelength IR (800-1700nm)

- FIX
- MANUAL
- SWIR
- FA

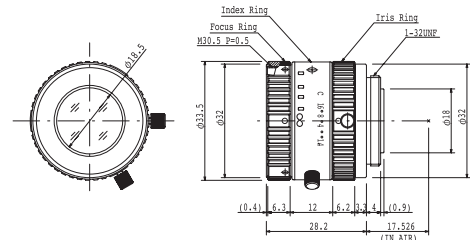


NEW

MODEL NO.	M1614-SW
Focal Length (mm)	16
Aperture (F)	1.4-16C
Image Circle	φ 12.3
Mount	C
Angle of View (HOR)° (15 μ m, 640x512 sensor)	21.6
M.O.D. (m)	0.3
Front Filter Thread (φ MxP=)	30.5 × 0.5
Dimensions	φ 33.5 × 28.2
Weight (g)	60

Dimensions

unit:mm



- FIX
- MANUAL
- SWIR
- FA

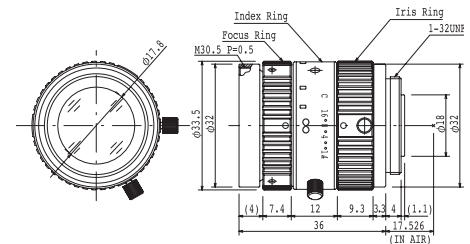


NEW

MODEL NO.	M2514-SW
Focal Length (mm)	25
Aperture (F)	1.4-16C
Image Circle	φ 12.3
Mount	C
Angle of View (HOR)° (15 μ m, 640x512 sensor)	21.6
M.O.D. (m)	0.3
Front Filter Thread (φ MxP=)	30.5 × 0.5
Dimensions	φ 33.5 × 36.0
Weight (g)	71.2

Dimensions

單位:mm



- FIX
- MANUAL
- SWIR
- FA

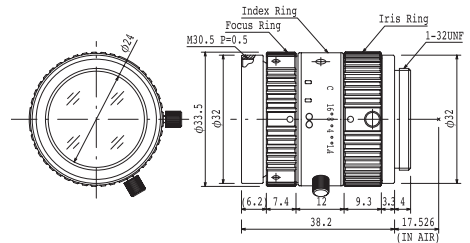


NEW

MODEL NO.	M3514-SW
Focal Length (mm)	35
Aperture (F)	1.4-16C
Image Circle	φ 12.3
Mount	C
Angle of View (HOR)° (15 μ m, 640x512 sensor)	16.0
M.O.D. (m)	0.3
Front Filter Thread (φ MxP=)	30.5 × 0.5
Dimensions	φ 33.5 × 38.2
Weight (g)	87

Dimensions

unit:mm



- FIX
- MANUAL
- SWIR
- FA

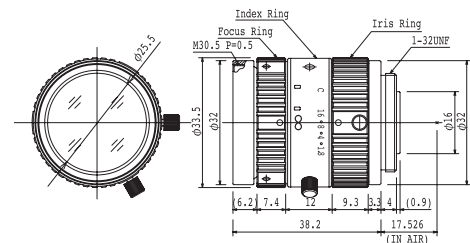


NEW

MODEL NO.	M5018-SW
Focal Length (mm)	50
Aperture (F)	1.8-16C
Image Circle	φ 12.3
Mount	C
Angle of View (HOR)° (15 μ m, 640x512 sensor)	11.3
M.O.D. (m)	0.3
Front Filter Thread (φ MxP=)	30.5 × 0.5
Dimensions	φ 33.5 × 38.2
Weight (g)	85

Dimensions

unit:mm



LWIR Lens

Long-wavelength IR (8-12 μ m)

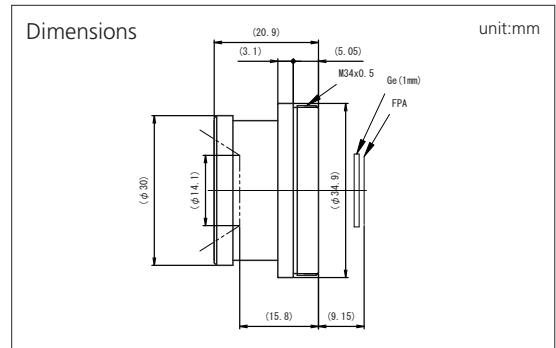


- FIX
- LWIR
- ATHERMAL
- 17 μ m



MODEL NO.	TH17V1311-34
Focal Length (mm)	13
Aperture (F)	1.1
Image Circle	ϕ 13.6
Mount (mm)	M34 x 0.5 (Pitch)
Wave Band (μ m)	8-12
Angle of View (HOR) $^{\circ}$ (17 μ m, 640 x480 sensor)	50.3
Back Focal Length (mm) (Include 1mm Ge Window)	12.44
Material Used	Zinc Sulfide
Dimensions	ϕ 30 \times 20.9
Weight (g)	19

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

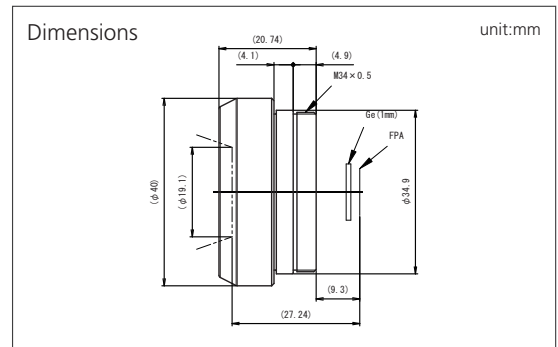


- FIX
- LWIR
- ATHERMAL
- 17 μ m



MODEL NO.	TH17V1810-34
Focal Length (mm)	18.8
Aperture (F)	1.0
Image Circle	ϕ 13.6
Mount (mm)	M34 x 0.5 (Pitch)
Wave Band (μ m)	8-12
Angle of View (HOR) $^{\circ}$ (17 μ m, 640 x480 sensor)	32.9
Back Focal Length (mm) (Include 1mm Ge Window)	11.3
Material Used	Zinc Sulfide
Dimensions	ϕ 40 \times 20.74
Weight (g)	20

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

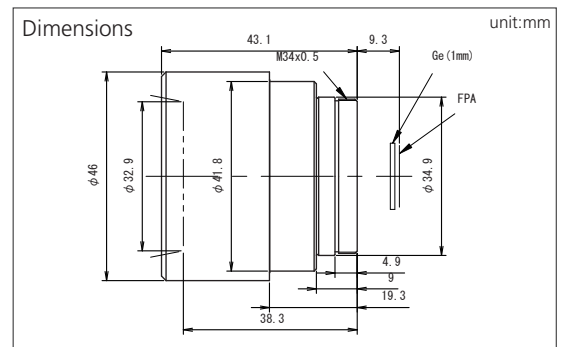


- FIX
- LWIR
- ATHERMAL
- 17 μ m



MODEL NO.	TH17V3511-34
Focal Length (mm)	35
Aperture (F)	1.1
Image Circle	ϕ 13.6
Mount (mm)	M34 x 0.5 (Pitch)
Wave Band (μ m)	8-12
Angle of View (HOR) $^{\circ}$ (17 μ m, 640 x480 sensor)	17.7
Back Focal Length (mm) (Include 1mm Ge Window)	13.2
Material Used	Zinc Sulfide
Dimensions	ϕ 46 \times 43.1
Weight (g)	94

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°C~+50°C	-10°C~+50°C

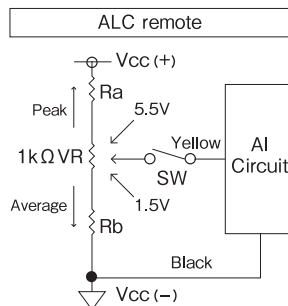
Pin No.	Color	Function
1	Brown	Control (-)
2	Red	Control (+)
3	Yellow	Drive (+)
4	Orange	Drive (-)

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

REMOTE FUNCTIONS

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

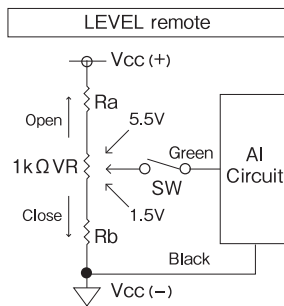
T21Z5816AMS-CS2/AMSP-CS2
H10Z0812AMS-2/AMSP-2
H10Z1218AMS-2/AMSP-2



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

2) LEVEL remote (AS OPTION)

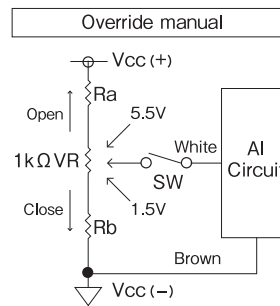
T6Z5710AMS-CS/AMSP-CS
T10Z5712AMS-CS/AMSP-CS
T34Z5518AMS-CS/AMSP-CS
T34Z5518AMSR-CS/AMSPR-CS
H6Z0812AMS/AMSP
H16Z7516AMS/AMSP (-IR)
H16Z7516AMSR/AMSPR (-IR)



*Vcc represents input voltage.

3) Override manual

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

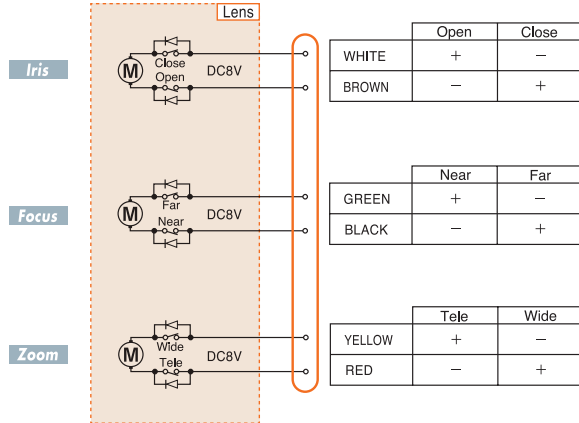


*Vcc represents input voltage.
*The remote voltage should be set between 1.5 ~ 5.5V, and level remote should be OFF.

WIRING DIAGRAMS FOR MOTORIZED ZOOM LENSES 1

Motorized zoom / 3 motor type

Iris, focus & zoom can be adjusted by controller.



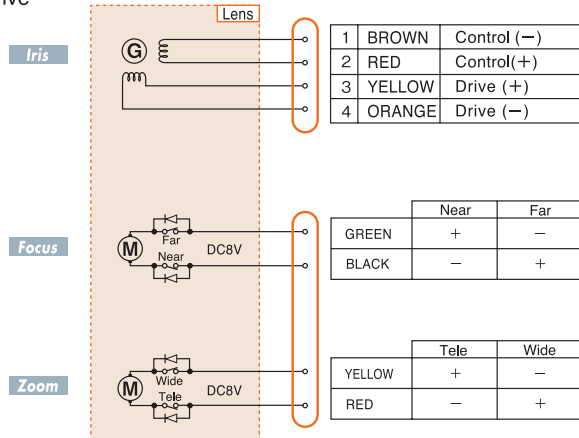
Remarks : Connect together with iris, focus and zoom for common system when necessary.

Motorized zoom / auto iris type

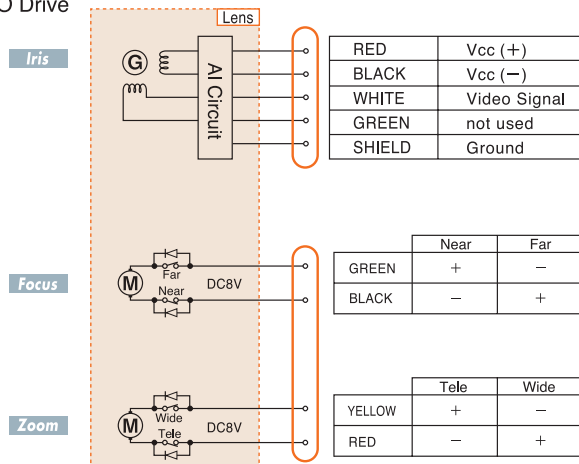
Auto-iris, focus & zoom can be adjusted by controller.

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

DC Drive



VIDEO Drive



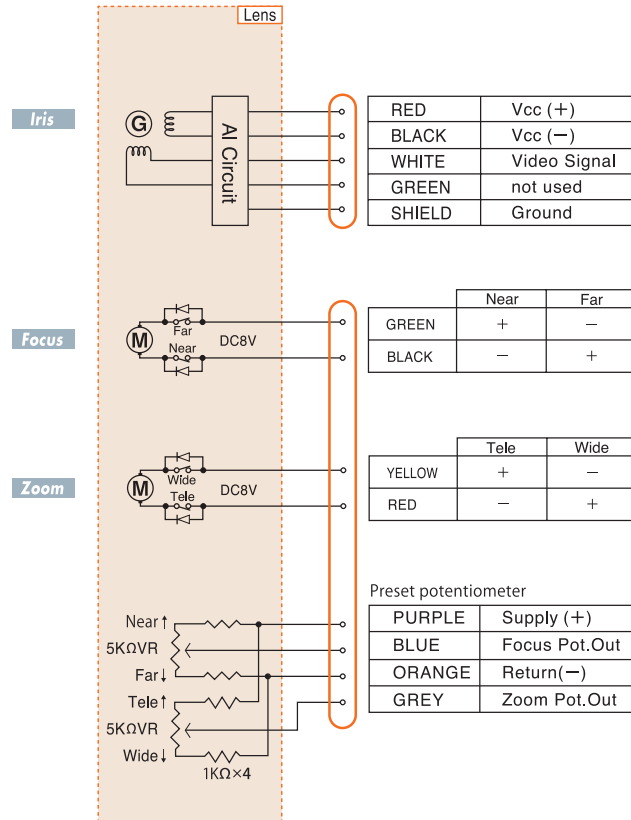
Remarks : Connect together with iris, focus and zoom for common system when necessary.

WIRING DIAGRAMS FOR MOTORIZED ZOOM LENSES 2

Motorized zoom preset potentiometer for focus & zoom

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

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

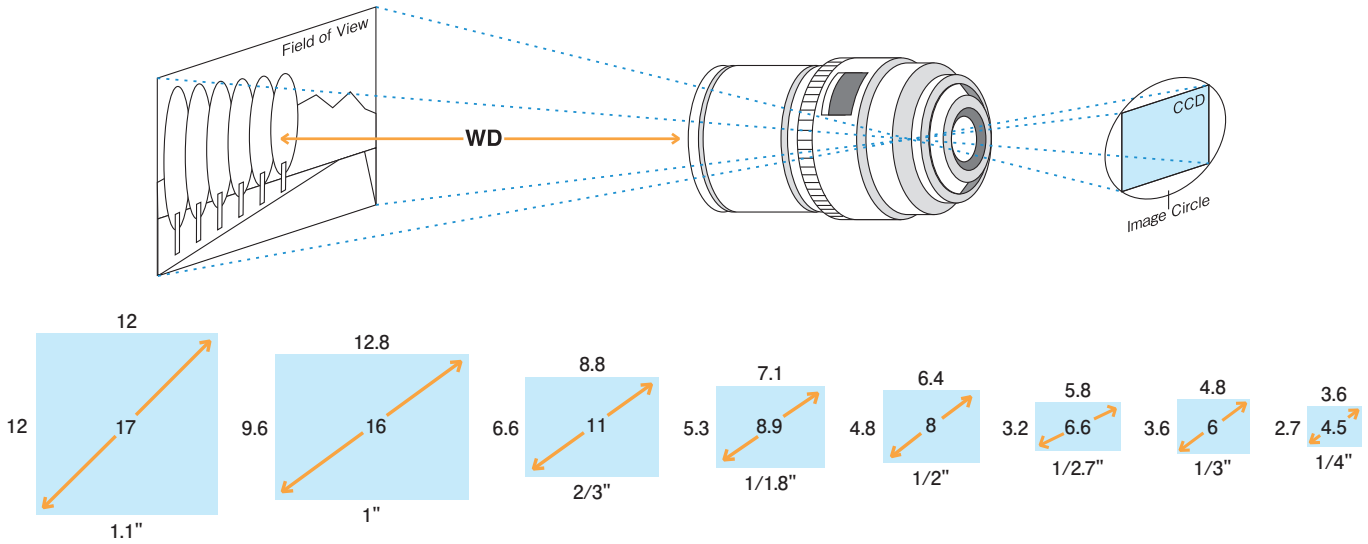


Remarks : Connect together with iris, focus and zoom for common system when necessary.

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

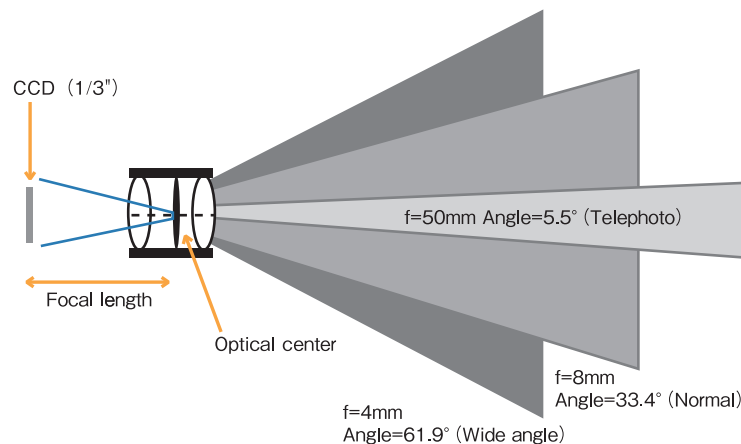
IMAGE SIZE

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 "computer" 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.



ANGLE OF VIEW

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

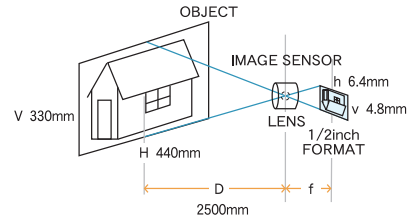
Formula for calculation

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

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

FORMAT	2/3 inch	1/2 inch	1/3 inch	1/4 inch
v	6.6mm	4.8mm	3.6mm	2.7mm
h	8.8mm	6.4mm	4.8mm	3.6mm

For example



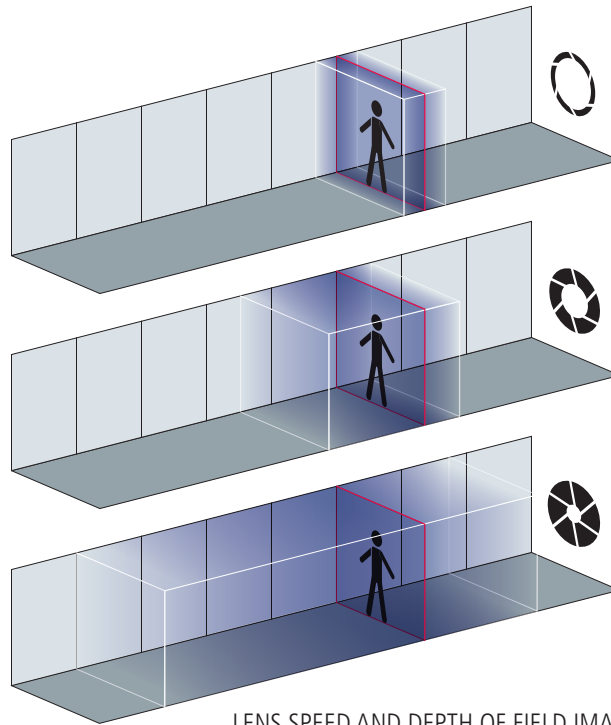
- (1) In case of vertical size
 1/2 inch camera v = 4.8mm
 Vertical size of object V = 330mm(33cm)
 Distance from lens to object D = 2500mm(250cm)
 substitute these datas to formula (1)
- $$f = 4.8 \times \frac{2500}{330} \doteq 36\text{mm}$$
- (2) In case of horizontal size
 1/2 inch camera h = 6.4mm
 Horizontal size of object H = 440mm(44cm)
 Distance from lens to object D = 2500mm(250cm)
 substitute these datas to formula (2)
- $$f = 6.4 \times \frac{2500}{440} \doteq 36\text{mm}$$

COMPARISON OF MONITORING IMAGES

Object distance	2m	5m	10m	20m ※ Images on 1/3" camera
Focal length				
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 depth of field the low light performance of the camera will now be reduced.

VIDEO DRIVE OR DC DRIVE

With auto iris lenses it is necessary to control the operation of the iris to maintain perfect picture levels, Video drive lenses contain amplifier circuitry 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.

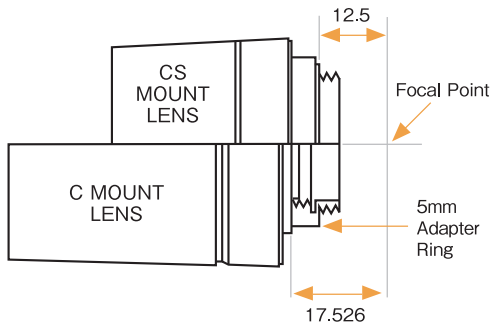
F STOP

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

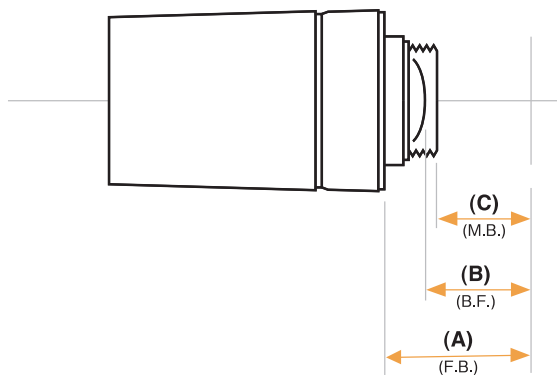
C OR CS MOUNT

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

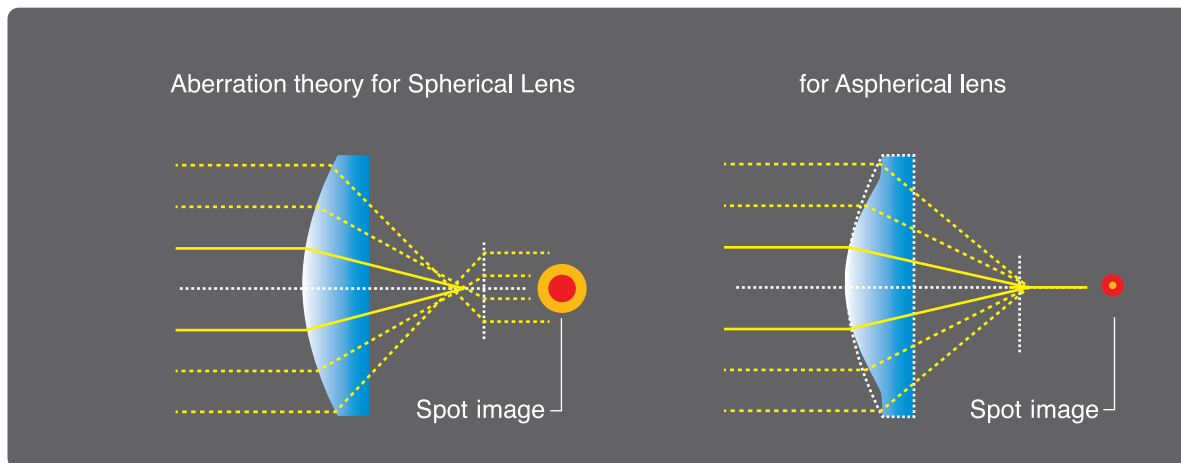


(A) Flange Back
Distance between the lens flange and CCD focal plane

(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

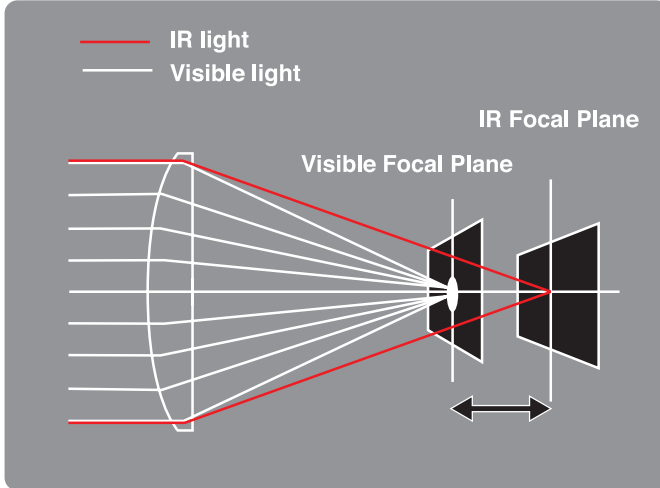


Spherical lenses have constant refractive indices and are commonly used in almost all CCTV lenses. They are designed in such a way so that light passing through the glass and center of a spherical element should fall on a single point on the image plane, but causing some spherical aberration. This problem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

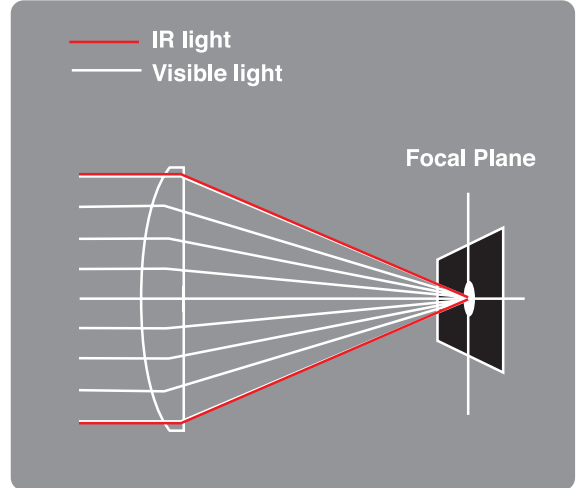


MECHANISM AND ADVANTAGEOUS EFFECT OF IR LENS

■ NON IR LENS

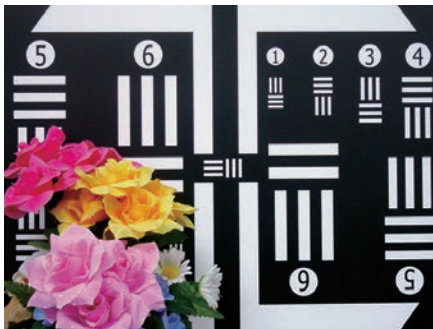


■ IR LENS



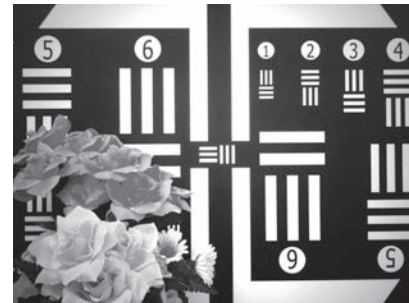
Day & Night cameras normally operate in the near-infrared / infrared zones at night, making the image "out of focus" and unsuitable if used with a conventional lens. Computar® has developed IR Lenses that utilize a special optical glass material which minimizes light dispersion. As a result, refocusing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

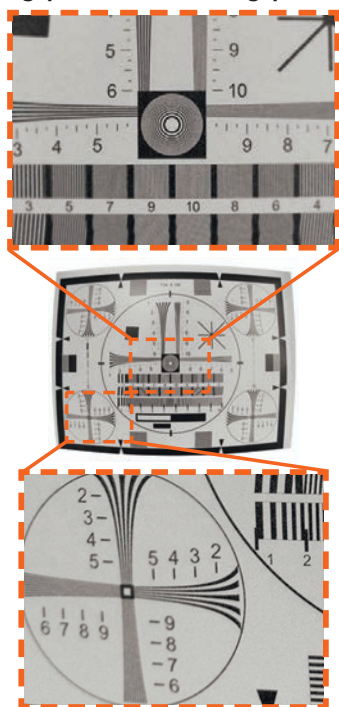
MEGAPIXEL

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.

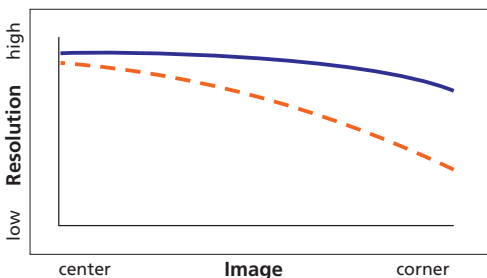
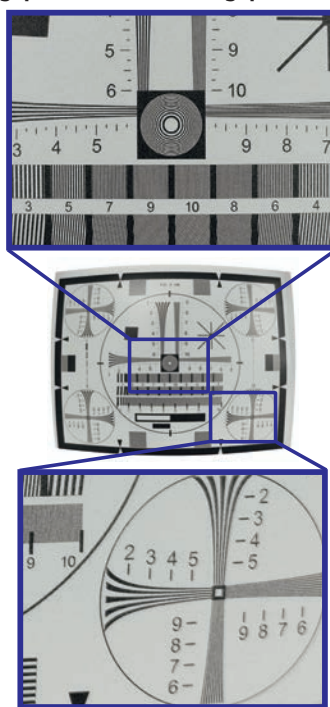
MEGAPIXEL LENS FOR MEGAPIXEL CAMERA

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



Megapixel lens ———
Non-megapixel lens - - - -

※ Above pictures and chart are image 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	Mount	Focal Length (mm)	Aperture (F)	Angle of View (HORIZONTAL)				UNIT: (°)
		inch				2/3"	1/2"	1/3"	1/4"	
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	Mount	Focal Length (mm)	Aperture (F)	Angle of View (HORIZONTAL)				UNIT: (°)
		inch				2/3"	1/2"	1/3"	1/4"	
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	

VARIFOCAL MANUAL IRIS

P6 ~ 8

	Model No.	Format	Mount	Focal Length (mm)	Aperture (F)	Angle of View (HORIZONTAL)				UNIT: (°)
		inch				2/3"	1/2"	1/3"	1/4"	
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	

SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE

ANGLE OF VIEW

ANGLE OF VIEW

VARIFOCAL AUTO IRIS

DC DRIVE / VIDEO DRIVE

P9 ~ 14

	Model No.	Format	Mount	Focal Length (mm)	Aperture (F)	Angle of View (HORIZONTAL)				UNIT: (°)
		inch				2/3"	1/2"	1/3"	1/4"	
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	
	TG5Z28513FCS-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	
	TG5Z28513AFCS-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	Mount	Focal Length (mm)	Aperture (F)	Angle of View (HORIZONTAL)				UNIT: (°)
		inch				2/3"	1/2"	1/3"	1/4"	
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	Mount	Focal Length (mm)	Aperture (F)	Angle of View (HORIZONTAL)				UNIT: (°)
		inch				2/3"	1/2"	1/3"	1/4"	
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	Mount	Focal Length (mm)	Aperture (F)	Angle of View (HORIZONTAL)				UNIT: (°)
		inch				2/3"	1/2"	1/3"	1/4"	
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
	H10Z0819-MP series	1/2	C	8-80	1.9 ~	-	-	44.81-4.45	34.62-3.38	26.39-2.55
MEGAPIXEL	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
DC IRIS	E3Z3915CS-MPWIR	1/1.8	CS	3.9-10	1.5-16C	-	108.1-42.1	96.0-37.9	-	-	-	70.2-28.4	-
	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	-
P-IRIS	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	-
	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	-	

SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE

ANGLE OF VIEW



MEGAPIXEL MONOFOCAL ITS

P40 ~ 43

	Model No.	Format	Mount	Focal Length (mm)	Aperture (F)	Angle of View (HORIZONTAL)				UNIT: (°)
		inch				2/3" (8.8x6.6mm)	1/2" (6.4x4.8mm)	1/3" (4.8x3.6mm)	1/4" (3.6x2.7mm)	
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" (8.8x6.6mm)	1/2" (6.4x4.8mm)	1/3" (4.8x3.6mm)	1/4" (3.6x2.7mm)	
MEGAPIXEL	H0514-MP2	1/2	C	5	1.4-16C	-	65.5	51.4	39.5	
	M0814-MP2	2/3	C	8	1.4-16C	56.3	42.5	32.4	24.6	
	M1214-MP2	2/3	C	12	1.4-16C	40.4	30.0	22.7	17.1	
	M1614-MP2	2/3	C	16	1.4-16C	30.8	22.7	17.1	12.6	
	M2514-MP2	2/3	C	25	1.4-16C	20.0	14.6	11.0	8.2	
	M3514-MP	2/3	C	35	1.4-16C	13.9	10.1	7.6	5.7	
	M5018-MP2	2/3	C	50	1.8-16C	10.5	7.6	5.7	4.3	
	M7528-MP	2/3	C	75	2.8-16C	6.8	5.0	3.7	2.8	
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" (12x12mm)	1" (12.8x9.6mm)	2/3" (8.8x6.6mm)	1/2" (6.4x4.8mm)	
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"	640x512 (15µm)	320x256 (20µm)	320x256 (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 (8-12 µm)

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	

40+ YEARS
JAPANESE ENGINEERING

Computar Optics Group

CBC AMERICAS Corp. **Corporate Headquarters**

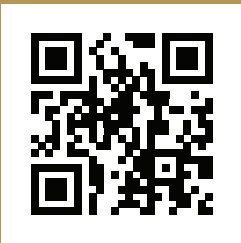
2000 Regency Parkway
Suite 600
Cary, NC 27518
Tel: +1 919 230-8700
email: computar@cbcamerica.com

CBC AMERICAS Corp. **West Coast Office**

21241 S. Western Avenue
Suite #160
Torrance, CA 90501
Tel : +1 310 222-8600
Fax : +1 310 787-0464

CBC AMERICAS Corp. **Mexico Branch Office**

Galileo #20, Desp. 101
Col. Polanco
Deleg. Miguel Hidalgo
México D.F. C.P. 11560
Tel : +52 55 5280 4660
Fax : +52 55 5280 3073



2016.5

www.computar.com



Image & Information Technology Division
2-15-13, Tsukishima, Chuo-ku, Tokyo 104-0052, Japan
TEL: +81(0)3 3536 5021 FAX: +81(0)3 3536 4841

www.computar.com
www.computar-global.com

Tokyo HQ Registered



Tokyo HQ Registered

