

LENSES FOR CCTV CAMERAS

Motorized Zoom and Varifocal Auto iris Lenses

CT-6ZMG



CT-10ZMGA



CT-21ZMG



Manual Zoom and Varifocal Auto iris Lenses

CT-2ZMGA



CT-10VFG



Auto iris Lenses

CH-2610G



Aspherical Lens

CH-3808G



Aspherical Lens

CH-0808G



Aspherical Lens



CT-0312GA



CT-0412GA



CT-0812GA

Manual iris Lenses

CT-0312A



CT-0412A



CT-0812A



FEATURES

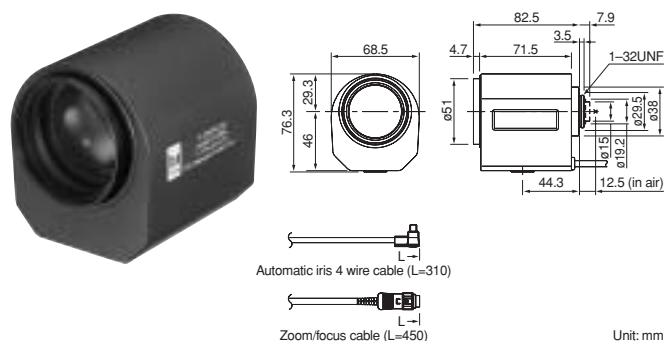
- The flexible TOA CCTV lens range includes a manual iris lens, an auto iris lens and a motorized zoom lens as well as a pin-hole lens, making it simple to select the most suitable lens for any CCTV application.
- An auto iris lens allows using a much higher F number than possible with a conventional lens, increasing its effectiveness for use outdoors under bright, sunny conditions.
- An aspherical lens with a low minimum F number proves especially effective for low-light surveillance use.
- 21X motorized zoom lens offers high-magnification surveillance.

Note: An aspherical lens cannot be used on a B/W camera.

Motorized Zoom and Varifocal Auto iris Lenses (DC-input type)

CT-6ZMG

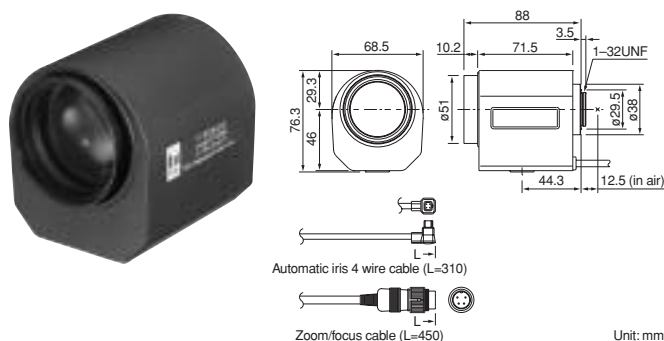
6 × Motorized Zoom Lens
(For 1/3" CCTV cameras)



Focal Length	5.7 – 34.2 mm
Maximum Aperture Ratio	1: 1.0
Image Format Size	4.8 (H) x 3.6 (V) mm
Angle of View	Horizontal: 45.9° – 8.1° Vertical: 34.8° – 6.2°
Aperture Range	F1.0 – F360
Object Distance	∞ – 1.2 m
Flange Back Length	12.5 mm
Filter Size	M49 P = 0.75
Lens Mount	CS mount
Tripod Connector	1/4–20UNC
Zoom	Control voltage: 6 VDC, under 20 mA Zooming speed: Approx. 3.5 s
Focus	Control voltage: 6 VDC, under 20 mA Zooming speed: Approx. 3 s
Operating Temperature	–10°C to +50°C
Weight	440 g
Accessory	Connector for focus (female)1

CT-10ZMGA

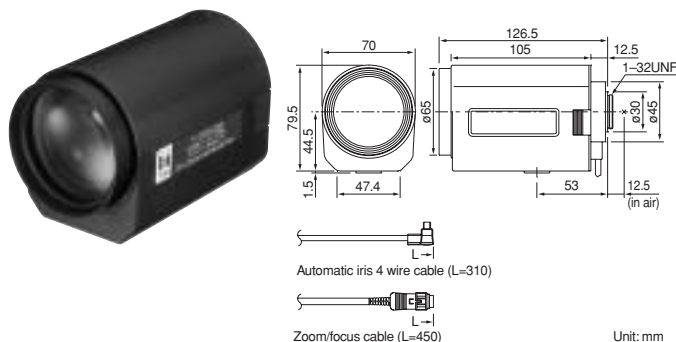
10 × Motorized Zoom Lens
(For 1/3" CCTV cameras)



Focal Length	5.7 – 57 mm
Maximum Aperture Ratio	1: 1.2
Image Format Size	4.8 (H) x 3.6 (V) mm
Angle of View	Horizontal: 44.6° – 4.8° Vertical: 34.2° – 3.7°
Aperture Range	F1.2 – F560
Object Distance	∞ – 1.8 m
Flange Back Length	12.5 mm
Filter Size	M49 P = 0.75
Lens Mount	CS mount
Tripod Connector	1/4–20UNC
Zoom	Control voltage: 6 VDC, under 20 mA Zooming speed: Approx. 4.5 s
Focus	Control voltage: 6 VDC, under 20 mA Zooming speed: Approx. 4.5 s
Operating Temperature	–10°C to +50°C
Weight	460 g
Accessory	Connector for focus (female)1

CT-21ZMG

21 × Motorized Zoom Lens
(For 1/3" CCTV cameras)

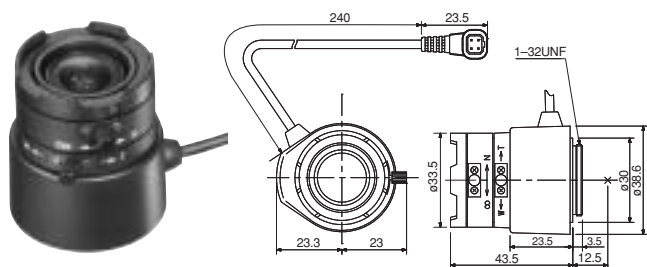


Focal Length	5.8 – 121.8 mm
Maximum Aperture Ratio	1: 1.6
Image Format Size	4.8 (H) x 3.6 (V) mm
Angle of View	Horizontal: 44.8° – 2.3° Vertical: 33.8° – 1.8°
Aperture Range	F1.6 – F560
Object Distance	∞ – 1.5 m
Flange Back Length	12.5 mm
Filter Size	M62 P = 0.75
Lens Mount	CS mount
Tripod Connector	1/4–20UNC
Zoom	Control voltage: 6 VDC, under 40 mA Zooming speed: Approx. 4.5 s
Focus	Control voltage: 6 VDC, under 40 mA Zooming speed: Approx. 5 s
Operating Temperature	–10°C to +50°C
Weight	650 g
Accessory	Connector for focus (female)1

Manual Zoom and Varifocal Auto iris Lenses (DC-input type)

CT-2ZMGA

2 × Varifocal Lens
(For 1/3" CCTV cameras)

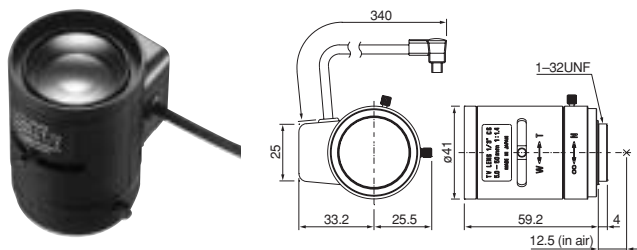


Unit: mm

Focal Length	3.5 – 8 mm
Maximum Aperture Ratio	1: 1.4 – 1.8
Image Format Size	4.8 (H) x 3.6 (V) mm
Angle of View	Horizontal: 53.6° – 5.6° Vertical: 40.3° – 4.2° Opposite angle: 97.9° – 44.3°
Aperture Range	WIDE: F1.4 – F360 TELE: F1.8 – F360
Minimum Object Distance	0.4 m
Back Focus Length	13.1 – 8.3 mm
Flange Back Length	12.5 mm
Lens Mount	CS mount
Operating Temperature	– 20°C to +50°C
Finish	Black, matte
Dimensions	46.3 (W) x 38.6 (H) x 43.5 (D) mm
Weight	48 g

CT-10VFG

10 × Varifocal Lens
(For 1/3" CCTV cameras)



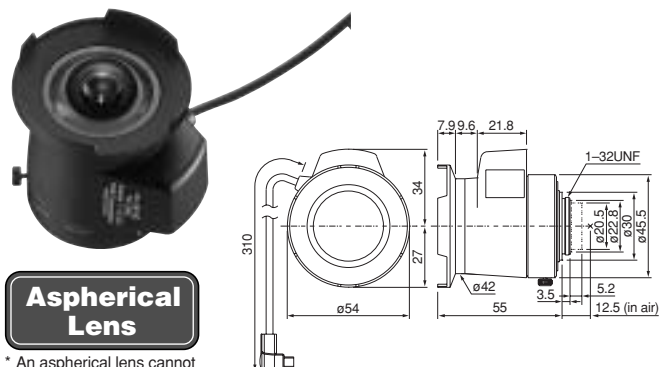
Unit: mm

Focal Length	5.0 – 50 mm
Maximum Aperture Ratio	1: 1.4 – 2.0
Image Format Size	4.8 (H) x 3.6 (V) mm
Angle of View	Horizontal: 53.6° – 5.6° Vertical: 40.3° – 4.2°
Aperture Range	F1.4 – F180
Object Distance	∞ – 1.0 m (∞ – 0.3 m when the Tele/Wide knob is set to W position)
Flange Back Length	12.5 mm
Lens Mount	CS mount
Operating Temperature	– 10°C to +60°C
Weight	95 g

Auto iris Lenses (DC-input type)

CH-2610G

Ultra-Wide-Angle Aspherical Lens
(For 1/3" CCTV cameras)



Aspherical Lens

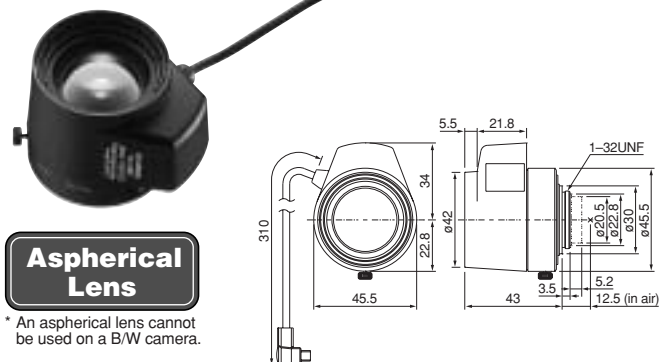
* An aspherical lens cannot be used on a B/W camera.

Unit: mm

Focal Length	2.6 mm
Maximum Aperture Ratio	1: 1.0
Image Format Size	6.4 (H) x 4.8 (V) mm
Angle of View (1/3 inch)	Horizontal: 97.13° Vertical: 75.03°
Aperture Range	F0.8 – F360
Minimum Object Distance	0.1 m
Back Focus	8.5 mm
Flange Back	12.5 mm
Filter Size	M43 P = 0.75
Lens Mount	CS mount
Operating Temperature	– 20°C to +50°C
Finish	Black
Dimensions	54 (W) x 61 (H) x 55 (D) mm
Weight	143 g

CH-0808G

Standard-Angle Aspherical Lens
(For 1/3" CCTV cameras)



Aspherical Lens

* An aspherical lens cannot be used on a B/W camera.

Unit: mm

Focal Length	8 mm
Maximum Aperture Ratio	1: 0.8
Image Format Size	6.4 (H) x 4.8 (V) mm
Angle of View (1/3 inch)	Horizontal: 34.0° Vertical: 25.6°
Aperture Range	F0.8 – F360
Minimum Object Distance	0.3 m
Back Focus	9.6 mm
Flange Back	12.5 mm
Filter Size	M40 P = 0.5
Lens Mount	CS mount
Operating Temperature	– 20°C to +50°C
Finish	Black
Dimensions	45.5 (W) x 56.8 (H) x 43 (D) mm
Weight	120 g

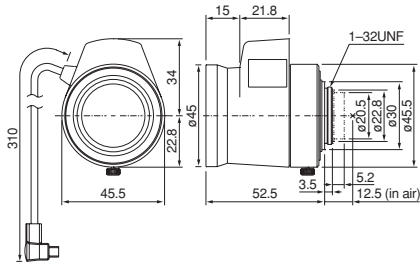
CH-3808G

Wide-Angle Aspherical Lens
(For 1/3" CCTV cameras)



Aspherical Lens

* An aspherical lens cannot be used on a B/W camera.

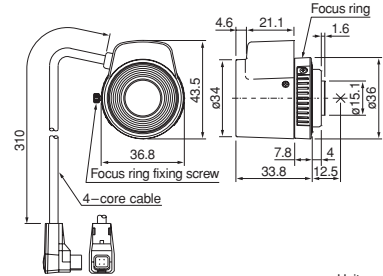


Unit: mm

Focal Length	3.8 mm
Maximum Aperture Ratio	1: 0.8
Image Format Size	6.4 (H) x 4.8 (V) mm
Angle of View (1/3 inch)	Horizontal: 68.6° Vertical: 52.1°
Aperture Range	F0.8 – F360
Minimum Object Distance	0.15 m
Back Focus	9.07 mm
Flange Back Length	12.5 mm
Filter Size	M43 P = 0.75
Lens Mount	CS mount
Operating Temperature	–20°C to +50°C
Finish	Black
Dimensions	45.5 (W) x 56.8 (H) x 52.5 (D) mm
Weight	150 g

CT-0812GA

Standard-Angle Lens
(For 1/3" CCTV cameras)

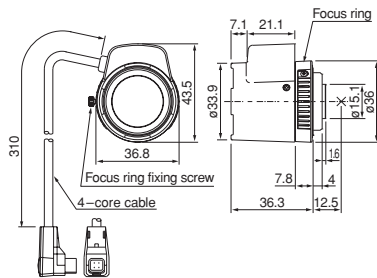


Unit: mm

Focal Length	8 mm ±5%
Maximum Aperture Ratio	1: 1.2
Image Format Size	4.8 (H) x 3.6 (V) mm
Angle of View	Opposite angle: 41.4° Horizontal: 33.3° Vertical: 25.1°
Aperture Range	F1.2 – F200
Minimum Object Distance	0.3 m
Back Focus Length	7.73 mm
Flange Back Length	12.5 mm
Lens Mount	CS mount
Operating Temperature	–20°C to +50°C
Finish	Black, matte
Dimensions	36.8 (W) x 43.5 (H) x 33.8 (D) mm
Weight	44 g

CT-0312GA

Ultra-Wide-Angle Lens
(For 1/3" CCTV cameras)

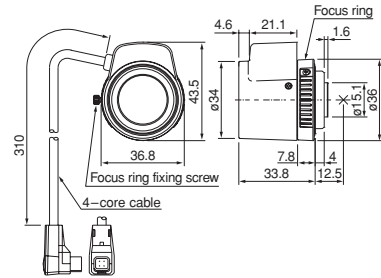


Unit: mm

Focal Length	2.8 mm ±5%
Maximum Aperture Ratio	1: 1.2
Image Format Size	4.8 (H) x 3.6 (V) mm
Angle of View	Opposite angle: 117.8° Horizontal: 94.3° Vertical: 71.5°
Aperture Range	F1.2 – F200
Minimum Object Distance	0.3 m
Back Focus Length	7.67 mm
Flange Back Length	12.5 mm
Lens Mount	CS mount
Operating Temperature	–20°C to +50°C
Finish	Black, matte
Dimensions	36.8 (W) x 43.5 (H) x 36.3 (D) mm
Weight	54 g

CT-0412GA

Wide-Angle Lens
(For 1/3" CCTV cameras)



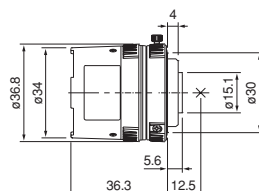
Unit: mm

Focal Length	4 mm ±5%
Maximum Aperture Ratio	1: 1.2
Image Format Size	4.8 (H) x 3.6 (V) mm
Angle of View	Opposite angle: 76.7° Horizontal: 63.9° Vertical: 49.2°
Aperture Range	F1.2 – F200
Minimum Object Distance	0.2 m
Back Focus Length	8.01 mm
Flange Back Length	12.5 mm
Lens Mount	CS mount
Operating Temperature	–20°C to +50°C
Finish	Black, matte
Dimensions	36.8 (W) x 43.5 (H) x 33.8 (D) mm
Weight	49 g

Manual iris lenses

CT-0312A

Ultra-Wide-Angle Lens
(For 1/3" CCTV cameras)

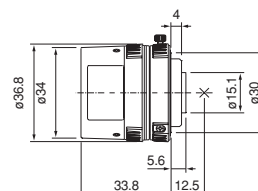


Unit: mm

Focal Length	2.8 mm $\pm 5\%$
Maximum Aperture Ratio	1: 1.2
Image Format Size	4.8 (H) x 3.6 (V) mm
Angle of View	Opposite angle: 117.8° Horizontal: 94.3° Vertical: 71.5°
Aperture Range	F1.2 – Close
Minimum Object Distance	0.3 m
Back Focus Length	7.67 mm
Flange Back Length	12.5 mm
Lens Mount	CS mount
Operating Temperature	-20°C to +50°C
Finish	Black, matte
Dimensions	$\phi 36.8 \times 36.3$ mm
Weight	44 g

CT-0412A

Wide-Angle Lens
(For 1/3" CCTV cameras)

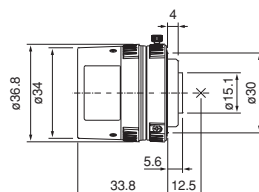


Unit: mm

Focal Length	4 mm $\pm 5\%$
Maximum Aperture Ratio	1: 1.2
Image Format Size	4.8 (H) x 3.6 (V) mm
Angle of View	Opposite angle: 76.7° Horizontal: 63.9° Vertical: 49.2°
Aperture Range	F1.2 – Close
Minimum Object Distance	0.2 m
Back Focus Length	8.01 mm
Flange Back Length	12.5 mm
Lens Mount	CS mount
Operating Temperature	-20°C to +50°C
Finish	Black, matte
Dimensions	$\phi 36.8 \times 33.8$ mm
Weight	39 g

CT-0812A

Standard-Angle Lens
(For 1/3" CCTV cameras)



Unit: mm

Focal Length	8 mm $\pm 5\%$
Maximum Aperture Ratio	1: 1.2
Image Format Size	4.8 (H) x 3.6 (V) mm
Angle of View	Opposite angle: 41.4° Horizontal: 33.3° Vertical: 25.1°
Aperture Range	F1.2 – Close
Minimum Object Distance	0.3 m
Back Focus Length	7.73 mm
Flange Back Length	12.5 mm
Lens Mount	CS mount
Operating Temperature	-20°C to +50°C
Finish	Black, matte
Dimensions	$\phi 36.8 \times 33.8$ mm
Weight	34 g

Color Cameras

C-CC351A/C-CC354A Wide Dynamic Range Color Camera



- **Wide dynamic range**
Provides a new level of performance with natural looking images even in backlight conditions.
- **Backlight compensation**
Allows optimal viewing of desired areas in a backlight conditions.
- **Maximum 32X sensitivity booster**
Enables increasing sensitivity to take good images even in night conditions.
- **Newly developed DSP**
- **Fully automatic mode shift**
- **Easy menu-driven setup**
- **AC mains operation (C-CC351A)/
24V AC operation (C-CC354A)**

C-CV14-CS Compact Color Camera



- Specifically designed for use in indoor applications
- Lens available separately from a range of lens options.
Camera accepts any CS mounted lens.
- 24V AC or 12V DC operation
- Horizontal resolution exceeds 480 (NTSC) lines (PAL 470 lines)
- Equipped with backlight compensation function
- Flickerless operation for viewing ease
- Adjustment switch for easy focusing without using an ND filter