



## INSTRUCTION MANUAL

### AUTO IRIS LENS

**CT-0812GB**  
**CT-0412GB**  
**CT-0312GB**

Please follow the instructions in this manual to obtain the optimum results from this unit.

We also recommend that you keep this manual handy for future reference.

## 1. SAFETY PRECAUTIONS

- Before installation or use, be sure to carefully read all the instructions in this section for correct and safe operation.
- Make sure to observe the instructions in this manual as the conventions of safety symbols and messages regarded as very important precautions are included.
- We also recommend you keep this instruction manual handy for future reference.

### **WARNING**

Indicates a potentially hazardous situation which, if mishandled, could result in death or serious personal injury.

- Don't look through the lens directly at the sunshine this could cause blindness.

### **CAUTION**

Indicates a potentially hazardous situation which, if mishandled, could result in moderate or minor personal injury, and/or property damage.

- Ensure that the lens is securely tightened. If it is not tightened or firmly secured after installation, it could fall down, possibly resulting in personal injury.

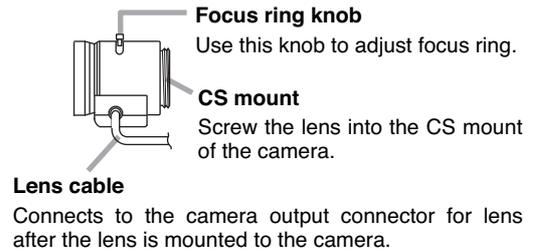
## 2. GENERAL DESCRIPTION

Each DC controlled auto iris lens is designed to correct for aberration over the visible and infrared regions. This feature allows the lens to maintain images in focus even in the infrared region, being suited for the Day/Night camera that ensures around-the-clock surveillance.

## 3. HANDLING PRECAUTIONS

- Because the lens features a CS mount with its flange back (the distance between the mount surface and the focal point) of 12.5 mm long, make sure that the camera you use has the same flange back length.
- Use the lens under only DC control.
- Do not give a great shock nor vibration to the lens.
- Avoid using the lens (camera) in dusty area or being splashed by water.
- Do not touch directly or rub the lens surface firmly. When dust is on the lens, blow off with a blower or brush it off. When soiled with oil or dirt, gently wipe down the lens spirally and outwardly from the center with a lens cleaning paper dampened slightly with a liquid cleaner sold in the market.
- Unnecessarily rotating the iris control may make the video signal level too high or too low, causing the lens to malfunction.

## 4. NOMENCLATURE AND FUNCTIONS



## 5. MOUNTING TO CAMERA

- Step 1.** Screw the lens into the CS mount of the camera.
- Step 2.** After a few rotation, the lens is put in the slippery condition, but keep on turning the lens clockwise till it comes to a stop.
- Step 3.** At this point, as the lens can be rotated 330° counterclockwise, adjust the lens cable bushing to the left position of the camera as shown above.

## 6. FOCUS ADJUSTMENT

Loosen the focus ring knob, then focus the camera on the object by turning the focus ring. The object that was brought into focus in bright locations could be out of focus in dark conditions. It is recommended to focus the camera on the object in dark conditions or using a commercially available ND filter. For the camera equipped with the adjustment switch, set it to "ON" position before focusing.

## 7. SPECIFICATIONS

Model Number	CT-0812GB	CT-0412GB	CT-0312GB
Focal Length	8 mm	4 mm	2.8 mm
Maximum Aperture Ratio	1 : 1.2		
Image size	4.8 (H) x 3.6 (V) mm		
Angle of View	Diagonal: 43.6° Horizontal: 34.5° Vertical: 25.7°	Diagonal: 80.8° Horizontal: 65.6° Vertical: 49.7°	Diagonal: 114.6° Horizontal: 93.2° Vertical: 70.7°
Aperture Range	F 1.2 – F 360		
Object Distance	0.2 m (7.87")		
Back Focus Length	9.89 mm	8.57 mm	8.58 mm
Flange Back Length	12.5 mm		
Lens Mount	CS mount		
Operating Temperature	- 20 °C to +50 °C (- 4 °F to +140 °F)		
Finish	Black, matte		
Dimensions	34 (W) x 41.5 (H) x 34.7 (D) mm (1.34" x 1.63" x 1.37")		
Weight	43 g (0.09 lb)	40 g (0.09 lb)	44 g (0.1 lb)

### Note

The design and specifications are subject to change without notice for improvement.

URL: <http://www.toa.jp/>