

TAMRON 10x ZOOM LENS OWNER'S MANUAL

Pyramid Imaging 

12ZA10x8CT, 12ZG10x8CT, 13ZA10x6CT, 13ZG10x6CT

Thank you for purchasing our CCTV lens.

The series of 10x zoom lenses are designed to provide high performance, high resolution and contrast with minimum distortion and corner to corner clearest, most saturated picture. These lenses enhance the capabilities of the latest models of security/surveillance cameras.

In order to understand the lens specifications and performances, please read this manual thoroughly. Please handle the lens with care.

MOUNT-TYPE

C or CS mount is equipped with these 10x zoom lens. Before you use the lens, please make sure that the mount type matches that on your camera.

C-MOUNT	CS-MOUNT
12ZA10x8CT, 12ZG10x8CT	13ZA10x6CT, 13ZG10x6CT

INSTALLATION ON CAMERA

The lens can be installed by screwing it clockwise into C-mount (1/2", 8-80mm) or CS-mount (1/3", 6-60mm) on the CCTV camera. Once the lens is screwed in completely to its mechanical stop position, you will then be able to rotate lens chassis back to suit the set-up position of the camera.

WIRING DIAGRAM

Please read the user's manual for the devices such as the camera and controller before wiring. Then please follow the chart below to insure the right connection.

Wiring of diagram for iris control (Short Cable)

Pin No.	Color	12ZG10x8CT / 13ZG10x6CT	12ZA10x8CT / 13ZA10x6CT
1	Red	Drive+	Power Supply DC8-13V
2	Black	Drive-	GND
3	White	Control+	VS or V Signal
4	Yellow	Control-	GND

※Operating Voltage: 6V/12V

※Polarity: Iris opens by adding positive voltage to Drive+.

※Connecting Red (Power Supply) and Black (GND) cables in the other way to the camera by mistake may cause the failure of the lens internal circuit.

Wiring diagram for focus/zoom (Long Cable)

Pin No.	Color	12ZA10x8CT, 12ZG10x8CT, 13ZA10x6CT, 13ZG10x6CT
1	Red	Focus+ To Far
2	White	Focus-
3	Black	Zoom+ To Tele
4	Yellow	Zoom-

DRIVE & OPERATING VOLTAGE

Depending on the controller system you own, the drive voltage will differ from 6V/12V. To select the drive voltage open the lid on the side of body and find the switch. Please carefully read your instruction for the controller before use.

※Drive & Operating voltage is set at 12V. out of factory. except for below areas. (North America, Canada, Japan, Korea, Taiwan)

IRIS

1. 12ZG10x8CT / 13ZG10x6CT if your camera has a selection switch between Video and DC, please set it to DC.
2. 12ZA10x8CT / 13ZA10x6CT if your camera has a selection switch between Video and DC, please set it to Video.

(LEVEL ADJUSTMENT) : Please find the controls inside the lid.

MONITOR SCREEN	LEVEL ADJUSTMENT
To Make Brighter	Rotate counter-clockwise
To Make Dimmer	Rotate clockwise

*If any hunting is observed on the screen, rotate ALC volume clockwise.

The video signal is continuously adjustable from Low (left) to High (right).

If the brightness of the monitor screen does not appear natural, please adjust the level as instructed below.

Automatic Light Compensation (ALC) and level adjustment (LEVEL) can be accomplished by rotating the respective screws a couple of times until the optimal image is obtained.

(ALC ADJUSTMENT) : Please find the controls inside the lid.

LIGHT MEASUREMENT	ALC ADJUSTMENT
Setting exposure to "Peak" light	Rotate clockwise
Setting exposure to "Average" light	Rotate counter-clockwise



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SPECIFICATION

MODEL	12ZG10X8CT	12ZA10X8CT	13ZG10X6CT	13ZA10X6CT			
Imager Format	1/2"	←	1/3"	←			
Focal Length	8-80mm	←	6-60mm	←			
Aperture Range	F/1.8-360	←	F/1.4-360	←			
Angle of view	Tele	←	Tele	←			
	Wide		Wide				
	Horizontal		4.6°		44.1°	4.5°	43.4°
	Vertical		3.5°		33.2°	3.4°	32.7°
Diagonal	5.7°	54.8°	5.6°	53.9°			
Lens Construction	12/15	←	12/17	←			
Clear Aperture of Front Lens	ø37mm	←	ø37mm	←			
Clear Aperture of Rear Lens	ø12.6mm	←	ø13.1mm	←			
Back Focus (in Air)	14.011mm (in air)	←	14.101mm (in air)	←			
Exit Pupil Position	-365.417mm	←	+44.134mm	←			
Filter Size	M52 P=0.75	←	M52 P=0.75	←			
Mount-Type	C-Mount	←	CS-Mount	←			
Dimensions (L) x (W) x (H) mm	108 x 70 x 70	←	112 x 70 x 70	←			
Weight	380g	←	380g	←			
Focus Control	Potential-meter	NONE	NONE	NONE			
	Operating Method	Motorized	←	Motorized	←		
	M.O.D.	1.3m (4.3°)	←	1.3m (4.3°)	←		
	Operating Voltage	DC6V/12V	←	DC6V/12V	←		
Zoom Control	Potential-meter	NONE	NONE	NONE			
	Operating Method	Motorized	←	Motorized	←		
	Operating Voltage	DC6V/12V	←	DC6V/12V	←		
Aperture Control	Operating Method	Auto-iris (DC Control)	Auto-iris w/Amp.	Auto-iris (DC Control)	Auto-iris w/Amp.		
	Operating Voltage	—	DC8.5-16V	—	DC8.5-16V		

Specifications are subject to change without notice

TO INSURE THE LONG TERM USE

* Please remove dust on the lens by using a blower or soft brush. Avoid touching the lens surface.

* In order to remove finger prints or oil stains on the lens surface, use lens cleaning paper or clean cotton cloth with a little cleaning liquid. Then, wipe off the stains lightly starting from the center of the lens surface. Please wipe the lens body with a silicon cloth. Avoid using any organic solvents such as thinner or benzene.