Infinova®

V2.0 1107

# INFINOVA 10X ZOOM LENS MANUAL

**V1162-6X10, V1162-8X10**

Thank you very much for purchasing this 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 lenses. Before you use the lens, please make sure that the mount type matches that on your camera.

| C-MOUNT | CS-MOUNT |
|---|---|
| V1162-8X10 | V1162-6X10 |

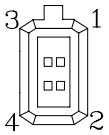
## INSTALLATION ON CAMERA

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. | V1162-8X10, V1162-6X10 |
|---|---|
| 1 | DAMP- |
| 2 | DAMP + |
| 3 | DRIVE + |
| 4 | DRIVE - |

*Operating Voltage: 6V/12V

*Polarity: Iris opens by adding positive voltage to Dive +.

*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)

| Color | V1162-8X10, V1162-6X10 |
|---|---|
| Red | Focus+ To Far |
| White | Focus- |
| Black | Zoom+ To Tele |
| 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

V1162-8X10/V1162-6X10 if your camera has a selection switch between video and DC, please set it to DC.

(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 |

## SPECIFICATION

| MODEL | | V1162-8X10 | | V1162-6X10 | |
|---|---|---|---|---|---|
| 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 | Wide | Tele | 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 | | Φ37mm | | Φ37mm | |
| Clear Aperture of Rear Lens | | Φ12.6mm | | Φ13.1mm | |
| 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 | | 108x70x70 | | 112x70x70 | |
| Weight | | 380g | | 380g | |
| Focus Control | Potentio-meter | NONE | | NONE | |
| | Operating Method | Motorized | | Motorized | |
| | M.O.D. | 1.3m(4.3ft) | | 1.3m(4.3ft) | |
| | Operating Voltage | DC6V/12V | | DC6V/12V | |
| Zoom Control | Potentio-meter | NONE | | NONE | |
| | Operating Method | Motorized | | Motorized | |
| | Operating Voltage | DC6V/12V | | DC6V/12V | |
| Aperture Control | Operating Method | Auto-iris (DC Control) | | Auto-iris (DC control) | |
| | Operating Voltage | --- | | --- | |

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.