

Automatic Iris Zoom Lens
WV-LZ83/6

Operating Instructions

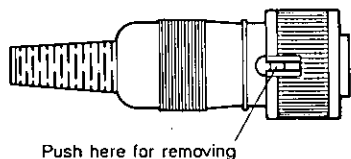


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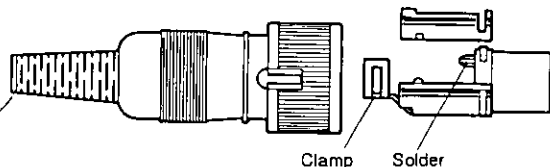
Before attempting to connect or operate this product,
please read these instructions completely.

How to make the 4 pin zoom and focus cable

- (1) Remove connector terminal from Hirschman connector (supplied) by pushing locking pin.



- (2) Solder the 3 wires for zoom and focus according to the following diagram.



<View from solder side>

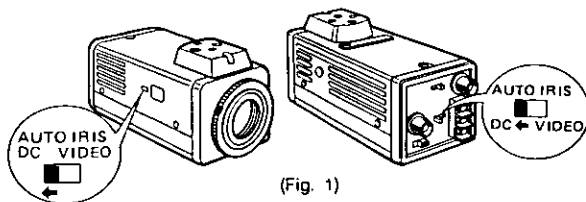
1. Common
2. Not used
3. Focus
4. Zoom

- (3) Zoom and focus cable information

Copper Wire Gauge		Maximum Length
#20 0.52 mm ²	[ft]	195
	[m]	60
#18 0.83 mm ²	[ft]	325
	[m]	100
#16 1.31 mm ²	[ft]	475
	[m]	145
#14 2.08 mm ²	[ft]	800
	[m]	245

How to install the automatic iris zoom lens

- (1) Make sure the Lens Selection Switch on the camera is set at DC position. (Fig. 1)

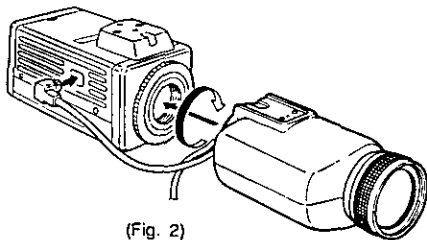


CAUTION:

Always set the flange-back adjusting ring to fully clockwise (C-mount side) by loosening screws on the ring before mounting the lens. The inner glass and CCD image sensor might be damaged by the lens otherwise.

(2) a) **Installation for Color Camera**

Mount the automatic iris zoom lens onto the lens mount of camera by rotating it gently clockwise until it stops. Then turn the lens furthermore with a little bit stronger torque to the desired position. (Fig. 2)



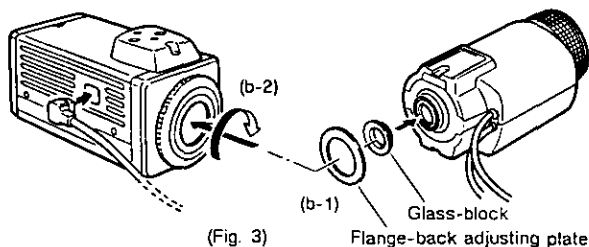
b) **Installation for Black/White Camera**

Precaution:

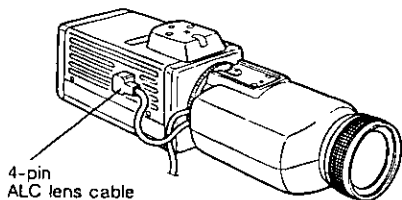
When this lens is used with a B/W camera, in order to have an optimum definition, the glass-block and flange-back adjusting plate should be attached with.

(b-1) Insert a glass-block by rotating clockwise onto the lens and put a flange-back adjusting plate on the lens.

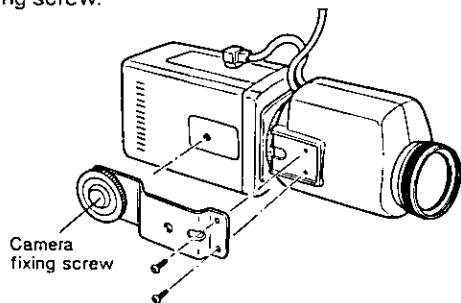
(b-2) Then mount the lens onto the lens mount of camera by rotating them gently clockwise until they stop. Then turn the lens furthermore with a little bit stronger torque to the desired position. (Fig. 3)



- (3) Set the lens to flat position by turning lens counterclockwise.
- (4) Connect the 4 pin ALC lens cable to the camera's connector on the side of camera.

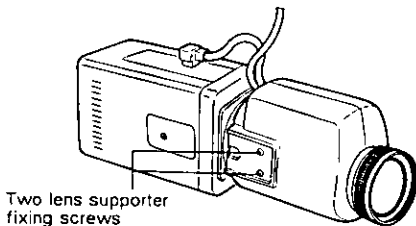


- (6) Mount the lens supporter to the lens with two fixing screws.
- (7) Mount the lens supporter to the camera with camera fixing screw.



Steps (5), (6) and (7) are applicable for WV-CL110 and WV-BL90A cameras.

- (5) Remove two lens supporter fixing screws on the lens. The lens supporter can be mounted on the camera either from top side or bottom side.



- (8) Connect the 4 pin zoom and focus cable to the remote control unit.

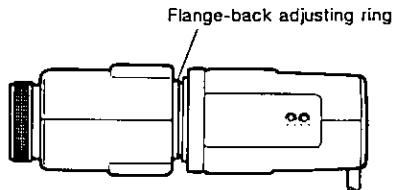
Flange-back Adjustment

When an automatic iris zoom lens WV-LZ83/6 is installed on the camera, the camera will focus from 1.2m to infinity (∞). For a zoom lens, the flange-back can be adjusted with following procedure.

- (1) Loosen the flange-back adjusting ring fixing screws.
- (2) Set zoom lens at tele position.
- (3) Adjust the focus ring on the lens for best focus.
- (4) Set zoom lens at wide position.
- (5) Adjust the flange-back adjusting ring for best focus.
- (6) Zoom in again and adjust the focus ring on the lens for best focus.
- (7) Zoom out again and adjust the flange-back adjusting ring for best focus.
- (8) Repeat the process (2) - (7) until the focus tracks over the zoom range of the lens.
- (9) Tighten the flange-back adjusting ring fixing screws.

CAUTION:

Do not turn this ring too much counter-clockwise as this might damage the inner glass and CCD image sensor.



SPECIFICATIONS

Focal length:	8.5 - 51 mm
Maximum Aperture:	F = 1 : 0.8 (Wide) - 1 : 1.0 (Tele)
Image Size:	ϕ 8 mm (6.4 (H) \times 4.8 (V) mm)
Iris Range:	F0.8 - F22, Close
Mount:	Special C-mount (CS-mount, 1"-32UN)
Filter Size:	ϕ 67 mm, P = 0.75 mm
Angular Field of View:	
	H 7.2° (Tele) 41.6° (Wide)
	V 5.4° (Tele) 31.3° (Wide)
Minimum Object Distance:	1.2m
Weight:	1.63 lbs. (740g)
Dimensions:	3-1/2" (W) \times 3" (H) \times 4-5/8" (D) 90 (W) \times 77 (H) \times 119 (D) mm
Focus Control:	Far -7 - -12V DC Max. 40 mA, approx. 4 sec. (at -8V) Near +7 - +12V DC Max. 40 mA, approx. 4 sec. (at +8V)
Zoom Control:	Wide -6V - -12V DC Max. 40 mA, approx. 4 sec. (at -8V) Tele +6V - +12V DC Max. 40 mA, approx. 4 sec. (at +8V)

Weights and dimensions shown are approximate.
Specifications are subject to change without notice.

STANDARD ACCESSORIES

4 pin connector	1 pc.
Glass-block (YF626772A)	1 pc.
Flange-back Adjusting Plate (YF625319)	1 pc.
Lens Supporter	1 pc.

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