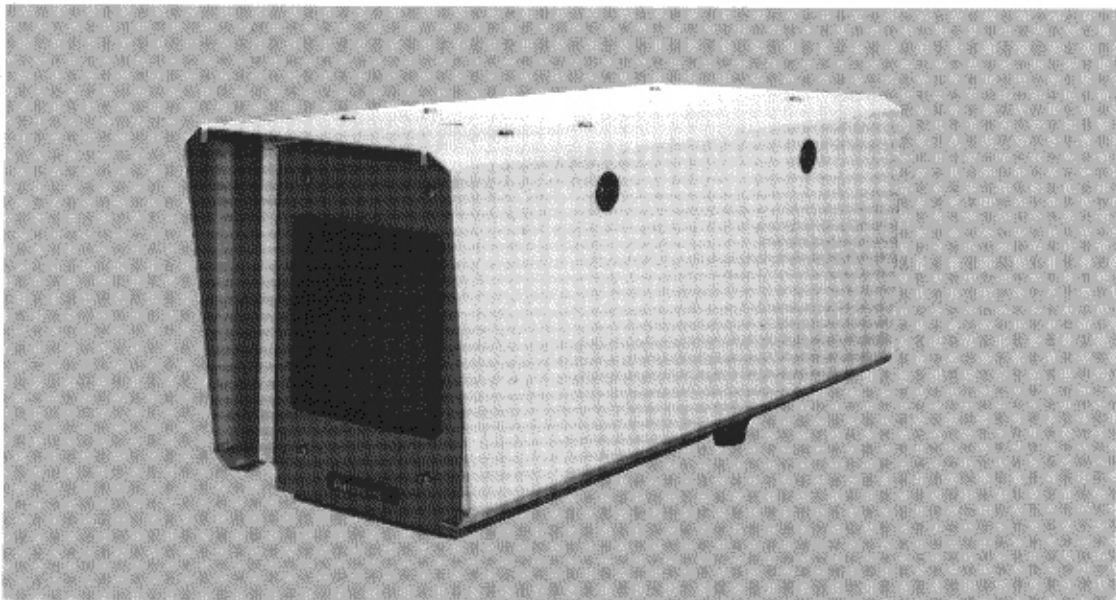


Operating Instructions

Outdoor Camera Housing
WV-7150D



Panasonic[®]

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

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INTRODUCTION

The WV-7150D is an outdoor camera housing equipped with heater, fan and sunshield as standard, for a 24V AC camera with a fixed-focal-length lens.

This can be mounted from the bottom on the optional Bracket Model WV-7060 and Pan/Tilt Head Model WV-7260D.

PRECAUTIONS

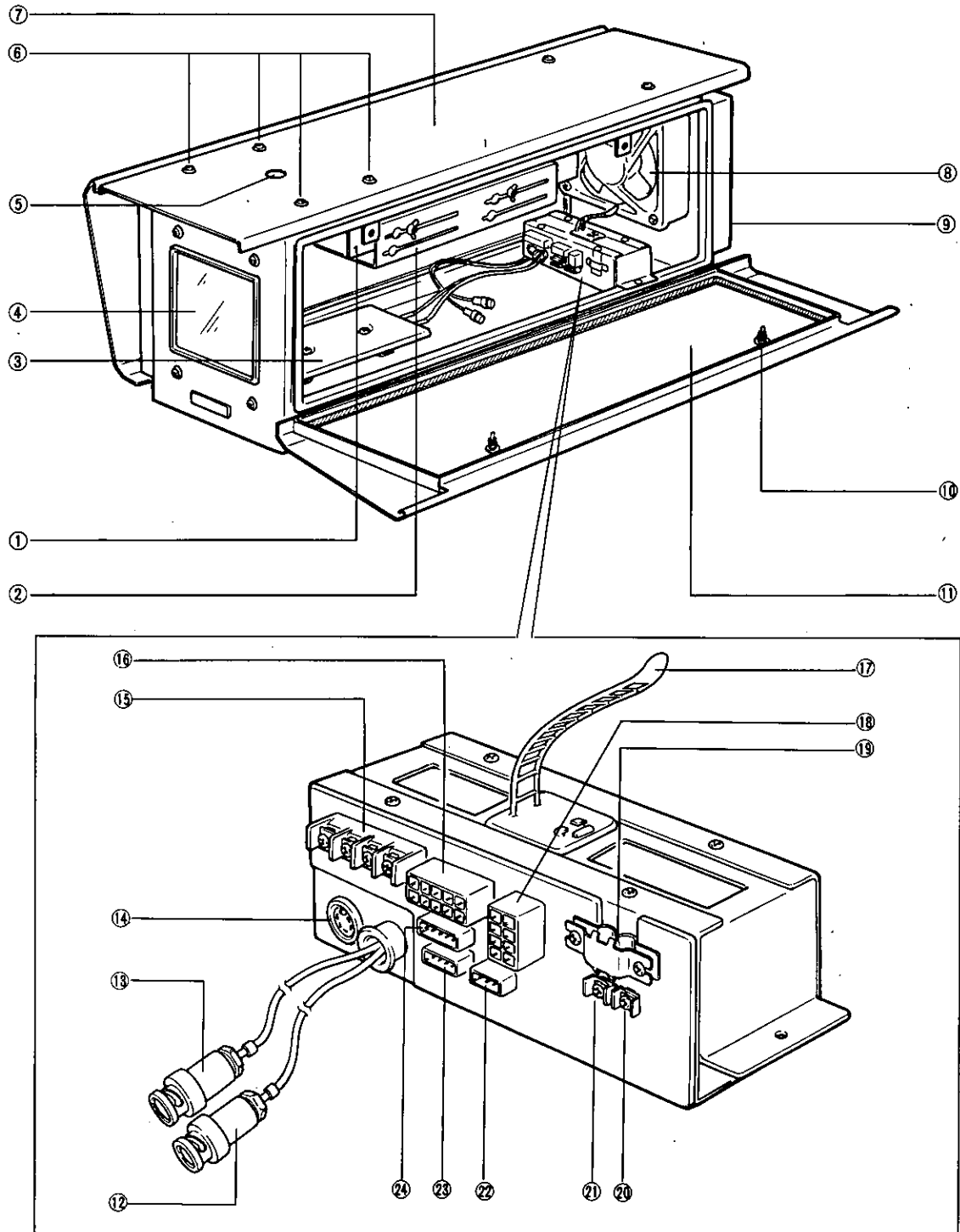
1. Use this unit within its rating.
Designed for outdoor use.
-22°F (-30°C) — [(Maximum ambient operating temperature of 24V AC camera)]
2. Select a flat location which can support the entire weight (camera, lens, bracket, etc).
3. The input power source must be 24V, +10%, -20% (19.2 - 26.4V) AC 50/60Hz.

PRECAUTIONS ON INSTALLATION

Camera: The maximum available capacity inside of the housing for the combination of the camera and lens is approx. 4"(H) x 5"(W) x 11"(D).
24V AC camera
See Table on page 3.

Mounting Apparatus: WV-7060 (Mounting Bracket) or WV-7260D (Pan/Tilt-Head)

MAJOR OPERATING CONTROLS AND THEIR FUNCTIONS



(1) Camera Mounting Plate
For mounting the 24V AC camera.
See page 6 - 7.

(2) Camera Mounting Angle
See page 6 - 7.

(3) Heater
Furnished with preset thermostat for closure.

(4) Front Glass

(5) Hole for wiring the Wiper Unit

(6) Screws for optional Wiper Unit WV-Z50

(7) Sunshield
Protects enclosure from direct solar, radiant heat.

(8) **Fan and Filter**
 Fan : Furnished with preset thermostat for closure at 104°F (+40°C). The fan supplies steady forced air through rear intake and filter, which flows over camera.

(9) **Intake**

(10) **Lock**
 Lock and open with key (provided)
 See page 5, 9.

(11) **Right-side cover**
 From this side, it is possible to adjust the beam and focus control of the camera.
 See page 5.

(12) **Sync. Input Connector(S) (BNC)**
 Connect to GENLOCK Input Connector of the camera.
 See Page 9.

(13) **Video Output Connector (V) (BNC)**
 Connect to VIDEO Output Connector of the camera.
 See Page 9.

(14) **Lens Connector 2**
Note:
 Each pin of this connector is internally connected to the corresponded pin of the Lens Connector - 1 (24).

(15) **Terminal Strip**

(16) **Housing Control Connector 1 (10 pins) — CN3**
 Connect the following to them
 1 : No Connection
 2 : No Connection
 3 : No Connection
 4 : No Connection
 5 : No Connection
 6 : Wiper
 7 : DC Common
 8 : Iris Control
 9 : Focus Control
 10 : Zoom Control

(17) **Cable Clamp**

(18) **Housing Control Connector 2 (8-pins) — CN4**
 Connect the following to them.
 1 : Camera Power
 2 : Fan and Heater
 3 : Fan and Heater
 4 : No Connection
 5 : AC Common
 6 : No Connection
 7 : No Connection
 8 : No Connection

(19) **Frame Ground**

(20) **External Sync. Input Terminal**
 Connect the coaxial cable to the sync. Output.

(21) **Video Output Terminal**
 Connect the coaxial cable to the monitor.

(22) **Camera Power Supply Connector (3-pins) — CN5**
 1 : Camera Power
 2 : AC Common
 3 : Ground

(23) **Sensor Connector (4-pins) — CN6**
 Feed the power supply to the sensor circuit board.
 1 : Fan and Heater
 2 : Fan and Heater
 3 : AC Common
 4 : AC Common

(24) **Lens Connector 1 (5-pins) — CN7**
 1 : DC Common
 2 : Iris Control
 3 : Focus Control
 4 : Zoom Control
 5 : No Connection

Note:
 Each pin of this connector is internally connected to the corresponded pin of the Lens Connector - 2 (14).

APPLICABLE CAMERAS AND LENSES

The recommended combination of the Panasonic camera and lens to WV-7150D is shown in the following table.

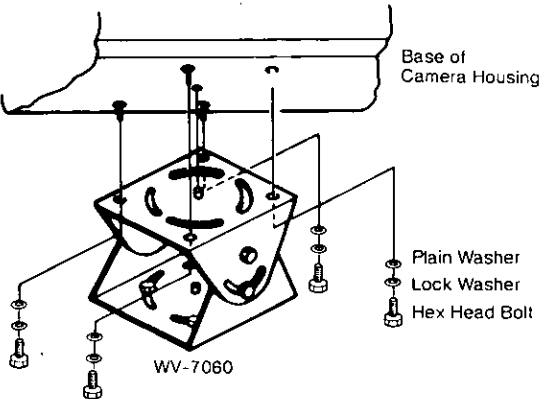
Camera	Housing		WV-7150D		
	Lens	for 1/2"		for 2/3"	
		Fixed	x 6	Fixed	x 6
WV-144		o	•	•	
WV-1414/1504				•	
WV-1454/1554				•	
WV-CD134				•	•
WV-CD24				o	•
WV-BD404				o	•
WV-BL204		o	o	o	•
WV-CL304		o	o	o	•
WV-BL604		o	o	o	•
WV-CL704		o	o	o	•

•: Recommended
 o: Possible

INSTALLATION OF CAMERA HOUSING

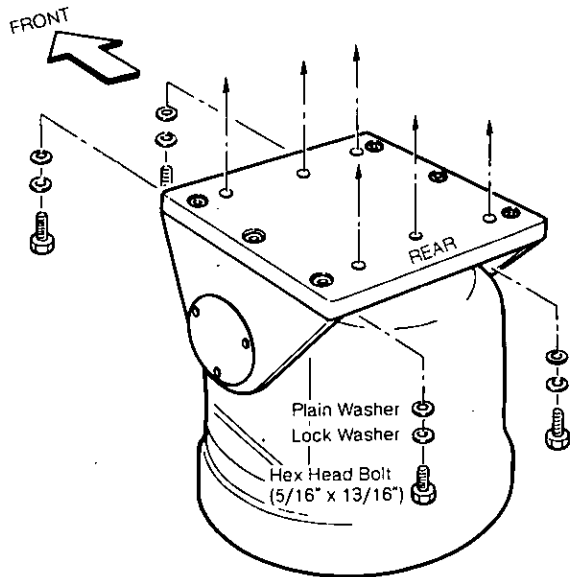
A. When mounting the Camera Housing to the Optional Bracket Model WV-7060.

- Four M8 x 20mm (5/16" x 13/16") hex head bolts lockwashers and plain washers are provided with the bracket.
- Use these to mount the camera housing as shown below.



B. When mounting the Camera Housing to the Optional Pan/Tilt Head WV-7260D.

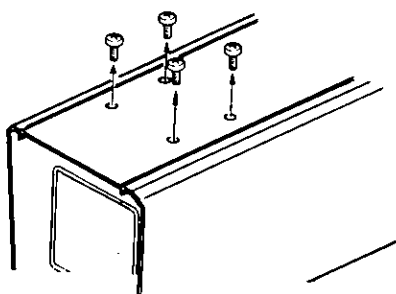
- Four M8 x 20 mm (5/16" x 13/16") hex head bolts, lock-washers and plain washers are provided with the pan/tilt head. Use these to mount the camera housing as shown below.



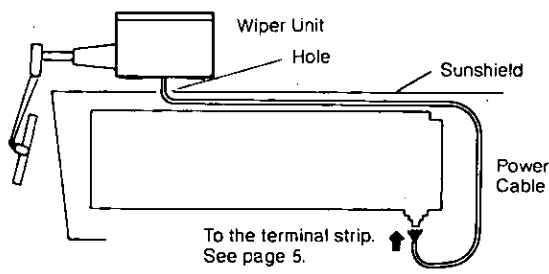
- Be sure to align the camera direction and front direction of pan/tilt head.

C. When the optional Wiper Unit Model WV-Z50 is used, mount it as follows.

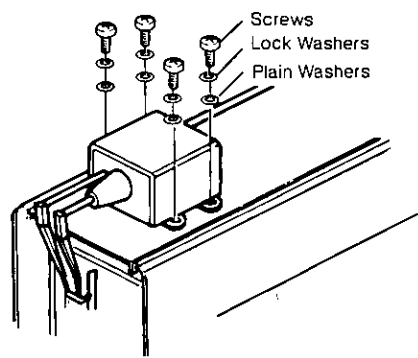
1. Remove the four sunshield screws and discard.



2. Pass the power cable through the hole for wiring wiper unit and pass it under the sunshield, to the back and through the wiring hole.



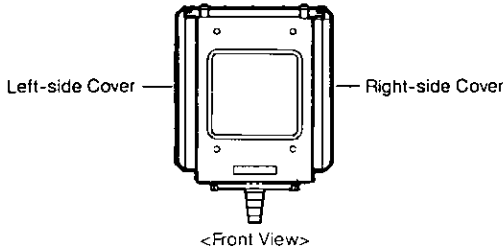
3. Attach the wiper with four screws, lock washers and plain washers (provided with the wiper unit).



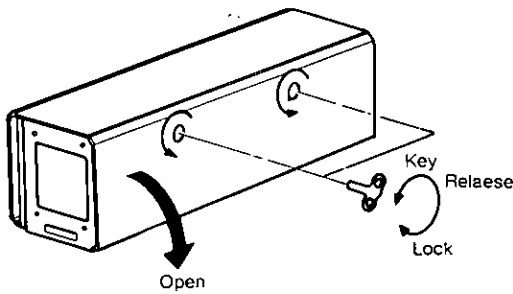
4. Complete the wiring. See PREPARATION OF WIRING on page 5.

PREPARATION OF WIRING

1. First complete the outside wiring and connections. Then, complete the inner wiring and connections.
2. It is possible to mount the camera from the right-side or left-side. However, the camera mounting plate is preset at the factory for mounting the camera from the right-side.

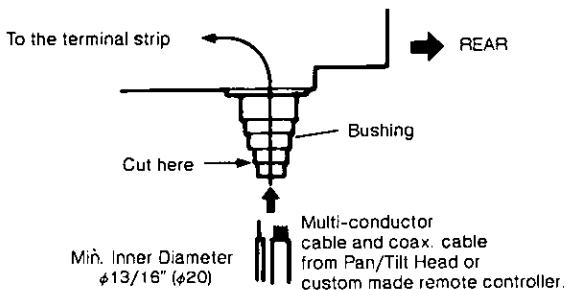


3. Open the right-side cover with the key (provided). If it is necessary to mount the camera from the left-side, open the left-side cover.



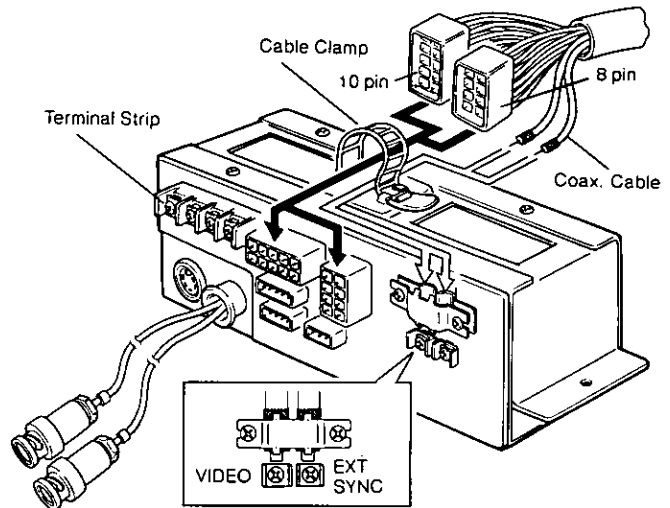
Turn the key counterclockwise until it stops.

4. Decide the wiring hole size for the rubber bushing, cut the bushing at the appropriate size. The minimum hole size is 13/16 (20mm).



Pass the cables through the wiring hole.

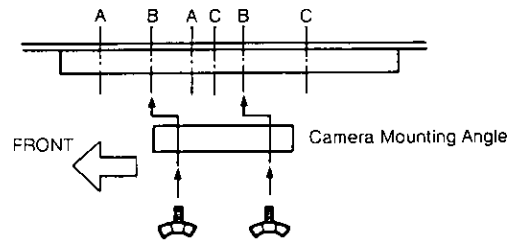
5. Clamp the cables as below. Pass the cables through the wiring hole.



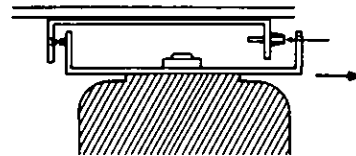
6. If the lens dimensions require it, remove the camera mounting angle and reposition by selecting the appropriate mounting holes. See chart below.

Lens Length	Holes
5-15/16" - 7-7/8" (150 - 200mm)	C
3-15/16" - 5-15/16" (100 - 150mm)	B
Shorter than 3-15/16" (Shorter than 100mm)	A

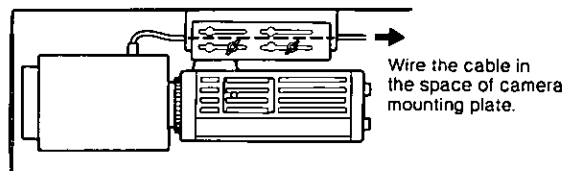
- Preset on A position at factory.



7. Attach the camera mounting plate with camera to the camera mounting angle.

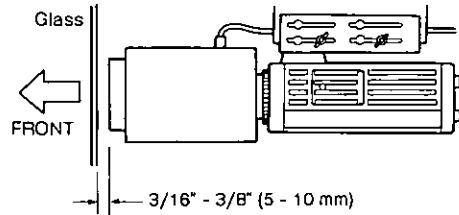


- Wire the zoom cable as shown below, to keep the wires away from the heater.



If the output connector of motorized zoom lens does not match the zoom control connector, change the connector to the provided one.

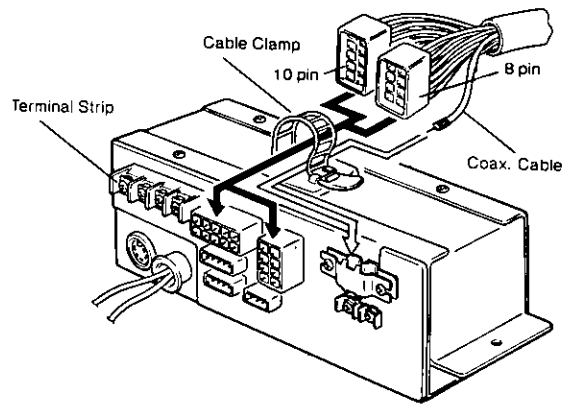
8. Adjust the camera position as shown right. Then, tighten the two butterfly screws.



CONNECTIONS OF CAMERA HOUSING

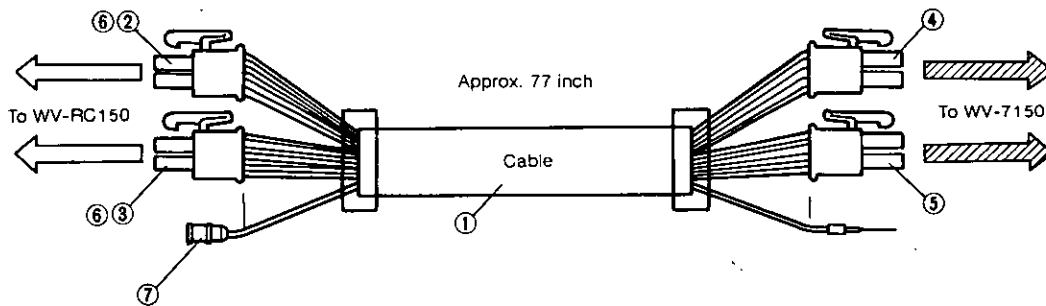
A. When the camera housing is mounted on the Bracket

Connect the multi-conductor cable from a controller which has a $24V_{-20}^{+10}\%$ (19.2 - 26.4V) AC power supply to the connector in the camera housing.



1. In case of using WV-CA50

The appearance and cord length is shown in the drawing.



- The parts details of WV-CA50 is shown in the following.

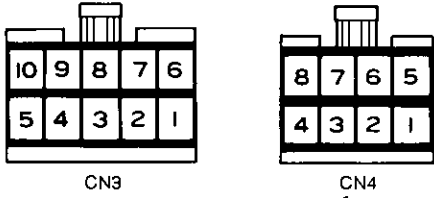
NO.	Parts name
1	18P wire cable
2	14P housing
3	12P housing
4	10P housing
5	8P housing
6	Contact
7	BNC connector

2. In case of using the accessory connectors (MX5557P08 and MX5557P10)

Select a multi-conductor cable which meets FR-1 rating with 9 or 12 wires cables for WV-7150D
 12 wires cable is used to extend the cable length.
 Connect the 9 or 12 wires cable to the following positions of the accessory connectors.

CN Pin No. WV-7150D	Usage of Terminal	Power Source
CN4-1	24V AC CAMERA	24V AC
CN4-2(3)	FAN HEATER	
CN3-6	WIPER	
CN4-5(6)(7)	AC COMMON	24V AC Common
CN3-7	DC COMMON	
CN3-8	IRIS CONTROL	±6V DC Common
CN3-9	FOCUS CONTROL	
CN3-10	ZOOM CONTROL	
CN4-8		±6V DC

- If 12 wires cable are available for WV-7150, connect the remained 3 wires to the () position.



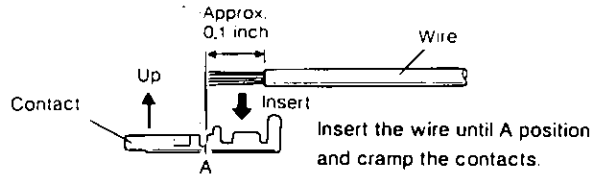
The accessory connectors view from wiring side.

The wire gauge can be determined by the chart below.

- The system should be operated by 24V AC and the power consumption should have less than 11W for the camera, 78W for the heater and 20W for the wiper.

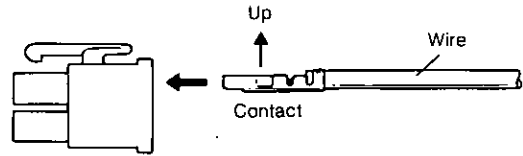
Model		WV-7150D	
		Conductors	
Copper wire gauge AWG No.		9	12
#24	ft	9	16
	m	3	5
#22	ft	13	32
	m	4	10
#20	ft	16	49
	m	5	15
#18	ft	32	82
	m	10	25

- Cable assembly
 Strip back the cable jacket approx. 0.1 inch and separate the individual conductors.



Prepare the individual conductor for soldering or crimping. If crimping, use MOLEX Brand tool part number 57027-5000 (for UL-style cable UL1015) or 570-26-5000 (for UL-style Cable UL1007).

After soldering or crimping the contacts, push them into the proper holes in the connector housing until they snap in place.



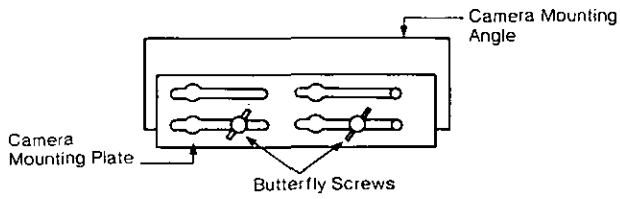
CAUTION:

Shrinking the cable-entry seal is a one-time procedure. DO NOT shrink the cable-entry seal until it has been ascertained that the unit is functioning.

- B. When the camera housing is mounted on the Pan/Tilt mechanism; refer to the operating instructions of it.

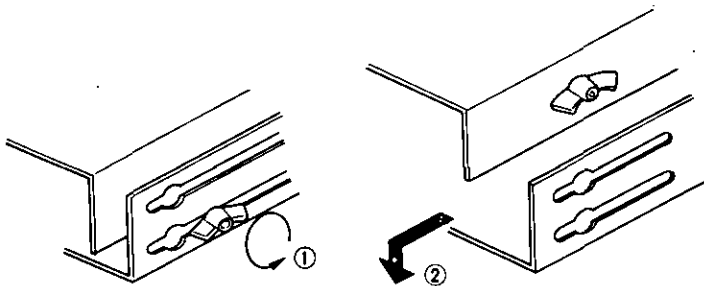
INSTALLATION OF CAMERA

1. Remove the camera mounting plate from the camera mounting angle.

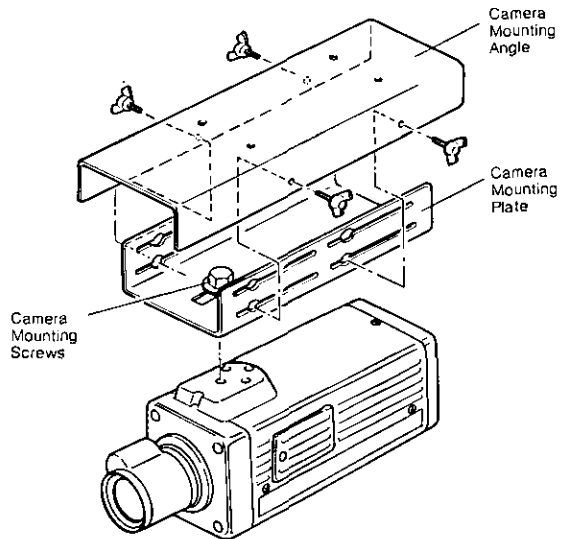


- (1) Loosen the two butterfly screws and set them along the slotted guide.
- (2) Slide the camera mounting plate and take off.

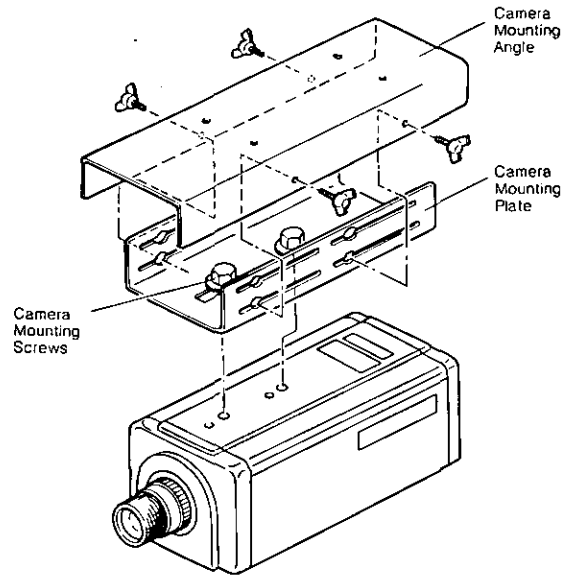
2. Mount the camera to the camera mounting plate with camera mounting screws (provided).



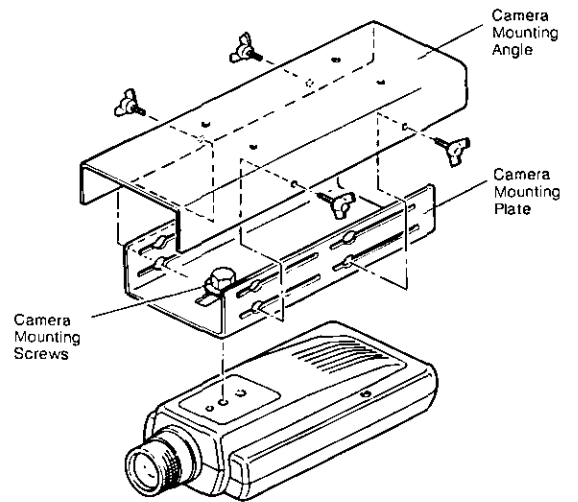
<For WV-CD134/CD24/BD404/BL204/CL304/BL604/CL704>



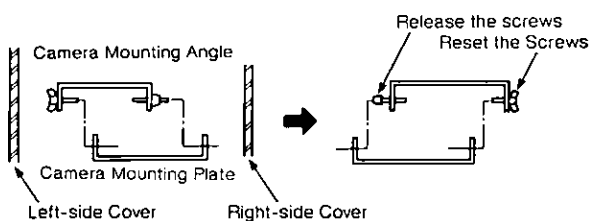
<For WV-1414/1504, 1454/1554>



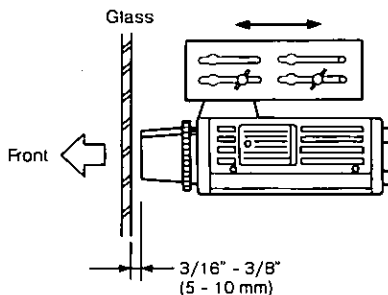
<For WV-144 Series>



3. If it is necessary to mount the camera from the left-side, change the butterfly screws on the camera mounting angle as shown below.



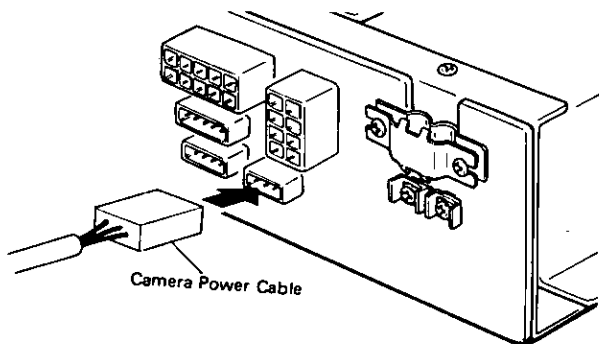
4. Adjust the camera position as shown below. Then, tighten the two butterfly screws.



CONNECTION OF CAMERA

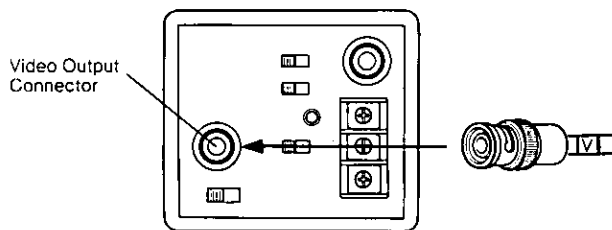
A. Camera Power Cable

1. Connect the camera power cable to the Camera Power Supply Connector (22).
2. Connect the camera power cable (provided) to the camera power connector.

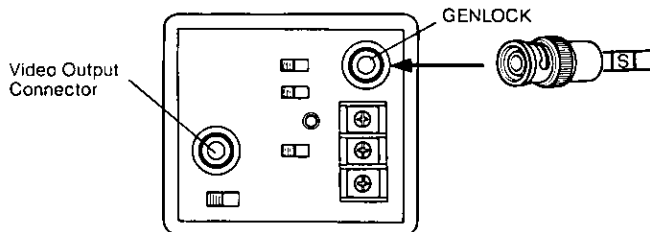


B. Video Output and External Sync. Input Cables

1. Connect the Video Output Cable (V) to the video output connector of the camera.

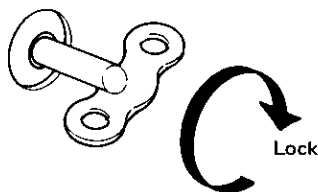


2. Connect the External Sync. Input Cable (S) to the External Sync. Input connector of the camera.



END OF WIRING

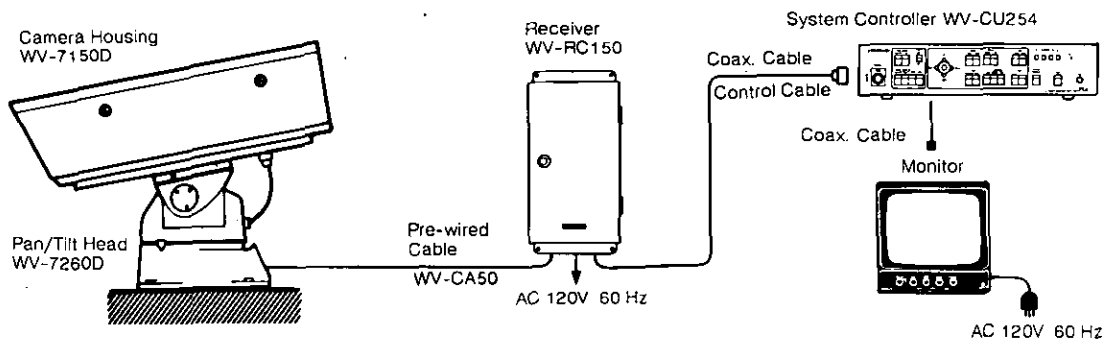
- Turn on the power switch of the camera.
- Rotate the key clockwise until it stops.



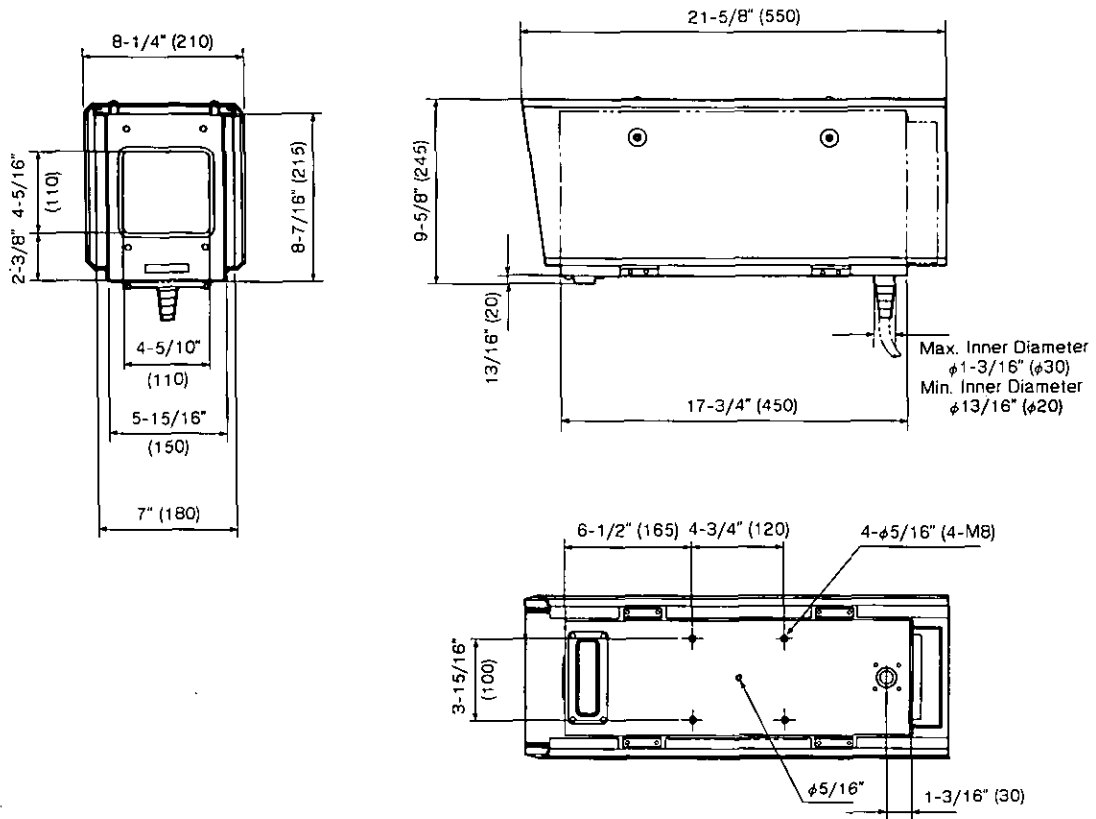
CAUTION:

When the camera LED reflects on the glass and its light comes in the screen, stick the Power Indicator Masking Label (accessory) on the LED.

TYPICAL SYSTEM CONNECTIONS



OUTLINE DRAWING



SPECIFICATIONS

Power source:	24V AC 50/60 Hz
Power Consumption:	Max. 113W (Excluding Panasonic 24V AC camera)
Functions:	Fan: 18W (ON at 104°F, +40°C) Heater: 78W (ON at approx. 23°F, -5°C)
Product housed:	24 V AC camera with fixed focal lens
Mounting:	From bottom
Mounting bracket:	WV-7060 (optional)
Pan/Tilt head:	WV-7260D (optional)
Ambient operating temperature:	-22°F(-30°C) — [Maximum ambient operating temperature of 24V AC camera]
Weight:	Approx. 18 lbs (8.4kg)
Dimensions:	8-1/4" (W) x 9-5/8" (H) x 21-5/8" (D) [210(W) x 245(H) x 550(D) mm]

STANDARD ACCESSORIES (Supplied)

Cover Locking Key [Part No. YWV7150EM03]	1 pc.	Lens Connector [Part No. YWMAS4100]	1 pc.
Camera Mounting Screw (U1/4-20UNC) (with insulation rubber)	2 pcs.	Power Indicator Masking Label	1 pc.
		Power Cable for 24V AC Camera	1 pc.
		Connector [MX5557P08]	1 pc.
		[MX5557P10]	1 pc.

Panasonic

Communications & Systems Company

Panasonic Communications & Systems Company
Division of Matsushita Electric Corporation of America

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Atlanta Region: 1854 Shackelford Ct. Suite 115, Norcross, GA 30093 (404) 925-6841

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