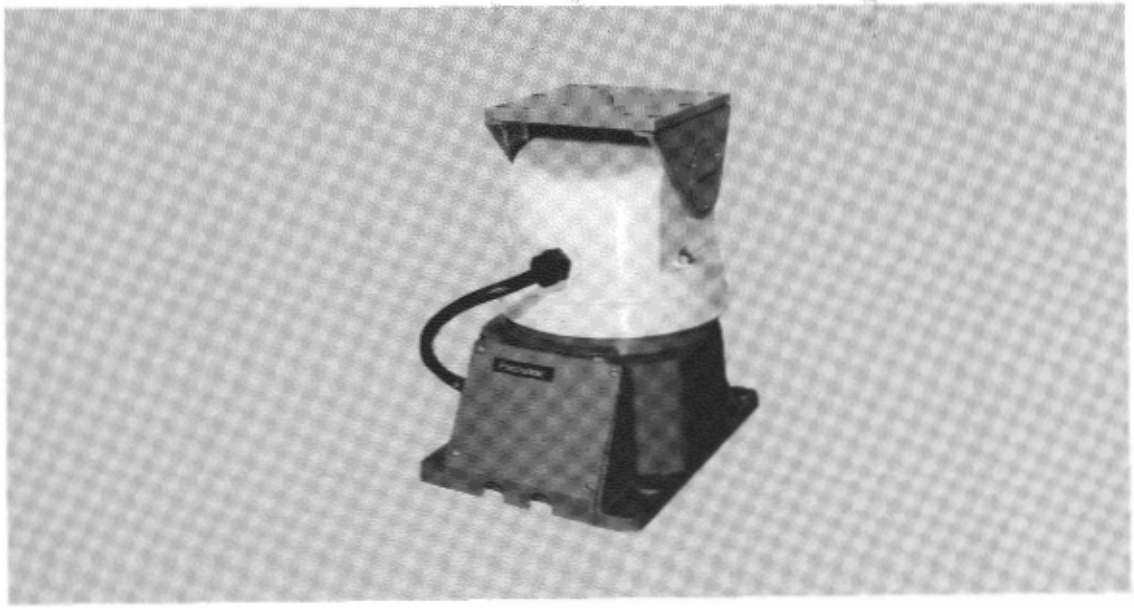
Operating Instructions

Outdoor Pan/Tilt

WV-7260D



Panasonic

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

CONTENTS

INTRODUCTION

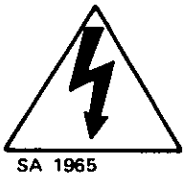
The WV-7260D heavy duty outdoor Pan/Tilt with System Controller WV-CU254 allows to operate the remote control of camera panning and tilting with Outdoor Camera Housing. Pan /Tilt Unit allows to mount directly on a flat surface.

The camera can be panned from an angle of 10° - 340° at a speed of 7.2° /second, and can be tilted from an angle of up 15°, down 60° at a speed of 3.6° /second.

PRECAUTIONS

• **Pan/Tilt Unit WV-7260D**

1. Do not attempt to disassemble this unit.
   There are no user serviceable parts inside. Refer servicing to qualified service personnel.
2. Use this unit within its rating.
   Designed for outdoor use.
   Ambient temperature must not range beyond −4°F - 122°F (−20°C - +50°C).
3. Do not mount this unit inverted outdoors.
   This unit has been assembled for upright mounting.
   When it is mounted in the inverted position, it is not protected from rain.
4. Select a flat location which can support the entire weight (pan/tilt unit, camera, lens, camera housing).
5. The input power source must be 24V$^{+10}_{-20}$% (19.2 - 26.4V) AC 60 Hz.
6. Mount a low voltage Camera (24V AC) with outdoor camera housing such as the Model WV-7135/7140/7160D/7150D.
   See page 5.
   Power is suppried from the outdoor receiver WV-RC150.
7. Every necessary procedures with regard to install this product should be made by qualified Service Personnel or System Intallers.


SA 1965

The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.


SA 1966

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

For U.S.A

Warning:
This equipment generates and uses radio frequency energy and if not installed and used properly, i.e., in strict accordance with the instruction manual, may cause harmful interference to radio communications. It has been tested and found to comply with the limits for a Class A computing device pursuant to Subpart J of Part 15 of FCC Rules, which are designed to provide reasonable protection against such interference when operated in a commercial environment.

For CANADA

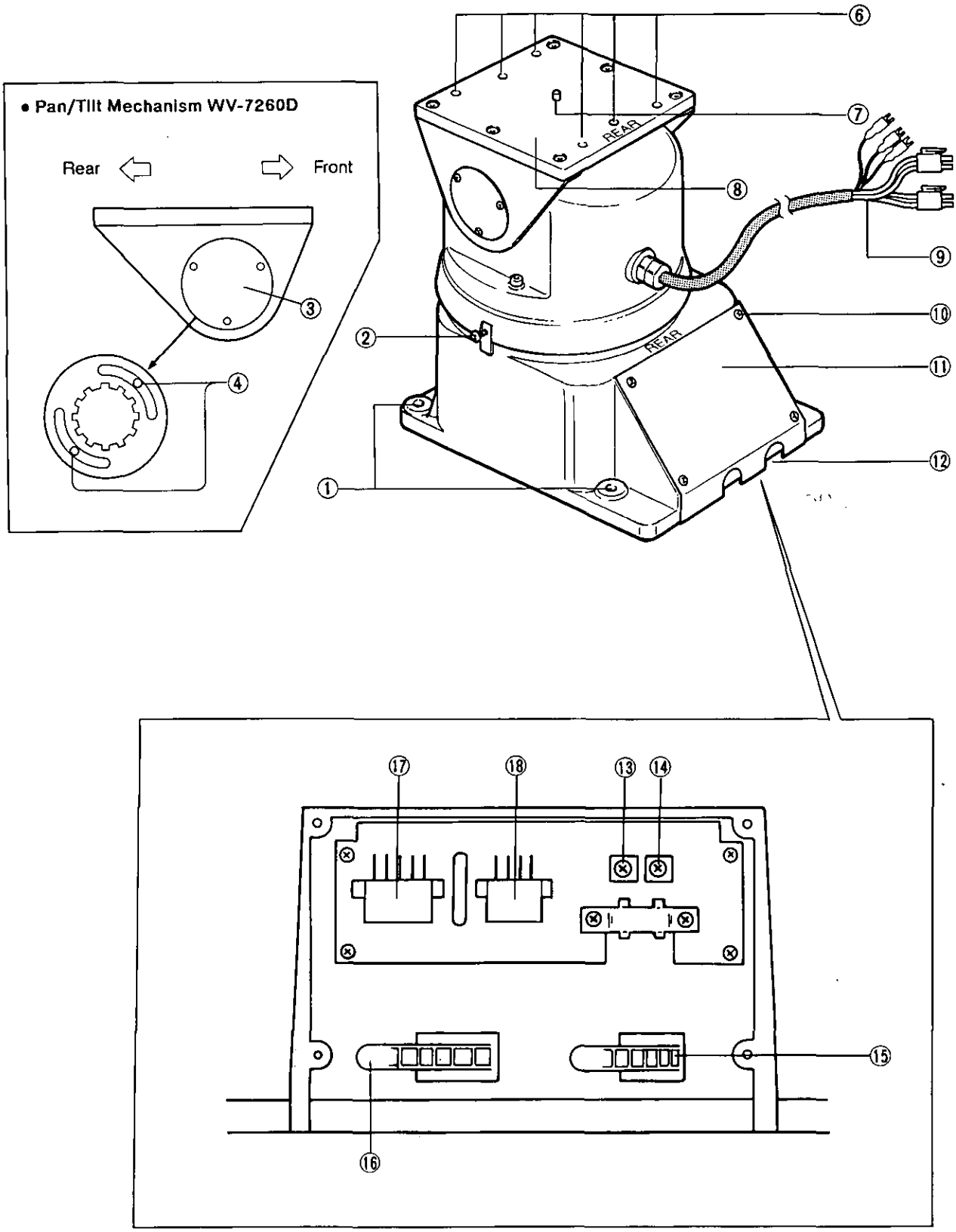
This digital apparatus does not exceed the Class A limits for radio noise emissions from digital apparatus set out in the Radio Interference Regulations of the Canadian Department of Communications.

The serial number of this product may be found on the bottom of the unit.
You should note the serial number of this unit in the space provided and retain this book as a permanent record of your purchase to aid identification in the event of theft.

Model No. _____

Serial No. _____

MAJOR OPERATING CONTROLS AND THEIR FUNCTIONS



(1) Mounting Holes
4-3/8" (4 - ϕ9)
See page 4.

(2) Pan Limit Stop
Adjustable panning angle
10° - 340°. See page 7.

(3) Tilt Limit Adjustment Cover

(4) Tilt Limit Stop
Adjustable tilting angle: Up ; 0° - 15°, Down ; 0° - 60°
See page 7.

(5) Rear Indication

(6) Camera Housing Mounting Holes
6-ϕ9

(7) Guide Pin

(8) Camera Housing Mounting Plate

(9) Control cable
This cable has two control connectors (8 and 10 pins) and is used to connect with the outdoor camera housing.

(10) Cover Locking Screws

(11) Cover

(12) Wire Hole
Hole for wiring.

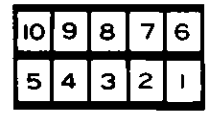
(13) Video terminal (VIDEO)
This terminal is connected with the video terminal of the outdoor receiver.

(14) Ext. Sync Terminal (EXT. SYNC)

(15) Coaxial Cable Clamp
This clamp is used to clamp the coaxial cable

(16) Cable Clamp
This clamp is used to clamp the optional cable WV-CA50 or the individual cable.

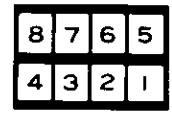
(17) Control Connector - 1 (10-pins)



CN3

1: PAN LEFT
2: PAN RIGHT
3: TILT UP
4: TILT DOWN
5: DEFROSTER
6: WIPER
7: LENS DC COMMON
8: LENS IRIS
9: LENS FOCUS
10: LENS ZOOM

(18) Control Connector - 2 (8-pins)



CN4

1: CAMERA AC 24V
2: FAN HEATER
3: FAN HEATER
4: No Connection
5: AC Common
6: AC Common
7: AC Common
8: CAMERA Ground

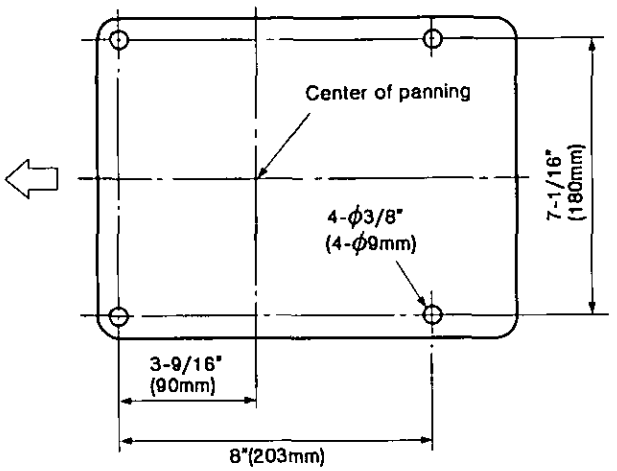
INSTALLATION

PRECAUTION :

The following installation should be made by qualified service personnel or system installers.

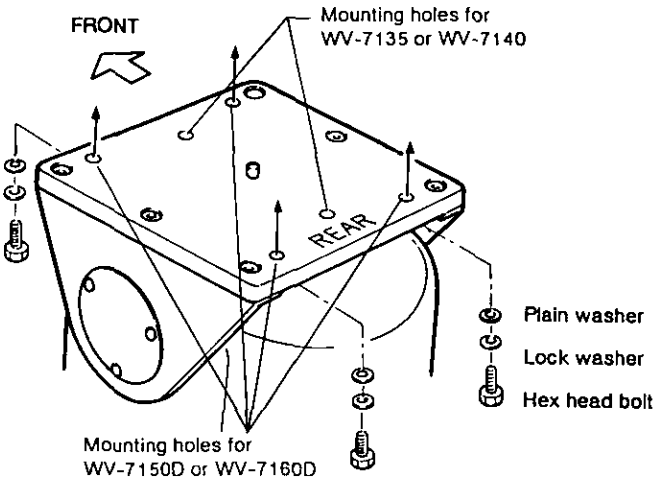
- Select a flat surface capable of supporting the combined weight of Pan/Tilt Unit, Camera Housing, Camera and Lens.

1. The Pan/Tilt Unit must be securely fastened with four hex head bolts (not provided) using four Mounting Holes (4-3/8", 4-ϕ9 mm).



2. When mounting the outdoor camera housing on the Mounting Plate.
   Four M8x20 mm (5/16" x 13/16")hex head bolts, plain washers and lockwashers are provided with the Pan/Tilt Unit.
   Use these to mount the camera housing as shown below.

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



CONNECTIONS OF THE OUTDOOR RECEIVER WV-RC150

PRECAUTION :

The following connections should be made by qualified service personnel or system installers.

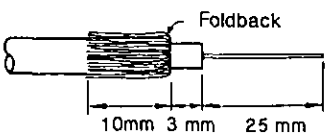
A. Video and Ext. Sync Terminal Board

1. Wiring precautions:

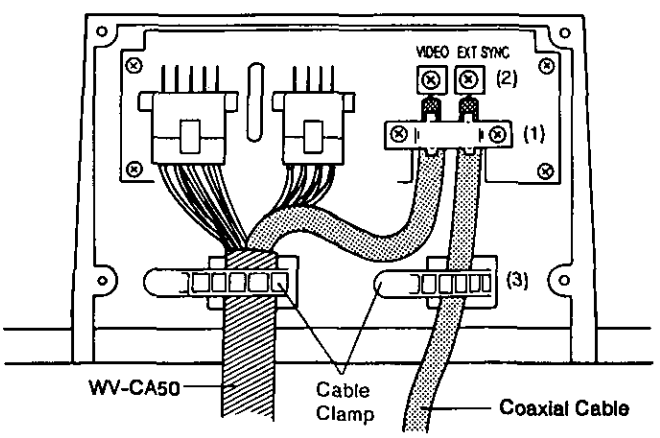
- Do not bend coaxial cable into a curve whose radius is smaller than 10 times diameter.
- Never staple the cable - not even with circular staples.
- Never crush or pinch the cable.
  All these will change the impedance of the cable and cause poor picture quality.

2. Use the following conditions Cable
   Impedance : 75Ω
   Diameter : ϕ8 mm or less
   Example : RG - 59/U (BELDEN9259)
3. Wiring

- Prepare coaxial cable as shown as below:



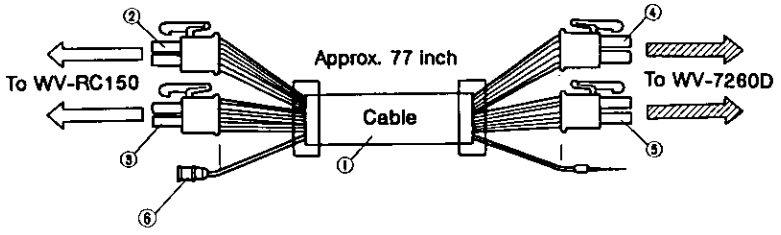
- Connect as follows.
  1. Hold the coaxial wire.
  2. Connect the inner conductor.
  3. Clamp the coaxial cable (Under the embossed side)



B. Control Connector 1 and 2

Connect the control connector 1 and 2 to the optional cable WV-CA50 or the accessory connectors.

1. **In case of using WV-CA50**
   The appearance and cord length is shown in the drawing.

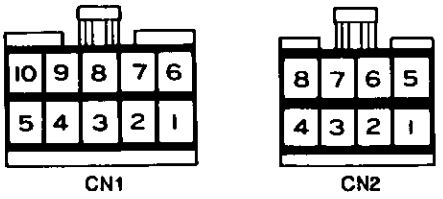


No.	Parts Name
1	18 wires cable
2	14P housing
3	12P housing
4	10P housing
5	8P housing
6	BNC connector

2. **In case of connecting the outdoor housing to the pan/tilt unit WV-7260D, refer to the following table.**

CN Pin No.	Usage of Terminal	WV-7135 WV-7140	WV-7150D	WV-7160D
CN1-1	PAN LEFT	o	o	o
CN1-2	PAN RIGHT	o	o	o
CN1-3	TILT UP	o	o	o
CN2-2(3)	FAN HEATER	o	o	o
CN1-4	TILT DOWN	o	o	o
CN1-5	DEFROSTER			o
CN1-6	WIPER		o	o
CN1-7	LENS DC Common	o	o	o
CN1-8	LENS IRIS	o	o	o
CN1-9	LENS FOCUS	o	o	o
CN1-10	LENS ZOOM	o	o	o
CN2-1	CAMERA 24V AC	o	o	o
CN2-5	AC Common	o	o	o
(6)	AC Common			
(7)	AC Common			
CN2-8	CAMERA Ground	o	o	o

- When extend the cable length, connect the remainded wires to the ( ) position.

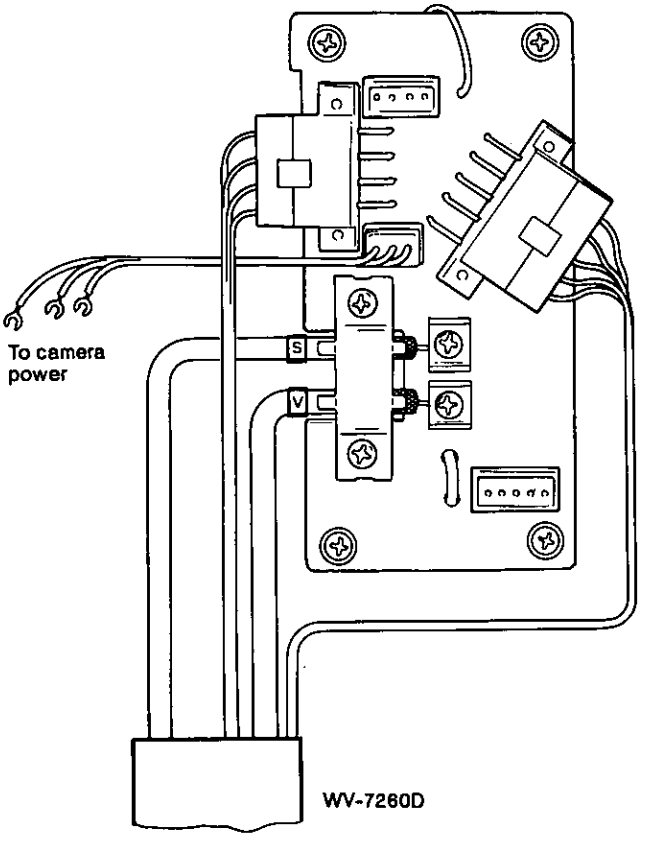


The accessory connectors view from wiring side.

The each wire gauge of the outdoor housings 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.

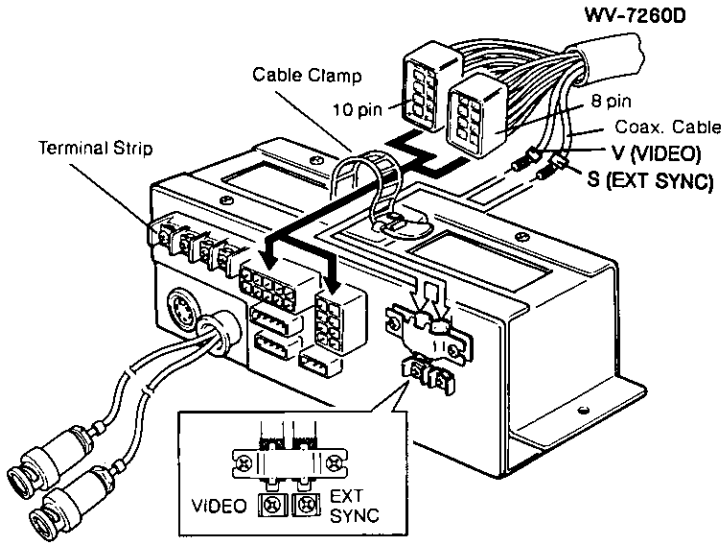
WV-7135 or WV-7140 + WV-7260D:



- The wire guage can be determined by the chart below.

Model			WV-7135/WV-7140	
AWG size UL 1007 UL 1015	Impedance (Ω/km)		Conductors	
			12	15
#24	77.9	ft	16	35
		m	5	10
#22	50.4	ft	25	60
		m	6	15
#20	32.3	ft	35	90
		m	10	25
#18	19.9	ft	60	150
		m	15	45

WV-7150D or WV-7160D + WV-7260D:



The wire gauge can be determined by the chart below.

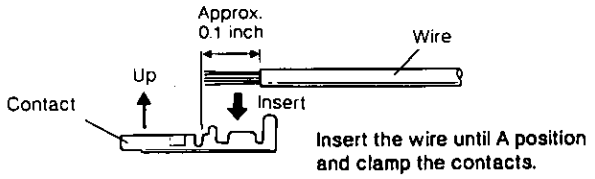
WV-7150D + WV-7260D:

Model			WV-7150D	
AWG size UL 1007 UL 1015	Impedance (Ω/km)		Conductors	
			13	16
#24	77.9	ft	9	25
		m	2	6
#22	50.4	ft	15	35
		m	4	10
#20	32.3	ft	23	60
		m	6	15
#18	19.9	ft	35	95
		m	10	25

WV-7160D + WV-7260D:

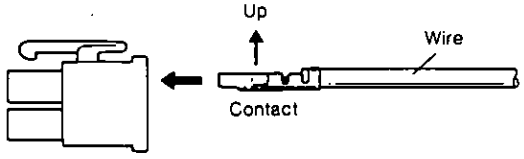
Model			WV-7160D	
AWG size UL 1007 UL 1015	Impedance (Ω/km)		Conductors	
			14	17
#24	77.9	ft	9	23
		m	2	6
#22	50.4	ft	14	35
		m	4	10
#20	32.3	ft	22	55
		m	6	15
#18	19.9	ft	35	90
		m	10	25

- Cable assembly :
- How to assemble the connector
  Strip back the cable jacket approx. 0.1 inch (3 mm) and separate the individual conductors.



Prepare the individual conductors for clamping. If clamping, use MOLEX brand tool part number 57027-5000 (for UL-Style cable UL1015) or 57026-5000 (for UL-Style cable UL1007).

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



CAUTIONS:

- 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.
- CONNECT THIS TO A 24V AC CLASS 2 POWER SUPPLY ONLY.

Caution:	To prevent fire or shock hazard, the UL listed wire VW-1, style 1007 should be used for the cable for 24V AC Input Terminals.

ADJUSTMENTS

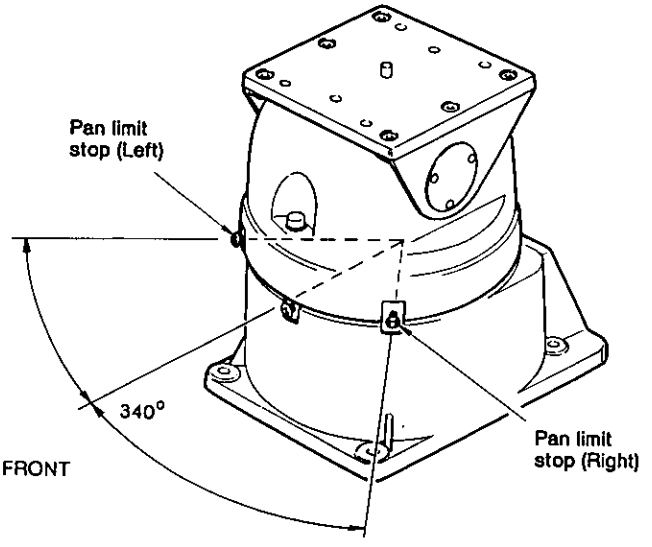
PRECAUTION :

The following adjustments should be made by qualified service personnel or system installers.

After the cable is assembled and unit connected, plug the Outdoor Receiver into a 120V AC source and proceed as follows.

A. Panning Angle

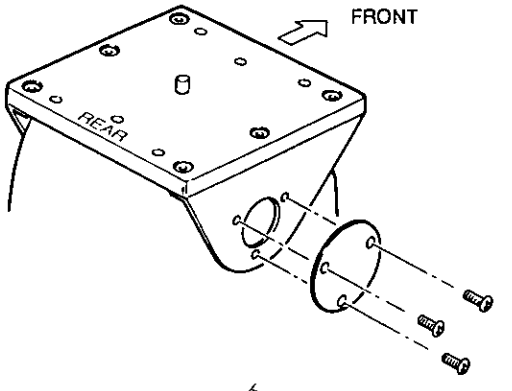
1. Loosen the Pan Limit Stops.

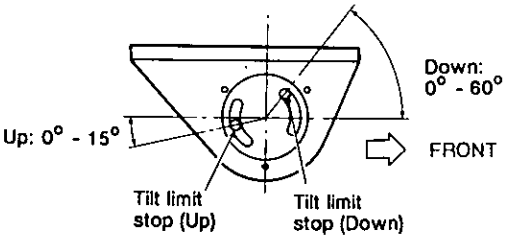


2. Turn on the ON/ OFF switch to energize unit, then rotate pan/tilt unit using joystick the pan/tilt control until desired right pan limit is reached.
3. Locate the right pan limit stop and move until it contacts limit switch actuator. Move stop additional slight amount to deflect actuator until a "click" is heard indicating opening of limit switch. Lock stop in place.
4. Rotate the pan/tilt head to the desired left limit position. Adjust left pan limit stop as before.
5. With both limit stops in place, pan to both stop positions and recheck for exact trim of limit stops. Tighten both stops securely.

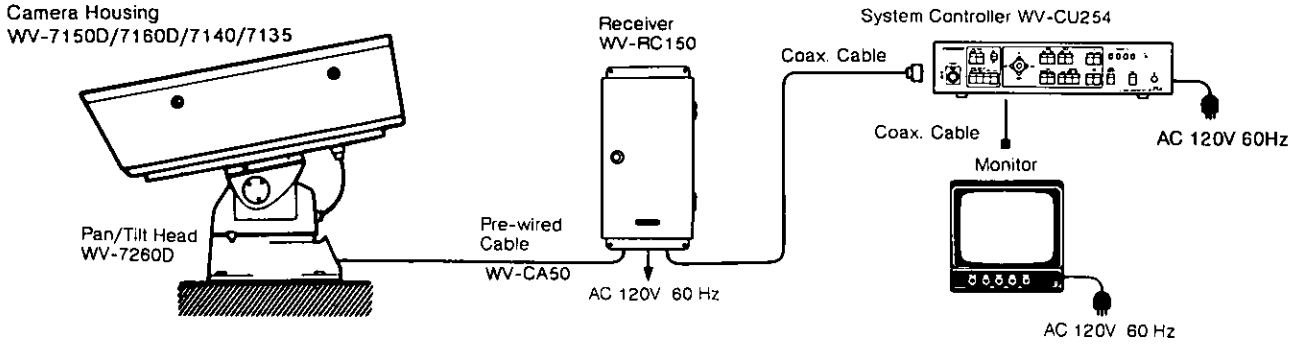
B. Tilt Limit Stop

1. Remove the Tilt Limit Adjustment Cover.
2. Loosen the two recessed Tilt Limit Stops and rotate the pan/tilt head using joystick the pan/tilt control unit desired up limit is reached.
3. Move the up limit stop toward bottom end of slot until a "clock" can be heard. Tighten screw.
4. Adjust the down limit stop the same way.
5. Lock limit stops securely in place after checking for trim.
6. Replace the cover.





TYPICAL SYSTEM CONNECTIONS



SPECIFICATIONS

Outdoor receiver :	WV-RC150
Mountable housing :	WV-7135, WV-7140, WV-7150D, WV-7160D
System control unit :	24V AC (Supplied from the outdoor receiver WV-RC150)
Power consumption :	Approx. 50W Max.
Panning :	Manual
Panning speed :	Approx. 7.2°/sec
Panning angle :	10° - 340° (adjustable)
Tilting :	Manual
Tilting speed :	Approx. 3.6°/sec
Tilting angle :	Up: 15° Down: 60° (adjustable)
Lood weight :	Less than 441 lbs. (20 kg)
Ambient operating temperature :	−4°F - 122°F (−20°C - +50°C)
Dimensions :	Approx. 8-3/16"(W) x 11-13/16"(H) x 10-7/8"(D) [208 (W) x 301 (H) x 276 (D) mm]
Weight :	Approx. 26-4/1 lbs. (12 kg)

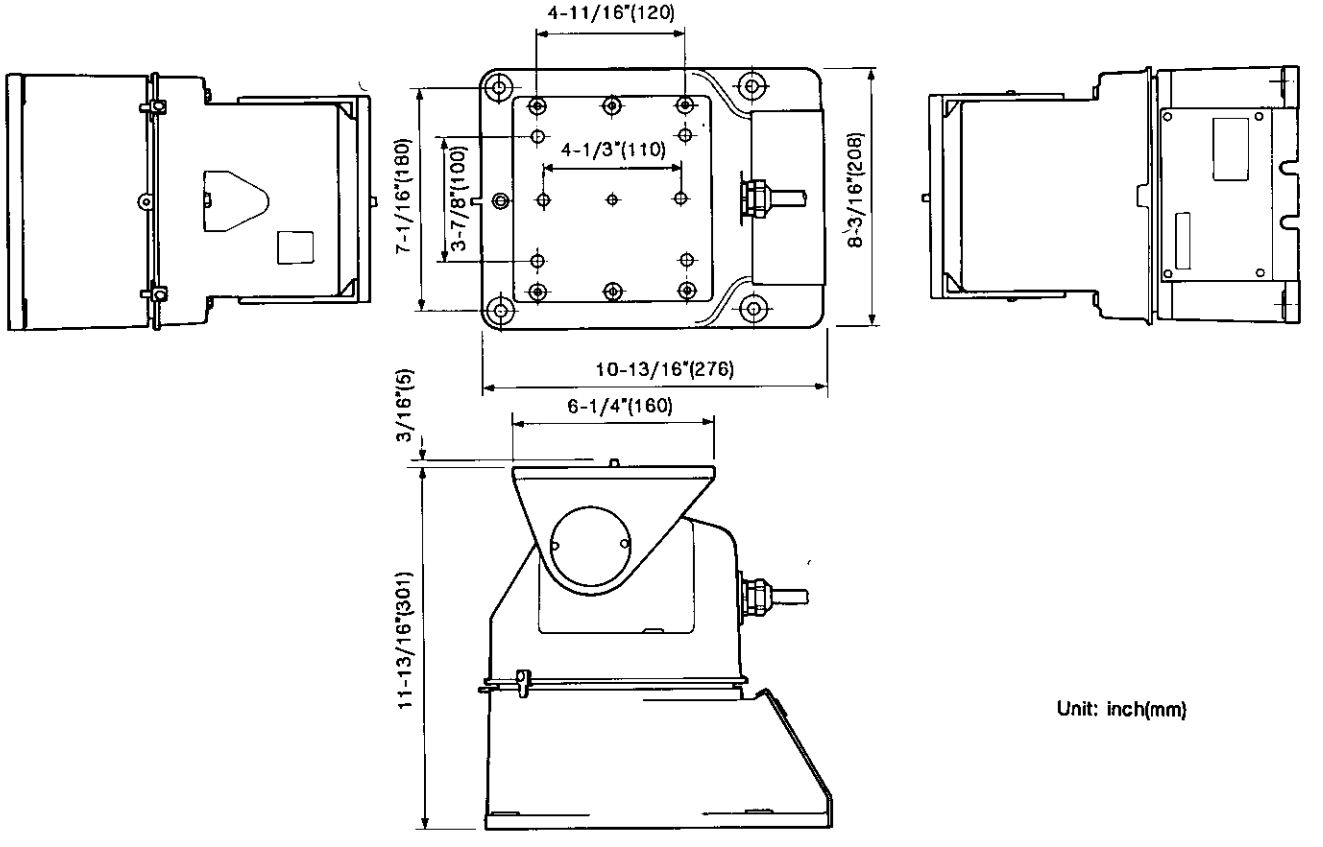
STANDARD ACCESSORIES (Supplied)

Hex Head Bolt [Part No. XVG8C20V] ..... 6 pcs.
Plain Washer [Part No. XWG8V] ..... 6 pcs.
Lock Washer [Part No. XWA8BV] ..... 6 pcs.
Connector [MX5557P10] ..... 1 pcs.
[MX5557P08] ..... 1 pcs.

OPTIONAL ACCESSORIES

Pre-wired Cable WV-CA50

OUTLINE DRAWING



Unit: inch(mm)

Panasonic

Communications & Systems Company

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

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