

Operating Instructions

PAN/TILT Head
WV-PH10



Panasonic

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

**CAUTION****RISK OF ELECTRIC SHOCK
DO NOT OPEN**

CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.



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.

The serial number of this product may be found on the rear panel 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. _____

CONTENTS

| | Page |
|--|------|
| PREFACE | 1 |
| FEATURES | 1 |
| PRECAUTIONS | 1 |
| MAJOR OPERATING COMPONENTS AND THEIR FUNCTIONS | 2 |
| INSTALLATION | 3 |
| OPERATING PROCEDURE | 7 |
| PANNING RANGE ADJUSTMENT | 7 |
| SPECIFICATIONS | 8 |
| COMPOSITION | 9 |
| OPTIONAL ACCESSORIES | 9 |

WARNING: TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

PREFACE

The WV-PH10 is a compact pan/tilt head which is used with the color video camera WV-D5000.

The panning and tilting can be remotely controlled by the camera remote controller WV-CR12.

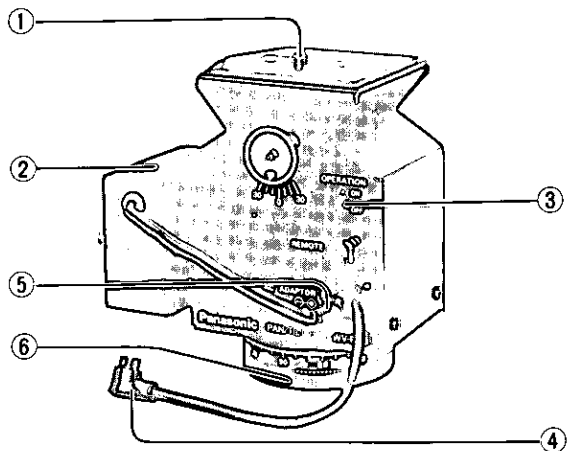
FEATURES

1. Can be operated by batteries or AC adaptor WV-PS03.
2. Remotely controlled by camera remote controller WV-CR12.
3. Panning angle : -150° - $+150^{\circ}$, Tilting angle : -30° - $+30^{\circ}$.
4. Panning speed : approx. $5.8^{\circ}/\text{sec}$, Tilting speed : approx. $2.4^{\circ}/\text{sec}$.
5. Load weight : Less than 11 lbs (5kg)
6. Maximum remote control distance : 330 ft (100m)

PRECAUTIONS

- o Do not attempt to disassemble the unit. There are no user-serviceable parts inside. Do refer any servicing to qualified service personnel.
- o This unit is designed for indoor use. Use the unit under the conditions where temperature is within 14°F - 122°F (-10°C - $+50^{\circ}\text{C}$) and humidity is less than 90%.
- o Fix the unit firmly before operation.
- o Do not place any obstacles in the panning and tilting range.
- o In the battery operation always turn the power off when the unit is not going to be used. This will extend the life of the batteries.
- o Select a location which can support the entire weight (pan/tilt head, camera, lens).

MAJOR OPERATING COMPONENTS AND THEIR FUNCTIONS



1. Camera Mounting Screw

Standard N.C. 1/4" -20 threaded camera mounting screw is provided.

2. Battery Box

The pan/tilt can be operated by 8 pcs of batteries (SUM-3, AM-3 or AA size) for approximately two hours in the continuous use. 8 pcs of batteries are installed into the battery box.

3. Operation Switch (OPERATION ON/OFF)

It turns on/off the power of pan/tilt head.

4. Remote Control Connector (REMOTE)

This connector is connected to the pan/tilt connector of WV-5000 color video camera for remotely controlling the pan/tilt head.

5. AC Adaptor In Connector (AC ADAPTOR IN)

The DC voltage for operating the pan/tilt head is supplied from the battery box (2) or optional AC adaptor WV-PS03.

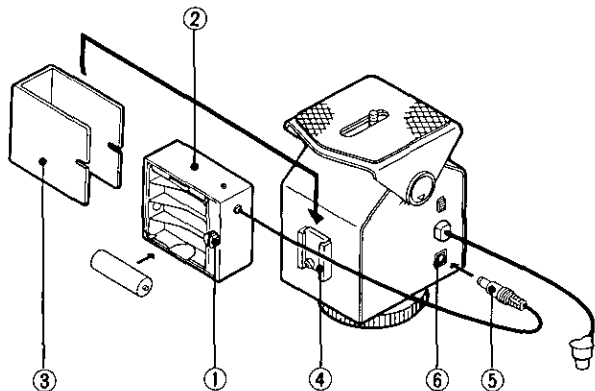
6. Pan/Tilt Head Mounting Base

One standard N.C. 1/4" -20 threaded mounting screw hole is used for installing the pan/tilt head.

INSTALLATION

1. Battery installation

If the batteries are used as power source, install the 8 pcs of batteries (SUM-3, AM-3 or AA size) as follows.



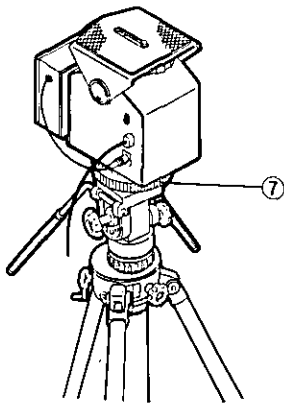
- o Loosen the battery cover fixing screw (1) and slide up the battery box (2).
- o While checking the position/polarity of the batteries, install 8 pcs of batteries (SUM-3, AM-3 or AA size) into the battery box (2).

- o Put the cover (3) back and tighten the fixing screw (1).
- o Install the battery box onto the accessory shoe (4) on the pan/tilt head by sliding the box.
- o Connect the battery cord (5) to the AC adaptor in connector (6).

- Note :**
1. The new batteries operates approximately two hours in the continuous use.
Some batteries may not operate two hours, because some batteries have been already discharged and become low level.
 2. There are dry battery and rechargeable battery. Refer to the instruction of the battery before installation.
 3. Do not mix new and old batteries nor different types of batteries.
 4. Remove the batteries if the pan/tilt head is not going to be used for a long time.
 5. Do not make the short circuit between \oplus polarity and \ominus polarity of the battery.

2. Pan/tilt head mounting

- o The pan/tilt head is mounted by one screw (standard N.C. 1/4" - 20 thread) and the mounting hole is located on the mounting base.
 - o **In case of mounting on tripod.**
 - o While holding the pan/tilt head mounting base (7) mount the pan/tilt head on the tripod.
- Note :** The tripod which firmly holds the pan/tilt head and the camera with the lens should be selected.



- o **In case of mounting on wall or flat surface.**
- o The mounting angle on the wall or flat surface is purchased or prepared locally. The mounting angle should be durable enough to hold the entire weight (pan/tilt head, camera, lens) steady in the operation and it should be firmly mounted on a location which supports the entire weight.
- o Before installation, confirm that there is no obstacles in the range of panning and tilting.

Note:

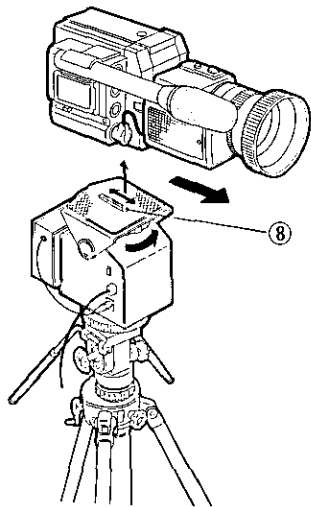
It is not recommended to use the pan/tilt head for the normal surveillance purpose.

3. Camera mounting

- o Mount the WV-D5000 color video camera on the pan/tilt head by the camera mounting screw (8) as shown below.

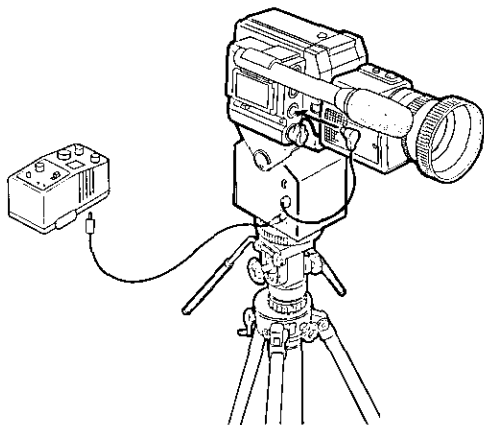
When mounting, adjust the camera mounting screw back and forth so that the camera is balanced on the pan/tilt head.

Note : The load weight of pan/tilt head is less than 11 lbs (5kg).



4. Connection of AC adaptor WV-PS03 (option)

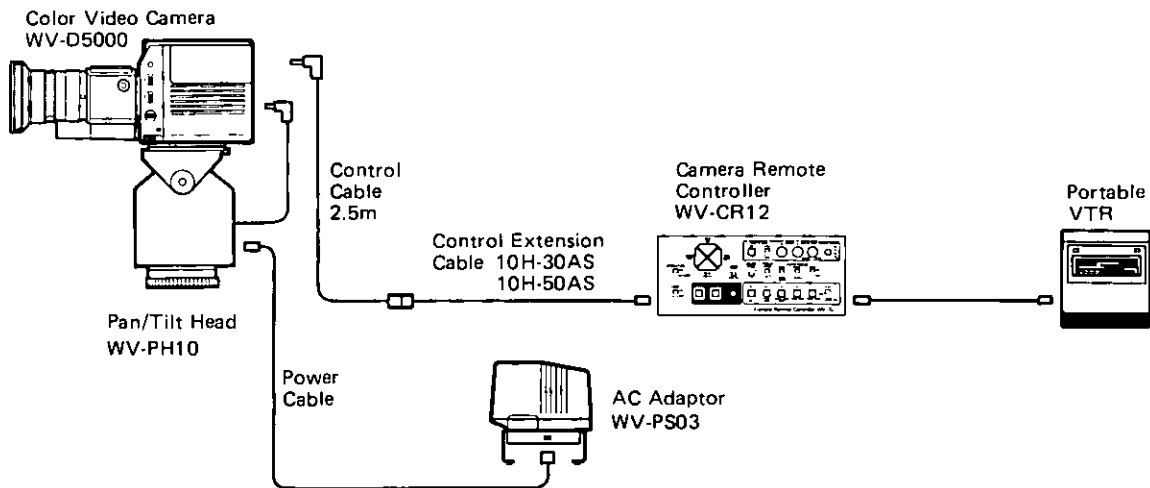
- o If the AC adaptor WV-PS03 is used as power source instead of batteries, connect the AC adaptor WV-PS03 and the AC adaptor in connector of the pan/tilt head with the power cable supplied. Refer to the operating instruction of AC adaptor WV-PS03.



5. Cable connection

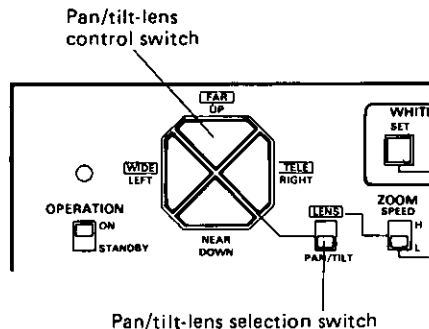
- o Connect the remote control cable/connector of the pan/tilt head to the 5-pin pan/tilt connector on the WV-D5000 color video camera.
- o Connect the EVF/camera remote connector on the WV-D5000 color video camera and the camera connector on the camera remote controller WV-CR12 by 10-pin control cable.

- Note :**
1. The maximum cable length between the color video camera WV-D5000 and the camera remote controller WV-CR12 is 330 ft (100m).
 2. Refer to the operating instructions of the camera remote controller WV-CR12.



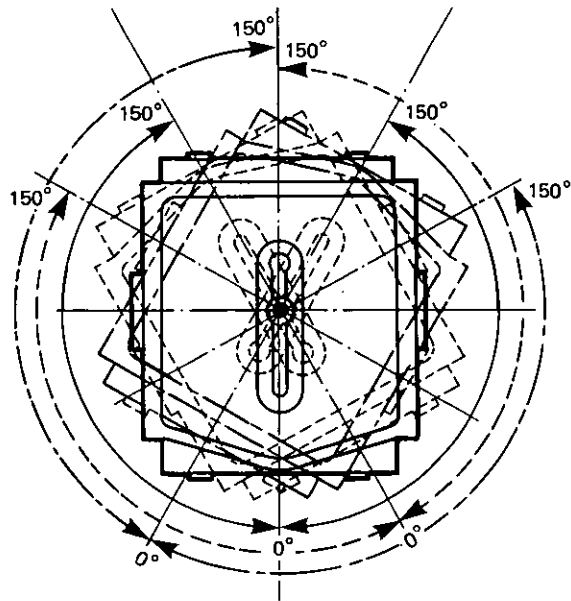
OPERATING PROCEDURE

1. Turn on the power switch on the AC adaptor WV-PS03.
2. Turn on the operation switch on the pan/tilt head.
3. Turn on the operation switch on the camera remote controller WV-CR12.
4. Set the pan/tilt-lens selection switch on the camera remote controller WV-CR12 to the PAN/TILT position.
5. Press the pan/tilt-lens control switch on the camera remote controller WV-CR12 so that the pan/tilt head is remotely controlled.



PANNING RANGE ADJUSTMENT

- o The pan/tilt head is panned $\pm 150^\circ$ from the 0° indicator. In case of changing the panning range, rotate the panning body while holding the pan/tilt head mounting base.



SPECIFICATIONS

| | |
|--|---|
| Power Source : | 12V DC 300mA max., supplied from 8 pcs of batteries (SUM-3, AM-3 or AA size) or AC adaptor WV-PS03 (option) |
| Power Consumption : | 3.6 watts |
| Panning/Tilting Control : | Remotely controlled by camera remote controller WV-CR12 (option) |
| Panning Angle : | Approximately -150° - $+150^{\circ}$, adjustable panning range |
| Tilting Angle : | Approximately -30° - $+30^{\circ}$ |
| Panning Speed : | Approximately 5.8 ^o /sec |
| Tilting Speed : | Approximately 2.4 ^o /sec |
| Load Weight : | Less than 11 lbs (5kg) WV-3260/8AF WV-D5000 + WV-LZ14/8AF (8X auto focus zoom lens) WV-D5000 + WV-LZ14/12A (12X power zoom lens) |
| Maximum Cable Distance : | Remote control cable between WV-D5000/WV-PH10 and WV-CR12 : 330 ft (100m) Power cable between WV-PH10 and WV-PS03 : 3.3 ft (1m) |
| Camera Mounting Screw : | Standard N.C. 1/4" -20 thread x 1 |
| Pan/Tilt Mounting Hole : | Standard N.C. 1/4" -20 thread x 1 |
| Ambient Operating Temperature : | 14 ^o F - 122 ^o F (-10° C - $+50^{\circ}$ C) |
| Ambient Operating Humidity : | Less than 90% |
| Dimensions (with battery box) : | 3-9/16" (W) x 5-11/16" (H) x 5-7/8" (D) 90(W) x 144(H) x 150(D)mm |
| Weight (with battery box) : | 3.2 lbs (1.45 kg) |

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

COMPOSITION

| | |
|--------------------------|-------|
| Pan/Tilt Head : | 1 set |
| Battery Box : | 1 pc |
| Power Cable 3.3ft (1m) : | 1 pc |

OPTIONAL ACCESSORIES

| | |
|----------------------------|-----------------|
| Camera Remote Controller : | WV-CR12 |
| AC Adaptor : | WV-PS03 |
| Control Extension Cable : | 10H-30AS (30ft) |
| | 10H-50AS (50ft) |



Panasonic

Broadcast & Television Systems Company

Division of Matsushita Electric Corporation of America

Executive Office: One Panasonic Way, Secaucus, NJ 07094

For further information on our complete line of
Broadcast and Television Systems products,
please call 1-(800) 524-0864 for your nearest
Panasonic regional sales office.

MATSUSHITA ELECTRIC OF CANADA LIMITED

5770 Ambler Drive, Mississauga, Ontario, L4W 2T3 Canada (905)624-5010

PANASONIC SALES COMPANY

DIVISION OF MATSUSHITA ELECTRIC OF PUERTO RICO, INC.

San Gabriel Industrial Park, 65th Infantry, Ave. KM. 9.5 Carolina, Puerto Rico 00630 (809)750-4300