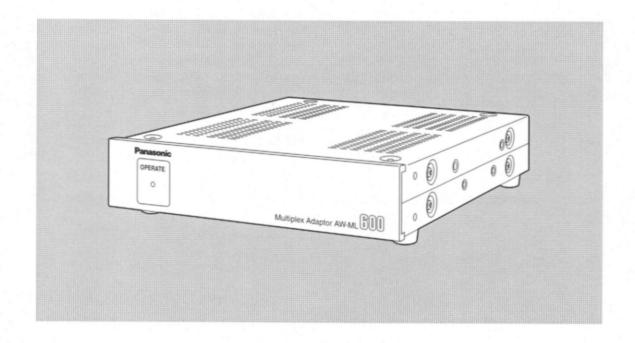
Operating Instructions

Multiplex Adaptor

Model AW-MIGOR



Panasonic.

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



CAUTION RISK OF ELECTRIC SHOCK DO NOT OPEN

A

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



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.



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

WARNING:

TO REDUCE THE RISK OF FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS EQUIPMENT TO RAIN OR MOISTURE.

CAUTION:

TO REDUCE THE RISK OF FIRE OR SHOCK HAZARD AND ANNOYING INTERFERENCE, USE THE RECOMMENDED ACCESSORIES ONLY.

FCC Note:

This device complies with Part 15 of the FCC Rules. To assure continued compliance follow the attached installation instructions and do not make any unauthorized modifications.

This equipment has been tested and found to comply with the limits for a class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

- For CANADA -

This Class A digital apparatus complies with Canadian ICES-003.

Cet appareil numérique de la class A est conforme à la norme NMB-003 du Canada.

CAUTION:

Do not install or place this unit in a bookcase, built-in cabinet or any other confined space in order to maintain adequate ventilation. Ensure that curtains and any other materials do not obstruct the ventilation to prevent risk of electric shock or fire hazard due to overheating.

Note:

The rating plate (serial number plate) is on the bottom of the unit.

indicates safety information.

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Introduction

 This Multiplex Adaptor converts the DC power (approx. 100 V) from the remote control unit (RCU) into DC 12 V and supplies it to the pan/tilt head and camera.

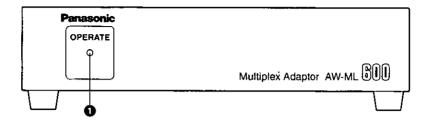
Furthermore, it can separate or multiplex the signals which are listed below.

- Video signals
- Genlock signals
- · Control signals of the camera
- Control signals of the lens
- Control signals of the pan/tilt head

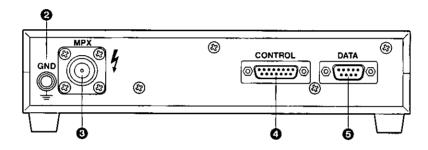
- The unit and RCU can be connected using a single coaxial cable (5C-2V, 300 m max. length, N-type connectors used).
 - The unit and pan/tilt head are connected by the cable supplied with the unit.
- The unit incorporates a protection circuit which is activated when any problem (short-circuiting, broken wire or non-connection) has occurred in the coaxial cable or an error has been made in operation.
 - For details on how to release the protection circuit after it has been activated, refer to "Operating precautions" (page 9).
- An RS-232C/RS-422 converter is required if this unit is to be used to construct a pan/tilt head system.
 - Consult your dealer with regard to the RS-232C/RS-422 converter and the connection cables.

Parts and Their Functions

■ Front panel



■ Rear panel



O OPERATE LED

This LED lights several seconds after the power is supplied from the WV-RC700A remote control unit (RCU).

When it lights, control can be exercised from the AW-RP301 pan/tilt control panel, and all the operations of the pan/tilt head and camera including turning their power on and off can be performed.

<Note>

The OPERATE LED may not light if the power is turned back on within 2 seconds immediately after the RCU's power switch was set to OFF.

Wait at least two seconds before turning the power back on.

Q GND connector

This is the chassis GND of the unit.

MPX connector

The MPX connectors on this unit and the RCU are connected using the coaxial cable.

CONTROL connector

The unit is connected here to the AW-PH300A pan/tilt head using the cable supplied with the unit.

6 DATA connector

The unit is connected here to the AW-PH300A pan/tilt head when the pan/tilt head or camera is to be controlled from an external component using the RS-232C interface (baud rate: 9600 bps) instead of using the controls on the pan/tilt control panel.

(Optional cable: AW-CA28T9)

<Note>

The pan/tilt head or camera cannot be controlled by connecting a control component, etc. with an RS-232C connector to this connector.

Consult your dealer if the pan/tilt head or camera is to be controlled using the RS-232C connector from an external component.

Remote Control Unit Settings

CAUTION

These servicing instructions are for use by qualified service personnel only. To reduce the risk of electric shock do not perform any servicing other than that contained in the operating instructions unless you are qualified to do so.

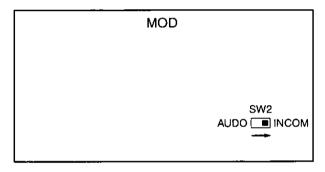
Before proceeding with the connections, set the switches on the boards incorporated inside the WV-RC700A remote control unit (RCU).

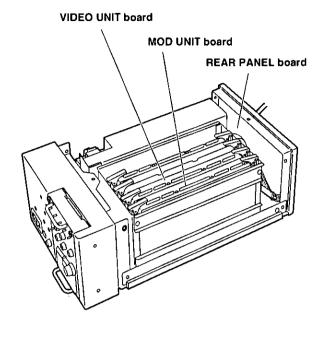
Unless these switches are set, it will not be possible to exercise control from the AW-RP301 pan/tilt control panel.

 Set switch SW2 on the MOD UNIT board to INCOM.

(Factory setting: INCOM)





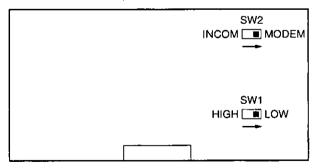


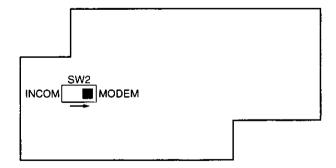
 Set switch SW2 on the VIDEO UNIT board to MODEM and switch SW1 to LOW.
 (Factory settings: INCOM for SW2, HIGH for SW1) Set switch SW2 on the REAR PANEL board to MODEM.

REAR PANEL board

(Factory setting: INCOM)

VIDEO UNIT board





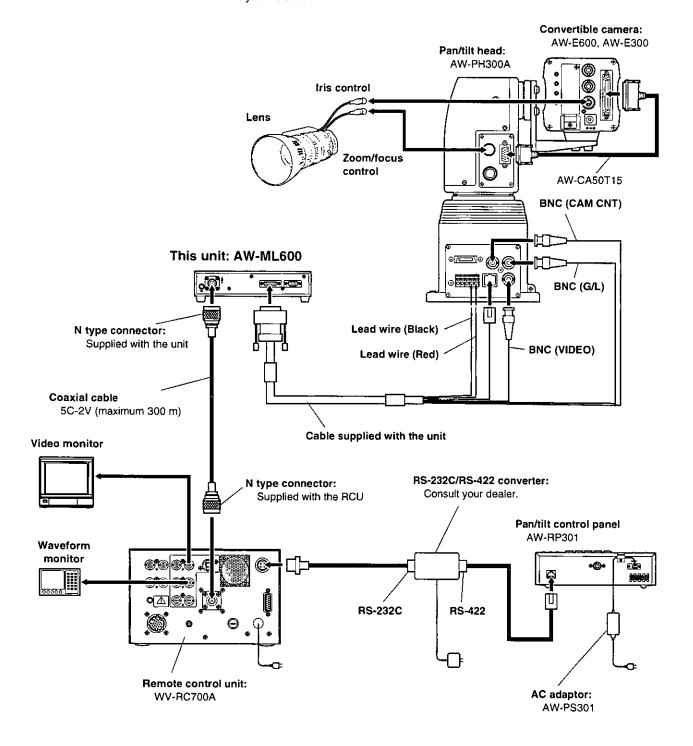
Connections

■ Connected components

Convertible camera : AW-E600, AW-E300

Pan/tilt head : AW-PH300A
Remote control unit : WV-RC700A
Pan/tilt control panel : AW-RP301

RS-232C/RS-422 converter: Consult your dealer.



CAUTION

These servicing instructions are for use by qualified service personnel only. To reduce the risk of electric shock do not perform any servicing other than that contained in the operating instructions unless you are qualified to do so.

Before proceeding with the connections, set the power switches on the components to OFF, and disconnect the AC cords of those components that use AC power from the power outlets.

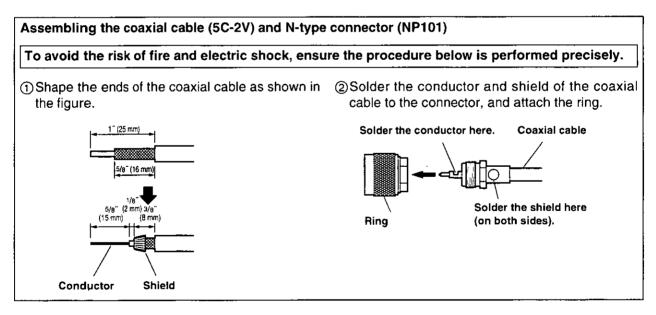
- 1 Connect the 15-pin connector on the supplied cable to the CONTROL connector on the unit. Tighten the lock screws to make the connection secure.
- 2 Connect the other end of the supplied cable to the pan/tilt head.
 - Connect the BNC connector (VIDEO) to VIDEO OUT.
 - Connect the BNC connector (G/L) to G/L IN.
 - Connect the BNC connector (CAM CNT) to CAMERA CONTROL IN.
 - Connect the modular connector to P/T CONTROL IN (SERIAL).
 - Connect the red lead to DC12V IN ⊕.
 - Connect the black lead to DC12V IN

 .

<Note>

When performing the connections, ensure that the connectors are securely locked in place.

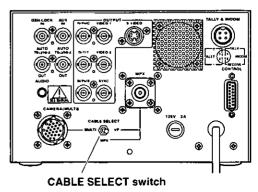
3 Attach the N-type connectors (NP101) to the coaxial cable (5C-2V), and connect the MPX connector on the RCU to the MPX connector on the unit.



4 Set the CABLE SELECT switch on the RCU (on its rear panel) to VP.

<Note>

Power will not be supplied to the unit if this switch is at the MULTI or MPX position.



Connections

5 Connect the TALLY & INCOM connector on the RCU to the RS-232C connector on the RS-232C/RS-422 converter.

<Note>

Consult your dealer with regard to the RS-232C/RS-422 converter and the connection cable.

TALLY & INCOM connector



Pin No.	Signal
1	
2	GND
3	TXD-OUT
4	RXD-IN

6 Connect the PAN/TILT CONTROL OUT connector on the pan/tilt control panel to the RS-422 connector on the RS-232C/RS-422 converter.

<Note>

Consult your dealer with regard to the RS-232C/RS-422 converter and the connection cable.

PAN/TILT CONTROL OUT connector



Pin No.	Signal		
1	GND		
2			
3	TXD (-) OUT		
4	RXD (-) IN		
5	RXD (+) IN		
6	TXD (+) OUT		
7			
8			

- Plug the AC cords of the components that use AC power to the power outlets.
 - AC adaptor of the RS-232C/RS-422 converter
 - AC adaptor (AW-PS301) of the pan/tilt control panel
 - AC cord of the RCU
- Set the power switch on the RCU to ON.
 The POWER LED on the RCU lights, and the OPERATE LED on the unit lights several seconds later.
- 9 Set the power switch on the pan/tilt control panel to ON. The POWER LED on the pan/tilt control panel lights.

<Note>

A flashing MEMORY switch LED on the pan/tilt control panel is a warning of communication problems. Check the connections of the components again.

11 This completes all the connections.

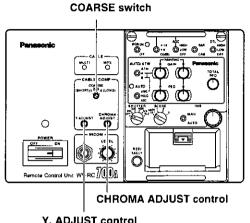
Check that the pan/tilt head and lens can be controlled by the pan/tilt control panel and that the camera can be controlled by the RCU.

<Notes>

- The R/G/B signals and Y/C signals are not output from the RCU.
- Even if the head set for an intercommunication system is connected to the RCU, this function cannot be used.

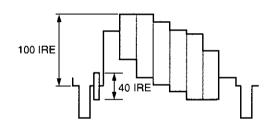
11 Set the COARSE switch on the RCU (on its front panel) to the position corresponding to the length of the coaxial cable connecting the unit and RCU.

Cable length	COARSE switch position				
Under 10 m	1				
10 m up to 100 m	1				
100 m up to 200 m	2				
200 m to 300 m	2				



Y. ADJUST control

- 12 Connect a waveform monitor to the RCU, and adjust the video output from the RCU.
 - 1. Switch the output signals of the camera to color bar
 - 2. Use the Y.ADJUST control on the RCU to adjust the luminance level to 100 IRE.
 - 3. Use the CHROMA ADJUST control on the RCU to adjust the burst level to 40 IRE.



Operating Precautions

- Power will not be supplied to the unit if the CABLE SELECT switch on the WV-RC700A remote control unit (RCU) has been set to the MULTI or MPX position.
 - Turn the power of the RCU off, change the switch position to VP, and then turn the power back on.
- When the coaxial cable is disconnected from the RCU during operation, the protection circuit is activated, and the power will not come back on even if the coaxial cable is re-connected. (The OPERATE LED goes off.) After re-connecting the coaxial cable, turn off the power of the RCU, and wait at least two seconds before turning the power back on.
- Even if the head set for an intercommunication system is connected to the RCU, this function cannot be used.

Specifications

DC 85 V to DC 110 V

(supplied from remote control unit)

Power supply:

Power consumption: 45 W Ambient operating temperature: 32°F to 104°F (0°C to 40°C) Ambient operating humidity: Less than 90% Dimensions (W \times H \times D): 8 3/16"×2 1/18"×9 7/8" (206.5×53.5×250 mm) Weight: 7.744 lb (3.52 kg) Cable included MPX input/output: N-type connector Frequency multiplex signals Maximum cable length: 300 m (Equivalent to 5C-2V coaxial cable) **DATA** input/output: D-Sub, 9-pin connector RS-232C, 9600 bps **CONTROL** input/output: D-Sub, 15-pin connector Video signal input Genlock signal output Camera control signal input/output Pan/tilt head control signal input/output

Lens control signal input/output

(color approximates Munsell 7.9Y6.8/0.8)

DC 12V output

AV ivory-colored paint

Finish:

■ Accessories

N type connector (NP101)	1
Cable (for connecting the pan/tilt head)	1

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Panasonic

PANASONIC BROADCAST & TELEVISION SYSTEMS COMPANY DIVISION OF MATSUSHITA ELECTRIC CORPORATION OF AMERICA

Executive Office:

3330 Cahuenga Blvd W., Los Angeles, CA 90068 (323) 436-3500

EASTERN ZONE:

One Panasonic Way 4E-7, Secaucus, NJ 07094 (201) 348-7621

Southeast Region:

1225 Northbrook Parkway, Ste 1-160, Suwanee, GA 30024 (770) 338-6835

Central Region:

1707 N Randall Road E1-C-1, Elgin, IL 60123 (847) 468-5200

WESTERN ZONE:

3330 Cahuenga Blvd W., Los Angeles, CA 90068 (323) 436-3500

Government Marketing Department:

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Panasonic Canada Inc.

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

Panasonic de Mexico S.A. de C.V.

Av angel Urraza Num. 1209 Col. de Valle 03100 Mexico, D.F. (52) 1 951 2127

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 (787) 750-4300

