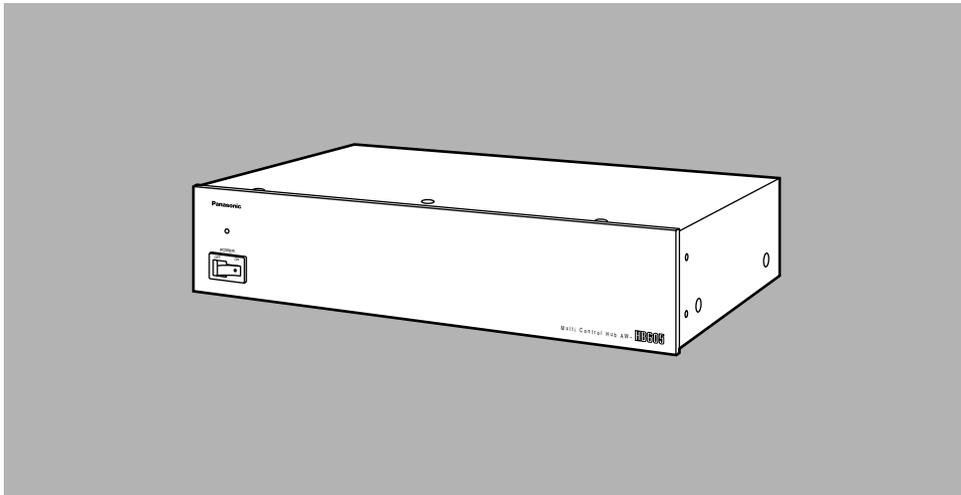


Operating Instructions

Multi Control Hub

Model AW-HB605P



Panasonic®

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

	CAUTION RISK OF ELECTRIC SHOCK DO NOT OPEN	
<p>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.</p>		



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.

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.

 indicates safety information.

<p>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.</p>

<p>WARNING: TO REDUCE THE RISK OF FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS EQUIPMENT TO RAIN OR MOISTURE.</p>
--

<p>CAUTION: TO REDUCE THE RISK OF FIRE OR SHOCK HAZARD AND ANNOYING INTERFERENCE, USE THE RECOMMENDED ACCESSORIES ONLY.</p>
--

<p>CAUTION: • Keep the temperature inside the rack to between 14°F to 113°F (-10°C to 45°C).</p>

 indicates safety information.

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Overview

- The AW-HB605 multi control hub combines with a system such as the Panasonic AW-PH300 series indoor pan/tilt head or AW-PH600 series outdoor pan/tilt head to support the connection of between one and five control panels (AW-RP501, AW-RP301, AW-RP305) to a single camera and pan/tilt head. Any of the connected control panels may then be used to control the camera and pan/tilt head (the AW-RP301 and AW-RP305 can control the pan/tilt head only).
In addition, by adding the AW-HB505 multi port hub and AW-RP505 multi hybrid control panel, it is possible to construct a system in which between one and five multi hybrid control panels may be used to control between one and five cameras and pan/tilt heads.
- When coaxial cable/s (5C-2V) and 10BASE-T (UTP category 5) straight cable/s (10BASE-T cable only for the AW-RP301 and AW-RP305) are used to make connections, the distance between the cameras and pan/tilt heads and the control panels can be extended up to a maximum of 500 meters.

Accessories

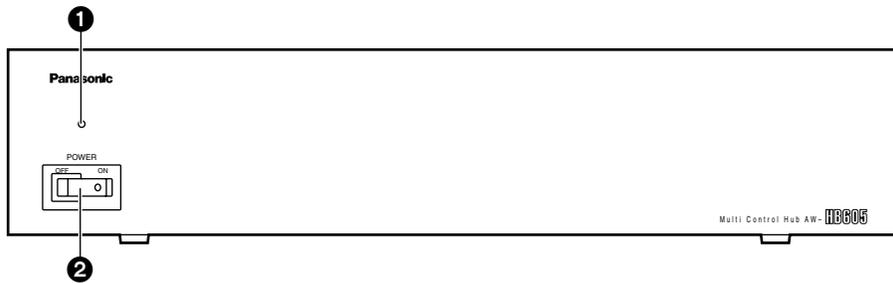
- Priority switchboxes: 5
- Rack mounting brackets: 12
- Mounting screws: 24

For Your Safety

- Use the dedicated AC adapter (AW-PS505) to supply power to the multi control hub.
- Handle with care.
The multi control hub may malfunction if it is dropped or exposed to strong shocks.
- Use within a temperature range of 14°F to 113°F (–10°C to +45°C).
Using the multi control hub in environments colder than 14°F (–10°C) or hotter than 113°F (+45°C) could have a damaging effect on the internal components.
- Connect and disconnect cables only when the power is turned off.
Make sure to turn the power to the multi control hub off before connecting or disconnecting cables.
- Avoid using the multi control hub outdoors.
- Place the multi control hub a minimum of 1 meter away from monitor video screens.
- Cleaning
Unplug the multi control hub and wipe it clean using a dry cloth. For dirt that cannot be removed in this manner, moisten a cloth with kitchen detergent, wring it out thoroughly, and then wipe gently.
 - Never use volatile chemicals such as benzene or paint thinner to clean the multi control hub.
 - Before using chemically treated cloths to clean the multi control hub, read their instructions and precautions thoroughly.

Controls and Their Functions

■ Front Panel



① Power Indicator LED [POWER]

This indicator lights (red) when the power switch ② is at the ON position. It is dark when the power switch ② is at the OFF position.

② Power Switch [POWER ON/OFF]

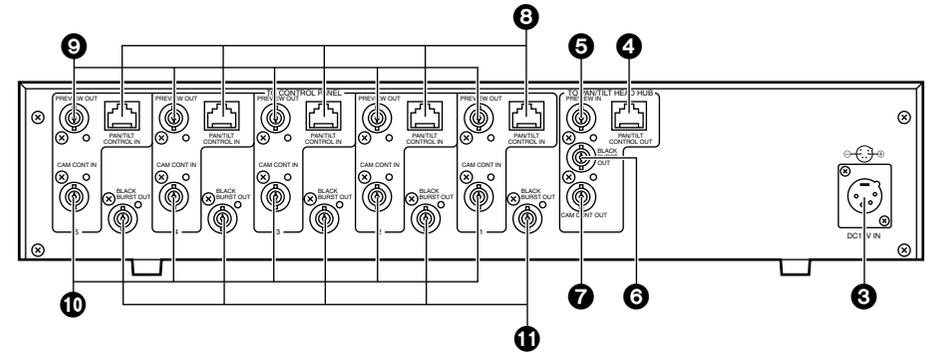
Placing this switch at the ON position when the AC adapter is connected and turned on supplies power to the multi control hub (power indicator LED lights). Placing it at the OFF position cuts off the power.

<Note>

This switch must be at the ON position in order to control the camera and pan/tilt head from each control panel.

Controls and Their Functions

■ Rear Panel



③ DC +12 V Input Connector [DC12 V IN] (4-pin Cannon Connector)

Connect the AW-PS505 AC adapter (sold separately) to this connector.

④ Pan/Tilt Head Control Signal Output Connector [TO PAN/TILT HEAD HUB PAN/TILT CONTROL OUT] (RJ-45 8-pin Modular Jack)

Connect this connector to the control signal input connector [P/T CONTROL IN] of the AW-PH300 or AW-PH600 pan/tilt head, or to the pan/tilt control signal input connector [TO CONTROL PANEL PAN/TILT CONTROL IN] of the AW-HB505 multi port hub using a 10BASE-T (UTP category 5) straight cable.

⑤ Preview Video Signal Input Connector [TO PAN/TILT HEAD HUB PREVIEW IN] (BNC Connector)

Connect this connector to the video signal output connector [VIDEO OUT] of the pan/tilt head, or to the preview video signal output connector [TO CONTROL PANEL PREVIEW OUT] of the multi port hub using a coaxial cable (5C-2V equivalent).

<Note>

In a system incorporating the AW-RP301 or AW-RP305, the control panel is not equipped with a video signal cable compensation circuit. It may therefore be necessary to use a separate cable compensation device in some cases.

Controls and Their Functions

⑥ Black Burst Output [TO PAN/TILT HEAD HUB BLACK BURST OUT] (BNC Connector)

This is the output jack for the reference signal generator built into the multi control hub. This signal may be used as the reference signal if the camera uses external synchronization.

Connect this connector to the G/L signal input connector [G/L IN] of the pan/tilt head, or to the G/L signal input connector [TO CONTROL PANEL G/L IN] of the multi port hub using a coaxial cable (5C-2V equivalent).

⑦ Camera Control Output Connector [TO PAN/TILT HEAD HUB CAM CONT OUT] (BNC Connector)

Connect this connector to the camera control signal input connector [CAMERA CONTROL IN] of the pan/tilt head, or to the camera control signal input connector [TO CONTROL PANEL CAMERA CONTROL IN] of the multi port hub using a coaxial cable (5C-2V equivalent).

⑧ Pan/Tilt Head Control Signal Input Connector [TO CONTROL PANEL PAN/TILT CONTROL IN] (RJ-45 8-pin Modular Jack)

Connect this connector to the control panel pan/tilt control signal output connector [PAN/TILT CONTROL OUT] of the control panel using a 10BASE-T (UTP category 5) straight cable.

⑨ Preview Video Signal Output Connector [TO CONTROL PANEL PREVIEW OUT] (BNC Connector)

Connect this connector to the video input connector [TO CAMERA PAN/TILT HEAD VIDEO IN] of the hybrid control panel (AW-RP501), or to the preview video input connector [PREVIEW IN] of the multi hybrid control panel (AW-RP505) using a coaxial cable (5C-2V equivalent).

If the system incorporates a pan/tilt control panel (AW-RP301) or multi pan/tilt control panel (AW-RP305), the control panel is not equipped with a video input connector. If necessary, the output from the preview video signal output connector may be connected to a monitor video screen, VCR, or the like via a cable compensation device.

Controls and Their Functions

⑩ Camera Control Signal Input Connector [TO CONTROL PANEL CAM CONT IN] (BNC Connector)

Connect this connector to the camera control signal output connector [TO CAMERA PAN/TILT HEAD CAMERA CONTROL OUT] of the hybrid control panel (AW-RP501), or to the camera control signal output connector [TO CAMERA PAN/TILT HEAD CAMERA CONTROL OUT] of the multi hybrid control panel (AW-RP505) using a coaxial cable (5C-2V equivalent).

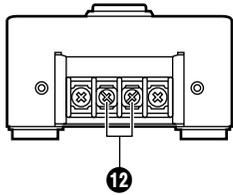
If the system incorporates a pan/tilt control panel (AW-RP301) or multi pan/tilt control panel (AW-RP305), the control panel is not equipped with a camera control output connector. In this case, this connector should be left unconnected.

⑪ Black Burst Output [BLACK BURST OUT] (BNC Connector)

This is the output jack for the reference signal generator built into the multi control hub. This signal may be used as the reference signal for peripheral equipment that uses external synchronization.

Controls and Their Functions

■ Priority Switchbox



12 Priority Switchbox Contacts (Terminal Panel)

These are the output contacts of the priority switchbox. They should be connected to the TALLY terminals on the control panel. These terminals are not polarized. Make connections using cable conforming to the Electrical Equipment Handling Law and with a nominal cross-sectional area of 0.128 mm² (wire number AWG26) or more. The maximum cable length (distance between priority switchbox and control panel) is 10 meters.

The connection terminals differ depending on the control panel model. The correct connection terminals are listed below.

AW-RP301:

TALLY HOT and GND terminals.

AW-RP305:

Any of terminals TALLY 1 through TALLY 5 and the GND terminal. (Make sure that the pan/tilt head control connector number to which the AW-HB605 is connected and the TALLY terminal number to which the priority switchbox is connected match.)

Also, if the pan/tilt head is being controlled via the AW-HB605, it is necessary to select the number to which the AW-HB605 is connected using the pan/tilt head selector switch of the AW-RP305.

AW-RP501:

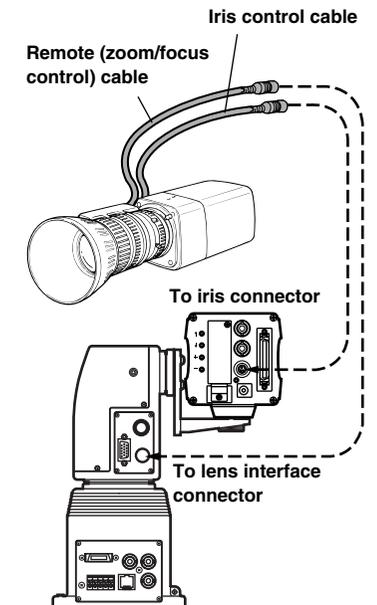
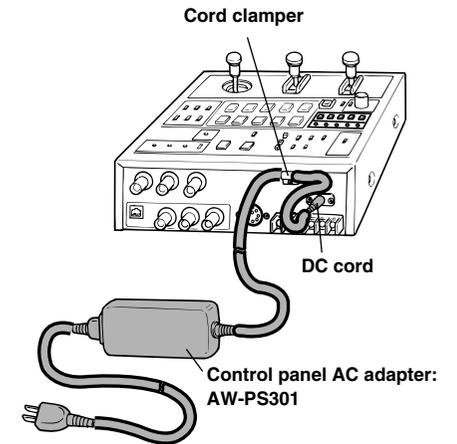
TALLY HOT and GND terminals.

AW-RP505:

TALLY 5 and GND terminals.

System Connections (Indoor Pan/tilt Head System)

- Turn off the power to all pieces of equipment before making any connections.
- For the control panel, use the AC adapter model AW-PS301 (sold separately), for the multi port hub and multi control hub, the AC adapter model AW-PS505 (sold separately), and for the pan/tilt head AC adapter model, the AW-PS300 (sold separately).
- Use an AW-PH300 series pan/tilt head and a camera from the convertible camera series. Use camera cable AW-CA50 T15 (sold separately) to make connections between the pan/tilt head and camera.
- Connect the pan/tilt head (AW-PH300) to its AC adapter (AW-PS300) using a DC power cord (cable conforming to the Electrical Equipment Handling Law and with a nominal cross-sectional area of 1.25 mm² or more, to be obtained locally). The maximum cable distance between the pan/tilt head and its AC adapter is 30 meters.
- Connect the multi control hub to its AC adapter (AW-PS505).
- Connect the multi port hub to its AC adapter (AW-PS505).
- Connect the control panel (AW-RP301, AW-RP305, AW-RP501, AW-RP505) to its AC adapter (AW-PS301). Use a cord clammer to secure the DC cord of the AC adapter and prevent the DC plug from coming loose accidentally.
- Connect the pan/tilt head and the convertible camera using the AW-CA50 T15 camera cable.
- Connect the electric zoom lens iris control cable to the camera and the remote (zoom and focus control) cable to the pan/tilt head.



System Connections (Indoor Pan/tilt Head System)

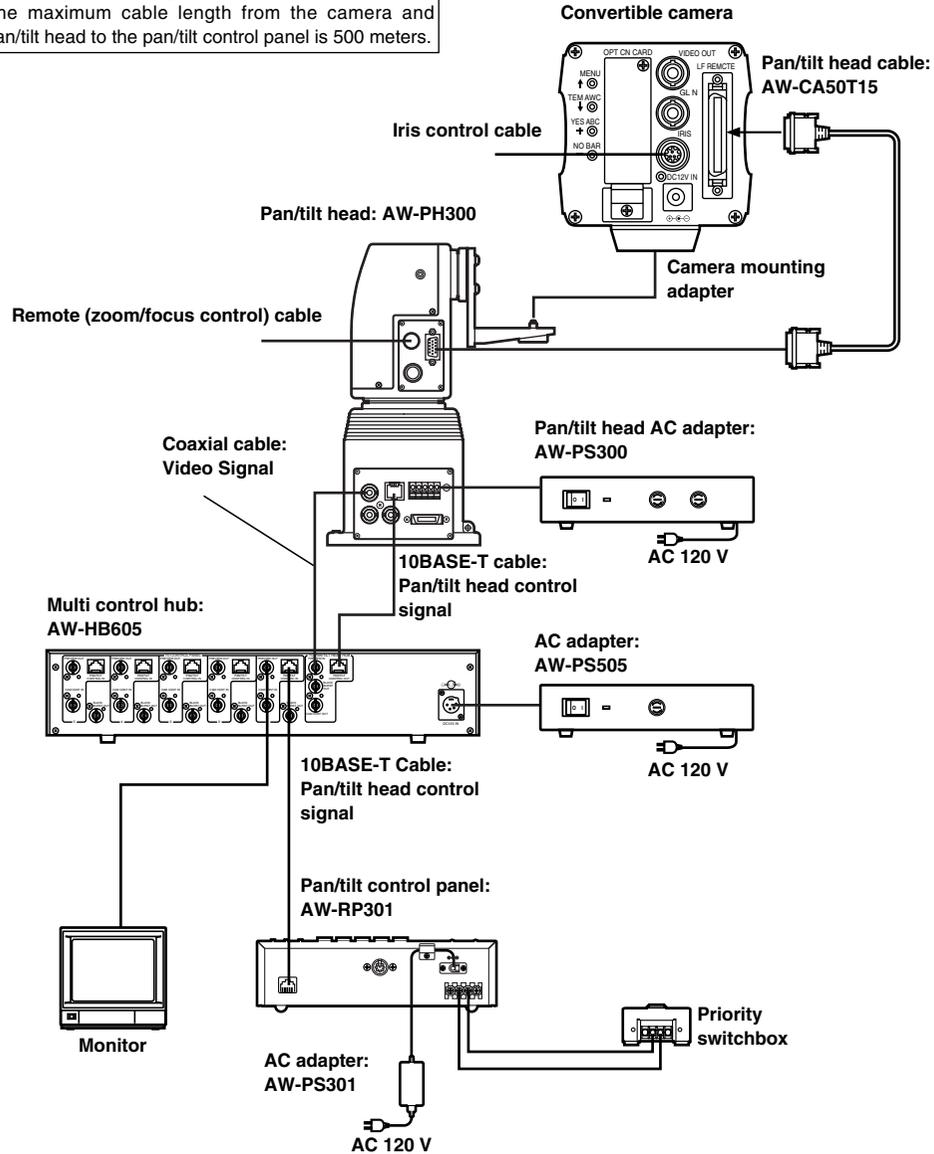
■ System Incorporating AW-RP301

<Note>

Since the pan/tilt control panel is not equipped with a video signal compensation circuit, it may be necessary to use a separate cable compensation device in some cases.

Maximum Cable Length

The maximum cable length from the camera and pan/tilt head to the pan/tilt control panel is 500 meters.



System Connections (Indoor Pan/tilt Head System)

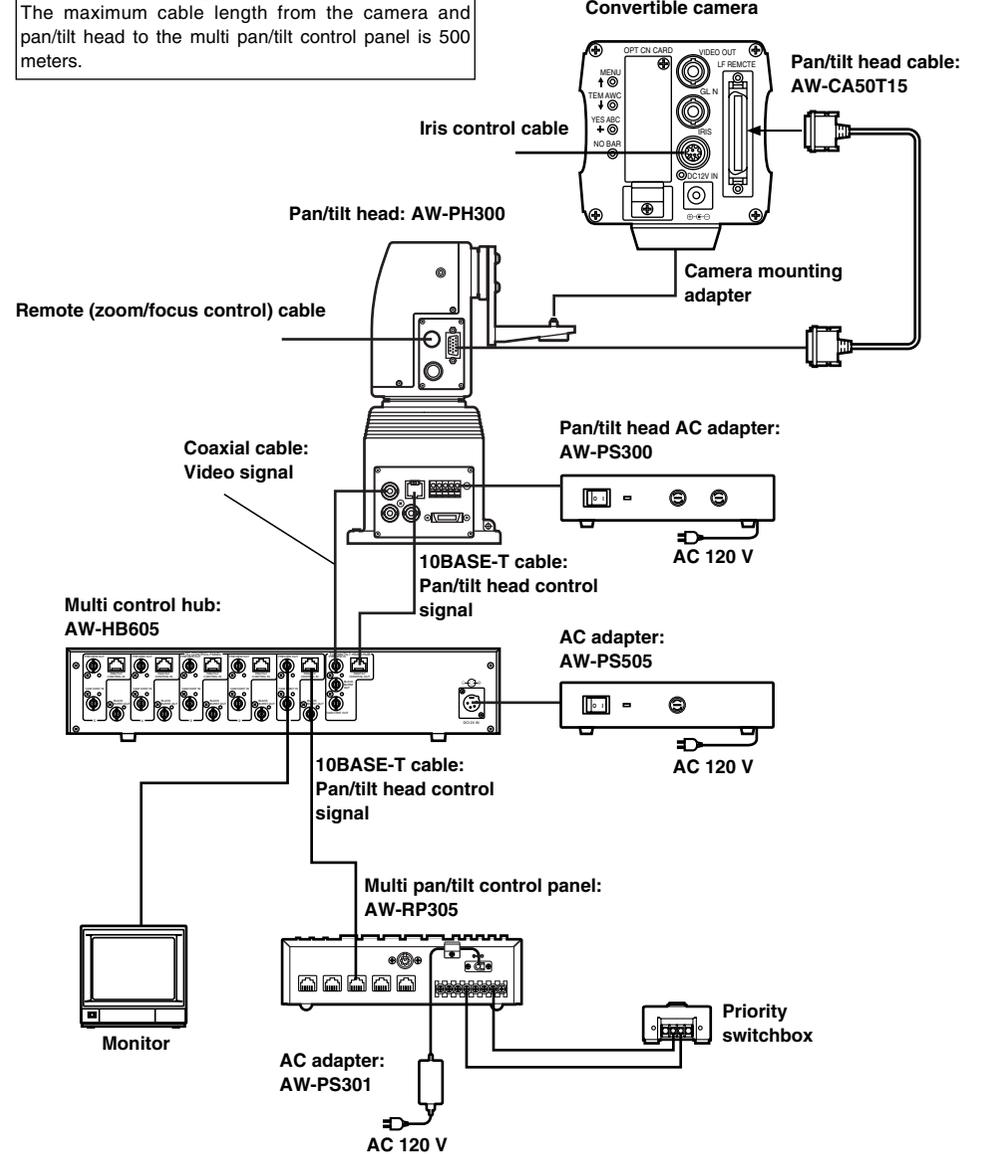
■ System Incorporating AW-RP305

<Note>

Since the multi pan/tilt control panel is not equipped with a video signal compensation circuit, it may be necessary to use a separate cable compensation device in some cases.

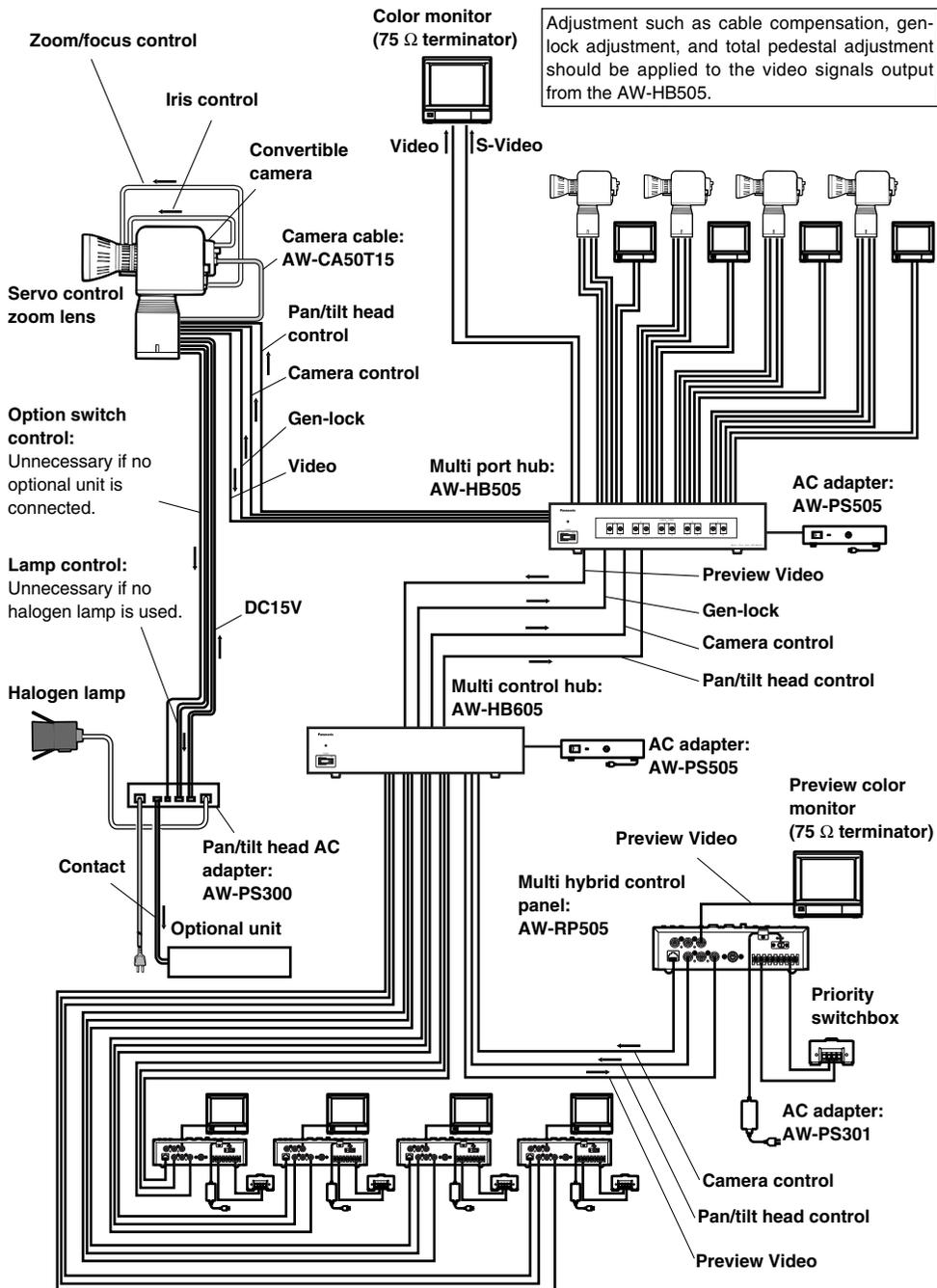
Maximum Cable Length

The maximum cable length from the camera and pan/tilt head to the multi pan/tilt control panel is 500 meters.



System Connections (Indoor Pan/tilt Head System)

Example System Setup



Operations

1. Turn the power on.

Turn on the power control switches of the AC adapters of the pan/tilt heads and control panels, as well as the AC adapter and power control switch of the multi control hub.

If the system incorporates a multi port hub, turn on the power control switch of the multi port hub and the power switch of its AC adapter.

- ### 2. Press the button on the priority switchbox connected to the control panel you wish to operate. This activates the connected control panel.
- If the system incorporates a multi hybrid control panel, use the camera and pan/tilt head selector switch on the multi hybrid control panel to select a pan/tilt head. (The control panel is activated once its memory switch stops flashing and goes dark.)

<Notes>

- Immediately after the power is turned on the system is in a status in which no control panel is selected. After turning the power on, do not fail to press the priority switchbox connected to the control panel you wish to operate. After this operation is performed the power supply to the camera and pan/tilt head turns on.
- The active control panel is always the one connected to the priority switchbox pressed last.

- ### 3. Perform the mounting balance adjustment on the cameras. For detailed instructions, refer to the manuals accompanying the relevant equipment.

- ### 4. Set the limits to the range of movement for the pan/tilt head (limiter). For detailed instructions, refer to the manuals accompanying the relevant equipment.

- ### 5. If the system incorporates a hybrid control panel or multi hybrid control panel, perform video signal cable compensation, G/L (gen-lock) adjustment, and total pedestal adjustment. Also set the switches as appropriate. For detailed instructions, refer to the manuals accompanying the relevant equipment.

<Note>

After performing G/L (gen-lock) adjustment and total pedestal adjustment, set the control panel's G/L phase adjustment switch to the OFF position. The instruction manual of the hybrid control panel states that this switch should be left in the ON position, but it should be set to OFF on systems using the multi control hub.

- ### 6. Store the preset settings for the cameras and pan/tilt heads in memory (systems incorporating hybrid control panel or multi hybrid control panel only). For detailed instructions, refer to the manuals accompanying the relevant equipment.

<Note>

The preset settings are stored in the memory of the pan/tilt head. When new preset settings are stored in memory, all the previous settings (including those stored in memory using the control panel) are overwritten.

The adjustments and settings described in steps 3 through 6 above may be omitted if no changes need to be made to the current adjustments and settings.

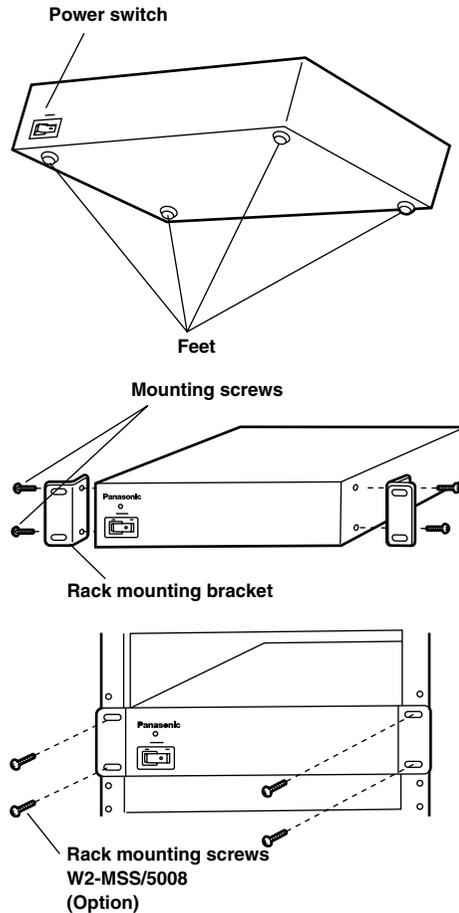
Rack Mounting Example

■ Rack Mounting Procedure

Multi Control Hub

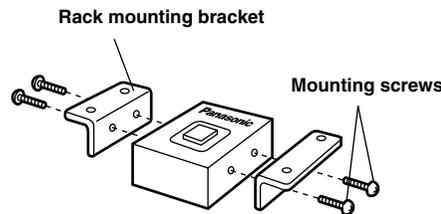
To mount the multi control hub on a rack, use the supplied rack mounting brackets and mounting screws (M4×10).

- ① Press the power switch to turn power off.
- ② Remove the four feet from the bottom of the multi control hub.
- ③ Secure the rack mounting brackets to the sides of the multi control hub using the supplied mounting screws (×4).
- ④ Mount the multi control hub in the rack and secure it in place using four rack mounting screws (part number W2-MSS/5008).



Switchbox

To mount the switchbox on a rack, use the supplied rack mounting brackets and mounting screws (M4×8).



<Notes>

- Rack mounting screws sold separately (part number W2-MSS/5008).
- To ensure that the temperature within the rack does not exceed +113°F (+45°C), make sure to provide sufficient space (a minimum of one chassis width between units) between the multi control hub and the other pieces of equipment mounted in the rack or install a cooling fan.

Specifications

Power supply:
DC +12 V (4-pin Cannon Connector)

Power consumption:
DC 12 V, 0.47 A

Video input:

Composite video 1 V [p-p] 75 Ω × 1
(BNC connector)

Camera control inputs:

Control signal (BNC connector) × 5

Pan/tilt head control inputs:

Control signal (RJ-45 8-pin modular jack) × 5

Preview video outputs:

Composite video 1 V [p-p] 75 Ω × 5
(BNC connector)

Black burst outputs:

75 Ω × 6 (BNC connector)

Camera control output:

Control signal (BNC connector)

Pan/tilt head control output:

Control signal (RJ-45 8-pin modular jack)

Switch function:

Power on/off

Control panel connecting cables:

Number of connecting cables: 4 (3 coaxial cables, 1 10BASE-T straight cable); 5 sets (when using G/L function)

Pan/tilt head connecting cables:

4 connecting cables per pan/tilt head (3 coaxial cables, 10BASE-T straight cable)
(when using G/L function)

Maximum cable length:

Length of cable from camera and pan/tilt head to control panel: Max. 500 m
(assuming: coaxial cable: 5C-2V, 10BASE-T straight cable: UTP category 5)

Operating temperature range:

+14°F to +113°F (−10°C to +45°C)

Dimensions (W×H×D):

Body:

16 9/16" × 3 1/2" × 9 7/8"
(420 × 88 × 250 mm)

Priority switchbox:

2 13/16" × 3 1/2" × 1 7/16"
(70 × 88 × 35 mm)

Weight:

Approx. 12.32 lb (5.6 kg)

Finish:

Cover:

Steel panel with AV ivory color polyvinyl chloride finish (approximate color: Munsell 7.9Y 6.8/0.8)

Panel:

AV ivory color paint (approximate color: Munsell 7.9Y 6.8/0.8)

Weight and dimensions indicated are approximate.

Specifications are subject to change without notice.

Panasonic

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