

# Panasonic

ideas for life

3CCD Convertible Cameras  
Pan-tilt Systems  
Compact Live Switcher  
Signal Converter

A world of solutions with Convertible Cameras



# Super high sensitivity and excellent picture quality 3-CCD camera

Panasonic's high-quality 3-CCD convertible cameras offer excellent system expandability for various camera shootings.

- Panasonic's exclusive clean 3D-DNR (Digital Noise Reduction) technology produces super crisp images.
- Newly developed 12 bit A/D DSP creates excellent image quality.
- 12 vector color matrix masking for fine color adjustment
- Chroma detail and dark detail correction
- Feature cards make the camera compatible for a wide range of use. Two feature cards can be installed in the camera by using the optional additional card adaptor (AW-EX100).



## Feature Cards

### Note:

\*Option cards AW-PB304/306/307/309/310 can not be used for AW-E750/E655/E650/E350.

\*Option cards AW-PB301/302/303 are not required for AW-E750/E655/E650/E350, because functions of these cards are included in AW-E750/E655/E650/E350.



**Studio camera system card**  
 • Output: RGB, Y/Pr/Pb, Y/C, VBS  
 • 5-inch EVF (Zebra, safety zone, and center marker included), and intercom input and output, and tally output compatible



**Connecting card for Contact-type pan-tilt head**  
 • When WV-CB550 is used, panning, tilting, zooming, and focusing are possible. With a fixed-type camera, zooming and focusing are possible.



**Digital connecting card for video equipment with SDI input jack**  
 • Output: Serial digital interface (SMPTE259M [4:2:2 SDI])  
 • Zoom/focus of MD lens can be controlled by the controller WV-CB550.



**Studio and SDI Cards integrated into one.**  
 • SDI Output: SMPTE259M compatible  
 • Viewfinder connector mounted  
 • Intercom jack and intercom audio volume mounted on the EVF interface bracket  
 • EVF interface bracket included

## Additional Card Adaptor



### AW-EX100

• Maximum two feature cards can be inserted in the camera by using optional feature card box AW-EX100 with AW-E750/E655/E650/E350.

## Excellent performance

### AW-E750

2/3-INCH  
BAYONET MOUNT

- 2/3" 3-CCD high image quality
- Horizontal resolution: 850 lines
- Signal to noise ratio: 67dB (DNR on) NTSC, 65 dB (DNR on) PAL
- High sensitivity: 2000lx, F14
- Minimum illumination: 0.005 lx, 0.00005 lx (2 seconds CCD charge accumulation)
- Wide dynamic range: 600%
- Compact size, light weight and low power consumption



### AW-E655

1/2-INCH  
BAYONET MOUNT

- 1/2" 3-CCD high sensitivity
- Horizontal resolution: 850 lines
- Signal to noise ratio: 67dB (DNR on) NTSC, 65 dB (DNR on) PAL
- High sensitivity: 2000lx, F14
- Minimum illumination: 0.005 lx, 0.00005 lx (2 seconds CCD charge accumulation)
- Motor-driven optical filter (3200° K, 1/16ND, 1/64ND, IR through)  
The AW-E655's optical filter rotates for facilitating its use as an infrared camera capable of completely dark scenes from a distance.



## High performance

### AW-E650

1/2-INCH  
BAYONET MOUNT

- 1/2" 3-CCD high image quality
- Horizontal resolution: 850lines
- Signal to noise ratio: 67dB (DNR on) NTSC, 65dB (DNR on)PAL
- High sensitivity: 2000lx, F14
- Minimum illumination: 0.005 lx, 0.00005 lx (2 seconds CCD charge accumulation)
- Compact size, light weight and low power consumption



### AW-E350

1/3-INCH  
C-MOUNT

- 1/3" 3-CCD C-mount lens camera
- Horizontal resolution: 850lines
- Signal to noise ratio: 66dB (DNR on) NTSC, 63dB (DNR on) PAL
- High sensitivity: 2000lx, F9.5
- Minimum illumination: 0.015 lx, 0.00015 lx (2 seconds CCD charge accumulation)
- Compact size, light weight and low power consumption



# Multi-function control system with full camera

## Five cameras/pan-tilt heads control with 50 pre-set memories

Multi-function Controller

### AW-RP605A

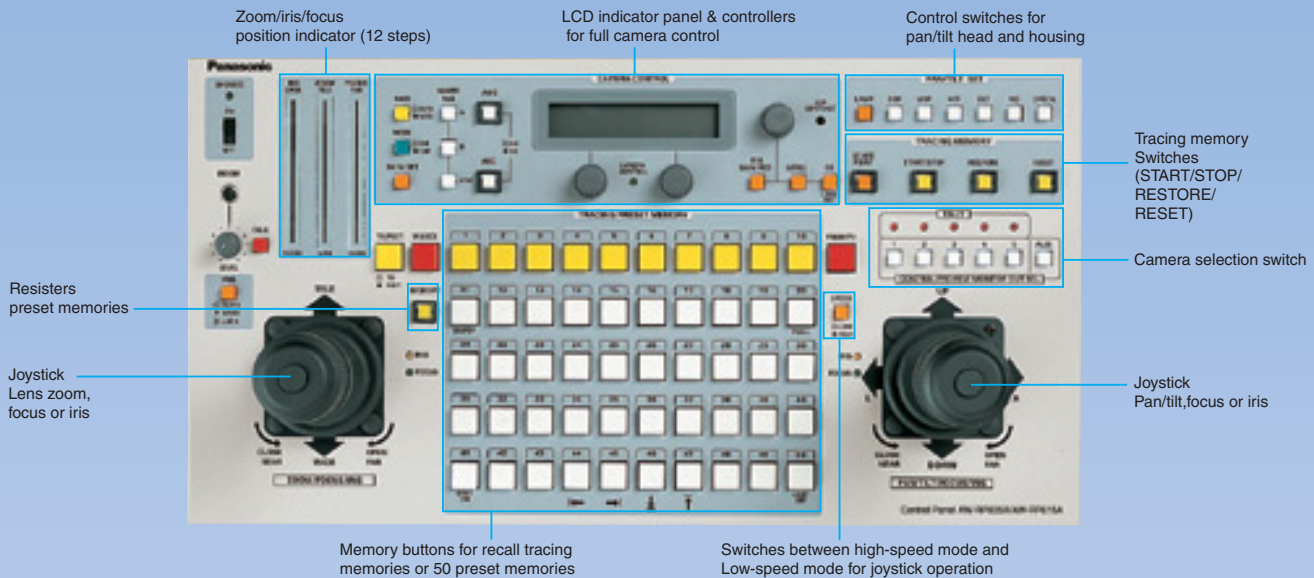
- Full camera control function
- 50 pre-set memories per camera
- 10 tracing memories (Memory time:max. 300seconds)
- Ergonomic Joystick Controller
- Five pan/tilt-camera control without hub unit
- Three controllers connection with integrated control hub
- Composite,component, SDI, IP, DV-DVCPRO output by option feature cards. SDI(AW-PB304)/Network(AW-PB309)/IEEE1394(AW-PB310)
- Maximum distance from pan-tilt head to main unit of controller:1000m

- Rack mount main connection panel unit with desk top controller
- Tally/intercom function
- Zoom/focus/iris position indicator
- RS-232C input for additional PC control

\*AW-RP605A/AW-RP615A requires AC adaptor,AW-PS505.  
(AJ-B75 is required in more than two video boards)

Power supply	10.8-16V DC
Power Consumption	Approx.16.8W
Dimensions	Main Unit-16-9/16"(W)X8-11/16"(H)X5-15/16"(D)(420(W)X220(H)X150(D)mm) Panel-16-9/16"(W)X2-7/16"(H)X8-11/16"(D)(420(W)X52(H)X220(D)mm)
Accessories	Connecting Cable(10m)X1,Plug for intercom headsetX1 Plug for intercom systemX1, Rack mount bracketX4, Mounting screwX8

<Front view / AW-RP605A control panel>



### Full control of camera setting and picture quality

#### Full Camera Control

This control unit AW-RP605A can control full functions and picture quality of the camera in addition to lens and pan-tilt head motion.

Maximum five cameras can be controlled by one AW-RP605A controller and it is relatively easy to match pictures of each camera and camera conditions.

Camera Control	Setting by menu.
Switch	Gain:AUTO/MANU Bar/Cam White Balance:ATW/A/B AWC start ABC start
Controls	R/B gain, R/B pedestal

### Record/playback of pan-tilt head movement and camera condition

#### Tracing Memory

Tracing memory allows the operator to program his critical path moves into the system for easy and repeatable moves at a later time.

Up to 10 can be programmed per camera. A total of 300 secs. is allowed.

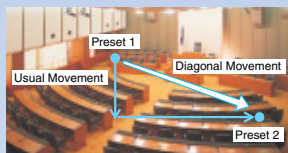
Memory operation	Recording time
10 operations	30 seconds
5 operations	60 seconds
2 operations	150 seconds
1 operations	300 seconds



### Recall of 50 preset camera positions and conditions

#### Preset Memory

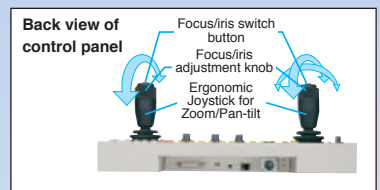
By setting camera position in advance, the preset memory buttons allow you to recall any position instantly. The system is capable of memorizing a maximum 250 positions for five camera pan-tilt head systems, up to 50 positions per camera. And also, when moving between the two preset positions, pan-tilt head delivers natural and smooth camera operation with diagonal movement. The contents of preset memories are pan/tilt/zoom/focus/iris and white balance control.



### Flexible speed control of camera/pan-tilt head motion

#### Joystick Control

This joystick controls camera/pan-tilt head from very delicate motion to high speed movements. The ergonomically designed grip and servo speed control, activated by tilting the joystick offers superb operability. This results in smooth motion of lens zoom/focus and pan-tilt head. In addition, this system is equipped with a button to switch between high speed and low speed, which offers more delicate movements for the camera/pan-tilt head.



# control and smooth pan-tilt head control

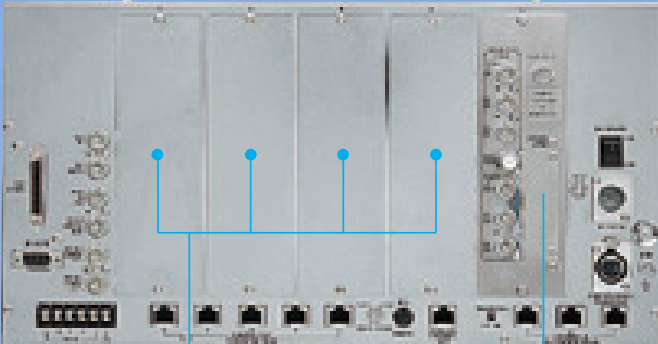
Five Pan-tilt Heads

Zoom, Focus, Iris

Three Control Panels

Five Cameras

<Rear view / AW-RP605A Main connection unit>



Maximum four additional optional video boards AW-PB605A can be installed in these slots.

Optional feature cards slot

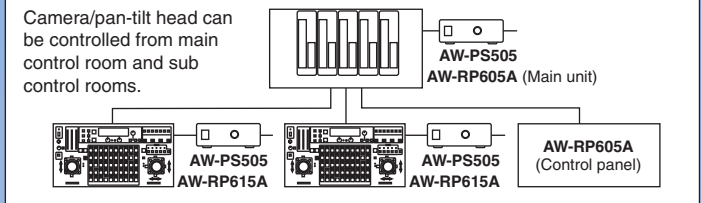
## Additional control panel

### AW-RP615A

- Up to 2 of these additional control panels can be connected to the AW-RP605A main unit.
- Maximum cable length from main unit to control panel: 1 km  
Note: This max. length is total length of each control panel combined with 10BASE-T straight cable.

\*AW-RP615A requires AC adaptor, AW-PS505.

#### <System Example>



Power supply	10.8-16V DC
Power Consumption	Approx. 7.2W
Dimensions	16-9/16"(W)X2-7/16"(H)X8-11/16"(D)(420(W)X52(H)X220(D)mm)
Accessories	Plug for intercom headsetX1, Rack mount bracketX2, Mounting screwX4

## Optional Feature Cards

\*These cards are used for AW-RP605A and AW-EX500.



SDI Card  
**AW-PB304**  
Digital connecting card for video equipment with SDI input jack  
● Output: Serial digital component\* (SMPTE259M [4:2:2 SDI])



IEEE1394 Card  
**AW-PB310**  
● DV or DVCPRO25(25Mbps)compression  
● Data rate: S200/S100 (inside switch)  
● IEEE1394: 6pin connector RS232C: 8pin Mini DIN w/lock



Web Card  
**AW-PB309**  
Card for sending video from remote locations via Network.  
● Transmitting video image signal converted into JPEG possible.  
● Image Size : Selectable from 320X240, 640X240, and 640X480  
● Update Rate :  
15 images per second (320X240)  
7.5 images per second (640X240 and 640X480)  
Speeds indicated above are based on theoretical values.

## High Performance Pan-tilt Head

### High Performance Pan-tilt Head

#### AW-PH350

- This pan-tilt head offers high performance and system expandability.
- Capable of Composite/Component/SDI
- High performance: Quiet (Under NC30) High speed (25°/sec) Accuracy(+/-3.5minutes)
- 50 preset memories
- Maximum distance: 1km (from AW-RP605A)

Power supply	12V DC
Power Consumption	Approx. 2.5A (Include camera power)
Dimensions	5-1/8"(W)X9-5/8"(H)X7-9/16"(D)(130(W)X244(H)X192(D)mm)
Weight	Approx. 7.7lbs(3.5kg)
Accessories	Tilt armX1, Arm mounting screws, Chain for protection of dropping with three screws



## Additional Video Board

### Additional video board for AW-RP605A

#### AW-PB605A

- Up to 4 video boards can be added to the AW-RP605A in addition to the standard accessory video board.
- Inserting optional feature cards, various video outputs can be output from main unit.
- Each camera requires one video board for video processing.



Power supply	10.8-16V DC
Power Consumption	Approx. 4.8W
Dimensions	4-5/8"(W)X2-3/16"(H)X5-7/16"(D)(117(W)X56(H)X139(D)mm)
Weight	Approx. 1.03lbs(0.47kg)

# A wide choice of camera/pan-tilt head for various

Three types of pan-tilt head are available for flexible camera operation in indoor and outdoor use.

All pan-tilt heads are capable of quiet, high-speed operation and can be simultaneously controlled from both a controller and PC.

If connecting multiple numbers of camera/pan-tilt heads or control panels(AW-RP301/305/501/505), a hub unit is required.

However, if these pan-tilt heads are connected with AW-RP605A, a hub unit is not required. But in this case, RS-232C/422 converter will be required.

## Indoor pan-tilt head

**A compact pan-tilt head with a wide pan-tilt range and high speed control**

### Indoor Pan-tilt Head AW-PH300A

- Pan angle:300° Tilt angle:190°
- High performance:Quiet (Under NC30)  
High speed (25° /sec)  
Accuracy(+/-5minutes)
- Smooth starts and stops with soft landing function
- 50 preset memories
- Maximum load:4kg
- Maximum distance:500m(from AW-RP501/505/301/305)
- RS232C interface



\*AW-PH300A requires AC adaptor, AW-PS300

Power	12V DC
Power Consumption	Approx.1.7A(Include camera power)
Dimensions	5-1/8"(W)X9-5/8"(H)X7-9/16"(D)(130(W)X244(H)X192(D)mm)
Weight	Approx.7.7lbs(3.5kg)
Accessories	Tilt armX1, Arm mounting screws, Camera mounting plateX1, Fixing screwsX2

### AC Adapter AW-PS300



Power	AC120V(P)/AC220V-240V(B/G)
Power Consumption	Approx.77VA
Dimensions	8-1/4"(W)X2"(H)X9-7/8"(D) (210(W)X51(H)X250(D)mm)
Weight	Approx.5.5lbs(2.5kg)
Accessories	AC cable(Approx.2.5m)X1

**This indoor pan-tilt head can be equipped with convertible camera with heavy lens or ENG camera/camcorder.**

### Indoor Pan-Tilt head AW-PH500

- Pan angle:300° Tilt angle:180°
- High performance:Quiet (Under NC40)  
Pan speed(15° /sec)  
Tilt speed(10° /sec)
- 50 preset memories
- Maximum load:15kg
- Maximum distance:  
500m (from AW-RP501/505/301/305)
- RS-232C interface

\*AW-PH500 requires AC adaptor, AW-PS505



Power supply	12V DC
Power Consumption	Approx.54W(Include camera power)
Dimensions	9-15/16"(W)X25-1/16"(H)X12-1/2"(D)(252(W)X636(H)X317(D)mm)
Weight	Approx.34.8lbs(15.8kg)
Accessories	Tilt armX1, Arm mounting screwsX8, Camera fixing screws/washerX2

### AC Adapter **AW-PS505**

\*Refer to page11 for detail information.



## Outdoor pan-tilt head

**Outdoor pan-tilt head enables stable shooting despite the rain with a waterproof design.**

### Outdoor Pan-tilt Head AW-PH600

### Outdoor Camera Housing AW-CH600



\*AW-PH600 requires AC adaptor AW-PS600.

### AC Adapter AW-PS600



Power	AC120V(P)/AC220V-240V(B/G)
Power Consumption	Approx.1.6A
Dimensions	10-1/4"(W)X13-3/8"(H)X5-7/8"(D) (260(W)X340(H)X150(D)mm)
Weight	Approx.13.2lbs(6kg)
Accessories	A set of mounting board

- Pan angle:300° Tilt angle:85°
- High performance: Quiet (Under NC40)  
Pan speed(10° /sec)  
Tilt speed(8° /sec)
- In addition to zooming, panning and tilting functions, heater, wiper and defroster functions for the housing can also be controlled by the controller.
- 50 preset memories
- Maximum load:10kg, (22lbs)
- Maximum distance:500m(from AW-RP501/505/301/305)
- RS-232C interface

### AW-PH600

Power	DC15V
Power Consumption	Approx.27W
Dimensions	15-3/16"(W)X19-3/8"(H)X8-1/4"(D)(386(W)X492(H)X210(D)mm)
Weight	Approx.30.8lbs(14kg)
Accessories	Rotating armX1, Arm fixing screwX8, Video relay boxX1

### AW-CH600

Power	Supplied from AW-PH600
Dimensions	10-7/8"(W)X10"(H)X28-5/16"(D)(277(W)X253(H)X720(D)mm)
Weight	Approx.22lbs(10kg)
Accessories	Dedicated keyX1, Spacer/Camera mounting screw.for AW-E350, AW-E650/E655, AW-E750

# application and installation

## Control Panels

### Controls indoor and outdoor pan-tilt head, and camera operation.

Multi-hybrid Control Panel

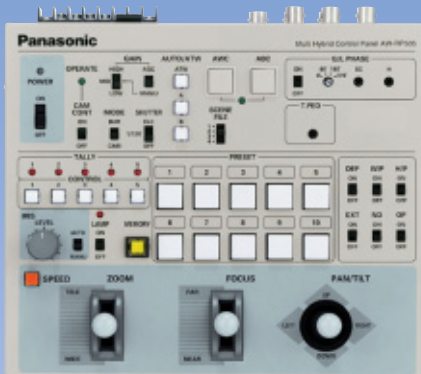
#### AW-RP505

- With 3 coaxial cables (Belden 8281) and a 10BASE-T (UTP Category 5) straight cable, all manner of camera and pan-tilt head operations can be accomplished, as well as transmission of video signals and genlock signals.

\* In addition to the pan-tilt positions of the camera, lens settings for zoom, focus, and iris, as well as ATW, A/B white balance can be preset for easy switchover (maximum of 10 patterns).

- Controls up to 5 sets of cameras and pan-tilt heads with Multi-port Hub Unit (AW-HB505).

\*AW-RP505 requires AC adaptor, AW-PS301.



Front view / AW-RP505



Rear view / AW-RP505

Power supply	12 DC
Power Consumption	Approx.0.5A
Dimensions	8-1/4"(W)X3-7/16"(H)X6-15/16"(D) (210(W)X88(H)X177(D)mm)
Weight	Approx.4.8lbs(2.2kg)
Accessories	StickerX1,Rack Mtg.BracketX2 Connecting BracketX1,ScrewX12

### Hybrid Control Panel

#### AW-RP501

- Controls one pan-tilt head.

\*AW-RP501 requires AC adaptor, AW-PS301.



Power supply	12 DC
Power Consumption	Approx.0.7A
Dimensions	8-1/4"(W)X3-7/16"(H)X6-15/16"(D) (210(W)X88(H)X177(D)mm)
Weight	Approx.4.8lbs(2.2kg)
Accessories	StickerX1,Rack Mtg.BracketX2 Connecting BracketX1,ScrewX12

Pan-tilt Control Panel

#### AW-RP301

- Controls one pan-tilt head.

\*Panasonic CCTV camera or the other company's camera is possible.

\*AW-RP301 requires AC adaptor, AW-PS301.



Power supply	12V DC
Power Consumption	Approx.0.3A
Dimensions	8-1/4"(W)X3-7/16"(H)X6-15/16"(D) (210(W)X88(H)X177(D)mm)
Weight	Approx.4.6lbs(2.1kg)
Accessories	StickerX1,Rack Mtg.BracketX2 Connecting BracketX1,ScrewX12

Multi-control Panel

#### AW-RP305

- Controls up to 5 pan-tilt heads.

\*Correspondence also Panasonic CCTV camera or the other company's camera is possible.

\*AW-RP305 requires AC adaptor, AW-PS301.



Power supply	12V DC
Power Consumption	Approx.0.5A
Dimensions	8-1/4"(W)X3-7/16"(H)X6-15/16"(D) (210(W)X88(H)X177(D)mm)
Weight	Approx.4.6lbs(2.1kg)
Accessories	StickerX1,Rack Mtg.BracketX2 Connecting BracketX1,ScrewX12

## Hubs

### Controls up to 5 camera pan-tilt systems.

#### Multi-port Hub AW-HB505

For AW-RP505

\*AW-HB505 requires AC adaptor, AW-PS505.

Front view



Rear view



- In combination with AW-RP505, up to 5 camera pan-tilt systems can be controlled.
- A cable to connect this unit and a multi-hybrid control panel can be extended up to 10 m, and a cable between the main unit, and camera and pan-tilt head up to 500m.
- Combining with AW-HB605 enables system construction that can be controlled from 1 to 5 camera and pan-tilt systems, with AW-RP505 controller.

Power supply	12V DC
Power consumption	Approx. 12V 2 A
Dimensions	16-1/2"(W)X3-7/16"(H)X9-13/16"(D)(420(W)X88(H)X250(D)mm)
Weight	Approx. 8.8lbs(4 kg)
Accessories	Rack mounting clamp x 2, Mounting screw x 4

### One to five pan-tilt head can be controlled from up to 5 control panels.

#### Multi-control Hub AW-HB605

For AW-RP505/501/RP301

\*AW-HB605 requires AC adaptor, AW-PS505.

Front view



Rear view



- Combining with Panasonic's pan-tilt systems enables operation of one camera and pan-tilt head from a maximum of 5 control panels (AW-RP505, AW-RP501, and AW-RP301).
- G/L B.B. generation circuit for the system embedded. With a total of 6 B. B.output lines, peripherals in addition to camera can also be connected without an additional distributor.

Power supply	12V DC
Power consumption	Approx. 12V 0.47 A
Dimensions	16-1/2"(W)X3-7/16"(H)X9-13/16"(D)(420(W)X88(H)X250(D)mm)
Weight	Approx. 12.3lbs(5.6 kg)
Accessories	Rack mounting clamp x 2, Mounting screw x 4, Priority SW Box x 5

# High Performance Pan-tilt Head System

## High Performance Pan-tilt Head

### High Performance Pan-tilt Head AW-PH400



- Maximum pan speed: 90° /sec (variable speed)
- Stop accuracy: Maximum 30 seconds
- Noise: Under NC30 (at 30° /sec)
- Maximum load: 17.6lbs (8 kg)
- 10 tracing memories (Maximum time: 600 seconds)
- RS-232C controllable
- Tally light available
- Maximum distance: 500m
- Memory of last position
- Diagonal motion possible
- Optional camera rolling unit (AW-RL400) available
- Tele-prompter output
- Both broadcast and industrial motor driven lenses are acceptable.
- AC adaptor (standard accessory) can be installed in pan-tilt head.

Power	AC120 V 60 Hz (NTSC), AC230 V 50 Hz (PAL)
Power consumption	Approx. 145 W
Maximum load	Approx. 17.6lbs (8 kg)
Maximum speed	90 °/s (30 °/s w/Tele prompter)
Weight	Approx. 22.4lbs (10.2 kg)
Dimensions	12-3/8"(W)X21"(H)X7-3/8"(D) (315(W)X534(H)X188(D)mm)

## High Performance Controller

### Pan-tilt Controller AW-RP400



Front view

Rear view



Joystick controller can be changed for seesaw controller (standard accessory).

- Changeable zoom/focus controller (joystick/seesaw)
- Joystick with camera roll control
- 50 preset positions
- 5 pan-tilt heads control
- Zoom/Focus/pan/Tilt speed control
- Tally/Intercom function
- 10 minutes tracing memory (60 seconds x 10 positions)
- RS232C controllable
- Maximum control distance: 500m
- Cross control by two controllers
- Camera control inputs (AW-CB400 or WV-CB700A)
- +DC12 V operation (AC adaptor, AW-PS505 is required.)

Power	DC12 V
Power Consumption	Approx. 13 W
Weight	Approx. 3.8 kg
Dimensions	8-1/4"(W)X3-7/16"(H)X6-15/16"(D) (210(W)X88(H)X177(D)mm)
Accessories	Rack mounting plate x 2 Mounting screws (M4X8) x 4

### Camera Remote Control Unit AW-CB400



- Five cameras control
- Full camera control
- +DC12V operation
- Tally/Intercom function

\*Power is supplied from AW-RP400. Power supply, AW-PS505 is required for controlling camera directly (Maximum control distance: 1,000m).

Power supply	DC12 V, Approx. 3.8 W
Weight	Approx. 3.08lbs (1.4 kg)
Dimensions	3-5/16"(W)X3-3/8"(H)X10-7/16"(D) (100(W)X85(H)X266(D)mm)
Accessories	Pan-tilt controller connection cable

### Cable Compensation Unit AW-RC400



Front view

Rear view

- Five channels compensation
- Composite, Y/C, Y/Pb/Pr, R/G/B
- +DC12 V operation (AC adaptor AW-PS301 is required.)

Power supply	DC12 V, Approx. 9 W
Weight	Approx. 8.14lbs (3.7 kg)
Dimensions	16-1/2"(W)X3-7/16"(H)X9-13/16"(D) (420(W)X88(H)X250(D)mm)
Accessories	Pan-tilt head connection cable, Screw (M4X8) x 3

### Camera Rolling Unit AW-RL400



\* AW-RL400 with AW-PH400

- Power is supplied from AW-PH400.
- Convertible cameras mountable
- Controlled by AW-RP400.

Power supply	DC24 V, Approx. 24 W
Maximum load	8.8lbs (4 kg)
Rotation range	380 ° (+/-190 °)
Maximum speed	60 °/s
Weight	Approx. 8.8lbs (3.9 kg)
Dimensions	8-1/16"(W)X7-13/16"(H)X10-1/4"(D) (205(W)X198(H)X260(D)mm)

# Remote control units control image quality of convertible cameras

## 4 models designed for camera control

Remote control units (RCUs) are specialized for image quality adjustment, control, and other camera settings. Equipped with a tally/intercom connector, an intercom can be used. Power supply to camera is also possible. Compact remote control boxes allow users to keep camera control handy.

### Remote Control Units (RCUs)

#### Remote Control Unit WV-RC700A



- Component/Y/C and composite signals are available with this unit.
- Using a coaxial multiplex adapter (AW-ML600), control of camera/lens/pan-tilt head and receiving of sound/video signals are possible with one coaxial cable Belden8281.
- Can remotely control convertible camera settings, switching, and make precise adjustments.
- 26-pin studio cable (WV-CA26U15, WV-CA26U30, WV-CA26U100) can be extended up to 300 meters using the joint adaptor WV-CA26T26.
- Connecting with an RCU cable (AW-CA50A26), camera settings, switching, and adjustment are remotely controlled. Power supply to camera is also available.
- Equipped with tally/intercom, AUX (for line view) inputs, contact-closure type camera mount control input terminal (15-pin D-sub)
- Built in WV-CB700A remote control unit can be detached and extended up to 50m.
- Maximum distance 300m.

##### Camera control functions

**Switch:**RCB ON/OFF, gain up, color bar/camera, detail correction switch, cable compensation switch, white balance, auto white/auto black setting, shutter speed switch, scene files, lens iris select, user settings, user setting item restriction, gen-lock sub carrier phase coarse adjustment

**Adjustment:**RB gain, RB pedestal, total pedestal, lens iris adjustment, gen-lock horizontal phase, gen-lock sub carrier phase, cable compensation Y/chroma level, intercom audio level

Power supply	AC 120 V (P)/ AC 220-240 V(B/G)
Power consumption	Approx. 86 W
Dimensions	8-1/8"(W)X5-3/16"(H)X14-9/16"(D)(206.5(W)X132(H)X370(D)mm)
Weight	Approx. 15.62lbs(7.1 kg)
Accessories	4P connector (for tally/intercom) x 1, N-type connector x 1

#### Remote Control Unit WV-RC550



- Composite and Y/C signal are offered with this unit.
- Can remotely control a variety of convertible camera settings, switching, and make precise adjustments.
- 26-pin studio cable (WV-CA26U15, WV-CA26U30, WV-CA26U100) can be extended up to 100 meters using the joint adaptor WV-CA26T26.
- Connecting with an RCU cable (AW-CA50A26), camera settings, switching, and adjustment are remotely controlled. Power supply to camera is also available.
- Equipped with tally/intercom, AUX (for line view) inputs, contact-closure type camera mount control input terminal (15-pin D-sub).
- Maximum distance 100m.

##### Camera control functions

**Switch:**gain up, gain selection, night eye, color bar/camera, detail correction switch, cable compensation switch, auto white/auto black setting, white balance, scene files, electronic shutter switch, lens iris select, gen-lock sub carrier phase coarse adjustment.

**Adjustment:**RB gain, RB pedestal, total pedestal, lens iris adjustment, gen-lock horizontal phase, gen-lock subcarrier phase fine adjustment, Y gain adjustment, cable compensation Y/chroma level, intercom audio level.

Power supply	AC 120V(P)/ AC 220-240V(B/G)
Power consumption	Approx. 56 W
Dimensions	16-1/2"(W)X3-7/16"(H)X9-13/16"(D)(420(W)X88(H)X250(D)mm)
Weight	Approx. 14.74lbs(6.7 kg)
Accessories	4P connector (for tally/intercom) x 1, Display panel (for AW-F575), Rack mounting bracket x 1, Mounting screws x 4

#### Remote Control Box WV-CB700A



- Light weight and compact size
- Extending from a remote control unit, this box allows users to remotely control a camera up to 50 meters away.
- Can be connected direct to a convertible camera with an RCB cable AW-CA50T10.

##### Camera control functions

**Switch:**RCB ON/OFF, gain up, color bar/camera, detail correction switch, white balance, auto white/black settings, shutter speed selection, scene files, lens iris select, user settings, genlock sub-carrier phase

**Adjustment:**RB gain, RB pedestal, total pedestal, lens iris adjustment, genlock horizontal/sub carrier phase

Power supply	Supplied from camera
Dimensions	3-9/16"(W)X5-3/16"(H)X2"(D)(90(W)X131(H)X51.5(D)mm)
Weight	Approx. 0.81lbs(0.37 g)
Accessories	RCB cable (2 m) x 1, Display panel (for AW-F575)

#### Remote Control Box WV-CB550



- Connecting to a camera using 3 coaxial cables, camera control, transmission and reception of camera video signals and genlock signals are possible.
- Can be connected to a convertible camera with an RCB cable AW-CA50TBC.

##### Camera control functions

**Switch:**BAR/CAM, gain, white balance, AWC start, ABC start, scene file switch, lens iris switch, gen-lock SC phase coarse adjustment switch

**Adjustment:**Total pedestal, gen-lock horizontal phase, gen-lock SC phase

Power supply	12V DC
Power consumption	1.8 W
Dimensions	5-1/2"(W)X3-1/8"(H)X7-13/16"(D)(140(W)X79(H)X198(D)mm)
Weight	Approx. 2.2lbs(1 kg)
Accessories	20-pin/BNC conversion cable x 1

# Switcher for live production of images

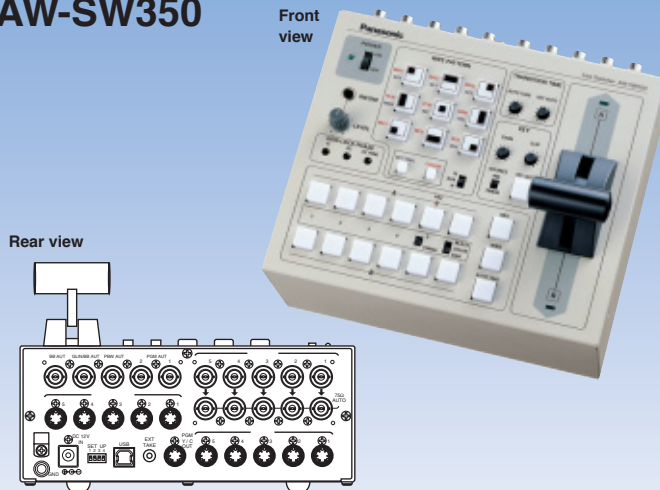
## For live switching of video images

This switcher switches images transmitted from up to five cameras, using wipe effects, etc. Its compact design is very convenient for field use.

### Live Switcher

5 inputs compact live switcher with 5 frame synchronizers

#### AW-SW350



- 5 inputs(composite and YC) in compact body (half rack size)
- Three program outputs and one preview output
- Selectable bus switching system
- 10 bit, 5-channel frame synchronizer/genlock system switchable
- Frame capture, soft wipe and linear key
- DC12V operation
- Tally and intercom function
- NTSC/PAL switchable
- AC adaptor AW-PS505 and power cable AW-CA4T1 are required.

Power supply	12V DC
Power consumption	Approx. 1.35 A (16 W)
Dimensions	8-1/4"(W)X3-3/8"(H)X6-15/16"(D)(210(W)X86(H)X176(D)mm)
Weight	Approx. 4.8lbs(2.2 kg)
Accessories	Tally/Intercom connector x 4, Rack mounting clamp x 2, Connection bracket x 1, Screw kit x 1

### Signal Converter

Signal Converter

#### AW-EX500



- 1 analog input (composite, Y/C, component) and SDI
- R/G/B, SDI, SVGA, WEB, DV-DVCPRO output by option card
- An additional card adaptor (AW-EX100) attachable
- Output: video(component, RGB, Y/C-D-sub connector)
- \*An optional AC adaptor(AW-PS505/AW-CA4T1) is used for AC operation.

Power supply	12V DC
Power consumption	Approx. 6.8 W
Dimensions	3-5/16"(W)X3-1/16"(H)X6-1/8"(D)(84(W)X77(H)X155(D)mm)
Weight	Approx. 1.5lbs(0.7 kg)
Accessories	Rubber feet x 4

### Coaxial Multiplex Adapter

Coaxial Multiplex Adapter

#### AW-ML600



- Multiplexes and sends power, control, and video/genlock signal through a coaxial cable to convertible camera and pan-tilt head.
- Converts DC power to DC12V, and supplies it from a remote control unit (WV-RC700A). Connects RCU and AW-ML600 with a coaxial cable. (300 m for Belden 8281: N-type connector included.)
- \*Not available in some areas.

Power supply	85-110V DC (supplied from remote control unit)
Power consumption	Approx. 45W
Dimensions	8-1/8"(W)X2-1/8"(H)X9-13/16"(D)(206.5(W)X53.5(H)X250(D)mm)
Weight	Approx. 7.7lbs(3.52 kg) (incl. cable)
Accessories	N-type connector (NP101) x 1, Cable (for connection with pan-tilt head) x 1

# Lenses / Cables and Other Equipment




## Cables list

Name	Number	Connection apparatus		Length	Note
Coaxial cable with special connector	AW-CA1T1	AW-PH600		1m	For SDI connection
DC power cable	AW-CA4T1	AW-PS505	AW-E750 etc, AW-SW350	3m	
Power cable	AW-CA8U30	AW-PS600	AW-PH600	30m	
Camera control cable for video signal	AW-CA16U10 / 30	AW-PH600	VTR, AW-RP501, AW-HB505 etc.	10m, 30m	VBS output, Component output, Camera Control
Pan-tilt control cable	AW-CA24U10 / 30	AW-PH600	AW-RP501, AW-CA26U15 etc.	10m, 30m	
Cable joint adaptor	WV-CA26T26	AW-E750 etc.	AW-CA26U15 etc.		Connects AW-CA50A26 to longer lengths
Studio cable (26P-26P)	WV-CA26U15 / 30 / 100	AW-E750 etc.	WV-RC550, WV-RC700A	15m, 30m, 100m	
RCB cable	AW-CA50T10	AW-E750 etc.	WV-CB700A	5m	Camera - RCB
For RCB cable extension	AW-CA50B10	AW-E750 etc.	AW-CA10B02 etc.	5m	Camera - RCB extension cable
RCB extension cable	WV-CA10B25 / 50	AW-CA50B10	WV-CB700A	25m, 50m	10P-10P
Lens extension cable	AW-CA12T12A		AW-E750 etc.	0.15m	12P-12P
RCU cable	AW-CA50A26	AW-E750 etc.	WV-RC550 etc.	15m	
RGB cable	AW-CA50T6	AW-E750 etc.	Monitor, VTR etc.	5m	BNCx5 + S terminal
For RGB extension cable	WV-CA9T5	AW-EX500 etc.	Monitor etc.	5m	D-Sub 9pin-BNCx5
For WV-CB550 cable	AW-CA50TBNC	AW-E750 etc.	WV-CB550	2m	BNC coaxial cable is required.
Pan-tilt cable (for pan-tilt control panel)	AW-CA50T15, AW-CA50A15	AW-E750 etc.	AW-PH300A, AW-PH600	0.4m	Control panel, Composite signal / RS-232C(PC), Composite signal
	AW-CA50C15, AW-CA50D15		AW-PH600		Control panel, Component signal / RS-232C(PC), Component signal
Pan-tilt cable	AW-CA50T29, AW-CA50C29	AW-E750 etc.	AW-PH350		Composite (T29) / Component (C29)
RS-232C pan-tilt cable	AW-CA28T9	AW-PH300A	PC	5m	Pan-tilt head is controlled by PC
RS-232C camera control cable	AW-CA50T9	AW-E750 etc.	PC	10m	Camera is controlled by PC
Camera control cable	AW-CA50T8	AW-E750 etc.	AW-CB400	10m	



## Lenses

<p>&lt;For AW-E350&gt; Picture: AW-LZ10MD6</p>  <p>10x MD Zoom Lens <b>AW-LZ10MD6</b> Focal distance: 6 - 60 mm</p> <p>16x MD Zoom Lens <b>AW-LZ16MD55</b> Focal distance: 5.5 - 88 mm</p> <p>16x Studio Zoom Lens <b>AW-LZ16ST55</b> Focal distance: 5.5 - 88 mm</p>	<p>&lt;For AW-E650/E655&gt; Picture: AW-LZ16MD73</p>  <p>16x MD Lens <b>AW-LZ16MD73</b> Focal distance: 7.3 - 117 mm</p> <p>16x Studio Zoom Lens <b>AW-LZ16ST73</b> Focal distance: 7.3 - 117 mm</p> <p>16x Auto Focus MD Lens <b>AW-LZ16AF7</b> Focal distance: 7 - 122 mm</p>	<p>&lt;For AW-E750&gt; Picture: AW-LZ17MD9A</p>  <p>17x MD Zoom Lens <b>AW-LZ17MD9A</b> Focal distance: 9 - 153 mm</p> <p>17x Studio Zoom Lens <b>AW-LZ17ST9A</b> Focal distance: 9 - 153 mm</p>
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## Control Kits

<p>Control Kit <b>AW-LK30</b> For MD (Motor Drive) Lenses Cable Length : 190 cm</p> 	<p>Zoom Control Kit <b>WV-LK36</b> For Studio Zoom Lens AW-LZ17ST9A Lens Control Kit <b>WV-LK35</b> For Canon Zoom Lens</p> 	<p>Lens Control Kit <b>AW-LK50</b> For Studio Zoom Lens AW-LZ16ST55 / AW-LZ16ST73</p> 
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## AC Adaptors

<p>AC Adaptor <b>AW-PS301</b></p>  <p>For AW-RP301, AW-RP305, AW-RP501, AW-RP505, and more</p> <table border="1"> <tr><td>Power</td><td>AC120V(P)/AC220V-240V(B/G)</td></tr> <tr><td>Power consumption</td><td>Approx. 34 - 44 VA</td></tr> <tr><td>Dimensions</td><td>5-7/16"(W)X1-3/16"(H)X2-9/16"(D) (138(W)X30(H)X65(D)mm)</td></tr> <tr><td>Weight</td><td>Approx. 0.57lbs(0.26 kg)</td></tr> <tr><td>Accessory</td><td>AC cable (3 m)</td></tr> </table>	Power	AC120V(P)/AC220V-240V(B/G)	Power consumption	Approx. 34 - 44 VA	Dimensions	5-7/16"(W)X1-3/16"(H)X2-9/16"(D) (138(W)X30(H)X65(D)mm)	Weight	Approx. 0.57lbs(0.26 kg)	Accessory	AC cable (3 m)	<p>AC Adaptor <b>AW-PS505</b></p>  <p>DC Cable(XLR, 4pin) included(2m). For AW-HB505, convertible cameras, live switcher, AW-PH500 and more.</p> <table border="1"> <tr><td>Power</td><td>AC120V(P)/AC220V-240V(B/G)</td></tr> <tr><td>Power consumption</td><td>Approx. 77 VA</td></tr> <tr><td>Dimensions</td><td>8-1/4"(W)X2"(H)X9-13/16"(D) (210(W)X51(H)X250(D)mm)</td></tr> <tr><td>Weight</td><td>Approx. 5.5lbs(2.5 kg)</td></tr> <tr><td>Accessories</td><td>AC cable(Approx. 2 m), Canon - Canon type DC cable (2 m)</td></tr> </table>	Power	AC120V(P)/AC220V-240V(B/G)	Power consumption	Approx. 77 VA	Dimensions	8-1/4"(W)X2"(H)X9-13/16"(D) (210(W)X51(H)X250(D)mm)	Weight	Approx. 5.5lbs(2.5 kg)	Accessories	AC cable(Approx. 2 m), Canon - Canon type DC cable (2 m)
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## Others

<p>Public Telephone Line Connecting Adaptor / RS232C Distribution Adaptor <b>AW-DU600</b> Enables remote control of camera and pan-tilt head</p> <ul style="list-style-type: none"> <li>• AW-PS301 required.</li> <li>• With use of a public telephone line, remote control of camera and pan-tilt head can be done through AW-RP501 series and PC.</li> <li>• Up to 5 sets of camera and pan-tilt heads can be controlled with distribution function.</li> <li>• Directly controllable pan-tilt and zoom/focus.</li> <li>* Not available in some areas.</li> <li>* Modem required.</li> </ul> 	<p>5-inch Viewfinder <b>WV-VF65B</b></p>  <table border="1"> <tr><td>Power supply</td><td>12V DC (supplied from camera head)</td></tr> <tr><td>Power consumption</td><td>Approx.13.2 W (12V DC, 1.1 A)</td></tr> <tr><td>Dimensions</td><td>6-3/16"(W)X8-3/8"(H)X14-1/4"(D)(156(W)X213(H)X361.5(D)mm)</td></tr> <tr><td>Weight</td><td>Approx. 6.27lbs(2.85 kg)</td></tr> <tr><td>Accessories</td><td>Tally card x 2, mounting bracket x 1, electronic viewfinder mounting base x 1, hood x 1, tally lamp, base mounting screw (M4) x 2, hood mounting screw (M5) x 2</td></tr> </table>	Power supply	12V DC (supplied from camera head)	Power consumption	Approx.13.2 W (12V DC, 1.1 A)	Dimensions	6-3/16"(W)X8-3/8"(H)X14-1/4"(D)(156(W)X213(H)X361.5(D)mm)	Weight	Approx. 6.27lbs(2.85 kg)	Accessories	Tally card x 2, mounting bracket x 1, electronic viewfinder mounting base x 1, hood x 1, tally lamp, base mounting screw (M4) x 2, hood mounting screw (M5) x 2	<p>EVF Mounting Bracket <b>AW-Q40</b> • For WV-VF65B * AW-Q40 is not required for SDI studio card (AW-PB506).</p> 
Power supply	12V DC (supplied from camera head)											
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Accessories	Tally card x 2, mounting bracket x 1, electronic viewfinder mounting base x 1, hood x 1, tally lamp, base mounting screw (M4) x 2, hood mounting screw (M5) x 2											

# Excellent system expandability accommodates

## High Performance Camera/Pan-tilt Control

**System example**

AW-LZ17MD9A (For AW-E750)  
AW-LZ16MD73 (For AW-E655/E650)

**Key Products**

- AW-E750/E655/E650
- AW-PH400
- AW-RP400
- AW-CB400/AW-RC400

**Key Points**

- High quality camera
- High performance camera/pan-tilt head/controller
- Max. control distance : 500 m

## Simple Camera/Pan-tilt Control

**System example**

AW-LZ17MD9A (For AW-E750)  
AW-LZ16MD73 (For AW-E655/E650)

**Key Products**

- AW-E750/E655/E650
- AW-PH300A
- AW-RP501

**Key Points**

- High quality camera
- Compact size, quiet pan-tilt head
- Compact size controller
- Max. control distance : 500 m

## Multi-Function Camera/Pan-tilt Control System

**System example**

**Key Products**

- AW-E750/E655/E650
- AW-PH350
- AW-RP605A

**Key Points**

- High quality camera
- Quiet/accurate camera/pan-tilt head
- Multi-Function Control
- Max. control distance : 1,000 m

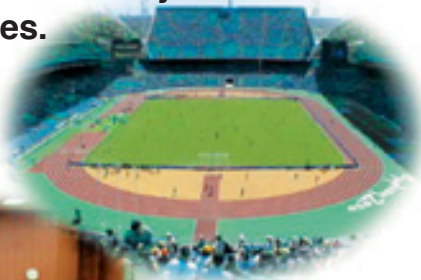
## For video recording studio and field production

- News Studio
- CATV Studio
- Internet Video Studio
- Virtual Studio
- Field Production
- Wedding Production



## As a permanent camera system for a variety of facilities.

- Sports Arena
- Government
- Auditorium
- Race Track
- Conference Halls



## Compact Camera/Pan-tilt Controller System

**System example**

**Key Products**

- AW-E350
- AW-PH300A
- AW-RP505
- AW-SW350

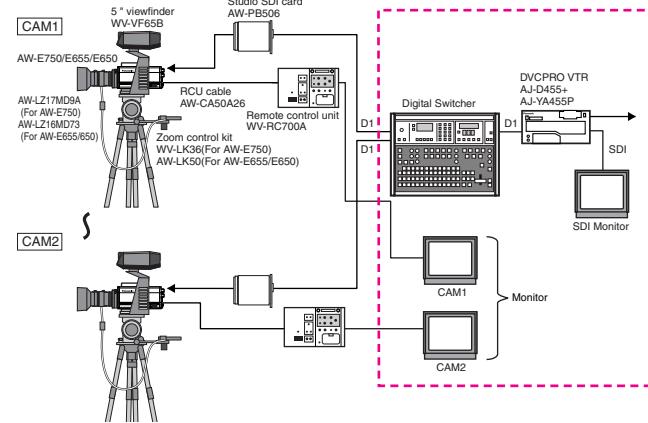
**Key Points**

- Compact size camera
- Compact size, quiet pan-tilt head
- Compact size controller
- Max. control distance : 500 m
- Compact live switcher

# a variety of shooting purposes

## High Performance Studio Camera

### System example



### Key Products

- AW-E750/E655/E650
- WV-VF65B
- WV-RC700A

### Key Points

- High quality camera
- 4.5" B/W Viewfinder
- Full function RCU
- Max. control distance : 300 m

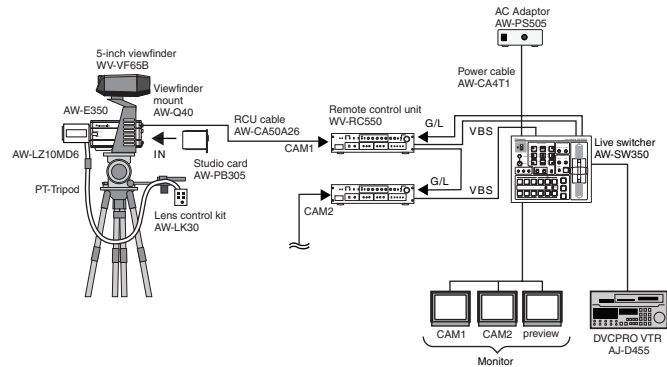
## For education video shooting

- School Studio
- Distance Learning



## Cost Effective Studio Camera

### System example



### Key Products

- AW-E350
- WV-VF65B
- WV-RC550
- AW-SW350

### Key Points

- C Mount lens camera
- 4.5" B/W Viewfinder
- Simple function RCU
- Max. control distance : 100 m
- Compact live switcher

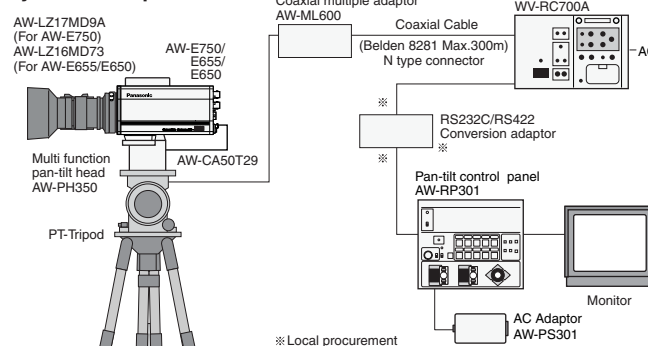
## For information gathering/event shooting

- Shopping Mall Event
- Weather Information camera
- Traffic Information Camera



## Single Coaxial Camera/Pan-tilt Control System

### System example



### Key Products

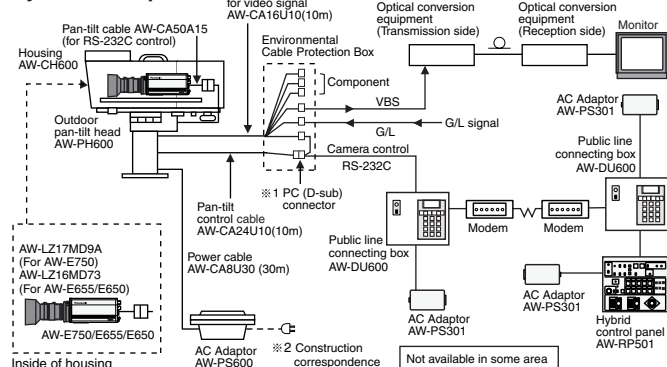
- AW-E750/E655/E650
- AW-PH350
- AW-ML600
- WV-RC700A/AW-RP301

### Key Points

- High quality camera
- Camera/pan-tilt control by single coaxial cable
- Camera/pan-tilt power from RCU
- Full function RCU
- Max. control distance : 300 m

## Outdoor Camera Pan-tilt Control Camera System

### System example



### Key Products

- AW-E750/E655/E650
- AW-PH600/AW-CH600
- AW-DU600
- AW-RP501

### Key Points

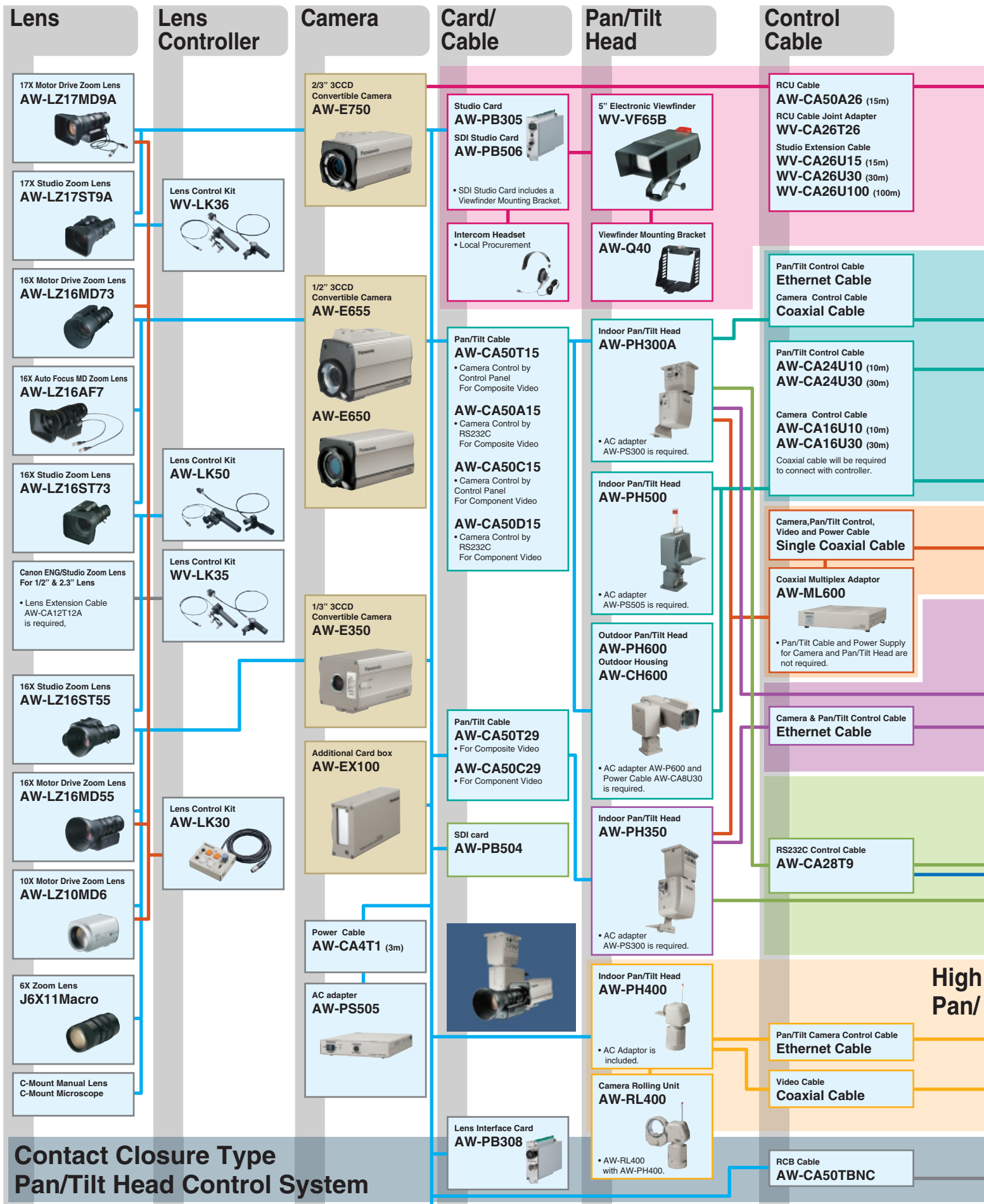
- High quality camera
- Remote control optical filter
- All weather type camera housing
- Camera/pan-tilt control through public telephone line

## For medical/research shooting

- Medical Operation Room
- Microphotography
- Graphic Camera



# Product configuration diagram



# Control Unit

# Switcher Converter

## Studio System



**Remote Control Unit WV-RC700A**  
Rack Mount Angle WV-Q70

**Remote Control Unit WV-RC550**

- Studio Card AW-PB301, AW-PB305 or AW-PB306 is required for WV-RC700A or WV-RC550.

**Intercom Headset**  
• Local Procurement

**Live Switcher AW-SW350**

- AC adapter AW-PS505 and power cable AW-CA4T1 are required.

## Simple Function Pan/Tilt Control System

**Pan/Tilt Control Panel AW-RP301**  
• For one pan/tilt head  
• AC adapter AW-PS301 is required.

**Multi Control Panel AW-RP305**  
• For five pan/tilt head  
• AC adapter AW-PS301 is required.

**Hybrid Control Panel AW-RP501**  
• For one camera and pan/tilt head  
• AC adapter AW-PS301 is required.

**Multi-Control Hub Unit AW-HB505**

- For max. five cameras and pan/tilt heads.
- AC adapter AW-PS505 is required.

**Multi-Hybrid Control Panel AW-RP505**

- For five cameras and pan/tilt heads
- AC adapter AW-PS301 is required.

**Pan/Tilt Control Panel AW-RP301**

- For one pan/tilt head
- AC adapter AW-PS301 is required.

**Hybrid Control Panel AW-RP501**

- For one camera and pan/tilt head
- AC adapter AW-PS301 is required.

**Signal Converter AW-EX500**

- AC adapter AW-PS505 and power cable AW-CA4T1 are required.

**Additional Card box AW-EX100**

**Remote Control Unit WV-RC700A**  
Rack Mount Angle WV-Q70

**RS422/232C Converter (Local Procurement)**

**Pan/Tilt Control Panel AW-RP301**  
• For one pan/tilt head  
• AC adapter AW-PS301 is required (For AW-PH300A only)

## Single Coaxial Multiplex Control System

**RS422/232C Converter (Local Procurement)**

**Multi-Function Control Panel AW-RP605A**  
• AC adapter AJ-B75 or AW-PS505 is required. Note: Confirm power capacity in AW-RP505.

**Additional Control Panel AW-RP615A**  
• AC adapter AW-PS505 is required.

**Additional Video Card AW-PB605A**

**SDI Card AW-PB304**  
**IEEE1394Card AW-PB310**  
**WEB Card AW-PB309**

**SDI Card AW-PB304\* AW-PB504\***

**IEEE1394Card AW-PB310**

**WEB Card AW-PB309**

\*AW-PB300 series and 500 series cannot be used at the same time.

## Multi-Function Pan/Tilt Control System

**Dial-up Adapter AW-DU600**  
(Public Telephone Line Connecting Box/RS232C Distribution Box)  
• AC adapter AW-PS301 is required.

**Modem**  
• Use an approved modem by factory. (Telephone Line)

**Modem**  
• Use an approved modem by factory.

**Dial-up Adapter AW-DU600**  
(Public Telephone Line Connecting Box/RS232C Distribution Box)  
• AC adapter AW-PS301 is required.

**Pan/Tilt Control Panel AW-RP301**  
• For one pan/tilt head  
• AC adapter AW-PS301 is required.

**Multi-Hybrid Control Panel AW-RP505**  
• For five cameras and pan/tilt heads  
• AC adapter AW-PS301 is required.

**Hybrid Control Panel AW-RP501**  
• For one camera and pan/tilt head  
• AC adapter AW-PS301 is required.

**RCB Cable AW-CA50T10**

**Remote Control Box WV-CB700A**

## Performance Tilt Control System

**Pan/Tilt Control Panel AW-RP400**  
• AC adapter AW-PS505 is required.

**Camera Control Unit AW-CB400**

**Cable Compensation Unit AW-RC400**  
• AC adapter AW-PS301 is required.

## Camera Control System

**PC Control Cable AW-CA50T9 (D-Sub 9Pin 10m)**

**RCB Cable AW-CA50T10 (5m)**  
**RCB Extension Cable AW-CA50B10**  
**RCB Extension Cable for AW-CA50B10 WV-CA10B25 (25m) WV-CA10B50 (50m)**

**Camera control cable AW-CA50T8 (10m)**

**Personal Computer**

**Camera Control Box WV-CB700A**  
• AC adapter AW-PS505 and power cable AW-CA4T1 are required for camera.

**Camera Control Unit AW-CB400**  
• AC adaptor AW-PS505 is required.

**Remote Control Box WV-CB550**  
• +DC12 V Power is required.

■Ratings (NTSC <PAL>)

	AW-E750	AE-E655	AW-E650	AW-E350
Image elements	2/3" IT type 3-CCD	1/2" IT type 3-CCD		1/3" IT type 3-CCD
Pixels	Total elements	Approx.410,000<470,000>		
	Effective elements	Approx.380,000<440,000>		
Imaging area	9.6 HX5.4 V (equivalent to 2/3")	6.4 HX4.8 V (equivalent to 1/2")		4.8 HX3.6 V (equivalent to 1/3")
Scanning System	2:1 interlaced NTSC system<2:1 interlaced PAL system>			
Scanning Frequency	Horizontal=15.734 kHz,Vertical=59.94 Hz<Horizontal=15.625 kHz,Vertical=50 Hz>			
Lens mount	2/3" Bayonet Mount	1/2" Bayonet Mount		1/3" C Mount *1
Optical Filter	None	1/16ND,1/64ND,3200 °K, IR Through	None	
Synchronize system	Internal/external synchronization			
Standard Illumination	2000 lx, F14			2000 lx, F9.5
Minimum Illumination	0.005 lx(F1.4)	0.00005 lx(F1.4)(2 sec.CCD charge accumulation)		0.015 lx(F1.4) 0.00015 lx(F1.4)*2
Signal-to-noise Ratio	67 dB(DNR on)<65 dB(DNR on)>			66 dB(DNR on) <63 dB(DNR on)>
Horizontal Resolution	850 lines			
Registration	0.05 %			
Image Enhancer	Horizontal/vertical			
White Balance	A/B 2 memory AWC,ATW			
Black Balance	Self-adjusting			
Color Bar	SMPT E color bar(setup 0/7.5IRE)<EBU colour bar>			
Shutter Speed	OFF,1/100<1/120>,1/250,1/500,1/1000,1/2000,1/4000,1/10000 Synchro-scan ELC			
Gain	Manual: max. 72dB (0 to 30 dB in steps, Night Eye/H, Digital Gain 0 to 30 dB in 6 dB steps) Auto: max. 42dB (AGC 0 to 30 dB, Night Eye/H)			
Iris	Auto (Manual by RCU control)			
Video Output	Composite:1 Vp-p/75 Ω (BNC, 50P connector) YC:Y 1 Vp-p,C 0.286Vp-p<0.3Vp-p>(50P connector) Component:Y 1.0Vp-p,Pr/Pb 0.7Vp-p, RGB 0.7Vp-p/75 Ω (50P connector)			
Power	DC 12 V			
Power Consumption	Approx.12.6 W	Approx.12 W	Approx.11.8 W	Approx.11.3 W
Operating Temperature	14 °F~113 °F(-10 °C~+45 °C)			
Weight	Approx.2.4 lbs (1.1 kg)	Approx.2.6 lbs (1.2 kg)	Approx.2.02 lbs (0.92 kg)	Approx.1.5 lbs (0.7 kg)
Dimensions	3-5/16" X 3-3/4" X 7-9/16" (84W X 95H X 192D mm)	3-5/16" X 4-1/2" X 7-3/16" (84W X 114H X 182D mm)	3-5/16" X 3-1/32" X 6-15/16" (84W X 77H X 177D mm)	3-5/16" X 3-1/32" X 6-1/8" (84W X 77H X 156D mm)

\*Note 1 = The lens should be within 4.3mm from the lens mount face. Otherwise, there is a risk of damaging the camera unit. Weight and dimensions shown are approximate.

\*Note 2 = 2 sec.CCD charge accumulation.

\*Features and Specifications are subject to change without notice.These products may be subjects to export regulations.

# Panasonic

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