

Panasonic
ideas for life

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

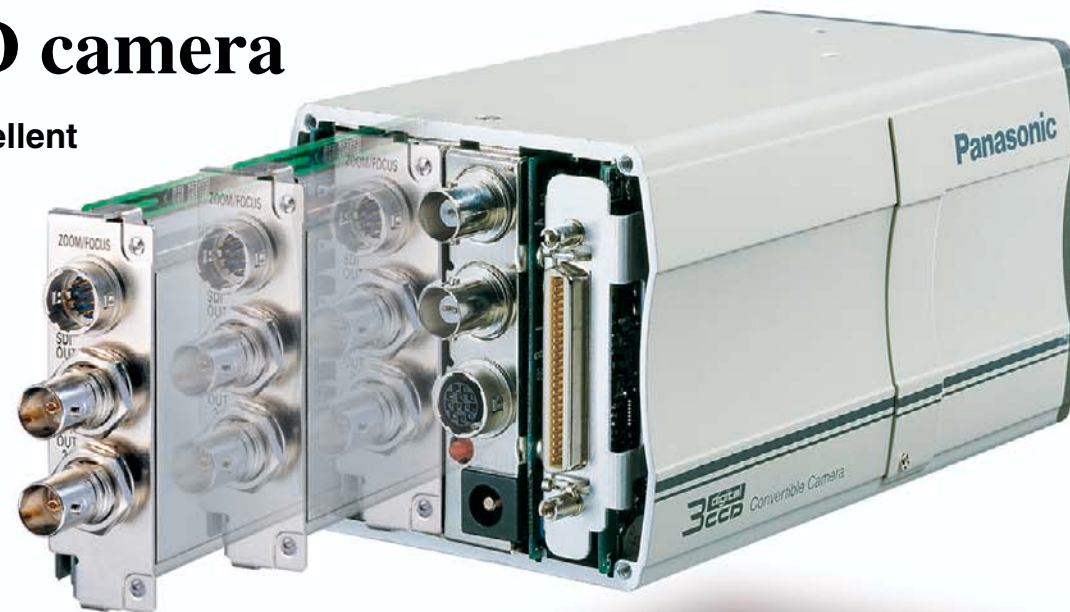


3CCD
Convertible
Camera systems

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 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

Studio Card
AW-PB305



- 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

Lens I/F Card
AW-PB308



- Connecting card for contact closure type pan-tilt head**
- With a fixed-type camera, zooming and focusing are possible.

Note:The lens control is not servo type control.

SDI Card
AW-PB504



- 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 contact closure type or the controller without pan-tilt head.

Note:The lens control is not servo type control.

SDI Studio Card
AW-PB506



- 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

Note:

*Option cards AW-PB304/306/307/309/310 can not be used for AW-E860/E750/E655/E650/E350.
*Option cards AW-PB301/302/303 are not required for AW-E860/E750/E655/E650/E350, because functions of these cards are included in AW-E860/E750/E655/E650/E350.

Additional Card Adaptor



- Maximum two feature cards can be inserted in the camera by using optional feature card box AW-EX100 with AW-E860/E750/E655/E650/E350.

2/3-INCH BAYONET MOUNT 16:9/4:3 switchable



AW-E860

- 2/3" 3-CCD high image quality
- Switchable 16:9/4:3 aspect ratios
- Horizontal resolution: 850 lines
- Signal to noise ratio: 65dB (DNR on) NTSC, 63 dB (DNR on) PAL
- High sensitivity: 2000lx, F11
- Minimum illumination: 0.4 lx, (F1.7, Night Eye H)
- Wide dynamic range: 600%
- Compact size, light weight and low power consumption

1/2-INCH BAYONET MOUNT Motor-driven optical filter



AW-E655

- 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.

1/3-INCH C-MOUNT



AW-E350

- 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

2/3-INCH BAYONET MOUNT



AW-E750

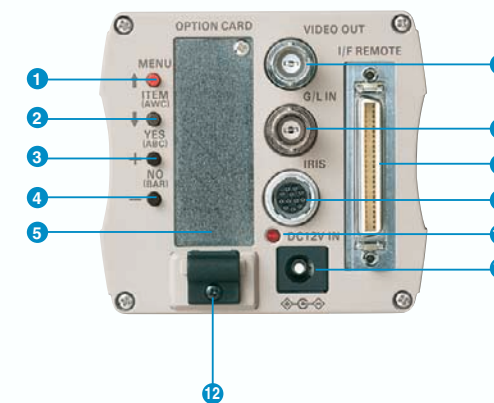
- 2/3" 3-CCD high image quality
- Horizontal resolution: 850 lines
- Signal to noise ratio: 67dB (DNR on) NTSC, 65 dB (DNR on) PAL
- High sensitivity: 2000lx, F14
- Minimum illumination: 0.005 lx, 0.00005 lx (2 seconds CCD charge accumulation)
- Wide dynamic range: 600%
- Compact size, light weight and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

1/2-INCH BAYONET MOUNT



AW-E650

- 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



- 1 MENU Button
- 2 ITEM/AWC Button
- 3 YES/ABC Button
- 4 NO/BAR Button
- 5 Option Card Slot
- 6 Video Output Connector
- 7 Genlock Input Connector
- 8 Iris Connector
- 9 Interface/Remote Connector
- 10 Power Indication LED
- 11 DC 12V Input Connector
- 12 Power Cable Clamp

A wide choice of camera/pan-tilt head for various application and installation

Four 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.

Indoor pan-tilt head

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

Indoor Pan-tilt Head AW-PH360



- Pan angle:300° Tilt angle:190°
- High performance: Quiet (Under NC30)
Pan speed:(30° /sec) / Tilt speed:(25° /sec)
Accuracy(+/-3minutes) (0.05 degrees)
- Smooth starts and stops with soft landing function
- 50 preset memories
- Maximum load:8.8lbs(4kg)
- Maximum control distance: 1,640ft(500m)(from AW-RP501/505/301/400)
3,280ft(1,000m)(from AW-RP605A)

● RS232C interface
*AW-PH360 requires AC adapter, AW-PS300A.

Power supply	12V DC
Power consumption	Approx. 36W (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	Pan-tilt cable, Tilt arm, Tilt arm mounting screw, Chain for dropping protection, Screws

AC Adapter AW-PS300A



Power	AC120V(P)/AC220V-240V(B/G)
Power Consumption	Approx.573W
Dimensions	8-1/4"(W)X2"(H)X10-13/16"(D) (210(W)X51(H)X275(D)mm)
Weight	Approx.4.8lbs(2.2kg)
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:33.1lbs(15kg)
- Maximum control distance:
1,640ft(500m) (from AW-RP501/505/301)
- RS-232C interface

*AW-PH500 requires AC adapter, AW-PS505A.

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-PS505A



*Refer to page10 for detail information.

High Performance Pan-tilt Head

High Performance Pan-tilt Head AW-PH400



- Pan range:400° Tilt range:190°
- Maximum pan/tilt speed:90° /sec(variable speed)
- Stop accuracy:Maximum 30 seconds (Approx.0.008 degrees)
- Noise: Under NC30(at 30° /sec)
- Maximum load:17.6lbs (8 kg)
- 10 tracing memories(Maximum time:600 seconds)
- RS-232C controllable (Through AW-RP400)
- Tally light available
- Maximum control distance:1,640ft(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 adapter(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)

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)

Outdoor pan-tilt head

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

Outdoor Pan-tilt Head AW-PH600



*AW-PH600 requires AC adapter AW-PS600.

Outdoor Camera Housing AW-CH600

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:22lbs(10kg)
- Maximum control distance:1,640ft(500m)(from AW-RP501/505/301)
- RS-232C interface

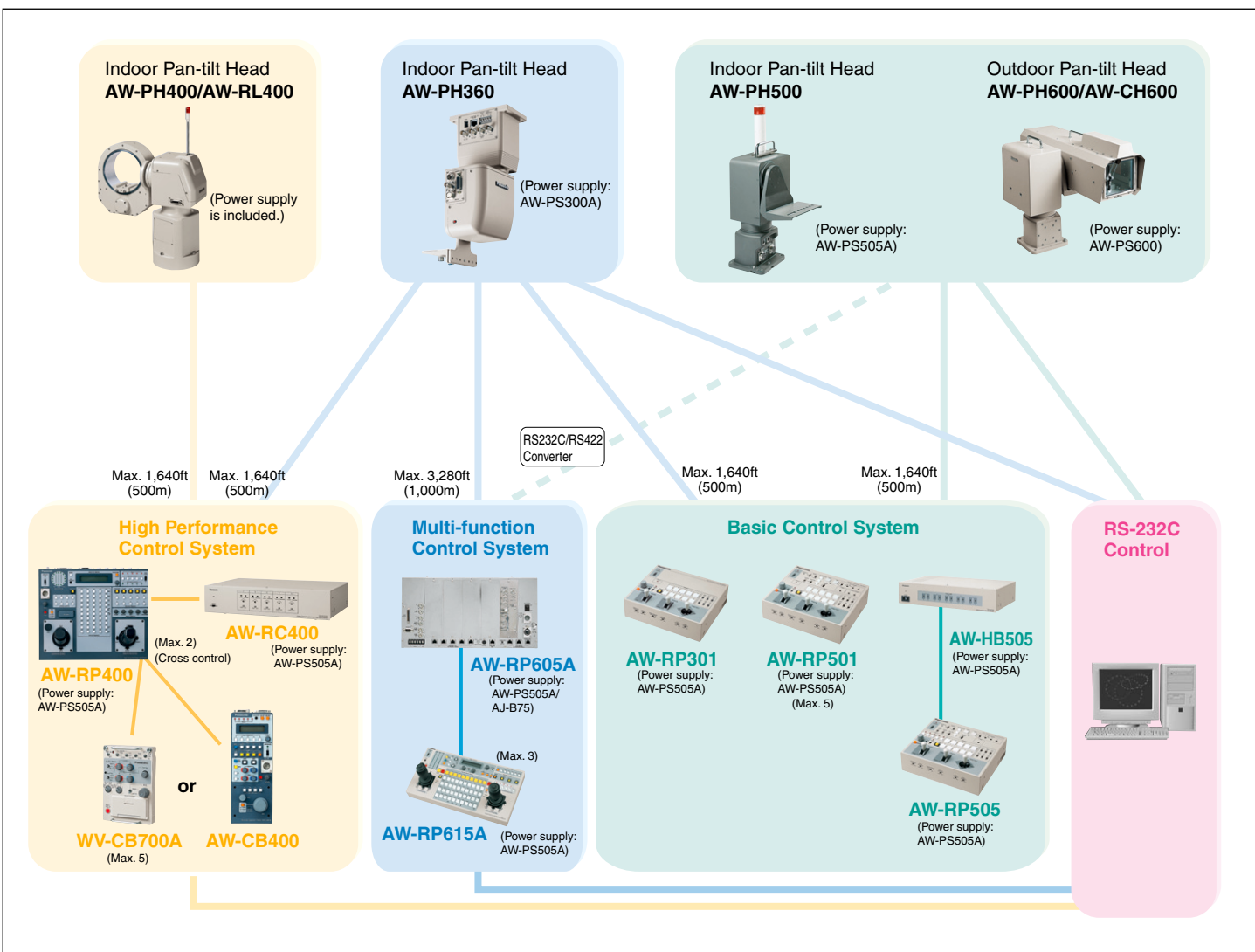
AW-PH600

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

Pan-tilt control system



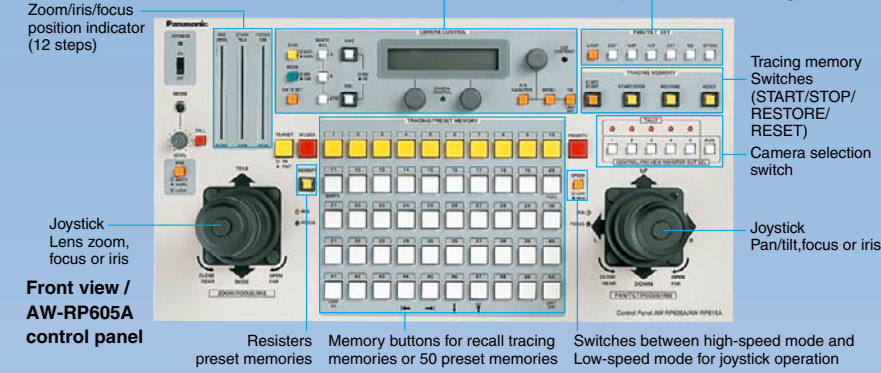
Multi-function control system with full camera control and smooth pan-tilt head control

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

- Five Pan-tilt Heads
- Zoom, Focus, Iris
- Three Control Panels
- Five Cameras

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 output
- Maximum distance from pan-tilt head to main unit of controller: 3,280ft(1,000m)
- Rack mount main connection panel unit with desk top controller

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

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.



Additional video board for AW-RP605A

AW-PB605A



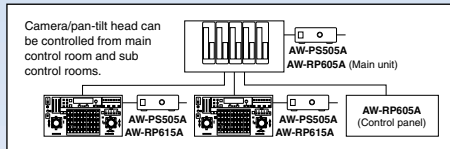
- Up to 4 video boards can be added to the AW-RP605A in addition to the standard accessory video board.
- Each camera requires one video board for video processing.

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)

Additional control panel

AW-RP615A

<System Example>



- 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: 3,280ft(1km)
- Note: This max. length is total length of each control panel combined with 10BASE-T straight cable.
- *AW-RP615A requires AC adapter, AW-PS505A.

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

Small size control panels for simple operation

Control Panels

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

Multi-hybrid Control Panel AW-RP505



Front view



Rear view

- 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 adapter, AW-PS505A.

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

Controls up to 5 camera pan-tilt systems.

Multi-port Hub

AW-HB505

For AW-RP505

*AW-HB505 requires AC adapter, AW-PS505A.



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 1,640ft(500m).

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

Hybrid Control Panel

AW-RP501



Front view



Rear view

- Controls one camera and one pan-tilt head.

*AW-RP501 requires AC adapter, AW-PS505A.

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



Front view



Rear view

- Controls one pan-tilt head.

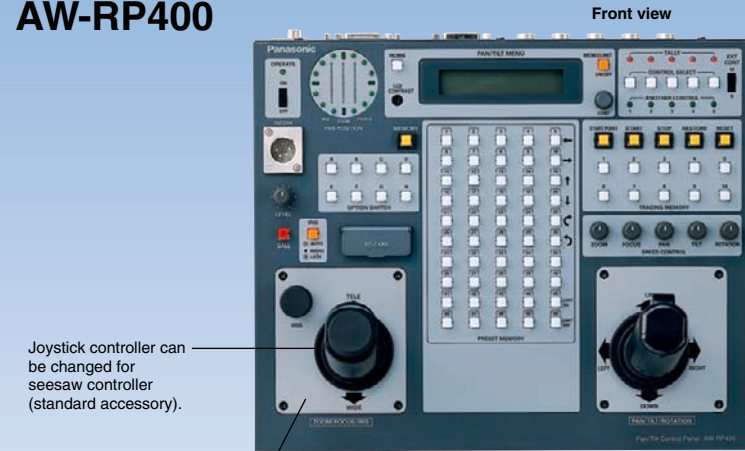
*Panasonic CCTV camera or the other company's camera is possible.

*AW-RP301 requires AC adapter, AW-PS505A.

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

High Performance Controller

Pan-tilt Controller AW-RP400



- 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 interface
- Maximum control distance:1,640ft(500m)
- Cross control by two controllers
- Camera control inputs(AW-CB400 or WV-CB700A)
- +DC12 V operation(AC adapter, AW-PS505A is required.)

Power	DC12 V
Power Consumption	Approx.13 W
Weight	Approx.8.4lbs(3.8kg)
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 Seesaw controller

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



Seesaw controller



Rear view

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 adapter 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 164ft(50m).
- Maximum control distance :984ft(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

Rear view



Remote Control Unit WV-RC550

Front view



Rear view



- 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 Adapter 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 control distance: 328ft(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, 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 164lbs(50m) 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

Camera Remote Control Unit AW-CB400



Rear view



Front view

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

*Power is supplied from AW-RP400. Power supply, AW-PS505A is required for controlling camera directly(Maximum control distance :3,280ft(100m)).

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 adapter AW-PS505A 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 Control System

AW-E860

2/3" Bayonet-mount Camera
16:9/4:3 Switchable



AW-E750

2/3" Bayonet-mount Camera



AW-E655

1/2" Bayonet-mount Camera
with motor-driven optical filter



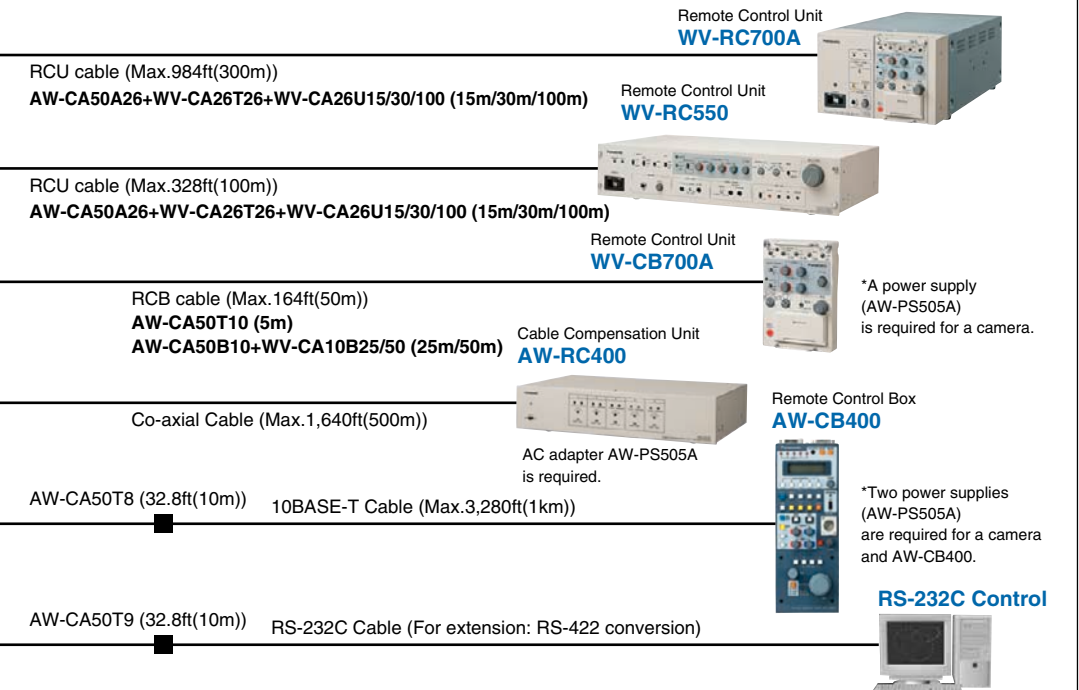
AW-E650

1/2" Bayonet-mount Camera



AW-E350

1/3" C-mount Camera



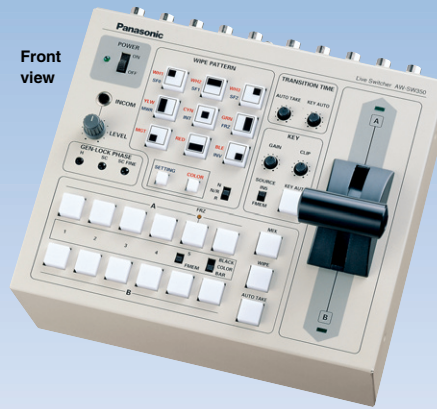
Switcher for live production of images

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.

5 inputs compact live switcher with 5 frame synchronizers

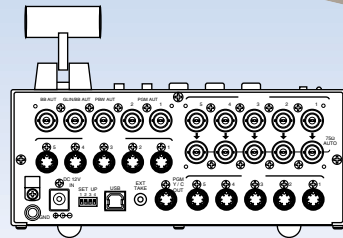
AW-SW350



- 5 inputs (composite and Y/C) 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 adapter AW-PS505A is 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

Rear view



Other Peripherals

Signal Converter AW-EX500



- 1 analog input (composite, Y/C, component) and SDI
- SDI output by option card
- An additional card adapter (AW-EX100) attachable
- Output: video (component, RGB, Y/C-D-sub connector)
- *An optional AC adapter (AW-PS505A)

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 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

AC Adapter AW-PS505A



- DC Cable included.
- For AW-HB505 convertible cameras, live switcher, AW-PH500, AW-RP505, AW-DU600 and more.

Power	AC120V(P)/AC220V-240V(B/G)
Power consumption	Approx. 76W
Dimensions	5-3/16"(W)X2"(H)X10-13/16"(D) (132(W)X51(H)X275(D)mm)
Weight	Approx. 3.5lbs(1.6 kg)
Accessories	Power DC cables (X3)

Public Telephone Line Connecting Adapter / RS232C Distribution Adapter AW-DU600

Enables remote control of camera and pan-tilt head



- AW-PS505A required.
- With use of a public telephone line, remote control of camera and pan-tilt head can be done through AW-RP501 series and PC.
- Up to 5 sets of camera and pan-tilt heads can be controlled with distribution function.
- Directly controllable pan-tilt and zoom/focus.
- * Not available in some areas.
- * Modem required.

5-inch Viewfinder WV-VF65B AW-VF80

- For AW-E860, 16:9/4:3 switchable



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

EVF Mounting Bracket AW-Q40

- For WV-VF65B/AW-VF80
- * AW-Q40 is not required for SDI studio card (AW-PB506).









Lenses / Cables

Cables list

Name	Number	Connection apparatus	Length	Note	
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 adapter	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
Pan-tilt cable (for pan-tilt control panel)	AW-CA50C15 AW-CA50D15	AW-E750 etc.	AW-PH600	0.4m	Control panel, Component & Composite signal RS-232C(PC), Component & Composite signal
RS-232C pan-tilt cable	AW-CA28T9	AW-PH360	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

Camera	Lens	Description	Focal length (Max. aperture)	Picture	
AW-E350	AW-LZ10MD6	10X MD Zoom Lens	6-60mm (F1.6)	 (AW-LZ10MD6)	
	AW-LZ16MD55	16X MD Zoom Lens	5.5-88mm (F1.4)		
	AW-LZ16ST55	16X Studio Zoom Lens	5.5-88mm (F1.4-1.8)		
AW-E650 AW-E655	AW-LZ16AF7	16X Auto Focus MD Lens	7-122mm (F1.9-2.0)	 (AW-LZ16MD55)  (AW-LZ16AF7)  (AW-LZ16MD73)  (AW-LZ17MD9A)	
	<ul style="list-style-type: none"> ● Work saving by automatic focusing from wide angle to zoom up image (Application example: Parking lot, Dam/river watching, Airport watching, Race track, Harbor surveillance, etc.) ● Work saving for camera operators in operation of several cameras by one man operator (Application example: Parliament, Distance learning, Religious production, Shopping mall surveillance, etc.) 				
	<The Image of Auto Focus operation> 				
	AW-LZ16MD73	16X MD Zoom Lens	7.3-117mm (F1.9-2.3)		
	AW-LZ17ST66	17X Studio Zoom Lens	6.6-114mm (F1.5-1.9)		
	AW-E750 AW-E860	AW-LZ17MD9A	17X MD Zoom Lens		9-153mm (F1.9-2.6)
		AW-LZ17ST9A	17X Studio Zoom Lens		9-153mm (F1.9-2.6)

Control Kits

Control Kit AW-LK30

For MD (Motor Drive)
Lenses
Cable Length : 190 cm



Zoom Control Kit WV-LK36

For Studio Zoom
Lens AW-LZ17ST9A
AW-LZ17ST66



Lens Control Kit
WV-LK35
For Canon Zoom Lens

Lens Control Kit AW-LK50

For Studio
Zoom Lens
AW-LZ16ST55



Excellent system expandability accommodates a variety of shooting purposes

High Performance Camera/Pan-tilt Control

System example
 AW-LZ17MD9A (For AW-E860/E750)
 AW-LZ16MD73 (For AW-E655/E650)

Key Products
 AW-E860/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 : 1,640ft(500m)

Simple Camera/Pan-tilt Control

System example
 AW-LZ17MD9A (For AW-E860/E750)
 AW-LZ16MD73 (For AW-E655/E650)

Key Products
 AW-E860/E750/E655/E650
 AW-PH360
 AW-RP501

Key Points
 ● High quality camera
 ● Compact size, quiet pan-tilt head
 ● Compact size controller
 ● Max. control distance : 1,640ft(500m)

High Performance Studio Camera

System example

Key Products
 AW-E860/E750/E655/E650
 WV-VF65B/AW-VF80
 WV-RC700A

Key Points
 ● High quality camera
 ● 4.5" B/W Viewfinder
 ● Full function RCU
 ● Max. control distance : 984ft(300m)

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 : 328ft(100m)
 ● Compact live switcher

Multi-Function Camera/Pan-tilt Control System

System example

Key Products
 AW-E860/E750/E655/E650
 AW-PH360
 AW-RP605A

Key Points
 ● High quality camera
 ● Quiet/accurate camera/pan-tilt head
 ● Multi-Function Control
 ● Max. control distance : 3,280ft(1,000m)

For video recording studio and field production

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



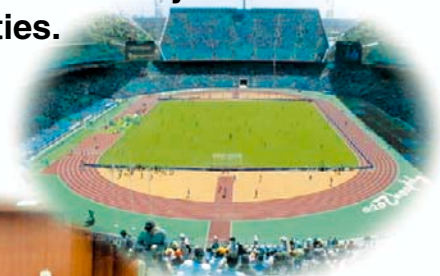
For information gathering/event shooting

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



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-PH360
 AW-RP505
 AW-SW350

Key Points
 ● Compact size camera
 ● Compact size, quiet pan-tilt head
 ● Compact size controller (Max.five camera / Pan-tilt Control)
 ● Max. control distance : 1,640ft(500m)
 ● Compact live switcher

Single Coaxial Camera/Pan-tilt Control System

System example

Key Products
 AW-E655/E650
 AW-PH360
 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 : 984ft(300m)

Outdoor Camera Pan-tilt Control Camera System

System example

Key Products
 AW-E860/E750/E655/E650
 AW-PH600/AW-CH600
 AW-DU600
 AW-RP501

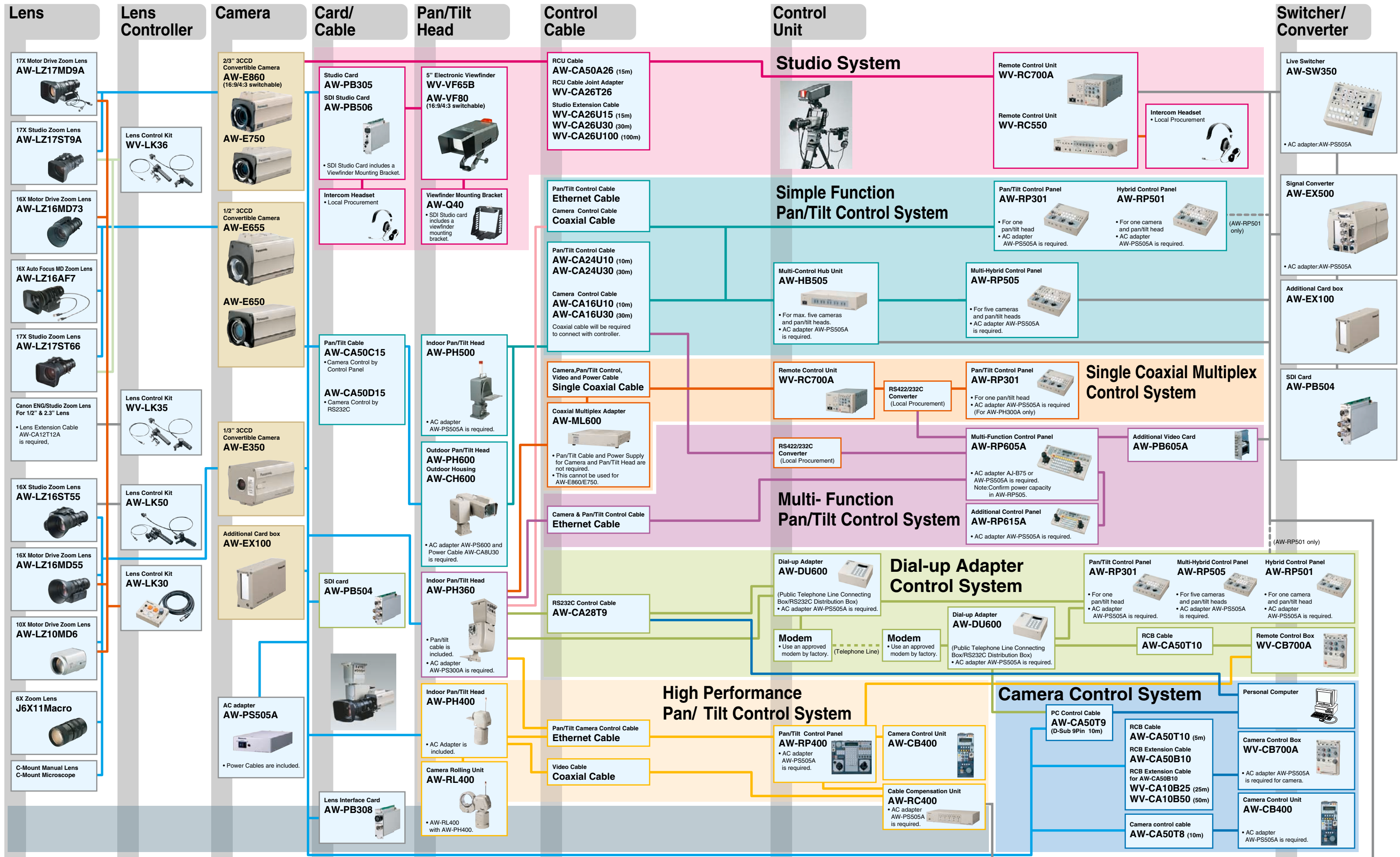
Key Points
 ● High quality camera
 ● Remote control optical filter (AW-E655)
 ● All weather type camera housing
 ● Camera/pan-tilt control through public telephone line

For medical/research shooting

- Medical Operation Room
- Microphotography
- Graphic Camera



Product configuration diagram



■Ratings (NTSC <PAL>)

	AW-E860	AW-E750	AW-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. 510,000 <595,728>		Approx. 410,000 <470,000>	
	Effective elements	Approx. 460,000 <538,200>		Approx. 380,000 <440,000>	
Imaging area	8.8HX6.6V(mm) (2/3" 4:3) 9.6HX5.4V(mm) (2/3" 16:9)	9.6HX5.4V(mm) (equivalent to 2/3")	6.4HX4.8V(mm) (equivalent to 1/2")		4.8HX3.6V(mm) (equivalent to 1/3")
Scanning System	2:1 interlaced NTSC system < 2:1 interlaced PAL system >				
Scanning Frequency	Horizontal=15.734kHz, Vertical=59.94Hz < Horizontal=15.625kHz, Vertical=50Hz >				
Lens mount	2/3" Bayonet Mount		1/2" Bayonet Mount		1/3" C Mount
Optical Filter	None		1/16ND, 1/64ND, 3200K, IR Through	None	
Synchronize system	Internal/external synchronization				
Standard Illumination	2000lx, F11	2000lx, F14			2000lx, F9.5
Minimum Illumination	0.4 lx (F1.7, Night Eye H)	0.005lx (F1.4) 0.00005lx (F1.4) (2sec. CCD accumulation)			0.015lx (F1.4) 0.00015lx (F1.4) *2
Signal-to-noise Ratio	65dB (DNR on) <63dB (DNR on)>	67dB (DNR on) <65dB (DNR on)>			65dB (DNR on) <63dB (DNR on)>
Horizontal Resolution	850lines				
Registration	0.05%				
Image Enhancer	Horizontal/vertical				
White Balance	A/B 2 memory AWC, ATW				
Black Balance	Self-adjusting				
Color Bar	SMPTC 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. 42dB (0~30dB in steps, Night Eye H/L) Auto: max. 42dB (AGC 0~30dB, Night Eye/H)	Manual: max. 72dB (0~30dB in steps, Night Eye/H, Digital Gain 0~30dB in 6dB steps) Auto: max. 42dB (AGC 0~30dB, Night Eye/H)			
Iris	Auto (Manual by RCU control)				
Video Output	Composite: 1 Vp-p/75Ω (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/75Ω (50P connector)				
Power	DC 12V				
Power Consumption	Approx. 15.4W	Approx. 12.6W	Approx. 12W	Approx. 11.8W	Approx. 11.3W
Operating Temperature	14°F ~ 113°F (-10°C ~ +45°C)				
Weight	Approx. 2.5lbs (1.15kg)	Approx. 2.4lbs (1.1kg)	Approx. 2.6lbs (1.2kg)	Approx. 2.02lbs (0.92kg)	Approx. 1.5lbs (0.7kg)
Dimensions	3-5/16" X 3-3/4" X 7-9/16" (84W X 95H X 192D mm)	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.

*Note 2 = 2 sec. CCD charge accumulation.

*Weight and dimensions shown are approximate.

*Features and Specifications are subject to change without notice.

*These products may be subjects to export regulations.

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