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AW-E300/AW-E600

1/3-inch and 1/2-inch CCD 'Convertible' Cameras



The AW-E300 and AW-E600 are DSP "convertible"color cameras — the industry's first cameras to incorporate Panasonic's exclusive "open slot architecture". Representing a breakthrough in DSP technology, the open slot architecture permits the use of various "plug and shoot" feature cards, allowing you to select only those functions appropriate for your application. With a host of customized cards to choose from, a single camera can be used for a variety of production purposes, while at the same time dramatically reducing cost and providing a hedge against obsolescence. With 10-bit DSP, the AW-E300 offers the best performance of any camera in its class– 800 lines of resolution, 63 dB S/N ratio, sensitivity of F8 at 2000 lux and 2.5 lux minimum illumination. The AW-E600 offers 850 lines of resolution, 65 dB S/N ratio (DNR on), sensitivity of F11 at 2000 lux and 0.25 lux (quarter of a lux) minimum illumination. and improved vertical smear of -115 dB.

The AW-E300 and AW-E600 put the power of full-sized DSP cameras in remarkably small, multi-purpose packages. With virtually no performance compromises made, they are well suited for many applications. These include classroom, courtroom, traffic monitoring, high end surveillance, indoor sports, studio point of view, high-quality graphics, video-

FEATURES

Four selectable operating modes of operation to suit a wide range of shooting situations. Each of the modes has a main menu, and each item of the main menu has a submenu which consists of several settings. Settings have been preset to the optimum values to suit each mode and can be changed from the camera or RCU to suit actual conditions.

Halogen Lighting Mode — For indoor shooting under halogen lights (weddings, parties, lectures, meetings, etc.)

Outdoor Mode — For shooting outdoors

Fluorescent Lighting Mode — For indoor shooting under fluorescent lighting

User Mode — Allows you to set camera functions by using a detailed menu

Main Menu and Sub-Menu of Halogen, Fluorescent and Outdoor Modes

BRIGHTNESS SET	COLOR SET	G/L. COLOR BAR SET	SHARPNESS SET	OTHER SET
Picture Level	Chroma Level	H Phase	DTL Select	Shutter Speed
Light PEAK/AVG	Flesh Tone	SC Coarse	Level	Synchro Scan
Light Area	White Balance	SC Fine	Noise Suppress	V Resolution
Auto ND (ELC)	Highlight Chroma	Color Bar Set	Clean DNR	Baud Rate
Auto Gain Up			DTL Flesh Tone	Neg/Pos
Manual Gain Up				
Pedestal				
Contrast (Gamma)				

Sub-Menu Adjustments for AW-E300/AW-600's Halogen, Fluorescent and Outdoor Modes

Brightness Set

- Picture level or video level adjustment: Convergence level of Auto Iris/AGC/ELC can be adjusted (-50 to +50)
- Light PEAK/AVG: The ratio of Auto Iris/AGC/ ELC detected peak to average can be adjusted with a predetermined average (P50 –A50)
- Light Area: Photometric measurement method can be selected for Auto Iris/AGC/ELC. Detect light masked five different ways:

All – the whole screen area is measured

Center – the screen is measured in the center area

Top Cut – about one-third of the top part of the screen is excluded from measurement

Bottom Cut – about one-third of the bottom portion of the screen is excluded from measurement

Right/Left Cut – about one-third of both the right and left portions of the screen are excluded from measurement

- Auto Gain Up: Three settings for automatic Gain-Up control. Low (up to +18dB), High (up to +30dB) and Off.
- Manual Gain Up: Select up +30 dB gain in 1dB increments
- Pedestal: Black level of the luminance signal can be set (-30 to +30) – used in adjusting the black levels of two or more cameras
- Contrast (Gamma): Increasing gamma increases overall contrast, decreasing gamma stretches blacks and improves low light performance – gamma can be adjusted to any of three levels

Color Set

- Chroma Level: Can be increased or decreased to any of three levels each
- Skin Tone (Flesh Tone): Skin color can be increased or decreased to any of three levels each
- White Balance Settings: ATW, AWC A, AWC B, P Set 3200K, P Set 5600K

– Auto Tracing White Balance (ATW): White balance is continuously adjusted — ideal for unattended applications

– White Balance setting can be selected from one of two memories (AWC A, AWC B), fine adjustment of white balance can be made after AWC by R/B Gain via the Painting function

– P Set 3200K: WB is adjusted to 3200K

– P Set 5600K: WB is adjusted 5600K

- Highlight Chroma Setting: At low or high, the color dynamic range widens to prevent highlighted white portions from suppression.

G/L Color Bar Set

- Horizontal Phase Adjustment: H. Phase can be adjusted (-206 to +49) when a genlock signal is supplied
- Sub Carrier Phase Coarse Adjustment: Coarse adjustment (1, 2, 3, 4) of SC Phase can be made when a genlock signal is supplied
- Sub Carrier Fine Phase Adjustment: Fine adjustment (-511 to +511) of SC Phase can be made when a genlock signal is supplied
- Detail Level Setting (Low/High/Off) creates a clear picture with very fine detail in accordance with formats: 3/4″ or VHS are set at low, S-VHS/Betacam are set at high
- Color Bar Setup: Color Bars can be adjusted for 0 IRE or 7.5 IRE

Sharpness Set

- Detail Select Setting (Sharpness/Super Hard): If contour correction is not sufficient at the Sharpness position when Detail level setting is set to Low or High, select the Super Hard position.
- Noise Suppress Level Setting (Low/High/Off) reduces screen noise
- Clean DNR (Low/High/Off)
- Detail Flesh Tone Level Settings: Low (skin color coarseness is suppressed), Mid (standard), High (skin color is emphasized)

Other Set

- Electronic Shutter modes (Step, ELC, Synchro Scan):

– 7-Speed Selectable: 1/100,1/250, 1/500 1/1000, 1/2000, 1/4000 and 1/10,000 of a second

– Synchro Scan: For shooting computer monitors without vertical scan lines. Shutter speeds adjustable in 1H steps up to 1/253.2 of a second

– Auto ND (ELC-Electric Light Control): Shutter speed is automatically controlled to regulate picture level (luminance). Use for applications with a fixed iris lens or a lens without an iris, like a microscope. On/Off selectable

- Vertical Resolution (Normal/Fine):

– Normal: CCD storage will be by field storage (normal image)

– Fine: Vertical resolution is increased by using frame storage and 1/60 second shutter speed

- Baud Rate: Select a communication speed in controlling the camera from the computer (1200/ 2400/4800/9600 bps)
- Negative/Positive: Select if you want image shown as a normal positive, or reversed in darkness and color (negative)



Rear view

AW-E300/AW-E600

The AW-E300 and AW-E600 can be used with or without feature cards. Currently there are several cards available, with many more on the way.

AW-PB301 Combo Studio/RGB Card: Combines both RGB and Studio functions

AW-PB302 RGB Card: Outputs RGB, component, composite, S-Video and sync

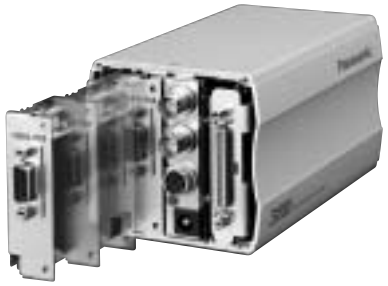
AW-PB303 High Sensitivity Card: Minimum illumination (Still mode) of .0025 lux

AW-PB304 SDI Card: Output SMPTE 259M D-1 signals

AW-PB305 Studio Card: For use with 5″ viewfinder. Includes RCU capability, intercom input/output and tally output. Offers composite and S-Video output

Future cards include:
• IEEE1394 card • Scan Converter Card • Time/Date and Title Card •PC Scan Card

The camera's studio feature card can be connected to current RCU units (WV-RC550 and RC700A), as well as Panasonic's new AWP-PH300 Pan/Tilt system, which uses a CCU-controlled Multiplex Hybrid Control Panel to control up to five cameras with pan/tilt, camera and lens control. Many other feature cards are under development to facilitate versatile production uses of the AW-E300/AW-E600. Various "convertible" feature cards will allow a wide range of professional uses from the same camera.





Feature Cards

Specifications	AW-E300	AW-E600
Imaging Elements	1/3″ IT type 3-CCD System (410,000 pixels)	1/2″ IT type 3-CCD System (410,000 pixels)
Lens Mount	1/3″ C Mount	1/2″ Standard Bayonet mount
Standard Brightness	2000 lux at F8	2000 lux at F11
Minimum Brightness	1.5 lux (F1.4 night eye mode)	0.25 lux (F1.4 night eye HIGH-mode)
S/N	63 dB (DNR On)	65 dB (DNR On)
Horizontal Resolution	800 Lines (High Band DTL On)	850 Lines (High Band DTL On)
Color Bar	SMPTE color bar (0/7.5% IRE)	
White Balance	Self adjust A/B 2-memory, manual fine adjust, ATW, 3200K, 5600K.	
Shutter Speed	OFF, 1/100, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/10000, synchro-scan ELC: Variable target level	
Gain	AGC Low/High, 0dB-30dB night eye	
Iris	Auto (manual control is only possible when using RCU or control panel)	
Video Output	Composite (BNC) and S-Video (50-Pin D-Sub Connector)	

Optional Lenses for AW-E300/AW-E600









1/3-inch Lenses for AW-E300

Fujinon AW-LZ14MD55: 14:1 Motorized (zoom, focus and iris) lens

Fujinon AW-LZ14ST55: 14:1 Servo zoom lens (for studio use)

Fujinon AW-LZ10MD6: 10:1 Motorized (zoom, focus and iris) wide angle lens

Canon TZ1705SSB/P: 17:1 Motorized (zoom, focus and iris) lens

**Motorized zoom lenses are for use with AW-PH300 Pan/Tilt system*

1/2-inch Lenses for AW-E600

Canon AW-LZ14ST73: 14:1 Servo zoom lens (for studio use)

Fujinon S14x7.5BRM4: 14:1 Servo zoom lens (for studio use)

Canon YH18x6.7BKRS: 18:1 Servo zoom lens (for studio use)

Fujinon S19x6.5BRM4: 19:1 Servo zoom lens (for studio use)

Canon YH18x6.7KTS: 18:1 Motorized (zoom, focus and iris) lens

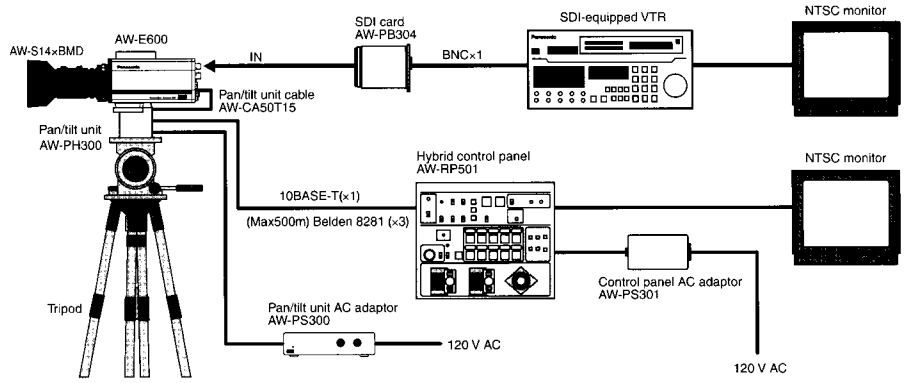
Fujinon S19x6.5BMD: 19:1 Motorized (zoom, focus and iris) lens

Sample AW-E300/AW-E600 Configurations

Broadcast D1 Output for CS/CATV Stations

- AW-E600 Camera body x1
- AW-S14xBMD 14x Zoom Lens x1
- AW-PH300 Indoor Pan/Tilt Unit x1
- AW-RP501 Hybrid control panel x1
- AW-CA50T15 Pan/Tilt Unit cable ..x1
- NTSC Video Monitor x2
- SDI Equipped VCR.....x1
- AW-PS300 AC adapter f/pan/tilt x1
- AW-PS301 AC adapter f/AW-RP501 x1
- AW-PB304 SDI Card x1

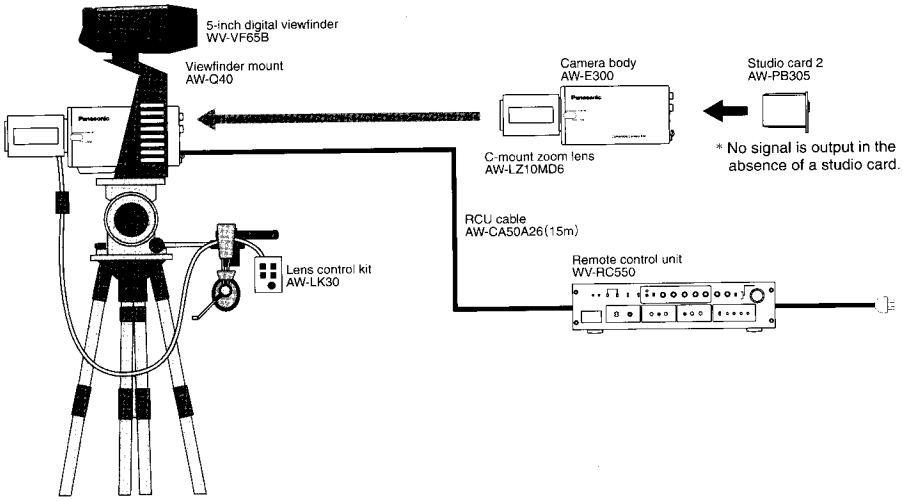
Inserting an SDI card allows connection to digital equipment without loss of image quality. Ideal for one-person studios for CATV stations and businesses that require high picture quality.



Simple Cost-Effective System for Studios

- AW-E300 Camera body.....x1
- AW-LZ10MD6 Zoom Lens..... x1
- AW-PB305Studio Card x1
- WV-RC550 Remote Control Unit ..x1
- WV-FVF65B 5" Studio Viewfinder x1
- AW-Q40 Viewfinder Mount x1
- AW-LK30 Lens Control Kit x1
- AW-CA50A26 RCU Cable x1

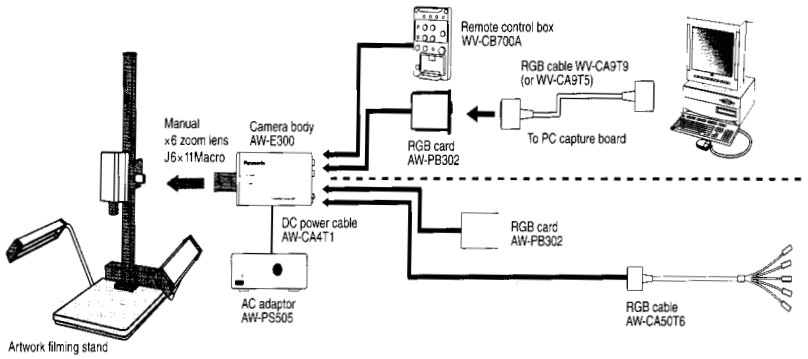
Inserting the AW-PB305 Studio Card creates a compact and simple-to-use studio camera.



For Graphic Work With Both PC and RGB Output

- AW-E300 Camera body x1
- Manual Macro Zoom Lens x1
- AW-PS505 AC adapter x1
- AW-PB302 RGB Card x1
- AW-CA50T6 RGB Cable x1
- AW-CA4T1 DC power cable x1

Inserting the AW-PB302 RGB Card allows shooting while the camera is mounted on a copy stand. It can be used for reading in text graphics, and for image processing input. The RGB card is compatible with both output to PCs and RGB output.



AW-E300/AW-E600

Accessories for AW-E300/AW-E600

Power Cable

AW-CAT41: 3 meter power cable from AW-PS505 or AG-B640 AC Adapters

RCU Cables

VW-CA50A26: 50-ft. 50-pin to 26-pin studio (multicore) cable. For use with RCU (WV-RC700A or RC550) to AW-E300/E600
WV-CA26U15: 15 meter 26-pin to 26-pin multicore cable used for extension of AW-E300/E600 from RCU (Requires WV-CA26T26 cable joint adapter).
WV-CA26U30: 30 meter 26-pin to 26-pin multicore cable
WV-CA26U100: 100 meter 26-pin to 26-pin multicore cable

RCB Cables

WV-CA50T10: 10´ 50-pin to 10-pin RCB cable.
For use with RCB (WV-CB700A) to AW-E300/E600
WV-CA10B02: 2 meter 10-pin to 10-pin RCB cable used for extension of AW-E300/E600 from WV-CB700A.
WV-CA10B25: 25 meter 10-pin to 10-pin RCB cable
WV-CA10B50: 50 meter 10-pin to 10-pin RCB cable

RS-232 Cables

AWCA50T9: 3 meter 50-pin to 9-pin serial cable for computer control of AW-E300/E600
AWCA28T9: 3 meter 28-pin to 9-pin serial cable for computer control of AW-PH300 Pan/Tilt Head
AWCA50A15: 50-pin to 15-pin CCU cable. Combines Pan/Tilt and CCU control (AWCA28T9 cable is also required)

Pan/Tilt Cable

AW-CA50T15: 0.5m 50-pin to 15-pin cable for use with AW-PH300 Pan/Tilt Head to AW-E300/E600

RGB Cables

AW-CA50T6: 5 meter 50-pin to RGB breakout cable (5 BNC and S-Video) for connection to RGB monitor or projector from the AW-E300/E600.
WV-CA9T9: 9-pin to 9-pin video/RGB output cable
WV-CA9T5: 9-pin to 5 BNC video/RGB output cable

Studio Viewfinder

WV-F65B: 5-inch Studio Viewfinder
AW-Q40: Viewfinder bracket for WV-F65B



Lens Control Kits

WV-LK35: Rear zoom/focus control kit for Canon 1/2-inch lenses
WV-LK36: Rear zoom/focus control kit for Fujinon 1/2-inch lenses
WV-LK50: Rear zoom/focus control kit for Fujinon 1/3-inch lenses
WV-LK30: Hand-held lens control kit for Fujinon motorized zoom lenses (AW-LZ10MD6, AW-S14 X BMD, S19-6.5BMD)



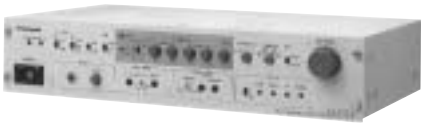


Multicore Cable Control Systems with WV-RC700A or WV-RC550 RCUs



WV-RC700A

Using the WV-RC700A or WV-RC550 Remote Control Units with 26-pin multicore cables allows remote camera control up to a distance of 1000 feet. (Full function with component video output with the WV-RC700A.) The WV-CB700A (not shown) is a compact size RCB (remote control box) that can control the camera head directly or through the WV-RC700A.



WV-RC550

AW-S300: Basic Studio Kit for AW-E300

- AW-LZ10MD6 10:1 Motorized Wide Angle Lens
- WV-LK30 Lens Control Kit
- WV-RC550 RCU • AW-CA50A26 Cable
- W-PB305 Studio Card
- WV-VF65B 5˝ Viewfinder • AW-Q40 Viewfinder Bracket

AW-S301: Studio Kit for AW-E300

- AW-LZ14ST55 14:1 Servo Zoom
- WV-LK50 Zoom Focus Controller
- WV-CA12T12A 12-Pin Lens Control Cable Extension
- WV-RC550 RCU • AW-CA50A26 Cable
- W-PB305 Studio Card
- WV-VF65B 5˝ Viewfinder • AW-Q40 Viewfinder Bracket

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