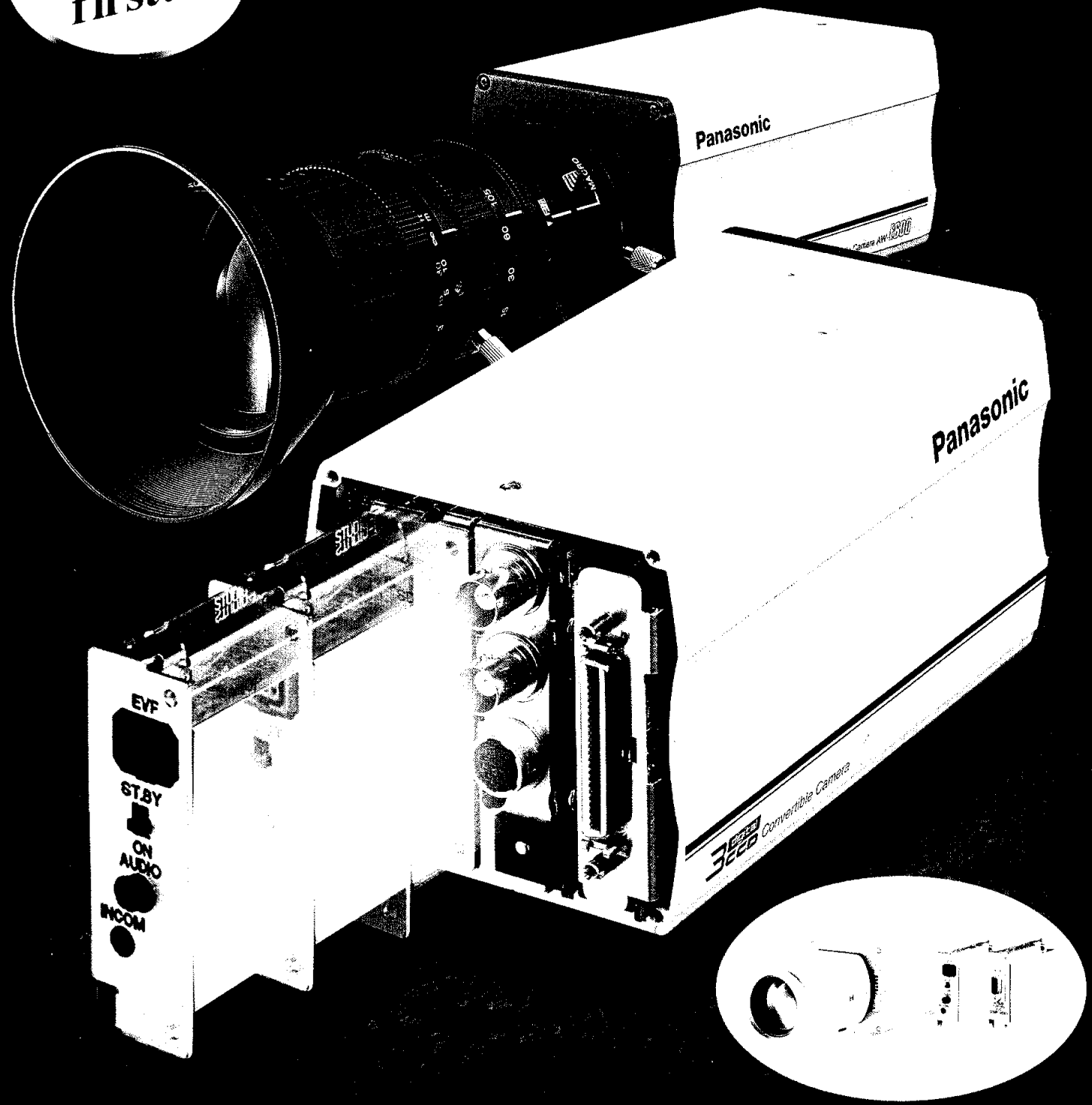
Panasonic®

3-CCD Convertible Color Camera

AW-E300
AW-E600

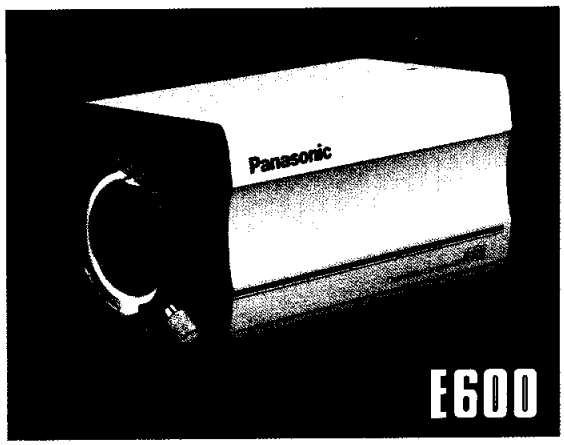
Industry first!



Camera that can be converted for multiple applications by inserting various "Feature cards".

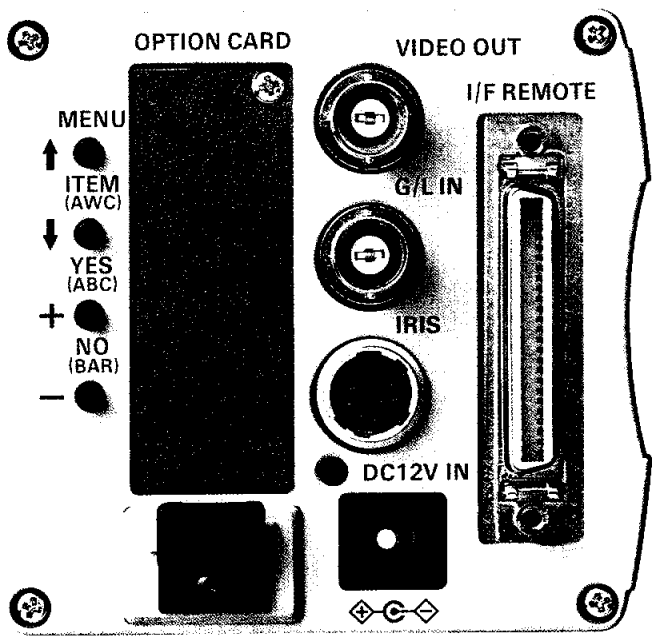
World's first - New expandable-function compact camera

Panasonic's first convertible camera brings a more customer oriented approach to the Professional Video market by allowing you to choose only the major features your applications demand while drastically reducing cost.

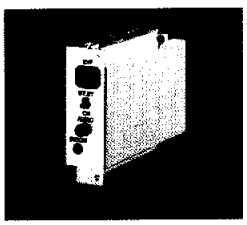


Employs an individual feature card system. Compatible with a wide range of uses.

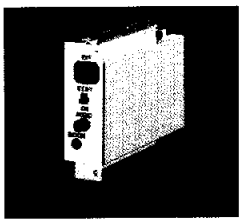
Feature cards can inserted in the unique option slots.A single camera can be used for a variety of production purposs.By including only the functions required,ease of operation is enhanced.



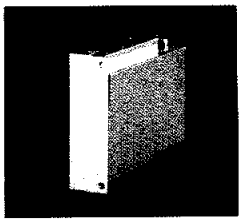
A wide range of cards is available, including SDI or studio cards, and high-sensitivity cards for filming in dark locations. This system also enables easy expansion for future conversion to digital use.



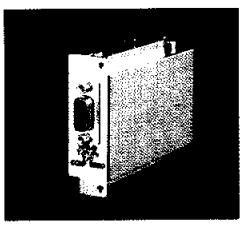
Studio card 1
AW-PB301
- Output:RGB,Y/Pr/Pb, (Y/C, VBS)
- 5-inch EVF and intercom Input/output, tally output compatible



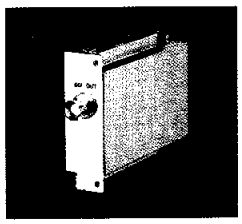
Studio card 2
AW-PB305
- Output: (Y/C, VBS)
- 5-inch EVF and intercom Input/output, tally output compatible



High-sensitivity card
AW-PB303
- Field accumulation: Max. 2 sec.
- Minimum Illumination
  AW-E600/Pseudo video: 0.0025 lx
  AW-E300/Standard video: 0.015 lx



RGB card
AW-PB302
- Output: RGB, SYNC, Y/Pr/Pb (Y/C, VBS)



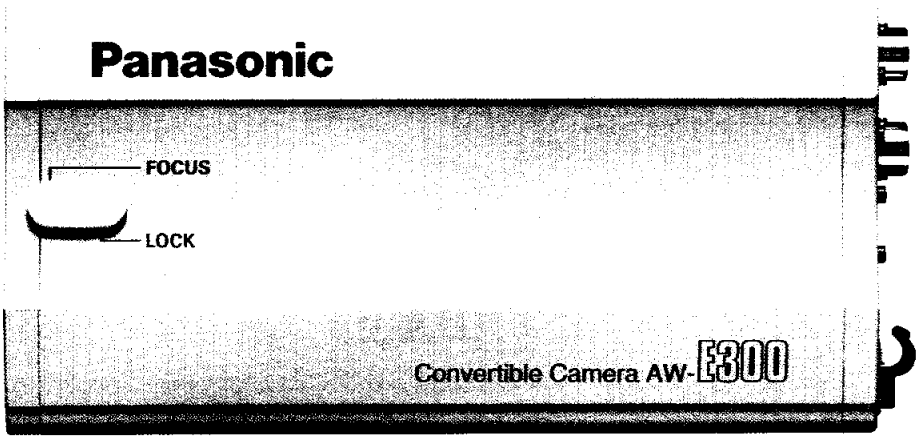
SDI card
AW-PB304
- Output: D-1,(Y/C, VBS) (SMPTE259M[4:2:2 SDI])

✣ (Y/C, VBS)from camera body

Compact, yet provides high resolution for professional high-end

Use of a 10-bit DSP gives high specifications with improved horizontal resolution, S/N, and minimum brightness. The unique board-to-board high-density design results in an outstandingly compact and lightweight camera that can be easily ceiling- or wall-mounted.

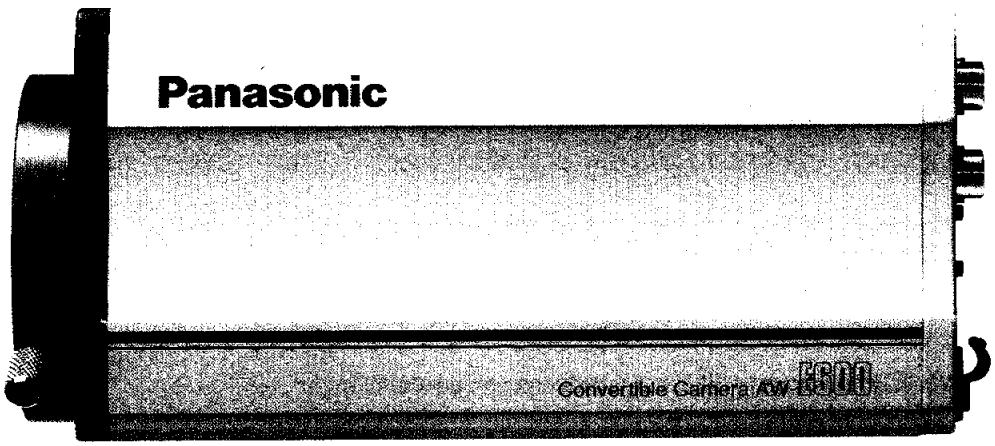
1/3-inch C mount model



Horizontal resolution: 800 lines
Minimum illumination: 1.5 lx
S/N: 63dB

Convertible color camera
AW-E300

1/2-inch bayonet mount model



Horizontal resolution: 850 lines
Minimum illumination: 0.25 lx
S/N: 65dB

Convertible color camera
AW-E600

Compatible with remote control operation and pan/tilt systems

The camera can be controlled from a remote location using a variety of remote control units. Also, using the camera in conjunction with the AW-PH300 compact and quiet indoor pan/tilt unit enables a pan/tilt system to be set up for unobtrusive filming.

■ Remote control units compatible with AW-E600

Remote control unit WV-RC700A	Maximum distance: 300 m
Remote control unit WV-RC550	Maximum distance: 100 m
Remote control box WV-CB700A	Maximum distance: 50 m

Full range of features and correction circuits, including ATW and ELC

The camera includes a variety of functions such as ATW for automatically correcting the white balance in response to lighting source and color temperature changes, and auto ND (ELC) for automatically adjusting brightness. It also features numerous correction circuits such as chroma-detail correction for displaying dark-colored areas clearly, and dark detail allowing natural outline correction for dark objects.

Incorporates four selectable operating modes to suit a wide range of filming conditions

Four modes with preset camera functions can be selected to suit the usage conditions.

Halogen lighting mode	Suited for indoor shooting such as at wedding receptions or other events.
Fluorescent lighting mode	Suited for indoor shooting under fluorescent lighting.
Outdoor mode	Outdoor shooting.
User mode	Allows detailed camera function settings.

●User setting items

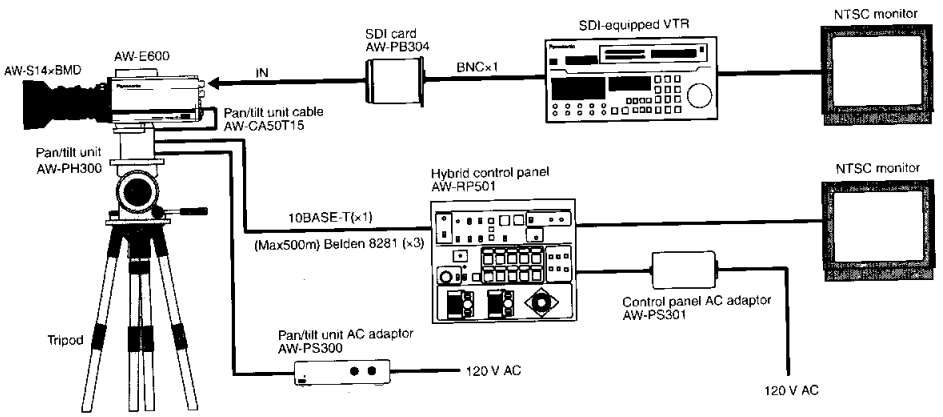
Gain, electronic shutter, white balance, corner detail, black stretch, highlight chroma, flesh tone detail, light sensing method, color bar set-up, negative/positive selection, PC control transfer rate, R/B gain, R/B pedestal, black level, video level, son sing area selection, genlock, horizontal phase/color phase, gamma 2 correction level, white clip level, horizontal/vertical detail level, chroma/dark detail correction level, matrix flare correction, etc.

New-concept production camera allowing a simple

High-resolution D-1 output

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

● One-person operation + SDI compatible system

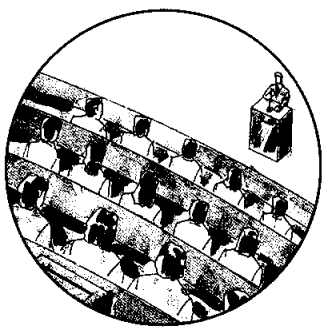


- Camera body AW-E600 ····· ×1
- ×14 zoom lens AW-S14 × BMD ····· ×1
- Indoor pan/tilt unit AW-PH300 ····· ×1
- Hybrid control panel AW-RP501 ····· ×1
- Pan/tilt unit cable AW-CA50T15 ····· ×1
- NTSC monitors ····· ×2
- SDI equipped VTR ····· ×1
- Pan/tilt unit AC adaptor AW-PS300 ····· ×1
- Control panel AC adaptor AW-PS301 ····· ×1
- SDI card AW-PB304 ····· ×1

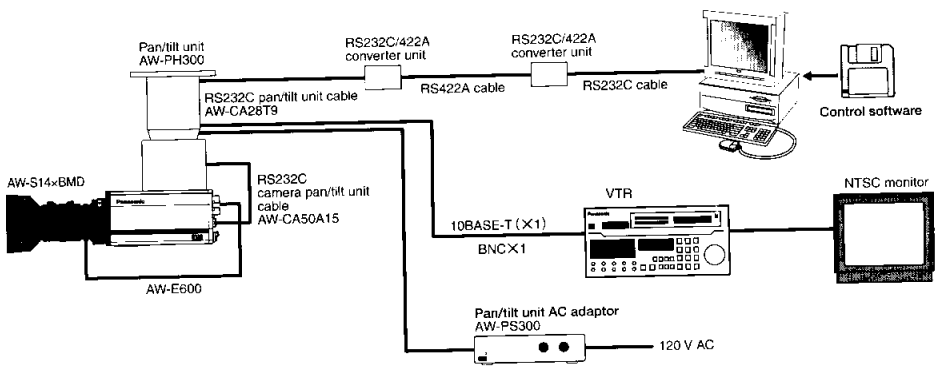
System can also be configured using AW-E300.

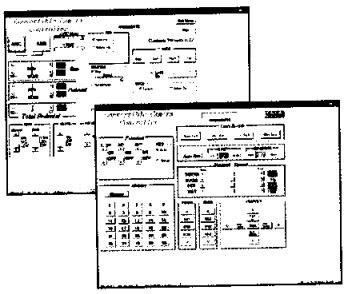
With PC control

The camera can be mounted on a pan/tilt unit and controlled from a PC via an RS-232C cable. Filming positions can be preset, making this system ideal for filming large numbers of participants at conferences and other events. High sensitivity with a minimum light level of 0.25 lux allows optimum filming even under poor lighting conditions.



● With PC control, up to 30 filming positions can be stored in the memory. (Card not fitted.)





Control software sample

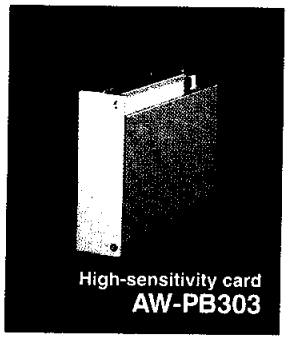
- Camera body AW-E600 ····· ×1
- ×14 zoom lens AW-S14×BMD ····· ×1
- Indoor pan/tilt unit AW-PH300 ····· ×1
- Windows PC ····· ×1
- Pan/tilt unit AC adaptor AW-PS300 ····· ×1
- NTSC monitor ····· ×1
- VTR ····· ×1
- RS232C camera pan/tilt unit cable AW-CA50A15 ····· ×1
- RS232C pan/tilt unit cable AW-CA28T9 ····· ×1
- RS232C/422A converter units ····· ×2
- Control software (provided by user) ····· ×1

System can also be configured using AW-E300.

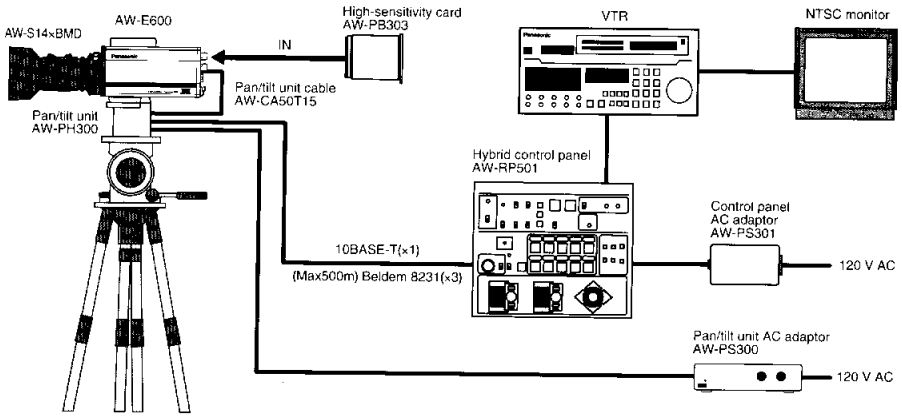
configuration to suit a particular purpose

High sensitivity at 0.0025 lux

Inserting a high-sensitivity card achieves a Pseudo video level of 0.0025 lux, and allows shooting in dark locations. The camera can also be used for weather monitoring or mounted at high locations such as on rooftops or highways for trafficam applications (Traffic Reports).



● System for shooting in dark locations using a high-sensitivity card



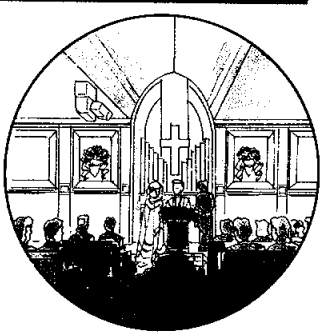
Minimum illumination
AW-E600 0.0025 lx
AW-E300 0.015 lx

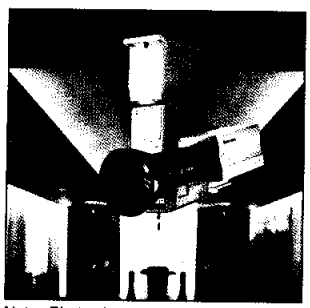
System can also be configured using AW-E300.

- Camera body AW-E600 ····· ×1
- ×14 zoom lens AW-S14 × BMD ····· ×1
- Indoor pan/tilt unit AW-PH300 ····· ×1
- Hybrid control panel AW-RP501 ····· ×1
- VTR ····· ×1
- NTSC monitor ····· ×1
- Pan/tilt AC adaptor AW-PS300 ····· ×1
- Pan/tilt cable AW-CA50T15 ····· ×1
- Control panel AC adaptor AW-PS301 ····· ×1
- High-sensitivity card AW-PB303 ····· ×1

Incorporating new pan/tilt system

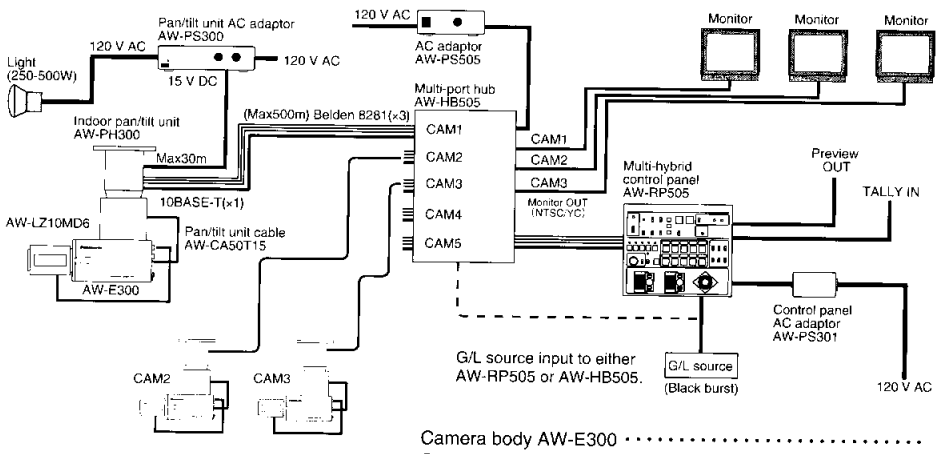
The camera can be used for shooting weddings or a preacher by combining it with the production camera pan/tilt system. Both camera and pan/tilt system are compact, and pan/tilt noise is extremely low compared to existing pan/tilt systems. This allows unobtrusive shooting.





Note: Photo shows camera fitted with AW-LZ14MD55 ×14 zoom lens.

● Pan/tilt-mounted shooting (Card not fitted)



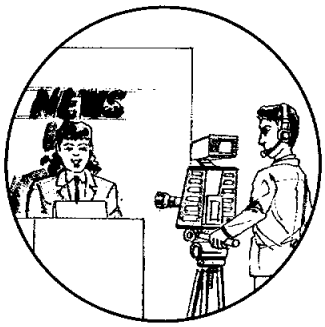
System can also be configured using AW-E600.

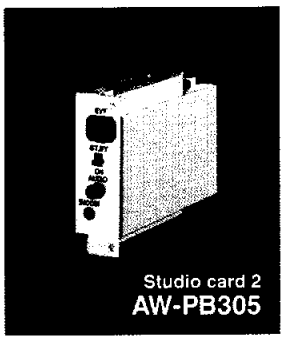
- Camera body AW-E300 ····· ×3
- C-mount zoom lens AW-LZ10MD6 ····· ×3
- Indoor pan/tilt unit AW-PH300 ····· ×3
- Multi-hybrid control panel AW-RP505 ····· ×1
- Multi-port hub AW-HB505 ····· ×1
- Dedicated hub AC adaptor AW-PS505 ····· ×1
- Pan/tilt unit AC adaptor AW-PS300 ····· ×3
- NTSC Monitor ····· ×3
- Control panel AC adaptor AW-PS301 ····· ×1
- Pan/tilt unit cable AW-CA50T15 ····· ×3

For studios

Simple cost effective camera system

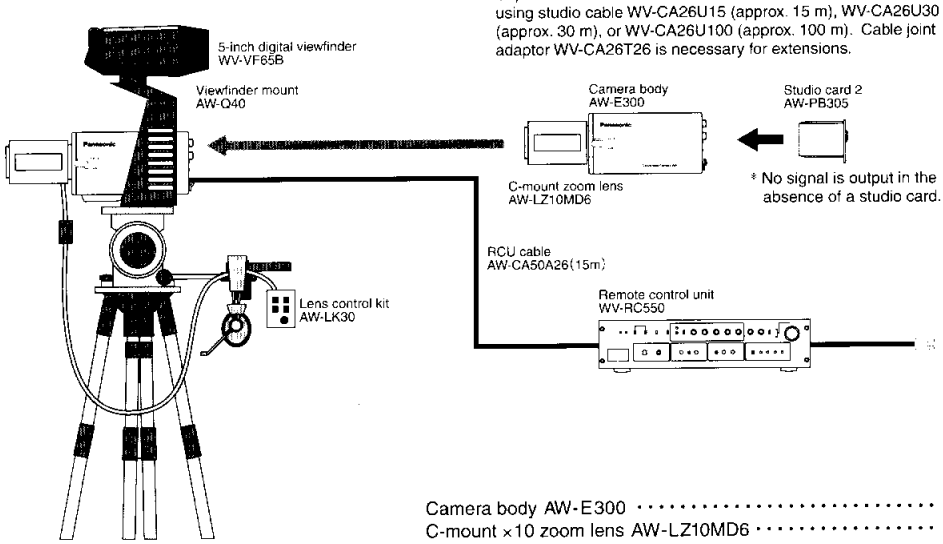
Inserting the AW-PB305 Studio Card 2 creates a studio camera suited for studios. A compact and simple-to-use system can be created while keeping costs low.





● Tripod-mounted shooting

Separation between camera and controller can be extended using studio cable WV-CA26U15 (approx. 15 m), WV-CA26U30 (approx. 30 m), or WV-CA26U100 (approx. 100 m). Cable joint adaptor WV-CA26T26 is necessary for extensions.



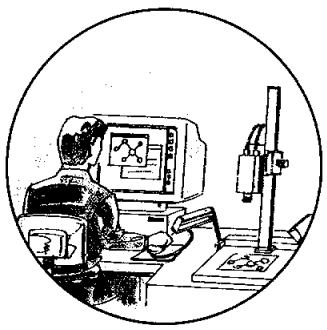
Camera body AW-E300 ····· ×1
C-mount ×10 zoom lens AW-LZ10MD6 ····· ×1
Studio card 2 AW-PB305 ····· ×1
Remote control unit WV-RC550 ····· ×1
5-inch digital viewfinder WV-VF65B ····· ×1
Lens control kit AW-LK30 ····· ×1
RCU cable AW-CA50A26 ····· ×1
Viewfinder mount AW-Q40 ····· ×1

System can also be configured using AW-E600.

For graphic work

With both PC and RGB output

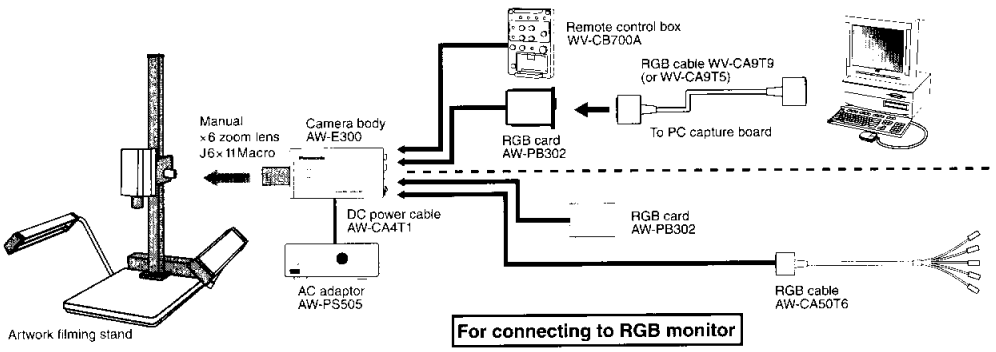
Inserting the AW-PB302 RGB Card allows shooting while the camera is mounted on an artwork stand. It can be used for reading in text and graphics, and for image processing input. The RGB card is compatible with both output to PCs and RGB output.



● Shooting with the camera mounted on an artwork shooting stand

For connection to PC capture board

Camera body AW-E300 ····· ×1
Manual ×6 zoom lens J6×11Macro ····· ×1
AC adaptor AW-PS505 ····· ×1
RGB card AW-PB302 ····· ×1
RGB cable WV-CA9T9 (or WV-CA9T5) ····· ×1
DC power cable AW-CA4T1 ····· ×1
Remote control box WV-CB700A ····· ×1



For connecting to RGB monitor

Camera body AW-E300 ····· ×1
Manual macro zoom lens ····· ×1
AC adaptor AW-PS505 ····· ×1
RGB card AW-PB302 ····· ×1
RGB cable AW-CA50T6 ····· ×1
DC power cable AW-CA4T1 ····· ×1

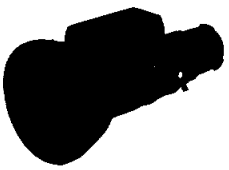
Accessories

Zoom lenses for AW-E600

Bayonet mount ×14 studio zoom lens
AW-S14 × BRM
AW-LZ14ST73

Bayonet mount ×14 motor-drive zoom lens
AW-S14 × BMD

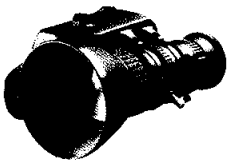
×16 power zoom lens
S16 × 6.7BMD



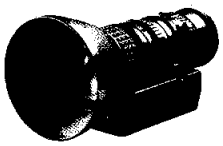
×18 power zoom lens
S19 × 6.5BMD
YH18 × KTS

Zoom lenses for AW-E300

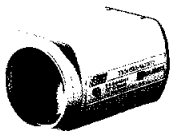
C-mount ×14 studio zoom lens
AW-LZ14ST55



C-mount ×14 motor-drive zoom lens
AW-LZ14MD55



C-mount ×10 motor-drive zoom lens
AW-LZ10MD6



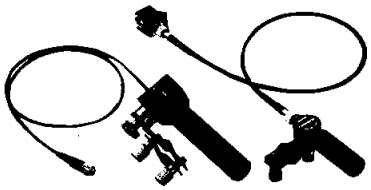
C-mount ×6 manual zoom lens
J6 × Macro

Lens control kits

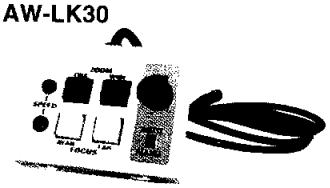
For Fujinon lenses: Servo zoom control kit
WV-LK36
(for AW-S14 × BRM)

For Canon lenses: Lens control kit
WV-LK35
(for AW-LZ14ST73)

For AW-LZ14ST55 Lens control kit
AW-LK50

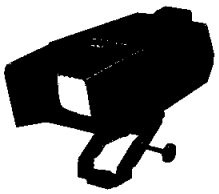


For AW-LZ14MD55
AW-LZ10MD6
AW-S14 × BMD
S19 × 6.5BMD
Lens control kit
AW-LK30



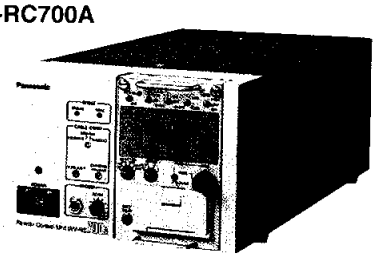
Viewfinder

5-inch digital viewfinder
WV-VF65B
* Requires mounting bracket WV-Q71.

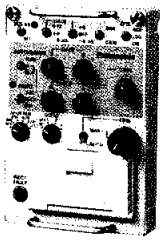


Remote control units (boxes)

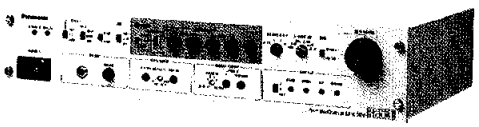
Remote control unit
WV-RC700A



Remote control box
WV-CB700A

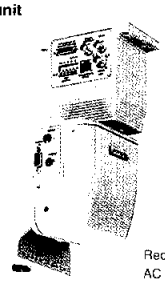


Remote control unit
WV-RC550



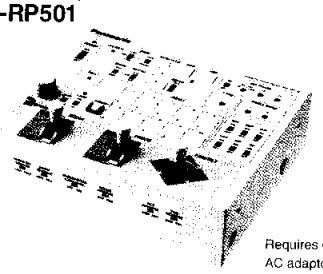
Pan/tilt units

Indoor pan/tilt unit
AW-PH300



Requires dedicated AC adaptor AW-PS300.

Hybrid control panel
AW-RP501



Requires dedicated AC adaptor AW-PS301.

Multi-port hub
AW-HB505

Requires dedicated AC adaptor AW-PS505.

RCU cables	●RCU cable AW-CA50A26 (15m)(camera-RCU) ●Cable joint adaptor WV-CA26T26 (for studio cable and joint) ●Studio cable (26pin-26pin) WV-CA26U100 (100m) ●Studio cable (26pin - 26pin) WV-CA26U30 (30m) ●Studio cable (26pin-26pin) WV-CA26U15 (15m)
RCB cables	●RCB cable AW-CA50B10 (5m)(camera-RGB cable (WV-CA10B02/25/50)) ●RCB cable AW-CA50T10 (5m)(camera-RCB)
Pan/tilt unit cables	●Pan/tilt unit cable AW-CA50T15 (camera-pan/tilt unit) ●232C camera pan/tilt unit cable AW-CA50A15 (camera-pan/tilt unit)(when using 232C control) ●232C pan/tilt unit cable AW-CA28T9 (pan/tilt unit-PC)
PC cables	●PC control cable AW-CA50T9 (camera-PC)(D-sub 9-pin)
RGB monitor cables etc.	●RGB cable AW-CA50T6 (connection to camera (BNC ×5+S terminal)) / WV-CA9T5 (RGB card to camera (BNC x5)) / WV-CA9T9 (RGB card to camera (D-sub 9-pin))
For use with camera alone	●DC power cable AW-CA4T1 (camera-power supply AW-PS505)

■ Ratings

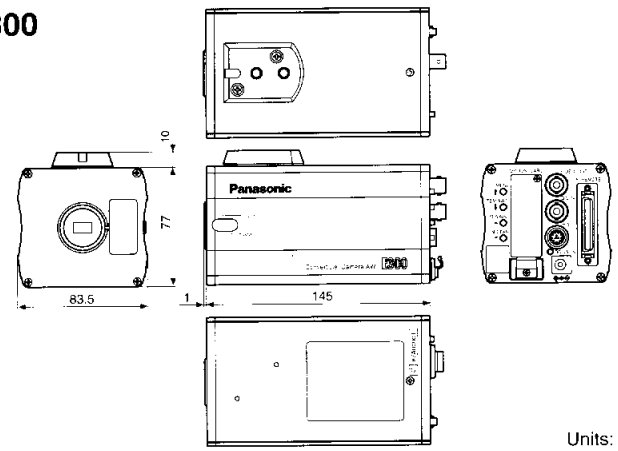
	AW-E300	AW-E600
Imaging elements	1/3" IT type 3-CCD system	1/2" IT type 3-CCD system
Pixels Total number of pixels	Approx. 410,000	
Effective number of pixels	Approx. 380,000	
Imaging area	4.8(H) x 3.6(V) (equivalent to 1/3")	6.4(H) x 4.8(V) (equivalent to 1/2")
Scanning system	2:1 interlaced NTSC system	
Scanning frequency	Horizontal: 15.734 kHz, vertical: 59.94 Hz	
Lens mount	1/3" C mount *	1/2" standard bayonet mount
Synchronization system	Internal/external synchronization	
Standard brightness	2,000 lx (3,200K F8)	2,000 lx (3,200K F11)
Minimum brightness	1.5 lx (F1.4 night eye mode)	0.25 lx (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)
Registration	0.05%	
Outline correction	Horizontal/vertical (both operative)	
White balance	Self-adjusting A/B 2-memory, manual fine adjustment, ATW, 3200K, 5600K	

	AW-E300	AW-E600
Black balance	Self-adjusting	
Color bar	SMPTE color bar (setup 0/7.5% IRE)	
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, 0 dB - 30 dB, night eye	AGC LOW/HIGH, 0 dB - 30 dB, night eye LOW/HIGH
Iris	Auto (manual control is only possible when using RCU or control panel.)	
Video output	NTSC composite 1.0 V (p-p)/75Ω (BNC connector, 50-pin D-sub connector)	
	YC:Y:1.0 V (p-p), C:0.286 V (p-p) (50-pin D-sub connector)	
Power supply voltage	12 V DC	
Power consumption	Approx. 9.6 W	
Operating temperature	-10 °c ~ +45 °c	
External dimensions	84mm(width) x 77mm(height) x 146mm(long)	84mm(width) x 77mm(height) x 155mm(long)
Weight	Approx. 0.7 kg	Approx. 0.86 kg

* *Note: The lens should be within 4.3mm from the lens mount face. Otherwise, there is a risk of damaging the camera unit.*

■ External dimensions

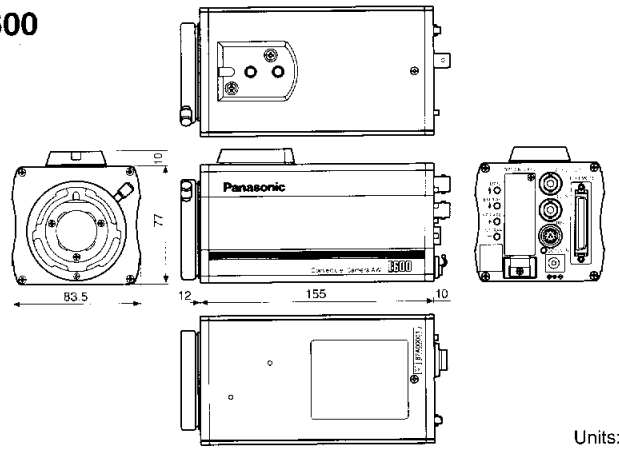
AW-E300



Units: mm

✣ Mounting blacket can be attached an the top or bottom of the Camera

AW-E600



Units: mm

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