

High resolution, compact HD camera great for indoor/outdoor use, equipped with a newly developed 2.2-megapixel, 2/3-inch IT-3CCD



High resolution and operability optimal as a weather and information camera

- **Equipped with a high resolution newly developed 2.2-megapixel, 2/3-inch IT-3CCD**
With the uniquely developed CCD, Panasonic offers high sensitivity with reduced smear. Versatile in a wide range of applications such as broadcasting, the camera offers compatibility with high-definition 1080/59.94i and 50i video formats.
- **The Dynamic Range Stretch (DRS) function that optimally adjusts gamma correction**
Optimally adjusts gamma correction in response to the varying degree of contrast. Reduces over and under exposure for high contrast images, i.e. outdoors.
- **Intelligent automatic adjust functions that reduces the necessity for operational maintenance**
Realizes automatic white balance and gain control. The image is automatically adjusted depending on the subject and time of shoot, so there is little need for manned maintenance, and permits flexible operation.

Features

Newly developed 2.2-megapixel, 2/3-inch IT-3CCD

Panasonic has developed the 2.2-megapixel, 2/3-inch IT-3CCD that offers high sensitivity with reduced smear.

High-Definition 1080/59.94i or 50i video output

The AK-HC1800 delivers detailed High-Definition 1080/59.94i or 50i images.

A clear and crisp resolution with Panasonic's unique spatial offset technology and signal processing

Employs an advanced single-channel transfer system and spatial-offset processing unique to Panasonic. With an improved modulation depth for the high-bandwidth signal, Panasonic promises an exceptional resolution and reduced moire.

14-bit A/D converter, and the new 38-bit Digital Signal Processor (DSP)

With the newly developed LSI, Panasonic realizes versatile image processing offering high resolution images for a wide range of applications.

Dynamic Range Stretch (DRS) function

The new function, compatible gamma that optimally and in real-time adjusts the gamma correction, clearly reproduces high contrast images curtailing over and under exposure.

12-vector variable matrix masking circuit

With the 12-vector variable matrix masking circuit, the camera will recognize each color individually permitting optimal saturation and hue.

Cine gamma curve

A film-like quality natural gradation expression and a rich color reproduction made possible with a custom gamma curve.

Color correction

Comes equipped with a hue preservation circuit that prevents color loss in brightly lit areas.

Embedded with intelligent automatic adjust functions

Auto tracing white balance function

Automatically adjusts the white balance in even outdoor environments where the color temperature changes every second.

Automatic gain control*

It not only has automatic iris control, but it also comes with a reduced shock, contiguous automatic variable gain control with a range of -6 dB to +72 dB. Moreover, the AGC allows you to choose between the normal mode, favor movement, favor clarity and user setup mode.

Allowing you to build a flexible system

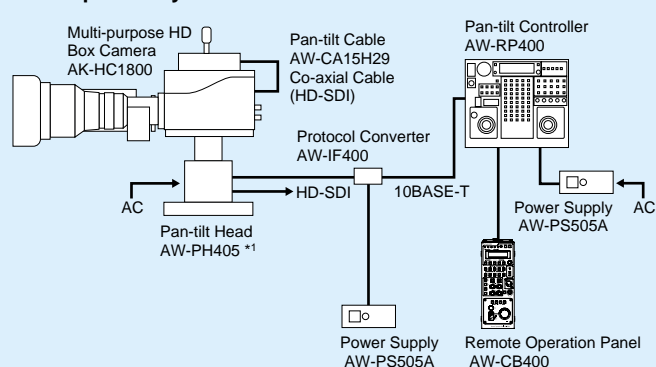
The light and compact, boxy AK-HC1800 allows you to build a flexible system in combination with a variety of Panasonic's indoor/outdoor pan-tilt systems. Because you can shoot remotely from various angles, it can be used for a multitude of applications such as a weather information camera, presenter link camera, and for sports event relays.

*Conditions for automation of the AGC are as follows : (1) Automation can only function when the camera is used outdoors. (2) A photometry area excluding certain areas (i.e. sky) must be specified.

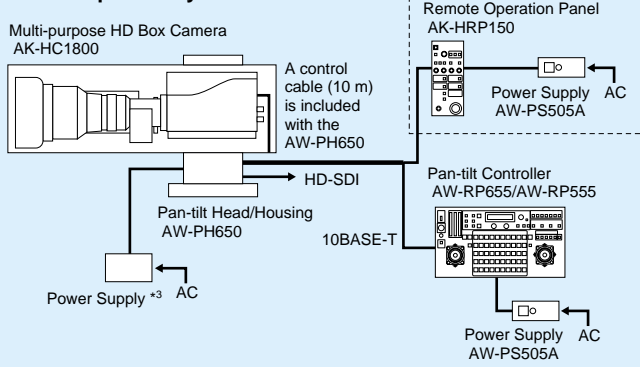
(3) The automatic control will respond slowly, but it will perform quickly when the power is turned on or when the filter is to be changed. (4) The automatic control function will stop when the pan-tilt platform and lens are in use.

System example

Indoor pan-tilt system



Outdoor pan-tilt system



*1 Up to five Pan-tilt Head for one Pan-tilt Controller can be used. *2 AW-RP655 can control an AK-HC1800 without AK-HRP150. *3 An AW-PH650 includes a power supply.

Specifications

CCD	2/3" 2.2-megapixels IT-3CCD	M.T.F.	50 % (typ) (27.5 MHz)
Image sensing method	GBR image sensing method	Dynamic range	550 %
Total number of pixels	2 010(H) x 1 121(V)	Synchronize system	Internal and external synchronization (Tri-level SYNC/Black Burst)
Effective number of pixels	1 920(H) x 1 080(V)	Input	GENLOCK : BNC x 1, I/F : mini D-sub 15pin terminal
Optical prism	F1.4 Prism	Output	HD-SDI : BNC x 1
Optical filter	ND : 100 %, 25 %, 6.3 %, 1.6 %	Input/output	Lens aperture connector, lens zoom focus connector
Lens mount	2/3" Bayonet mount	Interface	Asynchronous EIA-422
Output format	1080/59.94i, 50i	Operating temperature	0 °C to +40 °C
Sensitivity	F10, 2 000 lx, 3 200 K, white reflection rate 89.9 % (1080/59.94i) F11, 2 000 lx, 3 200 K, white reflection rate 89.9 % (1080/50i)	Storage temperature	-20 °C to +60 °C
Minimum illumination	0.015 lx (F1.4/68 dB)	Power consumption	Approx. 17 W (DC12 V)
Gain	72 dB by using gain up circuit, CCD accumulation, and horizontal/vertical addition	Dimensions (W x H x D)	90 mm x 117 mm x 160 mm (excluding protrusions)
S/N	60 dB (typ)	Weight	Approx. 1.5 kg

Specifications and functions are subject to change without notice.

Panasonic®

Panasonic Corporation
System Solutions Company
Broadmedia Systems Business Unit
4-3-1 Tsunashima-Higashi,
Kohoku-ku, Yokohama City 223-8639, Japan
<http://panasonic.net/pss/broad/>

[Countries and Regions]

Argentina +54 1 308 1610
Australia +61 2 9986 7400
Austria +49 (0)611 235 401
Bahrain +973 252292
Belgium +32 (0)2 481 04 57
Bulgaria +359 2 946 0786
Brazil +55 11 3889 4035
Canada +1 905 624 5010
China +86 10 6515 8828
(Hong Kong) +852 2313 0888
Czech Republic +420 236 032 552/511
Denmark +45 43 20 08 57
Egypt +20 2 3938151
Finland, Latvia, Lithuania, Estonia +358 (9)521 52 53
France +33 (0)1 49 46 43 59
Germany +49 (0)611 235 401
Greece +30 210 96 92 300
Hungary +36 (1)382 60 60
Indonesia +62 21 385 9449
Iran +98 21 2271463

Italy +39 02 67 88 449
Jordan +961 6 586 1914
Kazakhstan +7 3272 980 891
Korea +82 2 2106 6666
Kuwait +965 481 2123
Lebanon +961 1 216827
Malaysia +60 3 5549 5422
Mexico +52 5 488 1000
Montenegro, Serbia +41 (0)26 466 25 20
Netherlands +31 73 64 02 577
New Zealand +64 9 272 0100
Norway +47 67 91 78 00
Pakistan +92 5370320 21
Panama +507 229 2955
Peru +51 145 29470
Philippines +63 2 633 6162
Poland +48 (22)338 1100
Portugal +351 21 425 77 04
Puerto Rico +1 787 750 4300
Romania +40 21 211 4855

Russia & CIS +7 495 980 42 06
Saudi Arabia +966 1 465 0709
Singapore +65 6270 0110
Slovak Republic +421 (0)2 52 92 14 23
Slovenia, Croatia, Bosnia, Macedonia +44 (0)20 76 63 36 57
South Africa +27 11 313 1400
Spain +34 (93) 425 93 00
Sweden +46 (8) 680 26 41
Switzerland +41 (0)41 259 96 32
Taiwan +886 2 2227 6100
Thailand +66 2 731 8888
Turkey +90 216 578 3700
U.A.E. +971 4 282201
Ukraine +380 44 4903437
+380 44 4903438
[ext. 112]
U.K. +44 (0) 1344 70 69 20
U.S.A. +1 201 348 5300
+1 800 528 8601
+84 88370280
Vietnam

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