Panasonic ideas for life

PRELIMINARY

Multi-purpose HD Box Camera

1080 / 720 **AK-HC1500**

With an advanced 14-bit A/D and new digital signal processor A high new standard in compact HD cameras Panasonic AK+C1500



High performance: Advanced 14-bit A/D and new A compact HD multi-format camera



14-bit A/D and new DSP provide outstanding functions and image quality

Developed in-house by Panasonic, the advanced digital signal processor provides optimal DTL signal processing for horizontal, vertical, diagonal, dark, and highlight parameters to produce beautiful images with minimal noise. In addition to the usual matrix circuit, the AK-HC1500 has a colour correction function that uses 12-axis independent colour adjustment to provide ideal hue and saturation adjustment of individual colours. Also, a chrominance retain circuit prevents colour de-saturation in highlight areas. The digital signal processor enables processing over a wide dynamic range, minimising saturation in highlights and blocking in dark areas for more detailed expression throughout.





Conventional

Vivid details

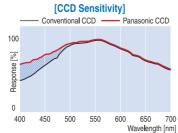
Multi-format capability with new 2/3-inch CCD in a new-standard HD camera

The 1-mega pixel IT-CCD imaging system offers excellent cost-performance, and the 2/3-inch imaging size is ideal for multi-purpose use. This is a true global camera with HD multi-format capability. Compatible with both 720p and 1080i formats, the AK-HC1500 has a high degree of versatility. It prepares you for taking the next step in HD production.

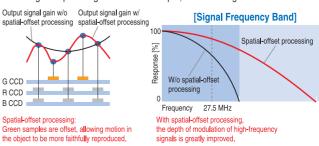
1080 720
60i/59.94i/50i/30p/25p/24p 60p/59.94p/50p

 This advanced CCD was developed in-house by Panasonic. The improved on-chip lenses and CCD structure achieve a standard sensitivity of F10.0 at 2,000 lx and a smear level of less than -130 dB.

Blue channel sensitivity has been improved approximately 3 dB achieving a better response ratio. Even deep-blue colours can be reproduced with vivid chrominance and significantly reduced noise.



 Panasonic's single-channel transfer system and spatial-offset processing technologies improve signal modulation depth, thus reducing moire.





The growing trend toward HD is creating demand for global HD camera models.

Panasonic's answer is the AK-HC1500, a compact, multi-purpose HD box camera designed for broadcast use.

Performance is outstanding thanks to a host of advanced Panasonic technology,

starting with a 14-bit A/D and JUPITER, new DSP (digital signal processor).

Also new is a high-sensitivity 2/3-inch 1-mega pixel IT-CCD with multi-format compatibility. Excelling in both quality and features, the AK-HC1500 is a high-cost-performance solution in applications ranging from live relays to information gathering.



Features variable frame rate and a cine gamma curve.

The AK-HC1500 debuts as the first multi-purpose camera to feature a variable frame rate function and a cine gamma curve. The variable frame rate allows the overcranking and undercranking speed effects that film cameras provide, and the cine gamma curve reproduces images with a tone similar to film recordings. With the AK-HC1500, you can create productions that closely replicate the cine-like feeling and expressivity of film productions.

VFR 60P

Minimizing environmental impacts through low power consumption and a compact footprint.

Fewer parts, low power consumption and a compact design make the AK-HC1500 an environment-friendly choice.

- The AK-HC1500 uses a newly designed CCD drive circuit that requires low power consumption and a DSP that consumes little power.
- Fewer parts are used, and the weights of structural parts have been reduced.
- Small size is a big advantage in cameras used for information gathering, set in a housing, or mounted on a pan-tilt head.

- You can vary the number of frames per second (4 fps to 60 fps), just as you can
 with a film camera. This lets you use the distinctive undercranking and overcranking
 speed effects of film cameras.
- Thanks to a special cine gamma curve, the CCD can produce pictures with the same kind of tonal beauty, natural gradation and rich colours you get with film recordings.





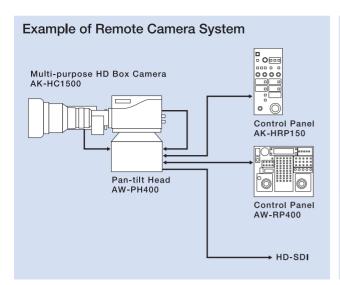
Movies

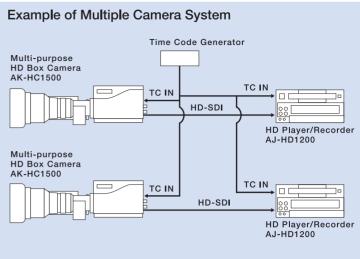
Yet more features

Option slot for expansion

The rear option slot lets you add a variety of equipment, making the AK-HC1500 suitable for use in a wider range of applications and with different kinds of network connections

- Mount a down converter, analogue output unit or other equipment.
- Easy-to-use menu buttons





SPECIFICATIONS

CCD	2/3" 1-mega pixel IT-CCD
Image sensing method	GBR Image sensing method
Total number of pixels	1,370 (H) ×744 (V)
Effective number of pixels	1,280 (H) ×720 (V)
Optical prism	F1.4 Prism
Optical filter	(ND) 100 %, 25 %, 6.3 %, 1.6 %
Lens mount	Bayonet type
Sensitivity	F10.0 at 2,000 lx
Minimum IIIumination	0.015 lx (F1.4/68 dB)

Gain	68 dB Max.
S/N	54 dB
Smear	Less than -130 dB
M.T.F.	45 % (27.5 MHz, 720/60p)
Storage temperature	-4 °F to 140 °F (-20 °C to +60 °C)
Operating temperature	32 °F to 104 °F (0 °C to +40 °C)
Power consumption	Approx. 18 W (DC12 V)
Dimensions (WXHXD)	Approx. 3-9/16",4-10/16",6-5/16" (90 mm×117 mm×160 mm)
Weight	Approx. 3.5 lbs (1.6 kg)

Panasonic

Matsushita Electric Industrial Co. Ltd. Panasonic System Solutions Company Corporate Broadcast and Multimedia Division

4-3-1 Tsunashima-Higashi, Kohoku-ku, Yokohama City 223-8639, Japan http://panasonic.biz/broad/

[Countries and Regions]

Argentina +54 1 308 1610 Australia +61 2 9887 6222 Austria +43 (0)1 610 80 773 Bahrain +973 252292 Belgium +32 (0)2 481 04 57 +359 2 946 0786 +55 11 3889 4035 Bulgaria Brazil Canada +1 905 624 5010 China +86 10 6515 8828 (Hong Kong Czech Republic +852 2313 0888) +420 236 032 552/511 Denmark +45 43 20 08 57 +20 2 3938151 Egypt Finland, Latvia, Lithuania, Estonia

+358 (9)521 52 53 +33 (0)1 49 46 43 59 France +49 (0)611 235 401 +30 210 96 92 300 Germany Greece Hungary +36 (1)382 60 60 Indonesia +62 21 801 5666 +62 21 385 9449 +98 21 2271463

Iran +39 02 67 88 449 +961 6 586 1914 Jordan Kazakhstan +7 3272 504 777

+82 2 2106 6666 Kuwait +965 481 2123 Lebanon +60 3 5549 5422 Malavsia +52 5 488 1000 Montenegro, Serbia

+41 (0)26 466 25 20 +31 73 64 02 577 +64 9 272 0100 +47 67 91 78 00 Netherlands New Zealand Norway +92 5370320 21 Panama +507 229 2955 +51 145 29470 +63 2 633 6162 Philippines Poland +48 (22)338 1100 +351 21 425 77 04 Portugal Puerto Rico +1 787 750 4300 +40 21 211 4855 Romania +7 095 258 42 06 +966 1 465 0709 Russia & CIS Saudi Arabia 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

Sweden Switzerland Taiwan Thailand Turkey U.A.E.

+34 (93) 425 93 00 +46 (8) 680 26 41 +41 (0)41 259 96 32 +886 2 2725 9100 +886 2 2725 9100 +66 2 731 8888 +90 216 578 3700 +971 4 282201 +380 44 4903437

Ukraine +380 44 4903438 U.S.A.

[ext. 112] +44 (0) 1344 70 69 20 +1 201 348 5300 +1 800 528 8601

