

## 1080p HDR studio camera system

# AK-HC3900

Designed for broadcasting, event and is equipped with a large sensor for high sensitivity and video quality. By combining with AK-HCU250PJ/PSJ/ HCU250EJ/ESJ Camera Control Unit (CCU) and the AK-HRP250GJ Remote Operation Panel (ROP), it is possible to construct a long-distance optical Fiber transmission studio camera system at low cost.

### Key Features

Includes a large 4K-CMOS sensor, and achieves a high sensitivity of F10 (2000 lx) and low noise with an S/N ratio of 62 dB (when using the High Sense Mode).

Includes CAC (Chromatic Aberration Compensation), skew reduction, and DRS (Dynamic Range Stretcher) functions.

Includes Digital Extender function (2x).

Supports HDR/BT.709 in HD mode as standard and HDR/BT.2020 in 4K mode. \*When 4K upgrade kit is installed on AK-HC3900G and the AK-HCU250

4K upgrade enables 4K video to be output with a horizontal resolution of 2,000 TV lines. \*When 4K upgrade kit is installed on AK-HC3900G and the AK-HCU250



## AK-HC3900

<https://ap.connect.panasonic.com/p/h/en/ak-hc3900>

<b>General -&gt; Power Supply</b>	DC 12 V (when using an external power supply) DC 190 V (when AK-HCU250PJ/HCU250PSJ/HCU250EJ/ HCU250ESJ is connected)
<b>General -&gt; Power Consumption</b>	82 W (maximum, when connecting to an external 12 V and including supply to an externally connected devices) 92 W (maximum, when AK-HCU250PJ/HCU250PSJ/HCU250EJ/ HCU250ESJ is connected and including supply to an externally connected devices)
<b>General -&gt; Operating Temperature</b>	-10 °C to 45 °C (14 °F to 113 °F) (Preheating required under a temperature 0°C (32 °F) or below)
<b>General -&gt; Operating Humidity</b>	85% or less (relative humidity)
<b>General -&gt; Storage Temperature</b>	-20 °C to 60 °C (-4 °F to 140 °F)
<b>General -&gt; Weight</b>	Approx. 4.0 kg (8.80 lbs.) (body only, excluding the accessories)
<b>General -&gt; Dimensions</b>	W 151 mm x H 267 mm x D 369 mm (5-31/32 inches x 10-17/32 inches x 14-17/32 inches) (excluding protrusions)
<b>Camera Unit -&gt; Pickup Device</b>	11.14 million pixels, MOS Sensor
<b>Camera Unit -&gt; Optical Filter -&gt; ND</b>	Clear, 1/4, 1/16, 1/64
<b>Camera Unit -&gt; Lens Mount</b>	2/3-type bayonet
<b>Camera Unit -&gt; Sensitivity</b>	wo shooting modes [HIGH SENS] F10 (59.94 Hz)/F11 (50 Hz) [NORMAL] F6 (59.94 Hz)/F7 (50 Hz) 2000 lx, 3200 K, when white reflectivity is 89.9%
<b>Camera Unit -&gt; Horizontal Resolution</b>	-2000 TV lines or above (center, when using AK-HUC01)
<b>&gt; 4K</b>	
<b>Camera Unit -&gt; Horizontal Resolution</b>	-1000 TV lines or above (center)
<b>&gt; HD</b>	
<b>Camera Unit -&gt; S/N</b>	62 dB or above
<b>Camera Unit -&gt; Horizontal Modulation</b>	50% or above (27.5 MHz)
<b>Camera Unit -&gt; Gain Switching -&gt; HIGH SENS</b>	-6, -3, 0, 3, 6, 9, 12, 15, 18, 21, 24, 27, 30, 33, 36
<b>Camera Unit -&gt; Gain Switching -&gt; NORMAL</b>	-6, -3, 0, 3, 6, 9, 12, 15, 18, 21, 24, 27, 30, 33, 36
<b>Camera Unit -&gt; Shutter Speed -&gt; [59.94i]/[59.94p] mode</b>	1/100, 1/120, 1/125, 1/250, 1/500, 1/1000, 1/1500, 1/2000
<b>Camera Unit -&gt; Shutter Speed -&gt; [50i]/[50p] mode</b>	1/60, 1/100, 1/125, 1/250, 1/500, 1/1000, 1/1500, 1/2000
<b>Camera Unit -&gt; Shutter Speed -&gt; [29.97p] mode</b>	1/48, 1/50, 1/60, 1/96, 1/100, 1/120, 1/125, 1/250, 1/500, 1/1000, 1/1500, 1/2000
<b>Camera Unit -&gt; Shutter Speed -&gt; [25p] mode</b>	1/48, 1/50, 1/60, 1/96, 1/100, 1/125, 1/250, 1/500, 1/1000, 1/1500, 1/2000
<b>Camera Unit -&gt; Shutter Speed -&gt; [23.98p] mode</b>	1/48, 1/50, 1/60, 1/96, 1/100, 1/120, 1/125, 1/250, 1/500, 1/1000, 1/1500, 1/2000
<b>Camera Unit</b>	1920 x 1080/59.94p/50p/29.97p/25p/23.98p *when using AK-HUC01 3840 x 2160/59.94p/50p/29.97p/25p/23.98p
<b>Video Input/Output - &gt; &lt; HD-SDI1 &gt; Terminal</b>	BNC x 1 3G/1.5G-SDI: 0.8 V [p-p], 75 Ω
<b>Video Input/Output - &gt; &lt; HD-SDI2 &gt; Terminal</b>	BNC x 1 3G/1.5G-SDI: 0.8 V [p-p], 75 Ω
<b>Video Input/Output - &gt; &lt; AUX &gt; Terminal</b>	BNC x 1 Functions as terminal/ terminal by switching the setting in the menu : 3G/1.5G-SDI: 0.8 V [p-p], 75 Ω : VBS signal 1 V [p-p], 75 Ω
<b>Audio Input/Output - &gt; &lt; MIC 2 &gt; Terminal</b>	XLR x 1, 3-pin (female) // switchable : 0 dBu : -60 dBu, -40 dBu, or -20 dBu menu can be selected
<b>Audio Input/Output - &gt; &lt; MIC &gt; Terminal (front)</b>	XLR x 1, 3-pin (female) // switchable : 0 dBu : -60 dBu, -40 dBu, or -20 dBu menu can be selected
<b>Intercom - &gt; &lt; INTERCOM1 &gt; Terminal</b>	XLR x 1, 5-pin, female type
<b>Other Input/Output - &gt; &lt; OPT FIBER &gt; Terminal</b>	Optical composite connector x 1
<b>Other Input/Output - &gt; &lt; LENS &gt; Terminal</b>	12-pin x 1
<b>Other Input/Output - &gt; &lt; VF &gt; Terminal</b>	20-pin x 1
<b>Other Input/Output - &gt; &lt; VF &gt; Terminal (rear)</b>	29-pin x 1
<b>Other Input/Output - &gt; &lt; DC IN &gt; Terminal</b>	XLR x 1, 4-pin, DC 12 V

