

AK-SHB800

8K Multi Purpose Camera

AK-SHB800GJ: LC connector model

AK-SHB800PSJ: ST connector model

AK-SHU800

Image Processing Unit

AK-SHU800EJ: LC connector model

AK-SHU800PSJ: ST connector model

AK-SFC101

Software Key



AK-SHB800
8K Multi Purpose Camera

8K ROI (Region of Interest) Camera Capable of Providing Four Independent HD Videos from 8K Image



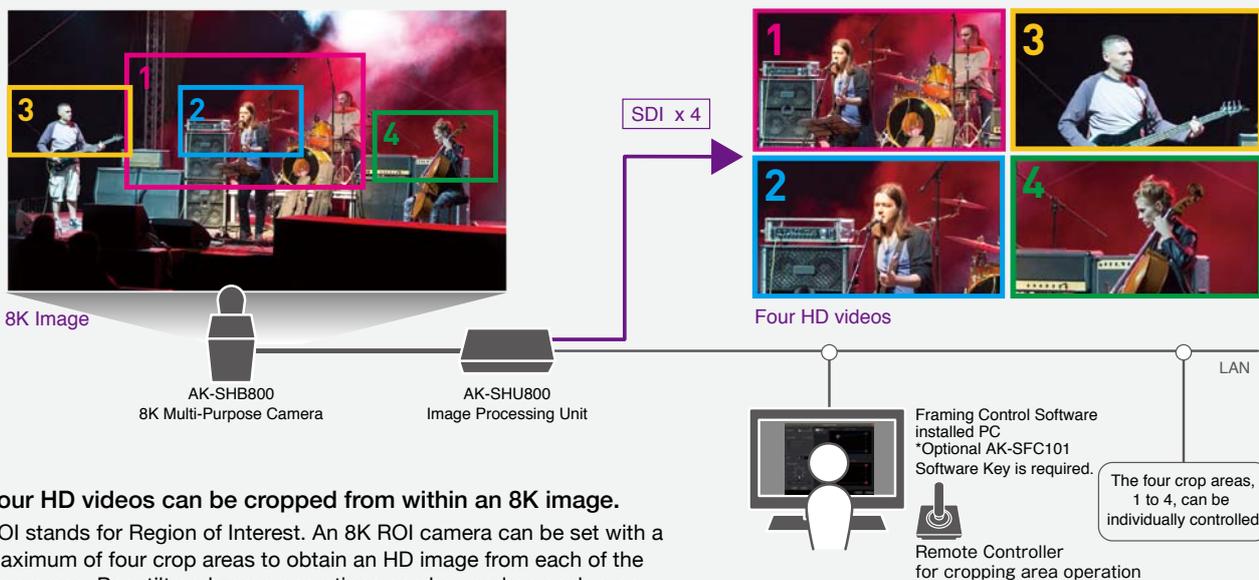
AK-SHU800
Image Processing Unit

- Features an 8K full-size CMOS image sensor.
- Up to four separate HD videos can be cropped from a high-resolution, wide-angle 8K image, and each cropped image can be panned, tilted and zoomed individually.
- Automatic wide-angle distortion correction function removes, in real time, distortion of images cropped from the periphery, thus realizing natural-looking images.
- Cropping frames position can be preset.
- Up to eight 8K Multi-Purpose Camera units can be linked for cropping a maximum of 32 different HD videos.
- A recommended remote controller can be used for the pan, tilt and zoom control of cropped images.
- Remote Operation Panel (optional, AK-HRP1000GJ*1) can be used for the adjustment of camera image quality.
- Framing Control Software*2 features an easy-to-use GUI operation.
- The compact, lightweight, Multi-Purpose Camera allows space-saving, flexible setup at any desired angle.

*1: Software must be updated when used with the AK-SHB800 8K Multi-Purpose Camera. Once it is updated, it cannot be used except with the 8K Multi-Purpose Camera.

*2: Optional AK-SFC101 Software Key is required. For details please visit Panasonic website. (https://pro-av.panasonic.net/en/products/8k_roi_camera_system/index.html)

Single 8K ROI camera serves as four HD cameras to improve operational efficiency and reduce operating costs in live event and sports application.



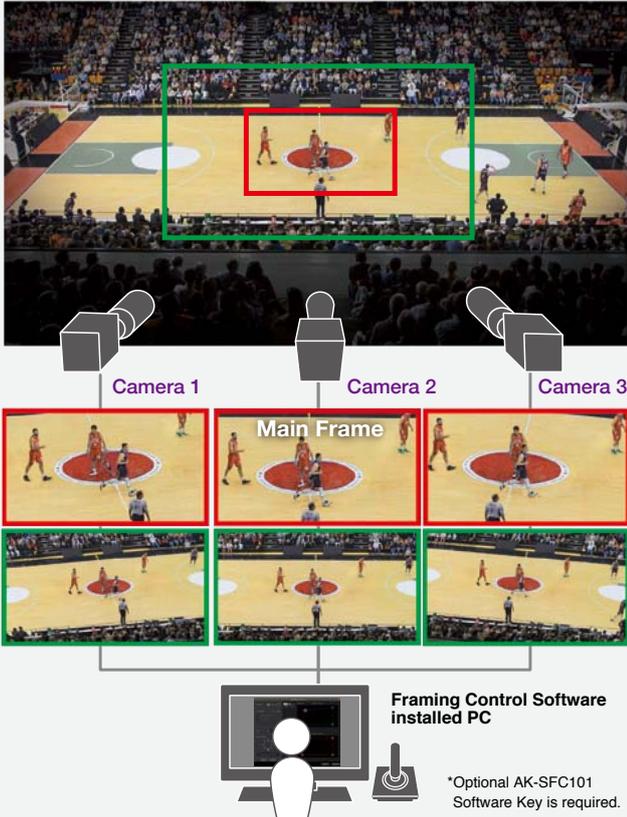
Four HD videos can be cropped from within an 8K image.

ROI stands for Region of Interest. An 8K ROI camera can be set with a maximum of four crop areas to obtain an HD image from each of the crop areas. Pan, tilt and zoom operations can be used on each crop area, so a single 8K ROI camera serves as four HD cameras. It improves acquisition efficiency in live and sports application. The 8K ROI camera contributes to the reduction of camera setup, relocation and transport costs. It also eliminates the need to take up audience seats for the setup of multiple cameras.

▲ Application example of the 8K ROI camera system (1 camera, live stage recording)

The 8K Multi-Purpose Camera is set up in a fixed position. The four crop areas, 1 to 4, can be individually controlled for pan, tilt and zoom. Moreover, for example, crop 1 (long shot) and crop 2 (close-up) can be linked in operation.

A multi-camera system can be configured by linking the cropping operations of multiple cameras. The wide-angle distortion correction function provides natural-looking crops.



▲ Application example of the 8K ROI camera system (3 cameras, basketball game broadcasting)

When three 8K Multi-Purpose Camera units are set up and two crop areas, close-up and long shot, are linked, the pan, tilt and zoom on all six crops operate in link with the operations performed on the main frame image.

Linkage of multi-camera/multi-angle crop frames

A multiple of 8K Multi-Purpose Camera units (maximum of 8 units) can be connected and operated as one integrated system. By setting one crop area in the main frame and linking it to other crop areas, pan, tilt and zoom on the multiple crop images operate in link with the panning, tilting and zooming on the main frame. This allows improving operational efficiency in multi-camera/multi-angle recording or broadcasting.

Automatic real-time correction of wide-angle distortion

This function automatically corrects, in real time, wide-angle distortion of images cropped from the image periphery away from the center image. This results in natural-looking videos as if the camera images were individually panned or tilted.



A wide-angle image captured by the 8K Multi-Purpose Camera



▲ Sample images after automatic wide-angle distortion correction

*The pictures are images for explaining functions.

8K ROI Camera System Specifications

AK-SHB800GJ/AK-SHB800PSJ 8K Multi Purpose Camera

Power:	DC 12 V (DC 11 V – 17 V)
Power Consumption:	33 W
Weight:	Approx. 4.0 kg (8.82 lbs.) (body only)
Dimensions:	W 180 mm x H 190 mm x D 177 mm (7-3/32 inches x 7-1/2 inches x 6-21/32 inches) (excluding protrusions)
Lens Mount:	EF
ND filter:	CLEAR, 1/4, 1/16, 1/64
Pickup Device:	Full Size, CMOS x 1
Sensitivity:	[59.94Hz]: NORMAL: F6, HIGH SENS: F10 (2000lx, 3200K, 89.9% reflection) [50Hz]: NORMAL: F6.5, HIGH SENS: F11 (2000lx, 3200K, 89.9% reflection)
S/N:	60 dB (standard) (DNR ON)
Horizontal Resolution:	HD: 1000 TV lines or above (center) 4K: 2000 TV lines or above (center) 8K: 3600 TV lines or above (center)
Gain:	-6 dB, -3 dB, 0 dB, 3 dB, 6 dB, 9 dB, 12 dB, 15 dB, 18 dB, 21 dB, 24 dB
Total Gain:	Selectable from 6 dB, 12 dB
Shutter Speed:	[59.94Hz]: 1/100 sec, 1/120 sec, 1/125 sec, 1/250 sec, 1/500 sec, 1/1000 sec, 1/1500 sec, 1/2000 sec [50Hz]: 1/60 sec, 1/100 sec, 1/125 sec, 1/250 sec, 1/500 sec, 1/1000 sec, 1/1500 sec, 1/2000 sec
Synchro Shutter Speed:	[59.94Hz]: 1/61.7 to 1/6429 seconds [50Hz]: 1/51.5 to 1/6429 seconds

AK-SHU800EJ/AK-SHU800PSJ Image Processing Unit

Power:	AC100 V– 240 V, 50 Hz/60 Hz
Power Consumption:	250 W
Weight:	Approx. 12.0 kg (26.4 lbs.) (body only)
Dimensions:	W 424 mm x H 130 mm x D 401 mm (16-11/16 inches x 5-1/8 inches x 6-21/32 inches) (excluding protrusions)
Output Format:	7680 x 4320: 59.94p, 50p (12G x 4) 3840 x 2160: 59.94p, 50p (12G, 3G x 4) 1920 x 1080: 59.94p, 50p (3G), 59.94i, 50i (1.5G) 1280 x 720: 59.94p, 50p (1.5G *Compatible with version upgrade)
Function:	ROI, HDR (HLG), BT.2020 compatible



Option

AK-HRP1000

Remote Operation Panel (ROP)

These compact operation panels also support PoE* and IP control. LCD panels with enhanced visibility. 8.9 cm (3.5 inches) (VGA)

*Power over Ethernet *Software must be updated when used with the AK-SHB800 8K Multi-Purpose Camera. Once it is updated, it cannot be used except with the 8K Multi-Purpose Camera.