8K Multi-Purpose Camera

(8K Multi Purpose Camera AK-SHB800)

(Image Processing Unit AK-SHU800)

8K ROI Camera System

(scheduled for release in July 2019)

8K Multi Purpose Camera
AK-SHB800GJ (LC connector model) **NEW**
AK-SHB800PSJ (ST connector model) **NEW**

Image Processing Unit
AK-SHU800EJ (LC connector model) **NEW**
AK-SHU800PSJ (ST connector model) **NEW**
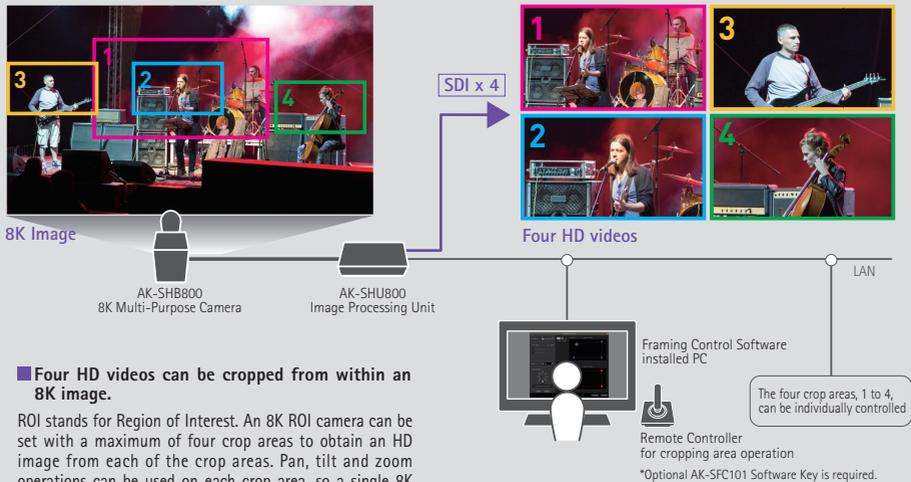
Software Key
AK-SFC101 **NEW**

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

- 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]/ HRP1005GJ[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.
[2]: Optional AK-SFC101 Software Key is required.

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.

AK-SHB800GJ / AK-SHB800PSJ

(Preliminary)

General	
Power	DC12 V (DC11 V – 17 V)
Weight	Approx. 4.0 kg (8.82 lbs)
Dimensions (W x H x D)	180 mm x 190 mm x 177 mm (7-1/8 inches x 7-1/2 inches x 7 inches) (excluding protrusions)
Sensor	Full size, MOS x 1
Lens Mount	EF
ND Filter	CLEAR, 1/4, 1/16, 1/64
Function	ROI, HDR (HLG), BT.2020 supported

AK-SHU800EJ / AK-SHU800PSJ

(Preliminary)

General	
Power	AC 100 V – 240 V, 50 Hz/60 Hz
Weight	Approx. 14 kg (30.86 lbs)
Dimensions (W x H x D)	424 mm x 130 mm x 401 mm (16-3/4 inches x 5-1/8 inches x 15-13/16 inches) (3U rack mount size, excluding protrusions)
Output Format	59.94 Hz: 4320/59.94p, 2160/59.94p, 1080/59.94p, 1080 (crop)/59.94p, 1080/59.94i, 720/59.94p, 720(crop)/59.94p 50 Hz: 4320/50p, 2160/50p, 1080/50p, 1080 (crop)/50p, 1080/50i, 720/50p, 720 (crop)/50p
Remote Operation Panel (ROP)	AK-HRP1000GJ*, AK-HRP1005GJ*

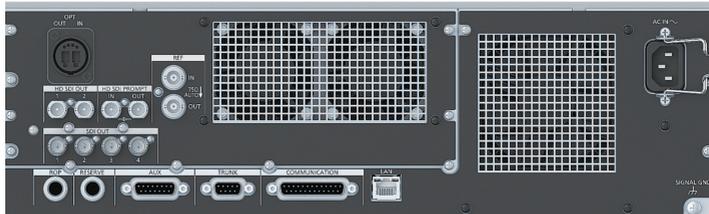*1: Software must be updated when used with the AK-SHB800 8K Multi-Purpose Camera.

■Optional Accessories

Remote Operation Panel (ROP)
AK-HRP1000GJ
AK-HRP1005GJ*

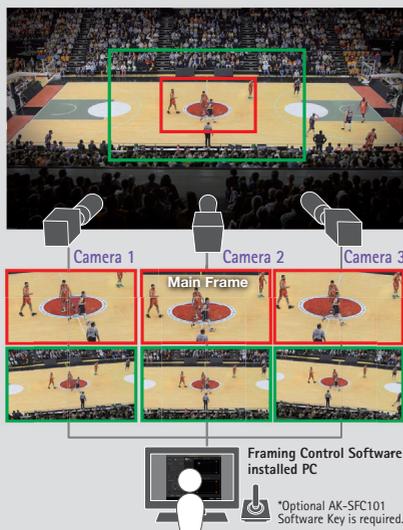* Compatibility scheduled to be provided from October 2019.

● See page 12 for details.

AK-SHU800 Rear Panel

* This picture is for LC connector model. There are other versions for ST connector model.

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.

■ 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.

Camera 1　Camera 2　Camera 3
Main Frame

Framing Control Software installed PC

*Optional AK-SFC101 Software Key is required.

▲ 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.

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

Cropping Area

Image without correction
Distortion visible in an image cropped from the periphery

Image after correction
Distortion automatically corrected

▲ Sample images after automatic wide-angle distortion correction

*The pictures are images for explaining functions.