



4K Studio Camera with superior flexibility and futureproof IP

AK-UCX100

The new AK-UCX100GSJ 4K studio camera is fully equipped to meet the demands for high-quality video and innovative on-site live production in the IP era, including studio work, sports broadcasting and stage productions. Panasonic's new camera achieves exceptional high-definition for detailed reproduction with 2,000 TV lines (TVL), both horizontal and vertical. In addition, the rich gradation and colors of stage productions, etc. are achieved with a wide dynamic range and wide color gamut thanks to High Dynamic Range (HDR) technology (incl. HLG format) based on the BT.2020 standard. The AK-UCX100GSJ can be operated as a standalone camera head, without requiring a Camera Control Unit (CCU), and it supports a variety of IP standards, including SMPTE ST 2110, NDI® High Bandwidth, and SRT, as well as 12G-SDI (x2). SMPTE ST 2110 enables network redundancy and supports JPEG XS for low-latency transmission, ensuring visually lossless video quality and extra-stable IP operation.

Key Features

Independent operation without a CCU

Supports 12G-SDI (x2), SMPTE ST 2110, NDI® High Bandwidth, SRT, and more

Supports network redundancy (SMPTE ST 2110)

Simultaneous HDR/HLG (BT.2020) and SDR (BT.709)

2,000 TVL horizontal and vertical resolution



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<https://latam.connect.panasonic.com/pe/en/products/broadcast-proav/ak-ucx100>

Power Supply	DC 12 V (when using an external power supply) AC 240 V, 50 Hz/60 Hz (AK-UCU710PSJ/ESJ/PJ/EJ, AK-UCU700PSJ/ESJ/PJ/EJ, AK-CFA100 in connected)
Power Consumption	119 W (maximum, when connecting to an external 12 V and including supply to an externally connected devices) 360 W (maximum, when AK-UCU710PSJ/ESJ/PJ/EJ, AK-UCU700PSJ/ESJ/PJ/EJ, AK-CFA100 is connected and including supply to an externally connected devices)
Operating Temperature	-10 °C to 45 °C (14 °F to 113 °F) (Preheating required under a temperature 0 °C (32 °F) or below)
Operating Humidity	85% or less (relative humidity)
Storage Temperature	-20 °C to 60 °C (-4 °F to 140 °F)
Weight	Approx. 4.5 kg (9.90 lbs.) (body only, excluding the accessories)
Dimensions (W x H x D)	Body only 157 mm x 267 mm x 371.5 mm (6-3/16 inches x 10-17/32 inches x 14-21/32 inches) (excluding protrusions)
Pickup Device	19.29 million pixels, MOS Sensor
Optical Filter	ND: CLEAR, 1/2, 1/4, 1/16, 1/64 FX: CLEAR, CLEAR (OP*), CROSS, Diffusion, CAP * Option: HD Low Pass filter
Lens Mount	2/3-type bayonet
Sensitivity	Two shooting modes [LOW LIGHT]: 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%
S/N	62 dB or above
Horizontal Resolution	4K: 2000 TV lines or above (center) HD: 1000 TV lines or above (center)
Gain Switching	-6, -3, 0, 3, 6, 9, 12, 15, 18

Shutter Speed	[59.94i]/[59.94p]mode: 1/100, 1/120, 1/125, 1/250, 1/500, 1/1000, 1/1500, 1/2000 [29.97p]mode: 1/48, 1/50, 1/60, 1/96, 1/100, 1/120, 1/125, 1/250, 1/500, 1/1000, 1/1500, 1/2000 [23.98p]mode: 1/48, 1/50, 1/60, 1/96, 1/100, 1/120, 1/125, 1/250, 1/500, 1/1000, 1/1500, 1/2000 [50i]/[50p]mode: 1/60, 1/100, 1/125, 1/250, 1/500, 1/1000, 1/1500, 1/2000 [25p]mode: 1/48, 1/50, 1/60, 1/96, 1/100, 1/125, 1/250, 1/500, 1/1000, 1/1500, 1/2000
System Format	3840 x 2160/59.94p/50p/29.97p/25p/23.98p 1920 x 1080/59.94p/50p/29.97p/25p/23.98p
<SDI OUT2> terminal	BNC x 1 12G/3G/1.5G-SDI: 0.8 V[p-p], 75 Ω
<TRUNK> terminal	BNC x 1 3G/1.5G-SDI: 0.8 V[p-p], 75 Ω
<MIC 1> terminal	XLR x 1, 3-pin // switchable For , / switchable : 0 dBu, +4 dBu menu selection available : -60 dBu, -40 dBu, -20 dBu menu selection available
<MIC 2> terminal	XLR x 1, 3-pin // switchable : 0 dBu, +4 dBu menu selection available : -60 dBu, -40 dBu, -20 dBu menu selection available
<MIC> terminal (front)	XLR x 1, 3-pin Switchable with terminal
<INTERCOM1> terminal	XLR x 1, 5-pin
<INTERCOM2> terminal	XLR x 1, 5-pin
<EARPHONE> terminal	Stereo mini jack x 1, 3-pin
<OPT FIBER> terminal	Optical composite connector x 1
<LENS> terminal	12-pin x 1
<VF> terminal	20-pin x 1
<VF> terminal (rear)	29-pin x 1
<DC IN> terminal	XLR x 1, 4-pin, DC 12 V
<DC OUT 12 V 1 A> terminal	4-pin x 1
<RET CTRL> terminal	6-pin x 1
<EXT I/O> terminal	20-pin x 1, DC 12 V, 0.5 A
<REMOTE> terminal	10-pin x 1
[DC OUT 12V 2.5A] terminal	2-pin x 1
<LAN> terminal	RJ-45 x 1
Build-up Terminal	20-pin x 1 BNC x 1 12G/3G/1.5G-SDI: 0.8 V[p-p], 75 Ω BNC x 1 : Tri-level SYNC pr black burst : black signal without burst SFP28 x 1 SFP28 x 1 Type C connector (USB Power Delivery)