

Specifications (Preliminary)

AK-UCX100GSJ

総合	
電源	DC 12 V (外部電源供給時) AC 240 V、50 Hz/60 Hz (AK-UCU710/AK-UCU710S/ AK-UCU700/AK-UCU700S/AK-CFA100接続時)
消費電力	119 W (外部12 V接続時 (外部接続機器への供給含む) 最大) 360 W (AK-UCU710/AK-UCU710S/AK-UCU700/AK-UCU700S/ AK-CFA100接続時 (外部接続機器への供給含む) 最大)
動作周囲温度	-10 °C ~ 45 °C (0 °C以下では予熱が必要)
動作周囲湿度	85% 以下 (相対湿度)
保存温度	-20 °C ~ 60 °C
質量	約4.55 kg (本体のみ、付属品を除く)
外形寸法	幅 157 mm×高さ 267 mm×奥行 371.5 mm (本体のみ、突起部分を除く)
カメラ部	
撮像素子	1929万画素、CMOS×1
光学フィルター	ND : CLEAR、1/2、1/4、1/16、1/64 FX : CLEAR、CLEAR (OP*)、CROSS、Diffusion、CAP ※Option : HD Low Pass filter
レンズマウント	2/3型バヨネット式
感度	2撮影モード [LOW LIGHT] : F10 (59.94 Hz) /F11 (50 Hz) [NORMAL] : F6 (59.94 Hz) /F7 (50 Hz) 2000 lx、3200 K、白反射率 89.9%時
水平変調度	30%以上 (4K)
S/N	62 dB以上
水平解像度	4K : 2000TV本以上 (中心) HD : 1000TV本以上 (中心)
ゲイン切り替え	-6、-3、0、3、6、9、12、15、18
シャッタースピード	[59.94i] / [59.94p] モード : 1/100、1/120、1/125、1/250、 1/500、1/1000、1/1500、1/2000 [29.97p] モード : 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] モード : 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] モード : 1/60、1/100、1/125、1/250、1/500、 1/1000、1/1500、1/2000 [25p] モード : 1/48、1/50、1/60、1/96、1/100、1/125、 1/250、1/500、1/1000、1/1500、1/2000
システムフォーマット	3840×2160/59.94p/50p/29.97p/25p/23.98p 1920×1080/59.94p/50p/29.97p/25p/23.98p
ビデオ入出力部	
(SDI OUT 1) 端子	BNC×1 12G/3G/1.5G-SDI : 0.8 V [p-p]、75 Ω
(SDI OUT 2) 端子	BNC×1 12G/3G/1.5G-SDI : 0.8 V [p-p]、75 Ω
(TRUNK IN) 端子	BNC×1 3G/1.5G-SDI : 0.8 V [p-p]、75 Ω
(G/L IN/REF OUT) 端子	BNC×1 (G/L IN) : 3値 SYNC またはブラックバースト (REF OUT) : ブラック (バーストなし) 信号
オーディオ入出力部	
(MIC 1) 端子	XLR×1、3ピン オス (LINE) / (MIC) / (+48 V) 切り替え式 (MIC) 時、(FRONT) / (REAR) 切り替え式 (LINE) : 0 dBu、+4 dBu メニュー選択可 (MIC) : -60 dBu、-40 dBu、-20 dBu メニュー選択可
(MIC 2) 端子	XLR×1、3ピン オス (LINE) / (MIC) / (+48 V) 切り替え式 (LINE) : 0 dBu、+4 dBu メニュー選択可 (MIC) : -60 dBu、-40 dBu、-20 dBu メニュー選択可

(MIC) 端子 (フロント)	XLR×1、3ピン オス (MIC 1) 端子との切り替え式
インターコム部	
(INTERCOM 1) 端子	XLR×1、4ピン オス
(INTERCOM 2) 端子	XLR×1、4ピン オス
(EARPHONE) 端子	ステレオミニジャック×1
その他入出力部	
(OPT FIBER) 端子	光複合コネクタ×1
(SFP 1) 端子	SFP28×1
(SFP 2) 端子	SFP28×1
(LENS) 端子	12ピン×1
(VF) 端子	20ピン×1
(VF) 端子 (リア)	29ピン×1
(DC IN) 端子	XLR×1、4ピン、DC12 V
(DC OUT 12V 1A) 端子	4ピン×1
(RET CTRL) 端子	6ピン×1
(EXT I/O) 端子	20ピン×1、DC12 V、0.5 A
(REMOTE) 端子	10ピン×1
(DC OUT 12V 2.5A) 端子	2ピン×1
(LAN) 端子	RJ-45×1
(USB3.0 HOST) 端子	タイプCコネクタ、USB Power Delivery対応 (DC 9.0 V/3.0 A)
ビルドアップ端子	20ピン×1

AK-UCX100GSJ
Rear View



AK-CFA100 Rear View



AK-UCU700 Series Rear View (When all options are installed)



* NDI® is a video connectivity technology and is registered as a trademark by Vizrt NDI AB in the United States and other countries. * Dante® is a registered trademark of Audinate Pty Ltd.



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*Specifications are subject to change without notice.

SP-C-UCX100ENU1



AK-UCX100GSJ

4K Studio Camera

Scheduled for release in the fourth quarter of CY2024

<Preliminary>

Pursing Futuristic Video Production Together
with Today's Creators



Essential On-site Capabilities that Anticipate the Future

The AK-UCX100GSJ 4K Studio Camera delivers high-definition video with excellent color reproduction for not only studio work and sports but also today's increasingly sophisticated live stage productions. The camera head supports 12G-SDI (2 systems), SMPTE ST 2110, NDI® High Bandwidth and SRT for superior operability. In addition to meeting the demands for visual beauty in the field, Panasonic's new 4K Studio Camera is also equipped to pave the way for futuristic video production in the coming IP era.



AK-UCX100GSJ 4K Studio Camera

Scheduled for release in the fourth quarter of CY2024



POINT1

CCU-less Operation

The AK-UCX100GSJ can be operated as a standalone camera head free from the conventional need for a Camera Control Unit (CCU). Or, if required in an on-site environment, it can be operated in combination with the AK-CFA100 Camera Fiber Adapter or an AK-UCU700 Series CCU.

Key Features

- F10 (2000 lux) sensitivity with S/N ratio of 62 dB or higher
- Simultaneous HDR/HLG (BT.2020) and SDR (BT.709) operation
- Built-in ND and FX filters
- HD optical low-pass filter mountable alongside FX filter (paid option)
- Remote Operation Panel (ROP) for simultaneous control of Panasonic PTZ cameras
- High-precision focus assist suitable for live shooting
- High-speed shooting at 120p for 4K and 240p for HD
- Genlock input and reference output

POINT2

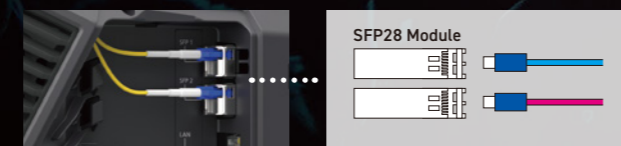
ST 2110 Standard Support

The camera is compatible with the SMPTE ST 2110 standard for high-quality, low-latency IP transmissions, and is also capable of 4K uncompressed and JPEG XS compressed transmissions. Furthermore, SMPTE ST 2022-7 compatibility enables redundant operation without a CCU.

POINT3

2000 TVL High Resolution

Equipped with a large 19.29-megapixel MOS sensor, the AK-UCX100GSJ achieves a resolution of 2,000 TV lines (TVL), both horizontally and vertically, for exquisitely detailed reproduction. In addition, the wide dynamic range and color gamut of HDR (HLG)/BT.2020 faithfully captures stage productions in full color for immersive video imagery.



The BiDi SFP28 module enables redundant operation via the AK-CFA100. Alternatively, a standard SFP28 module allows redundant operation of the camera head by directly connecting an external optical cable.

Camera Fiber Adapter for AK-UCX100GSJ Operation

AK-CFA100

Camera Fiber Adaptor

Scheduled for release in the fourth quarter of CY2024

- Supplies power to a camera up to 2 km away via an optical composite cable
- Compact design with 2U half-size rack mount



Simultaneous 4K-HDR/HD-SDR operation, ST 2110 and IP standards including Dante®

AK-UCU710PSJ/ESJ (LEMO Connector Model)

AK-UCU710PJ/EJ (Tajimi Connector Model)

Camera Control Unit (CCU)
ST 2110 and Dante® I/Fs installed Model

AK-UCU700PSJ/ESJ (LEMO Connector Model)

AK-UCU700PJ/EJ (Tajimi Connector Model)

Camera Control Unit (CCU) Basic Model

- Uncompressed optical transmission up to approx. 2 km between camera and CCU*1
- Simultaneous HDR/SDR and HDR BT.2020/BT.709 outputs
- Up to 8 SDI outputs, including two 12G-SDI
- High-speed shooting up to 2x for 4K and 4x for HD



- 4K uncompressed and JPEG XS with ST 2110/NMOS option*2
- Redundant operation with two SFP28 connectors*2
- Dante®*3 network audio connectivity and streaming output via NDI®*4 and SRT*4

*1: When powered by CCU.
*2: Standard in AK-UCU710PSJ/ESJ/PJ/EJ. AK-UCU700PSJ/ESJ/PJ/EJ require AK-NP701G ST 2110 Option (sold separately). Optical communication modules not included. Third-party SFP28 modules must be purchased separately.
*3: Standard in AK-UCU710PSJ/ESJ/PJ/EJ. AK-UCU700PSJ/ESJ/PJ/EJ require AK-NP702G Dante® Audio Option (sold separately).
*4: Requires AK-NP703G Streaming Option (sold separately).

Redundant Operation (examples)

