



IT/IP Centric Live Video Processing Platform

AT-KC200

IT/IP Platform "KAIROS" achieves higher performance by fully utilizing the power and flexibility of its CPU and GPU, balancing total processing load without the configuration constraints of traditional hardware based systems. KAIROS offers unrestricted flexibility of input, output and operation for efficient production of expressive live videos

Key Features

A variety of inputs and outputs available for use

Resolution and format independent

Layered structure for versatile video expression

Flexibility and scalability

ST 2022-7 Network Redundancy



AT-KC200

<https://latam.connect.panasonic.com/br/en/products/broadcast-proav/kc200>

Power Requirement	AC100-127V/200-240V, 50/60Hz, 10A/5A, Redundant
Operating Temperature	5 to 35 degree Celsius
Operating Humidity	10% to 90% (no condensation)
Weight	Approx. 17 kg without accessories & options
Dimensions (W x H x D)	430 mm x 176 mm x 505 mm (4RU)
Video/Audio/Synchronous	
Support Video Format	
4K	2160/60p, 59.94p, 50p, 30p, 29.97p, 25p, 24p, 23.98p
FHD	1080/60p, 59.94p, 50p, 30p, 29.97p, 25p, 24p, 23.98p
HD	1080/59.94i, 50i, 720/60p, 59.94p, 50p
Signal Processing	Y/Pb/Pr: 4:2:2 10 bit
Audio Format	
ST 2110-30 (AES67)	48 KHz/24 bit
Synchronous	
PTP Sync	Support for QSFP and GbE port
FS (Frame Synchronize)	For each CH, always ON (can't turn off)
Frame Delay	0 frame to 12 frame, 1 frame step
I/O Specification	
IP	
QSFP	QSFP28 x 2, 100GbE (ST 2110, PTP sync)
LAN	RJ-45 x 2, 1GbE (Control system, PTP sync, NDI®*1, RTP/SRT/RTMP/RTSP)
Baseband	
DisplayPort	DisplayPort 1.4 x 4, for Multiview output
HDMI	Use of recommended products / Yes, Please refer to "Third party product" page https://pro-av.panasonic.net/en/support/kairos_partners.html
Agile Input Routing Support	
ST 2110	✓ 1.5G (1080i, 720p): 64 in / 40 out*2 3G (1080p): 32 in / 40 out *2 4K: 8 in / 10 out *2
ST 2022-7 Redundancy	✓ No halving of input*2 halving of output
Function	
Key	No restriction, depend on GPU performance
Control Panel	AT-KC10C1/KC10C2, up to 8 units each, up to 16 units in total can be connected
Still Store	7 GB storage, up to 4K resolution
RAM Player	8 CH, 32 GB, Uncompressed, HD/4K * Max. RAM capacity is reduced with SDI I/O boards installed. For details, please check SDI I/O board web page.
Clip Player	2 CH, 400 GB (Share capacity with audio player), compressed, AVC-Intra/H.264/DNxHD/ProRes
Audio Player	4CH, 400 GB (Share capacity with clip player), compressed, WAV/MP3/Ogg/FLAC/AIFF
Multiviewer	
Output Format	HD/4K
Display	4 ch, Max. 36 PiP
Cropping	Yes
User Management	
Tally	
Option	4K (equipped as standard) I/O (equipped as standard) CANVAS (equipped as standard) RossTalk (option), RossTalk, Ross and XPrEsson, are trademarks or registered trademarks of Ross Video Limited. NMOS (option), NMOS (Networked Media Open Specifications) is a protocol standardized by AMWA (Advanced Media Workflow Association) for controlling and managing devices via IP networks. Audio Mixer (option) Touch Control Panel Software (option)* Supported by KAIROS software version 1.5 or later.
Accessories	
AC Cable	2

Note

*1:NDI® is a new protocol developed by NewTek, Inc. that supports IP video production workflow. NDI® is a registered trademark of Vizrt NDI AB in the United States and other countries. In this instance, NDI® is used to indicate low latency with NDI® High Bandwidth.

*2:KAIROS software version 1.6 or later.

*3:The optional AT-KC20M1 SDI I/O boards are required. The numbers of input/output shown here are the maximum numbers that can be loaded.

Micro BNC x Max. 48 *2*3

1.5G (1080i, 720p): Max. 32 in / 16 out *2*3

3G (1080p): Max. 32 in / 16 out *2*3

4K: Max. 16 in / 8 out *2*3

8 in / 2 out (only input for RTSP)

No restriction, depend on GPU performance

ST 2110-10, ST 2110-20, ST 2110-30

8 CH IN, RTP/SRT/RTMP/RTSP switchable, H.264 HD, Audio: 16 CH each for SRT, 8 CH each for RTMP/RTSP

* 720p video signal from Panasonic PTZ cameras is not supported. For RTSP, only input is supported. Note that RTSP input does not work with the AW-HE130W/K (Discontinued model) and AW-HR140 (Limited stock) PTZ cameras.

2 CH OUT, RTP/SRT/RTMP switchable, H.264 HD, Audio: 16 CH each for SRT, 8 CH each for RTMP/RTSP

Yes

Yes

Up to 8K (32M pixels) resolution

Yes

Yes

Yes

Yes

Yes

Yes

Yes

Yes

Yes

Yes

Yes

Yes

Yes

Yes

Yes

Yes

Yes

Yes

Yes

Yes

Yes

Yes

Yes

Yes (with AT-SF005 Audio Mixer option)

Yes*2

Yes

Yes, TSL5.0 (incl. AK-UC4000), Panasonic AW-PTZ

Yes, Please refer to "Third party product" page

https://pro-av.panasonic.net/en/support/kairos_partners.html#thirdparty

1 set with screws

Yes, Protocol, The command table is available from the PASS KAIROS Website.

Yes, (With AT-SFE01 RossTalk option)

Yes, Please refer to "Third party product" page

Yes, IS-04, IS-05, (With AT-SFE03 NMOS option)

Yes, Please refer to "Third party product" page

ST 2110-10, ST 2110-20, ST 2110-30

Yes, T2 server easy control (AMP)

Yes, Hyper Deck Studio easy control

Yes, supports AUX bus control and macro control

Yes *

*KAIROS software version 1.7 or later.

2 CH IN and 2 CH OUT, Audio: 16 CH each, NDI®*1 High Bandwidth, up to FHD resolution

* 2CH IN and 2CH OUT are available separately from RTP/SRT/RTMP/RTSP streaming.

Yes

2 in / 2 out, 16 CH audio for each