



IT/IP Centric Live Video Processing Platform

AT-KC2000

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-KC2000

<https://latam.connect.panasonic.com/pa/en/products/broadcast-proav/kc2000>

General	
Weight	Approx. 17 kg without accessories & options
Dimensions (W x H x D)	430 mm x 176 mm x 505 mm (4RU)
Operating Temperature	5 to 35 degree Celsius
Operating Humidity	10% to 90% (no condensation)
Power Requirement	AC100-127V/200-240V, 50/60Hz, 10A/5A, Redundant
Signal Processing	Y/Pb/Pr: 4:2:2 10 bit
HD	1080/59.94i, 50i, 720/60p, 59.94p, 50p
4K	2160/60p, 59.94p, 50p, 30p, 29.97p, 25p, 24p, 23.98p
Video/Audio/Synchronous	
Support Video Format	
FHD	1080/60p, 59.94p, 50p, 30p, 29.97p, 25p, 24p, 23.98p
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
LAN	RJ-45 x 2, 1GbE (Control system, PTP sync, NDI®*1, RTP/SRT/RTMP/RTSP)
HDMI	Use of recommended products / Yes, Please refer to "Third party product" page https://pro-av.panasonic.net/en/support/kairos_partners.html
I/O Specification	
IP	
QSFP	QSFP28 x 2, 100GbE (ST 2110, PTP sync)
Baseband	
DisplayPort	DisplayPort 1.4 x 4, for Multiview output Micro BNC x Max. 48 *2*3
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 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 16 in / 4 out (only input for RTSP)
Function	
Control Panel	AT-KC10C1/KC10C2, up to 8 units each, up to 16 units in total can be connected
Key	No restriction, depend on GPU performance
RAM Player	8 CH, 96 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, 850 GB (Share capacity with audio player), compressed, AVC-Intra/H.264/DNxHD/ProRes
Still Store	32 GB storage, up to 4K resolution No restriction, depend on GPU performance
Audio Player	4CH, 850 GB (Share capacity with clip player), compressed, WAV/MP3/Ogg/FLAC/AIFF 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

