



## 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

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A variety of inputs and outputs available for use

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Resolution and format independent

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Layered structure for versatile video expression

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Flexibility and scalability

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ST 2022-7 Network Redundancy

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## AT-KC2000

<https://ep-com-p-connect-latam.wd.pisceu.panasonic.eu/br/en/products/broadcast-proav/kc2000>

### General

<b>Weight</b>	Approx. 17 kg without accessories & options
<b>Dimensions (W x H x D)</b>	430 mm x 176 mm x 505 mm (4RU)
<b>Operating Temperature</b>	5 to 35 degree Celsius
<b>Operating Humidity</b>	10% to 90% (no condensation)
<b>Power Requirement</b>	AC100-127V/200-240V, 50/60Hz, 10A/5A, Redundant
<b>Signal Processing</b>	Y/Pb/Pr: 4:2:2 10 bit
<b>HD</b>	1080/59.94i, 50i, 720/60p, 59.94p, 50p
<b>4K</b>	2160/60p, 59.94p, 50p, 30p, 29.97p, 25p, 24p, 23.98p
<b>Video/Audio/Synchronous</b>	
<b>Support Video Format</b>	
<b>FHD</b>	1080/60p, 59.94p, 50p, 30p, 29.97p, 25p, 24p, 23.98p
<b>Audio Format</b>	
<b>ST 2110-30 (AES67)</b>	48 KHz/24 bit
<b>Synchronous</b>	
<b>PTP Sync</b>	Support for QSFP and GbE port
<b>FS (Frame Synchronize)</b>	For each CH, always ON (can't turn off)
<b>Frame Delay</b>	0 frame to 12 frame, 1 frame step
<b>LAN</b>	RJ-45 x 2, 1GbE (Control system, PTP sync, NDI@*1, RTP/SRT/RTMP/RTSP)
<b>HDMI</b>	Use of recommended products / Yes, Please refer to "Third party product" page <a href="https://pro-av.panasonic.net/en/support/kairos_partners.html">https://pro-av.panasonic.net/en/support/kairos_partners.html</a>

### I/O Specification

<b>IP</b>	
<b>QSFP</b>	QSFP28 x 2, 100GbE (ST 2110, PTP sync)
<b>Baseband</b>	
<b>DisplayPort</b>	DisplayPort 1.4 x 4, for Multiview output Micro BNC x Max. 48 *2*3
<b>Agile Input Routing Support</b>	
<b>ST 2110</b>	✓ 1.5G (1080i, 720p): 64 in / 40 out*2  3G (1080p): 32 in / 40 out *2  4K: 8 in / 10 out *2
<b>ST 2022-7 Redundancy</b>	✓ 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

<b>Control Panel</b>	AT-KC10C1/KC10C2, up to 8 units each, up to 16 units in total can be connected
<b>Key</b>	No restriction, depend on GPU performance
<b>RAM Player</b>	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.

<b>Clip Player</b>	2 CH, 850 GB (Share capacity with audio player), compressed, AVC-Intra/H.264/DNxHD/ProRes
<b>Still Store</b>	32 GB storage, up to 4K resolution No restriction, depend on GPU performance
<b>Audio Player</b>	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



