

Panasonic

KAIROS

January 2026

IT/IP Platform "KAIROS" AT-KC200L1

Kairos Core 200 (Main Frame)

Kairos Core 200 AT-KC200L1 for Innovative Live Video Production in SDI

Flexible and Diverse Video Production

GPU-based video processing enables multi-layer configurations not limited by the number of MEs or keys, a canvas function that enables use of irregular aspects such as 32:9 and portrait, and support for flexible resolution settings not bound by standard formats.* With such capabilities and more, KAIROS ensures highly flexible and diverse video production.

* Requires software version 2.0 or later, and supports for both ST 2110 and HDMI input/output. Supports resolutions up to 9.8 megapixels.

Increased Efficiency and Productivity

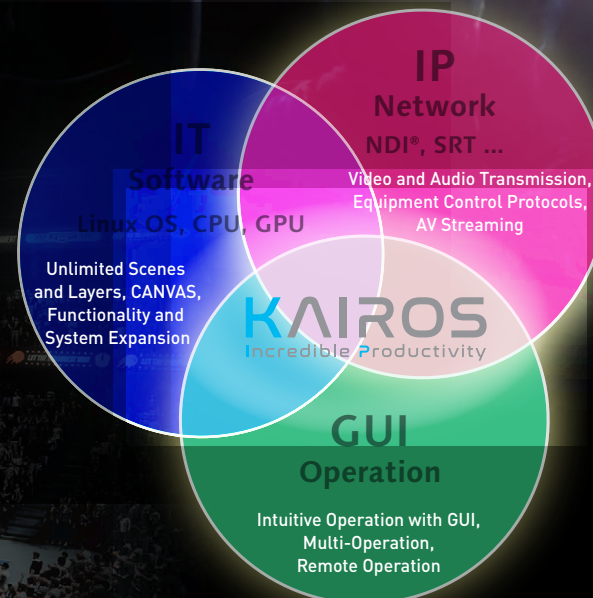
With a network connection, a single system can be operated via multiple control panels or intuitive GUI software. And KAIROS supports Multiple Core Control,*1 enabling two mainframes to be operated from a single control panel. Remote operation, pre-building of scenes (effects) and training using the Kairos Emulator*2 are also possible.

*1: Requires Kairos Software Ver. 1.8 or later. *2: Requires Kairos Software Ver. 1.7 or later.

High Flexibility and Expandability

Support is available for a wide variety of video inputs and outputs, including not only SDI baseband, but also IPs such as ST 2110,* SRT and NDI®. The software-based open-architecture enables easy integration with external devices and third-party systems through software upgrades.

*2: Please contact your distributor for details on using ST 2110 inputs and outputs.



AT-KC200L1 front panel



AT-KC200L1 rear panel

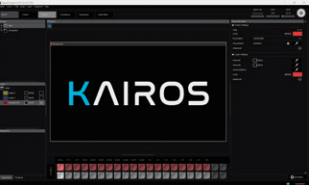
•NDI® is a registered trademark of Vizrt NDI AB in the United States and other countries.

Kairos Core 200 AT-KC200L1 Specifications

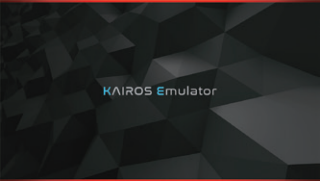
General			
Power Requirement:	AC IN x 2, 100-127 V/200-240 V, 50/60 Hz, Redundant power supply		
Current Consumption:	10.0 A / 5.0 A		
Operating/Storage Temperature:	5 to 35 °C / –20 to 60 °C		
Operating Humidity:	10% to 90%, no condensation		
Weight:	Approx. 17.8 kg / 39.24 lb, without accessories & options		
Dimensions (W x H x D):	430 mm x 176 mm x 505 mm / 16-15/16" x 6-15/16" x 19-7/8" (4 RU size) excluding protruding parts		
OS:	Linux		
Number of Video I/O			
Please check the web for details on the number of I/O due to operation.			
SDI: *1	1.5G:	24 in / 12 out (Max. 32 in / 16 out) *1	
	3G:	24 in / 12 out (Max. 32 in / 16 out) *1	
	4K:	12 in / 6 out (Max. 16 in / 8 out) *1	
HDMI: *2	Max. 8 in or 8 out *2		
ST 2110: *3	1.5G:	64 in / 40 out	
	3G:	32 in / 40 out	
	4K:	8 in / 10 out	
ST 2022-7 Redundancy: *3	No halving of input, halving of output		
NDI® High Bandwidth:	2 in / 2 out, 16 CH audio for each, HD only		
SRT/RTSP/RTP/RTMP:	8 in / 2 out (only input for RTSP), HD only		
Number of Audio I/O (when both Audio1 and Audio2 are used)			
ST 2110: *3	64 in / 40 out		
ST 2022-7 Redundancy: *3	No halving of both input/output		
I/O Terminals			
QSFP: *3	100G QSFP28 x 2		
DisplayPort:	DisplayPort 1.4 x 4, for Multiviewer Output		
LAN:	RJ-45 x 2, 1 GbE		
SDI IN/OUT:	Micro BNC, 24 in / 12 out (Max. 32 in / 16 out) *1		
REF IN/OUT:	Micro BNC, 3 in / 3 out (Max. 8 in / 8 out)*1		
HDMI IN/OUT: *2	HDMI Type A, Max. 8 in or 8 out *2		
VGA:	Dsub-15 pin, for system installation		
USB:	USB 3.2 Gen1 Type-A x 4, for system installation		
Video/Audio Format			
4K	3840 x 2160	60p, 59.94p, 50p, 30p, 29.97p, 25p, 24p, 23.98p	
FHD	1920 x 1080	60p, 59.94p, 50p, 30p, 29.97p, 25p, 24p, 23.98p, 60i, 59.94i, 50i	
HD	1280 x 720	60p, 59.94p, 50p, 30p, 29.97p, 25p, 24p, 23.98p	
SD NTSC*4	720 x 480	59.94i	
SD PAL*4	720 x 576	50i	
DCI 2K*4	2048 x 1080	60p, 59.94p, 50p, 30p, 29.97p, 25p, 24p, 23.98p	
DCI 4K*4	4096 x 2160	60p, 59.94p, 50p, 30p, 29.97p, 25p, 24p, 23.98p	
16:9*4	1366 x 768, 1600 x 900	60p, 59.94p, 50p, 30p, 29.97p, 25p, 24p, 23.98p	
4:3*4	640 x 480, 1024 x 768, 1400 x 1050, 1600 x 1200	60p, 59.94p, 50p, 30p, 29.97p, 25p, 24p, 23.98p	
	1280 x 800, 1440 x 900, 680 x 1050, 1920 x 1200, 3840 x 2400	60p, 59.94p, 50p, 30p, 29.97p, 25p, 24p, 23.98p	
5:4*4	1280 x 1024	60p, 59.94p, 50p, 30p, 29.97p, 25p, 24p, 23.98p	
• In addition to the above formats, supports any resolution up to a maximum of 9.8 megapixels (adjustable pixel units: 4 pixels)*4			

Color Model and Bit Depth/Audio Forma	
Color Space and Bit Depth: YCbCr 4:2:2 - 8/10/12 bit, YCbCr 4:4:4 - 8/10/12 bit *4 RGB - 8/10/12 bit *4, RGBA - 8/10/12 bit *4 Key - 8/10/12 bit *4	
Audio Format:	ST 2110-30 (AES67)*3, 48 kHz/24 bit
Synchronization	
PTP Sync:	QSFP and GbE, both ports supported
FS (Frame Synchronizer):	All input channels, always ON (without ON/OFF)
Frame Delay	0 frame to 12 frame, by 1-frame step
Latency	Min. 1-frame
Player	
Still Store:	7 GB storage, up to 4K
RAM Player:	8 CH, 32 GB storage, uncompressed *5
Clip Player:	2 CH, 400 GB storage (share with audio player), compressed, AVC-Intra/H.264/DN x HD/ProRes
Audio Player:	4 CH, 400 GB storage (share with clip player), compressed, WAV/MP3/Ogg/FLAC/AIFF
Functions	
Listed functions are only a part of the features. For details, please check our website.	
Multiviewer:	HD/4K x 4 out, max. 36 PiP for each Display: GPU Meter, Audio Level Meter, Clock, Vectorscope, Waveforms, etc.
Canvas:	Up to 8K (32 M-pixels)
Layer:	No restriction on number of Layers, Scenes (ME) and Keyers, depend on GPU performance, Visible usage with GPU meter
Effect:	Luminance Key, Chroma Key, DVE(2D/2.5D), Soft Border, Corner Fix , Color Correction, Crop, Film-look Effect*6, Glow Effect*6 etc.
Transition:	Multimix, Offset Transition, Transition Effects
Macro:	Scene-Specific Macros, LUA Script Support
Color Mat:	Bicolor Wash Mat, Test Pattern
Other Functions:	Audio Mixer *, Title Generator, Snapshot, User Management, Multi-Scene Control *11
Supported Standards and Protocols: REST API, Ross Talk*8, TSL 5.0*3, NMOS*9, AMP, ST 2110-10*3, ST 2110-20*3, ST 2110-30*3, HTML5 Graphics*10, SNMP*6	
*1: Three boards are pre-installed and one additional board can be installed.	
*2: Requires the optional HDMI Input Board AT-KC20M2 or HDMI Output Board AT-KC20M3. The AT-KC200L1 can install up to two boards. The numbers of input/output shown here are the maximum numbers that can be loaded.	
*3: Please contact your distributor for details on using ST 2110 input/output. Please make sure to check the specification on web for port restrictions when in use.	
*4: Supported for ST 2110 input/output with software version 1.8. From software version 2.0 onward, supported for both ST 2110 and HDMI input/output. However, the number of inputs and outputs may decrease depending on the resolution used.	
*5: Max. RAM capacity is reduced with SDI I/O boards, HDMI input boards, or HDMI output boards installed. The maximum capacity is reduced by 2 GB when updating to version 1.8. For details, please check our website.	
*6: Requires software version 1.7.0 or later.	
*7: Optional software key AT-SF005 is required.	
*8: Optional software key AT-SFE01 is required.	
*9: Optional software key AT-SFE03 is required.	
*10: Requires software version 1.8 or later.	
*11: Requires software version 2.0.	
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KAIROS System Equipment



AT-SFC10
Kairos Creator (GUI Software/Software Key)
Intuitive GUI for easy configuration of inputs/outputs, scenes, layers, etc.
OS: Windows 10/11, macOS Ventura/Sonoma/Sequoia
* Please contact your distributor to purchase.



Kairos Emulator
Free software that allows production and training with Kairos Creator in offline environments such as outside the studio or at home.
OS: Windows 10/11
*Requires version 1.7.0 or after.
Some functions can't use on Kairos Emulator.



AT-KC10C1
Kairos Control (Control Panel), Standard type
AT-KC10C2
Kairos Control (Control Panel), Compact type



An update list of KAIROS Alliance partners and test-verified devices can be found on the website.

Update

KAIROS Support Webpages

Update

FAQ

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Tutorial Videos

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Contact Details

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Specifications are subject to change without notice.

For more information, please visit Panasonic web site
https://pro-av.panasonic.net/en/