Panasonic CONNECT

Jan. 2024

IT/IP Platform "KAIROS"

Product Lineup and Specification Comparison Chart





Kairos Core (Main Frame) Lineup and Specifications

Product Name Model Number		Kairos Core 2000 AT-KC2000S1	Kairos Core 2000 AT-KC2000	Kairos Core 200 AT-KC200	Kairos Core 1000 AT-KC1000	Kairos Core 100 AT-KC100			
Product Image									
Rear Panel Connectors		LAN1/2, RJ-45 1Gb MV 1/2/3/4 (Display Port V1.4)	LAN1/2, RJ-45 1Gbe MV 1/2/3/4 (Display Port V1.4)	LAN1/2, RJ-45 1Gbe MV 1/2/3/4 (Display Port V1 DO DO D	4) QSFP28-1/2, 100 GbE W 1/2 AC IN Deltacast Gateway Port (Display Port V1.4) Call Call Call Call Call Call Call Cal	QSFP28-1/2, 100 GbE Deltacast Gateway Port			
MSRP		QSFP28-1/2, 100 GbE							
General									
Power Requirement		A	C IN ×2, 100-127 V/200-240 V, 50/60 H	z		AC IN ×2, 100-127 V/200-240 V, 50/60 Hz			
Current Consumption Operating/Storage Temperatur			10.0 A / 5.0 A		12.0 A / 9.0 A 8.0 A / 4.0 A 5 to 35 °C / -20 to 60 °C				
Operating/storage remperatur Operating Humidity			5 to 35 °C / –20 to 60 °C 10% to 90%, no condensation			no condensation			
Weight, without accessories &	& options		Approx. 17 kg / 37.47 lb		Approx. 17.4 kg / 38.30 lb	Approx. 10.6 kg / 23.36 lb			
Rack Mount Size			4 RU		2 RU	1 RU			
Dimensions (W x H x D)		430 mm × 176 mm × 505 mm 16-15/16" x 6-15/16" x 19-7/8"			438 mm × 88 mm × 620 mm 17-1/4" x 3-15/32" x 24-13/32"	438 mm × 43.5 mm × 620 mm 17-1/4" x 1-23/32" x 24-7/16"			
OS Baduadant Dawar Supaku			Linux		Li	nux			
Redundant Power Supply Number of Video I/O			√			J			
Agile Input Routing Support			√			√			
	1.5G		64 in / 40 out*1		64 in / 40 out	24 (48) in / 12 (32) out *2			
ST 2110	3G	64 in / 40 out *1	32 in / 4	10 out *1	32 in / 20 out	24 (32) in / 12 (16) out *2			
	4K	16 in / 10 out *1	8 in / 1		8 in / 5 out	6 (8) in / 3 (4) out *2*3			
ST 2022-7 Redundancy	455	$\sqrt{No halving of both input/output^{*1}}$		ut*1, halving of output	√ Both in/out halved				
SDI ***5	1.5G 3G	Max. 16 in / 8 out *1*4 Max. 16 in / 8 out *1*4	Max. 32 in Max. 32 in			32 out *5 32 out *5			
	4K	Max. 8 in / 4 out *1*4	Max. 32 In Max. 16 in			8 out *5			
NDI®*6 (HD only)		Max. 6 m7 + 6ut	2 in / 2 out, 16 CH audio for each	/ 0 000		CH audio for each			
SRT/RTSP/RTP/RTMP (HD only	ly)	16 in / 4 out (on	,	8 in / 2 out (only input for RTSF		6 in / 2 out (only input for RTSP)			
I/O Terminals									
QSFP (ST 2110, PTP sync)		100G QSFP28 × 4	100G QS	FP28 × 2	100G Q	SFP28 × 2			
DisplayPort (for Multiview Ou	utput)		DisplayPort 1.4 × 4			DisplayPort 1.4 × 2			
LAN SDI *4*5			RJ-45 × 2, 1 GbE	AA		RJ-45 × 2, 1 GbE			
HDMI		Micro BNC × Max. 24 *1*4	Micro BNC ×	rs/Tested Third Party Products".	Gateway Port × 8 *5				
DisplayPort			_		,	Use external converters. Please refer to "KAIROS Alliance Partners/Tested Third Party Products".			
VGA (for system installation)			Dsub-15 pin			Dsub-15 pin			
USB (for system installation)			USB3.2 Gen1 Type-A × 4		USB3.0 Type-A × 2	USB3.0 Type-A×2, USB2.0 Type-A × 2			
4K * ³ FHD HD		2160/60p, 59.94p, 50p, 30p, 29.97p, 25p, 24p, 23.98p 1080/60p, 59.94p, 50p, 30p, 29.97p, 25p, 24p, 23.98p 1080/59.94i, 50i, 720/60p, 59.94p, 50p Y/PB/PR, 4:2:2 10 bit √							
Signal Processing ST 2110-20	adals)			1080/59.94i, 50i, 720/60p, 59.94p	· · ·				
Signal Processing	odels)			1080/59.94i, 50i, 720/60p, 59.94p	· · ·				
Signal Processing ST 2110-20 Audio Format (same for all mo ST 2110-30 (AES67) Synchronization (same for all n				1080/59.94i, 50i, 720/60p, 59.94p Y/PB/PR, 4:2:2 10 bit √ 48 kHz/24 bit	50p				
Signal Processing ST 2110-20 Audio Format (same for all mo ST 2110-30 (AES67) Synchronization (same for all n PTP Sync				1080/59.94i, 50i, 720/60p, 59.94p Y/PB/PR, 4:2:2 10 bit √ 48 kHz/24 bit QSFP and GbE, both ports suppor	50p				
Signal Processing ST 2110-20 Audio Format (same for all mo ST 2110-30 (AES67) Synchronization (same for all m PTP Sync FS (Frame Synchronizer)				1080/59.94i, 50i, 720/60p, 59.94p Y/PB/PR, 4:2:2 10 bit √ 48 kHz/24 bit QSFP and GbE, both ports suppor nput channels, always ON (without	50p 				
Signal Processing ST 2110-20 Audio Format (same for all mo ST 2110-30 (AES67) Synchronization (same for all n PTP Sync				1080/59.94i, 50i, 720/60p, 59.94p Y/PB/PR, 4:2:2 10 bit √ 48 kHz/24 bit QSFP and GbE, both ports suppor	50p 				
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*1: Requires software version 1.6 or later. *2: AT-KC100 input/output numbers in () are when the optional AT-SF002 is added. *3: The optional AT-SF001 is required to use 4K video on the AT-KC100. *4: 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. *5: Deltacast FLEX modules are required. For details, please refer to our website "KAIROS Alliance Partners". *6: NDI[®] is a new protocol developed by NewTek, Inc. that supports IP video production workflow. NDI[®] is a registered trademark of NewTek, Inc. in the United States and other countries. In this instance, NDI[®] is used to indicate low latency with high bandwidth NDI[®]. *7: The CANVAS function of AT-KC100 requires the optional AT-SF003. Some functions may not be available. *8: RossTalk, Ross and XPression, are trademarks or registered trademarks of Ross Video Limited. *9: NMOS (Networked Media Open Specifications) is a protocol standardized by AMWA (Advanced Media Workflow Association) for controlling and managing devices via IP networks. *10: Optional AT-SF005 is required.

Kairos Control (Control Panel) Lineup and Specifications

Product Name Model Number	Kairos Control (Control Panel) AT-KC10C1	Kairos Control (Control Panel) AT-KC10C2		
Product Image				
MSRP				
General				
Power Requirement*	DC 12V, XLR 4 pin x 2	DC 12V, XLR 4 pin x 2		
Current Consumption	8.0 A	4.0 A		
Redundant Power Supply	1	\checkmark		
Dimensions (W x H x D, excluding protrusion)	1140 mm x 94 mm x 420 mm 44-7/8" x 3-45/64" x 16-17/32"	600 mm x 90 mm x 420 mm 23-5/8" x 3-35/64" x 16-17/32"		
Operating Temperature	0 to 40 °C	0 to 40 °C		
Operating Humidity	10% to 90%, no condensation	10% to 90%, no condensation		
Weight	Approx. 15.4 kg / 33.95 lb	Approx. 8.5 kg / 18.74 lb		
Rear Panel Terminals				
LAN	RJ-45 × 1, 1 GbE	RJ-45 × 1, 1 GbE		
USB	USB2.0 type A × 1	USB2.0 type A × 1		
Control Panel Terminal	·			
USB	USB2.0 type A × 1	_		

*AC adapter not included. Please check recommended products.

GUI Software and Various Options with Kairos Core

Model Number	Product Name	MSRP	AT-KC2000 AT-KC2000S1	AT-KC200	AT-KC1000	AT-KC100
AT-SFC10 OS: Windows 10, 11 macOS Monterey, Ventura, Sonoma	Kairos Creator		\checkmark	\checkmark	\checkmark	\checkmark
	Kairos Media		\checkmark	\checkmark	\checkmark	\checkmark
	Kairos Painter		\checkmark	\checkmark	\checkmark	\checkmark
	Kairos Audio Mixer		√*1	√*1	√*1	√*1
AT-SFTC10 OS: Windows 10, 11	Touch Control Panel Software		\checkmark	\checkmark	\checkmark	\checkmark
AT-SFCM10 *2 OS: Windows 10, 11	Kairos Core Manager		√* ³	√*3	√*³	√*³
AT-SF001	4K option		include	include	include	\checkmark
AT-SF002	I/O Option		include	include	include	\checkmark
AT-SF003	Canvas Option		include	include	include	\checkmark
AT-SF005	Audio Mixer Option		\checkmark	\checkmark	√	\checkmark
AT-SFE01	RossTalk*4 Option		\checkmark	\checkmark	\checkmark	1
AT-SFE03	NMOS*5 Option		\checkmark	\checkmark	\checkmark	\checkmark
AT-KC20M1	SDI I/O Board*6		√*7	√*7	_	-

*1: Requires AT-SF005 *2: Scheduled to be released in FY2023 4Q. *3: Requires software version upgrade. *4: RossTalk, Ross and XPression, are trademarks or registered trademarks of Ross Video Limited. *5: NMOS (Networked Media Open Specifications) is a protocol standardized by AMWA (Advanced Media Workflow Association) for controlling and managing devices via IP networks. *6: Up to 8 inputs/4 outputs (in HD/FHD) per board. *7: Requires software version 1.6 or later. Up to two cards can be attached to the AT-KC2000S1 and up to four cards to the AT-KC2000/KC200.

KAIROS; Platform for Innovative Live Video Production

Flexible Input/Output

Support for extensive baseband and IP packet signals, video formats, and inputs and outputs.

Unlimited Expression

KAIROS's unlimited scenes and layers combine with CANVAS's unrestricted aspect ratios for highly flexible video production.

Advanced Operation

IP connection enables operation via multiple control panels as well as remote operation. Software architecture realizes high system scalability.

KAIROS Alliance Partners

KAIROS leverages ever-expanding IT ecosystems for function expansion via new software and linkage with external devices. To further accelerate such linkage, Panasonic collaborates with diverse IT companies, video equipment manufacturers and suppliers.

KAIROS Case Studies



KAIROS helps realize unprecedented ballpark

Es Con Field Hokkaido (Staging & Event & HOW) Country: Japan Installation: March 2023

Panasonic Connect Co., Ltd. 2-15 Matsuba-cho, Kadoma, Osaka 571-8503 Japan



KAIROS delivers next-level concert experiences



For more information

please visit Panasonic web site

https://pro-av.panasonic.net/en/gr/





o CERte.



RTL2 Television uses KAIROS

to enhance remote production

Specifications are subject to change without notice.

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n: Summer 2021



Factories of Panasonic Connect Co., Ltd. have received ISO14001:2015-the Environmental Management System certification. (Except for 3rd party's peripherals.)

IP Network IT ST 2110. NDI®, SRT ... Software Video and Audio Transmission Linux OS, CPU, GPU Equipment Control Protocols, AV Streaming Unlimited Scenes and Layers, CANVAS, Functionality and System Expansion Productivit^{*} GUI Operation Intuitive Operation with GUI, Multi-Operation. Remote Operation

Three technologies that make up KAIROS



See website for latest list of KAIROS Alliance Partners and certified devices.

