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 * <sup>3</sup> 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 				
Signal Processing ST 2110-20 Audio Format (same for all mo ST 2110-30 (AES67) Synchronization (same for all n PTP Sync FS (Frame Synchronizer) Frame Delay				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 0 frame to 12 frame, by 1-frame s	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<sup>®</sup> is a new protocol developed by NewTek, Inc. that supports IP video production workflow. NDI<sup>®</sup> is a registered trademark of NewTek, Inc. in the United States and other countries. In this instance, NDI<sup>®</sup> is used to indicate low latency with high bandwidth NDI<sup>®</sup>. \*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		<b>√*</b> <sup>3</sup>	√*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<sup>\*</sup> 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.

