KAIROS Connection Setup Guide

Manufacturer	Model Name	Model Number
SKAARHOJ	Master Key One Panasonic	PAN-MKO-V2B-BU
	Master Key 48 Panasonic	PAN-MK48-V1B-BU
	Wave Board Panasonic	PAN-WB-V2B-BU
	Quick Shot Panasonic	PAN-QS-V1B-BU
	Quick Shot Pro Panasonic	PAN-QSP-V1B-BU

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Imaging Solution Business Division Panasonic Entertainment & Communication Co. Ltd



Kairos Creator & Web browser (Can be separate PCs.)

* Only one panel out of PAN-WB-V2B-BU, PAN-QS-V1B-BU, and PAN-QSP-V1B-BU can be connected to Kairos Core simultaneously.

SKAARHOJ Panel IP address settings

SKAARHOJ Panel IP address settings

Note : Please consult SKAARHOJ for details of the panel settings.

SKAARHOJ Panel IP address

The IP address of the panel is shown on the panel when the panel is turned on and KAIROS is not connected.

Model Name	Master Key One	Master Key 48	
Model Number	PAN-MKO-V2B-BU	PAN-MK48-V1B-BU	
Default IP	192.168.10.110	192.168.10.120	
address	IP & Port192.168.10110 : 9923WAITING FOR RAW PANELWAIT RAW	IP & Port 192.168.10 120 : 9923 RAW PANEL RAW PANE	
Model Name	Wave Board	Quick Shot Pro	Quick Shot
Model Number	PAN-WB-V2B-BU	PAN-QSP-V1B-BU	PAN-QS-V1B-BU
Model Name	Wave Board	Quick Shot Pro	Quick Shot
Model Number	PAN-WB-V2B-BU	PAN-QSP-V1B-BU	PAN-QS-V1B-BU
Default IP	192.168.10.130	192.168.10.140	192.168.10.150

Web Configurations - Sign In -

Master Key One Master Key 48 Wave Board Quick Shot Pro Quick Shot

Access to the panel on your Web browser. (e.g. http://192.168.10.110)

http://192.168.10.110	
	Sign in
	Username Enter username
	Password Enter password
	By continuing, you accept <u>user agreement</u> Signin

Reference : <u>SKAARHOJ Wiki</u>

Change IP Configuration form Settings tab, and then click Save.

System	Packages Settings	Device:	Master Key One	1	SKAARHOJ
C	Operating System	1.3-pre1	r server 2024-10-0	: dial tcp: 1 9. 11.04.31	lookup rc.skaarhoj.com: i/o timeout module=main
	Device Type	Master Key One (controller-masterkeyonev2)	r server	: dial tcp: 1	lookup rc.skaarhoj.com: i/o timeout module=main
	System Manager	v1.0.6 (d80c561)	2024-10-0 r server	9, 11:09:03 : dial tcp: 1	lookup rc.skaarhoj.com: i/o timeout module=main
	Serial Number	452804	2024-10-0 r server	9, 11:11:25 : : dial tcp:]	<pre>supportmode warning Server unhealthy, retrying: no connection fo lookup rc.skaarhoj.com: i/o timeout module=main</pre>
	Ethernet IP	172.16.60.12	2024-10-0 r server	9, 11:15:59	supportmode warning Server unhealthy, retrying: no connection fo
	Ethernet MAC	58:48:49:10:20:17	2024-10-0	9, 11:26:14	ibeam-init info IP Changed, uptime seconds: 4181 module=pkg/sysi
Sys	tem Memory Usage	2%	nio 2024-10-0 2024-10-0	9, 11:26:14 9, 11:26:14	ibeam-init info uptime seconds: 4181 module=pkg/sysinfo ibeam-init info IP Changed, uptime seconds: 4181 module=pkg/sysi
Licenses		ب العلمين العلمين المحمد الم	nro 2024-10-0 2024-10-0 skaaros_ 2024-10-0 module=m	9, 11:26:14 9, 11:26:14 prod module=n 9, 11:26:14 ain	<pre>ibeam-init info uptime seconds: 4181 module=pkg/sysinfo supportmode info supportmode started, version v0.1.0 (d0b1fcc) - main supportmode info License valid, device:controller-masterkeyonev2</pre>
ETHERNET	WIFI		2024-10-0 2024-10-0 2024-10-0 odule=mai	9, 11:26:14 9, 11:26:14 9, 11:26:14 n	<pre>supportmode info Mode: module=main supportmode info Connecting module=main supportmode info Consider Server Healthy, starting connections m</pre>
IP Configurat	ion				Download Logs
DHCP Do not use for Int	ternet Access 🌒 🕜				
IP address	172.16.60.12		Remote St	иррогт	
Subnet Mask	255.255.0.0		Enable:		
Gateway	172.16.0.1		Support Mode of	enables full access to o	ontroller and Web interface for the SKAARHOJ support team.
DNS Server	8.8.8.8		Remember to t	une support team know turn off Support Mode w	v your username and password for the webinterrace of disable it here when done.
Fallback DNS	000.000.000.000 Invalid IP address				
		Save	USB-A		
vstem Manager v106 Co	ovright © 2024 SKAARHOI		Enable:		

Master Key One Master Key 48 Wave Board Quick Shot Pro Quick Shot

Master Key One Master Key 48 Wave Board Quick Shot Pro Quick Shot

It is advised that the panel is set to accept a connection from one KAIROS at a time.

Please confirm the **MaxClients** setting is set to 1. (If the value is set "0", this means that the panel accepts

unlimited number of connections from multiple KAIROS simultaneously.)

To confirm/change the setting, open **hardware-manager** from the **Packages** tab.

System	Package	es Se	ettings		Device: Master Key One	1		S	KAARHOJ †
,									Show pre-releases
Installed Packages									
Search									
Status 📥		Settings	Package Name		Package Description		Versions		
Running		۵	hardware-manager		Connecting the native panel to reactor		1.0.3		-
Running		¢	system-manager		skaarOS init system and webui		1.0.6		-
Running		۵	skaarOS		main operating system		1.3-pre1		-
Available Packages									
Search									
Package Name				Package Description				Versions	
devicecore-connector				connects cores to reactor on diff	erent bluepills			1.0.1	✓ Install
							Want to install a packag	ge manually?	Upload and install package

Web Configurations - Change Max Clients (2) -

Master Key One Master Key 48 Wave Board Quick Shot Pro Quick Shot

If MaxClients is not 1, change it to 1, and then click Save and restart.

System Packages Settings	Device: Master Key One	1	SKAARHOJ [†]
Package > hardware-manager, Version: 1.0.3			Connecting the native panel to reactor
Running Restart Auto Start			Clear config directory Download Logs Backup Data
Connection ProtocolMode Auto Raw Panel protocol mode DisplayIP If IP address should be displayed CalibrationEnabled	2024-10-22, 2024-10-22, 2024-10-22, 2024-10-22, 2024-10-22, 2024-10-22, 2024-10-22, 2024-10-22, 2024-10-22, 2024-10-22, 2024-10-22, 2024-10-22, 2024-10-22, 2024-10-22, 2024-10-22,	03:17:17 info (03:17:17 warningo (03:17:17 info (03:17:17 i	Configuring displays Configuring tiles Configuring display managers Configuring encoder drivers Configuring encoder managers Configuring encoder managers Configuring analog drivers Configuring analog inputs Configuring analog managers Configuring HWCs Configuring system Configuring system Configuring system Configuring des not exist yet Configuration done. Mg_hWBootFile does not exist yet Configuration dene. Configuration d
exposed parameters via RWP or special tool) LockTolPs	nde 2024-10-22, 2024-10-22, 2024-10-22, 2024-10-22, 2024-10-22,	03:17:17 warnir 03:17:17 warnir 03:17:19 info s 03:17:22 info M	Initialized: TinyEncoders v5. Full Quad: 0 Ing CRC compatible T-bar driver detected! Address: 72 Start TCP server. Port: 9923. Max clients: 0. Locked to IPs: Hew TCP client connected. IP: 172.16.10.111 Port: 55412
A semi-colon separated list of IP addresses the panel is locked to	2024-10-22, 2024-10-22, detect)	03:17:22 info M 03:17:22 info M	We RawPanel client connected Payload 1953720684 unrealistic, switching to ASCII format (Auto
MaxClients O Change to 1 if not 1 The amount of clients allowed to connect (0 for unlimited)	Select Log Level	Empty -	String Save Reset
Port			
9923 The external port to listen on using raw panel binary protocol Reset to defaults Save and the set of the	estart		

Raw Panel connection settings on Kairos Creator

Raw Panel connection settings on Kairos Creator

Master Key One (PAN-MKO-V2B-BU) and Master Key 48 (PAN-MK48-V1B-BU)

Kairos Creator : SETUP > System Settings > System Settings > RAW Panel

1) Select Type

2) Set the IP address and the port number of your SKAARHOJ panel(s).

- 3) Check Enable.
- 4) Confirm that Status becomes "Connected".



Wave Board Quick Shot Pro Quick Shot

Wave Board (PAN-WB-V2B-BU), Quick Shot (PAN-QS-V1B-BU) or Quick Shot Pro (PAN-QS-V1B-BU)

Kairos Creator > SETUP > System Settings > RAW Panel extension

- 1) Set the IP address and the port number of your SKAARHOJ panel.
- 2) Check Enable.
- 3) Confirm that Status becomes "Connected".



Select Scene on Kairos Creator

Select Scene on Kairos Creator

Select Scene on Kairos Creator (1)

If any Scene is not assigned to the SKAARHOJ panels, please select a Scene on Kairos Creator.

Open **Raw** from **Panel** on Kairos Creator. Select **Profiles** according to the connected panel and **Deck-1** of **Modules**.

Click the edit icon of Scene of Module Settings.

CONFIG Au		Inputs	Panel	Triggers								QSFP 1- 0.0 %	+2 CPU 12 %	GPU 29 %	
Profiles						Normal Compact Rat	V					Parameter View	n Settings		· ·
		Profile	es									Transition type ove	rwrite		Ø
		Īä	Profile1			Master Key One, M	laster K	ye 48				✓ Module Settings Scene	Main		Ø
		Īä	SK_QUICKS	HOTPRO	·····>	Quick Shot Pro						SourceOptions			Ø
		Īē	SK_MKA4		·····>	Quick Shot			F1 F2	F3	F4				
Modules															
Deck-1	Main Main								1 2 cut cu	3 cut	4 cut				
							cut	aub	auto	auto	auto				

Master Key One Master Key 48 Quick Shot Pro Quick Shot

Select Scene on Kairos Creator (2)

Master Key One Master Key 48 Quick Shot Pro Quick Shot

Select any Scene (e.g. Main) to control and click **OK**.

Creator Core-1 Help							
CONFIG Aux Inputs	Panel Triggers					QSFP 1+2 CPU 0.0 % 7 %	GPU 29 %
Profiles		Normal	Compact Raw			Parameter View	^
					×		
	Select Source				~	✓ Module Settings	
Modules Deck-1 Main Trans-1 Main	Panas F×lnputs F×lnputs MageStores Q ClipPlayers	nes/ emplates New Directory-1 Main ME202	ME102 ME101	ME103 ME104	ME201	Module Settings	
User Presets: Core 1							~
					Ok Cancel		

Optional Settings

Optional Settings

Select Scene Source Options on Kairos Creator

Master Key One Master Key 48 Quick Shot Pro Quick Shot

Click the edit icon of **Source Options** of **Module Settings** to assign any Scenes for **Deleg** on SKAARHOJ panel.

Add/remove Scenes or change the order and click **OK**.

CONFIG AIX BODS Real TOperS CONFIG AIX CONFIG Points CONFIG CONFIG CONFIG CONFIG CO	Cleator Core-1 Help					
Profiles Normal Corquat Raw Plantation Sellings Image: Solution Sellings Transition Sellings Transition Sellings Image: Solution Sellings Transition Sellings Transition Sellings Image: Solution Sellings Image: Solution Sellings Image: Solution Sellings Image: Solution Sellings Image: Solution Sellings Image: Solution Sellings Image: Solution Sellings Image: Solution Sellings Image: Solution Sellings Image: Solution Sellings Image: Solution Sellings Image: Solution Sellings Image: Solution Sellings Image: Solution Sellings Image: Solution Sellings Image: Solution Sellings Image: Solution Sellings Image: Solution Sellings Image: Solution Sellings Image: Solution Sellings Image: Solution Sellings Image: Solution Sellings Image: Solution Sellings Image: Solution Sellings Image: Solution Sellings Image: Solution Sellings Image: Solution Sellings Image: Solution Sellings Image: Solution Sellings Image: Solution Sellings Image: Solution Sellings Image: Solution Sellings Image: Solution Sellings Image: Solution Sellings Image: Solution Sellings Image:	CONFIG Aux Inputs	Panel Triggers			QSFP 1+2 CPU GPU 0.0 % 8 % 29 %	
Image: Index Inde	Profiles				Parameter View	
Image: Section 2010 Image: Section 2010 Image: Sectin 2010 Image: Sectin 2010	Profile1		Normai Compact Raw		▼ Global Transition Settings	
Modulés Settings Scene Parasonic Panasonic					Transition type overwrite	ø
Modules Image:	ISK_MKA4				✓ Module Settings	
Modules Implexit:					Scene Main	<i>,</i>
Modules Image: Trans-1					SourceOptions	Ø
Modules Image: Trans-1 Main Image: Trans-1 Image: Trans-1 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td></t<>						
Modules Modules Main Trans-1 $\overset{\sim}{\longrightarrow}$ Main		Panasonic	Deck-1 - SourceOptions	K F1 F2 F3 F4		
Modules Image: Deck-1 Image: Trans-1			Main ME102 4Box	Main ME102 4Box	OTS Right ME2sub	
	Modules Deck-1 Main		OTS Right			
	Trans-1 Main			25	28	
●●^> Main ME102 4Box 0TS Right ME2sub				Main ME102 4Box 0	TS Right ME2sub	

Transition Type Overwrite Settings on Kairos Creator

Click the edit icon of **Transition type overwrite**.

Add/remove any transition type or change the order and click **OK**.

CONFIG Aux	Inputs Panel	Triggers			QSFP 1 0.0 %	.+2 CPU 6 13%	GPU 29 %	
Profiles	_		Normal Compact Raw		Parameter View	n Settings		^
					Transition type ow	erwrite		Ø
					V Module Settings	3		
					Scene SourceOptions	Main		<i>•</i>
	Panasonic		Mixer - Transition type overwrite					
Modules			VipeLeft ↓ VipeStar4 ↓ Mix	Scale	WipeCircle	VipeLeft	Zoom	
Trans-1			WipeClockClockwiseTwelve		09	110	111	



Panel Layout

Master Key One & Master Key 48



Next Transition Select

Master Key 48

Master Key One

Wave Board



Wave Board

Quick Shot Pro

Quick Shot Pro



Quick Shot Pro

Quick Shot

Quick Shot

Scene Control (Deck)



Independent 7 buttons (4 rows)

Quick Shot

Change History

Date	SKAARHOJ version	KAIROS version	Changes
28 Oct.2024	hardware-manager 1.0.3 system-manager 1.0.6 skaarOS 1.3-pre1	Kairos Core 1.7 or later Kairos Creator 1.7 or later	1st release for SKAARHOJ Raw Panel connection
28 Feb.2025	hardware-manager 1.0.4-pre1 system-manager 1.0.8-pre1 skaarOS 1.3-pre1	Kairos Core 1.8.0 Kairos Creator 1.8.0	1st release for SKAARHOJ Raw Panel extension connection