

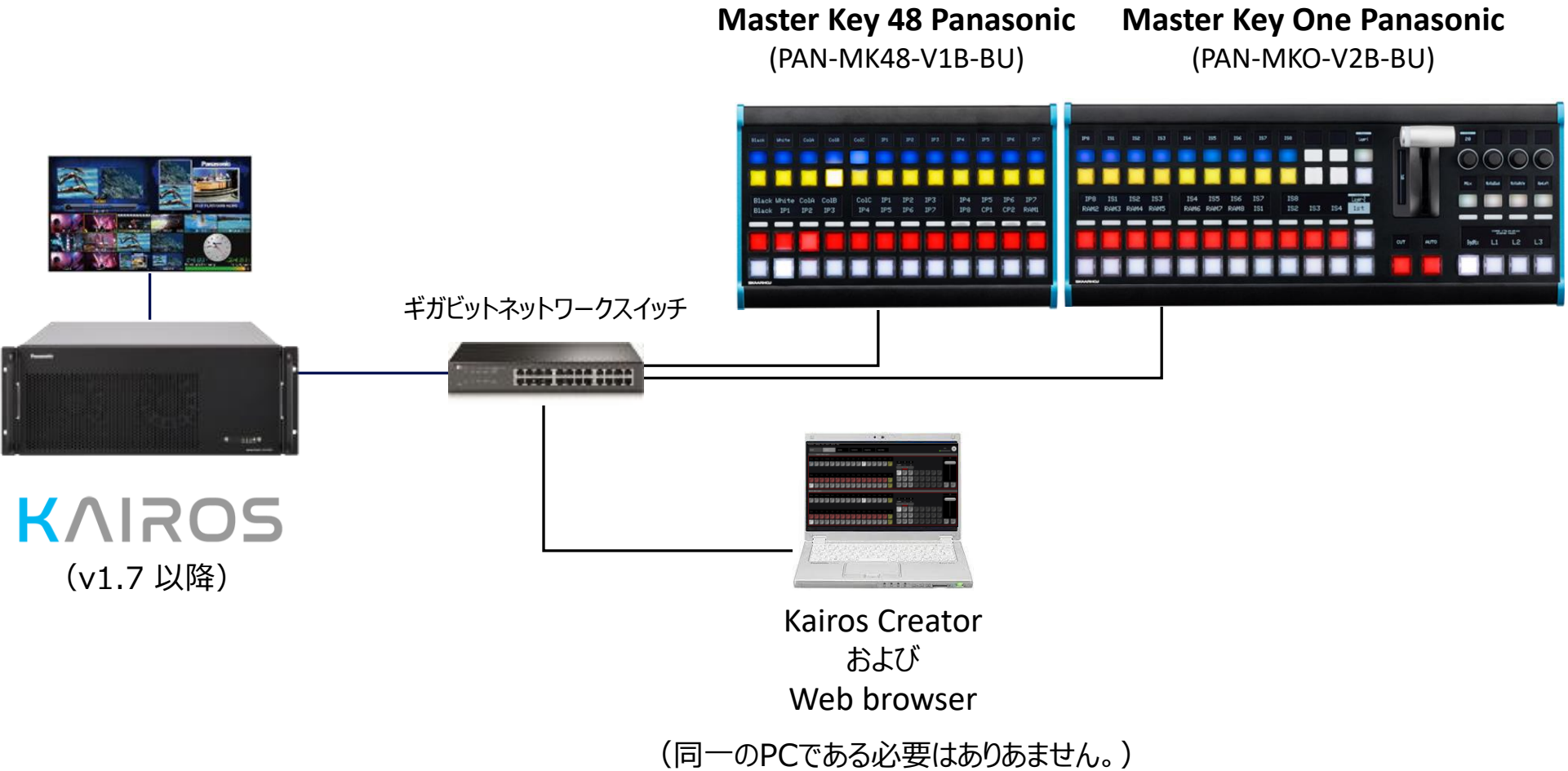
KAIROS 接続設定ガイド

メーカー名	対象モデル	品番
SKAARHOJ	Master Key One Panasonic	PAN-MKO-V2B-BU
	Master Key 48 Panasonic	PAN-MK48-V1B-BU

2024年 10月 28日

パナソニックエンターテインメント&コミュニケーション株式会社
イメージングソリューション事業部

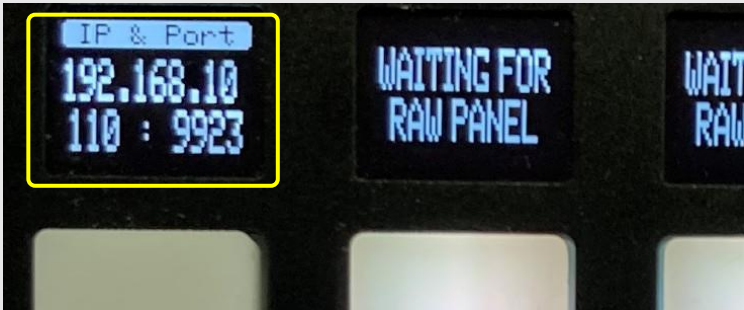

SKAARHOJ コントロールパネル 接続構成



SKAARHOJ コントロールパネル IP アドレス設定

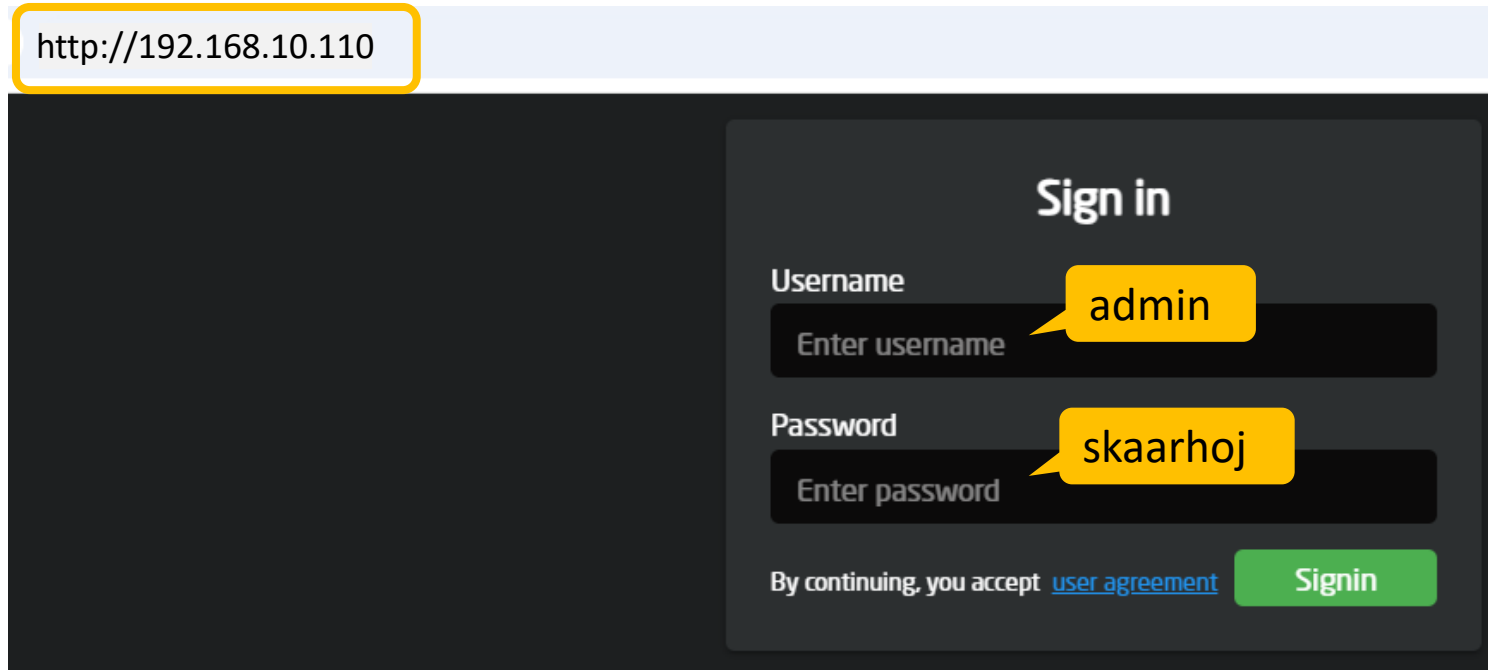
SKAARHOJコントロールパネル IPアドレス確認

SKAARHOJコントロールパネルの電源がONで KAIROSに接続されていない状態時には、パネル上にパネル自身のIPアドレスとポート番号が表示されます。

項目	Master Key One PAN-MKO-V2B-BU	Master Key 48 PAN-MK48-V1B-BU
デフォルト IP address	192.168.10.110	192.168.10.120
KAIROSと未接続時、パネル上に自身のIPアドレスとポートが表示されます。		

Webによる設定 - サインイン -

WebブラウザからSKAARHOJコントロールパネルへアクセスします。（例 <http://192.168.10.110>）



The screenshot shows a web browser window with the address bar containing `http://192.168.10.110`. The main content area displays a dark-themed sign-in form titled "Sign in". The form includes two input fields: "Username" with the value "admin" and "Password" with the value "skaarhoj". Below the password field, there is a line of text: "By continuing, you accept [user agreement](#)". A green "Signin" button is located at the bottom right of the form.

参考: [SKAARHOJ Wiki](#)

Webによる設定 - IPアドレス変更 -

SettingsタブからIP Configuration設定を変更し、Saveをクリックします。

The screenshot displays the SKAARHOJ web interface. At the top, the 'Settings' tab is highlighted with a yellow box. Below it, a table shows system information: Operating System (1.3-pre1), Device Type (Master Key One), System Manager (v1.0.6), Serial Number (452804), Ethernet IP (172.16.60.12), Ethernet MAC (58:48:49:10:20:f7), and System Memory Usage (2%). A 'Licenses' section is also visible. Below the system info, there are 'Identify' and 'Reboot' buttons. The 'ETHERNET' section is active, showing the 'IP Configuration' settings, which are also highlighted with a yellow box. These settings include: DHCP (disabled), Do not use for Internet Access (disabled), IP address (172.16.60.12), Subnet Mask (255.255.0.0), Gateway (172.16.0.1), DNS Server (8.8.8.8), and Fallback DNS (000.000.000.000, marked as 'Invalid IP address'). A 'Save' button is highlighted with a yellow box at the bottom right of the IP Configuration section. On the right side, a terminal window shows system logs, and a 'Download Logs' button is present. Below the terminal, the 'Remote Support' section is visible, with 'Enable' checked and a warning message. At the bottom left, the footer reads 'System Manager: v1.0.6 Copyright © 2024 SKAARHOJ'. At the bottom right, there is a 'Support' icon and the number '6'.

System	Packages	Settings
Operating System		1.3-pre1
Device Type		Master Key One (controller-masterkeyonev2)
System Manager		v1.0.6 (d80c561)
Serial Number		452804
Ethernet IP		172.16.60.12
Ethernet MAC		58:48:49:10:20:f7
System Memory Usage		2%

ETHERNET WIFI

IP Configuration

DHCP

Do not use for Internet Access ?

IP address: 172.16.60.12

Subnet Mask: 255.255.0.0

Gateway: 172.16.0.1

DNS Server: 8.8.8.8

Fallback DNS: 000.000.000.000
Invalid IP address

Save

```
r server : dial tcp: lookup rc.skaarhoj.com: i/o timeout module=main
2024-10-09, 11:04:31 supportmode warning Server unhealthy, retrying: no connection fo
r server : dial tcp: lookup rc.skaarhoj.com: i/o timeout module=main
2024-10-09, 11:09:03 supportmode warning Server unhealthy, retrying: no connection fo
r server : dial tcp: lookup rc.skaarhoj.com: i/o timeout module=main
2024-10-09, 11:11:25 supportmode warning Server unhealthy, retrying: no connection fo
r server : dial tcp: lookup rc.skaarhoj.com: i/o timeout module=main
2024-10-09, 11:15:59 supportmode warning Server unhealthy, retrying: no connection fo
r server : dial tcp: lookup rc.skaarhoj.com: i/o timeout module=main
2024-10-09, 11:26:14 ibeam-init info IP Changed, uptime seconds: 4181 module=pkg/sysi
nfo
2024-10-09, 11:26:14 ibeam-init info uptime seconds: 4181 module=pkg/sysinfo
2024-10-09, 11:26:14 ibeam-init info IP Changed, uptime seconds: 4181 module=pkg/sysi
nfo
2024-10-09, 11:26:14 ibeam-init info uptime seconds: 4181 module=pkg/sysinfo
2024-10-09, 11:26:14 supportmode info supportmode started, version v0.1.0 (d0b1fcc) -
skaaros_prod module=main
2024-10-09, 11:26:14 supportmode info License valid, device:controller-masterkeyonev2
module=main
2024-10-09, 11:26:14 supportmode info Mode: module=main
2024-10-09, 11:26:14 supportmode info Connecting... module=main
2024-10-09, 11:26:14 supportmode info Consider Server Healthy, starting connections m
odule=main
[]
```

Download Logs

Remote Support

Enable:

Support Mode enables full access to controller and Web interface for the SKAARHOJ support team.
Please also let the support team know your username and password for the webinterface or disable it here
Remember to turn off Support Mode when done.

USB-A

Enable:

System Manager: v1.0.6 Copyright © 2024 SKAARHOJ

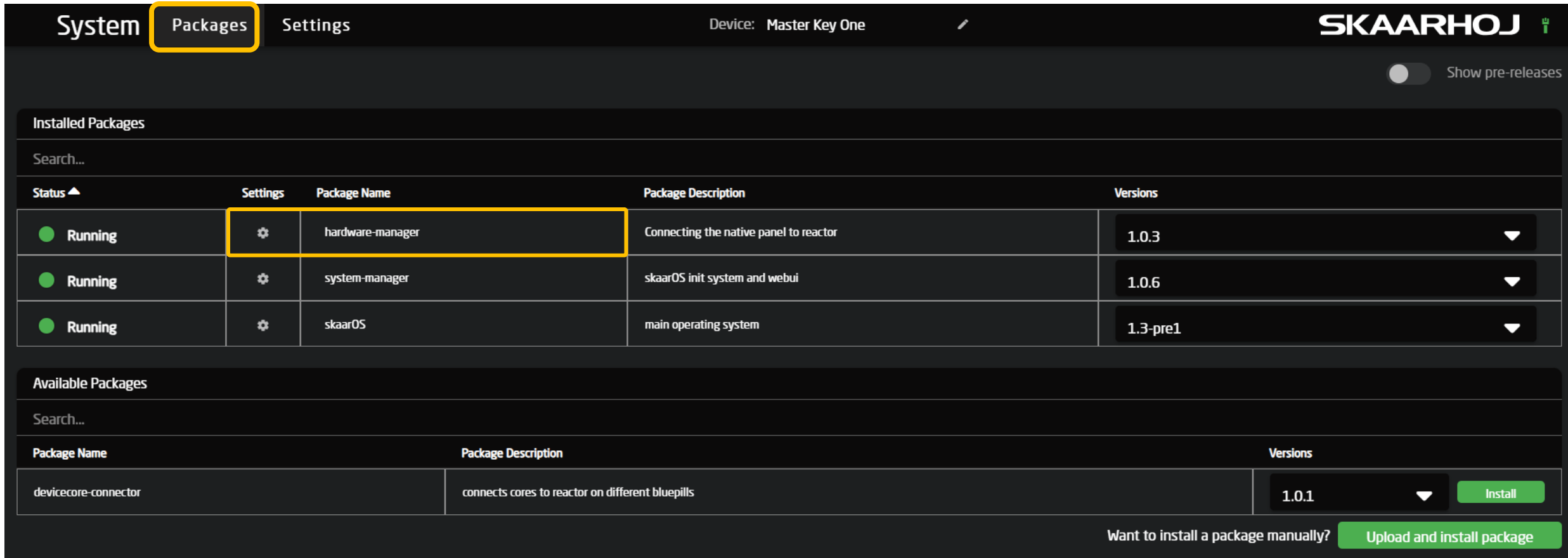
Support

6

Webによる設定 - Max Clients 変更 (1) -




KAIROS側の誤設定などにより一つの SKAARHOJ コントロールパネルが複数の KAIROS から同時にアクセス・制御されることを避けるために、下記の手順に従い、同時アクセス数の上限を1に変更します。

Packages タブから**hardware-manager** の設定メニューに入ります。



The screenshot shows the SKAARHOJ web interface. The top navigation bar includes 'System', 'Packages' (highlighted with a yellow box), and 'Settings'. The device is identified as 'Master Key One'. A 'Show pre-releases' toggle is visible on the right.

The 'Installed Packages' section contains a table with the following data:

Status	Settings	Package Name	Package Description	Versions
Running		hardware-manager	Connecting the native panel to reactor	1.0.3
Running		system-manager	skaarOS init system and webui	1.0.6
Running		skaarOS	main operating system	1.3-pre1

The 'Available Packages' section shows a table with the following data:

Package Name	Package Description	Versions
devicecore-connector	connects cores to reactor on different bluepills	1.0.1

At the bottom right, there is a green button labeled 'Install' next to the version '1.0.1'. Below this, a green button labeled 'Upload and install package' is visible, with the text 'Want to install a package manually?' above it.

Webによる設定 - Max Clients 変更 (2) -

MaxClients を1に設定し、Save and restart をクリックします。(設定値が0の場合は同時接続数制限無し)

The screenshot shows the SKAARHOJ web interface for configuring the hardware-manager package. The package is currently running. The configuration page includes several sections: Connection (ProtocolMode: Auto), DisplayIP (enabled), CalibrationEnabled (disabled), LockToIPs (empty), MaxClients (0), and Port (9923). A yellow callout bubble points to the MaxClients field, indicating it should be changed to 1. The Save and restart button is highlighted with a yellow box. The log viewer on the right shows the system configuration process, including the message: "Start TCP server. Port: 9923. Max clients: 0. Locked to IPs: 172.16.10.111".

System Packages Settings Device: Master Key One 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: If Calibration is enabled. (When toggled OFF, device will always use default calibration values, when ON it is possible to override exposed parameters via RWP or special tool)

LockToIPs: [Empty field] A semi-colon separated list of IP addresses the panel is locked to

MaxClients: 0 The amount of clients allowed to connect (0 for unlimited) **1へ変更**

Port: 9923 The external port to listen on using raw panel binary protocol

Reset to defaults Save and restart

```
2024-10-22, 03:17:17 info Configuring displays...
2024-10-22, 03:17:17 info Configuring tiles...
2024-10-22, 03:17:17 info Configuring display managers...
2024-10-22, 03:17:17 info Configuring encoder drivers...
2024-10-22, 03:17:17 info Configuring individual encoders...
2024-10-22, 03:17:17 info Configuring encoders...
2024-10-22, 03:17:17 info Configuring encoder managers...
2024-10-22, 03:17:17 info Configuring analog drivers...
2024-10-22, 03:17:17 info Configuring analog inputs...
2024-10-22, 03:17:17 info Configuring analog managers...
2024-10-22, 03:17:17 info Configuring HWCs...
2024-10-22, 03:17:17 info Configuring system...
2024-10-22, 03:17:17 info Configuration done.
2024-10-22, 03:17:17 warning _hwBootFile does not exist yet
2024-10-22, 03:17:17 info Start hardware managers...
2024-10-22, 03:17:17 warning CRC8 compatible encoder driver detected! Address: 24
2024-10-22, 03:17:17 warning Initialized: TinyEncoders v5. Full Quad: 0
2024-10-22, 03:17:17 warning CRC compatible T-bar driver detected! Address: 72
2024-10-22, 03:17:19 info Start TCP server. Port: 9923. Max clients: 0. Locked to IPs:
2024-10-22, 03:17:22 info New TCP client connected. IP: 172.16.10.111 Port: 55412
2024-10-22, 03:17:22 info New RawPanel client connected
2024-10-22, 03:17:22 info Payload 1953720684 unrealistic, switching to ASCII format (Auto detect)
```

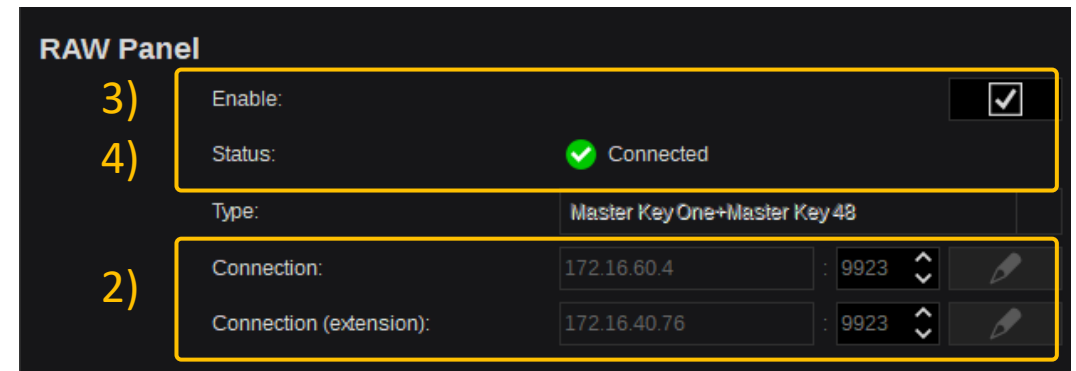
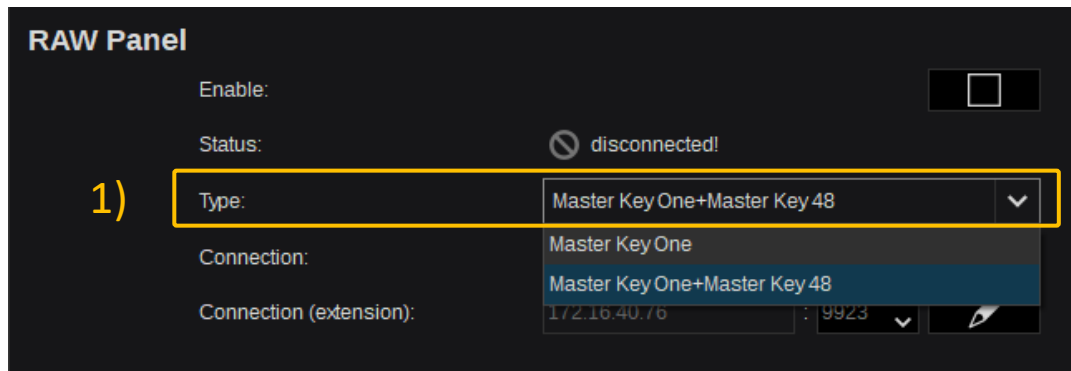
Select Log Level: Empty String Save Reset

Clear

Kairos Creator からの Raw Panel 接続設定

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

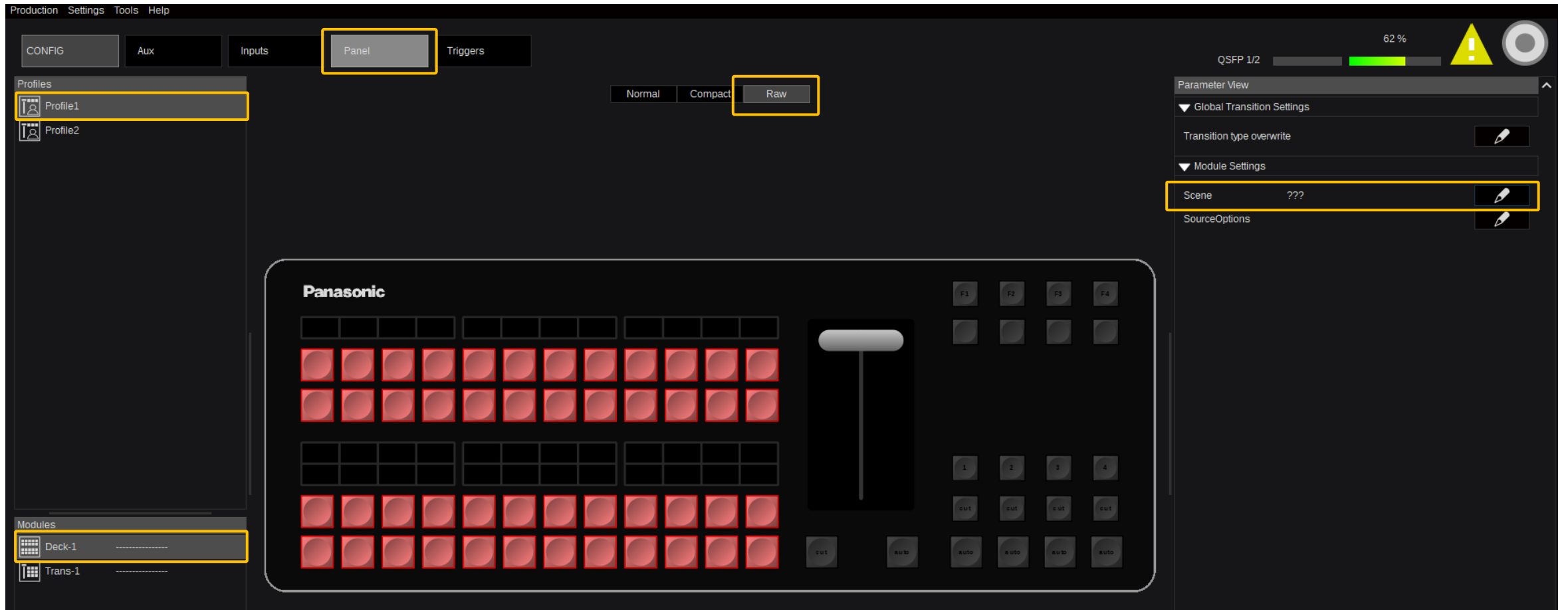
- 1) **Type**を選択します
- 2) SKAARHOJコントロールパネルのIPアドレスとポートを設定します
- 3) **Enable**にチェックをいれます
- 4) **Status**が“**Connected**”になっている事を確認します



Kairos Creator からの シーン選択設定

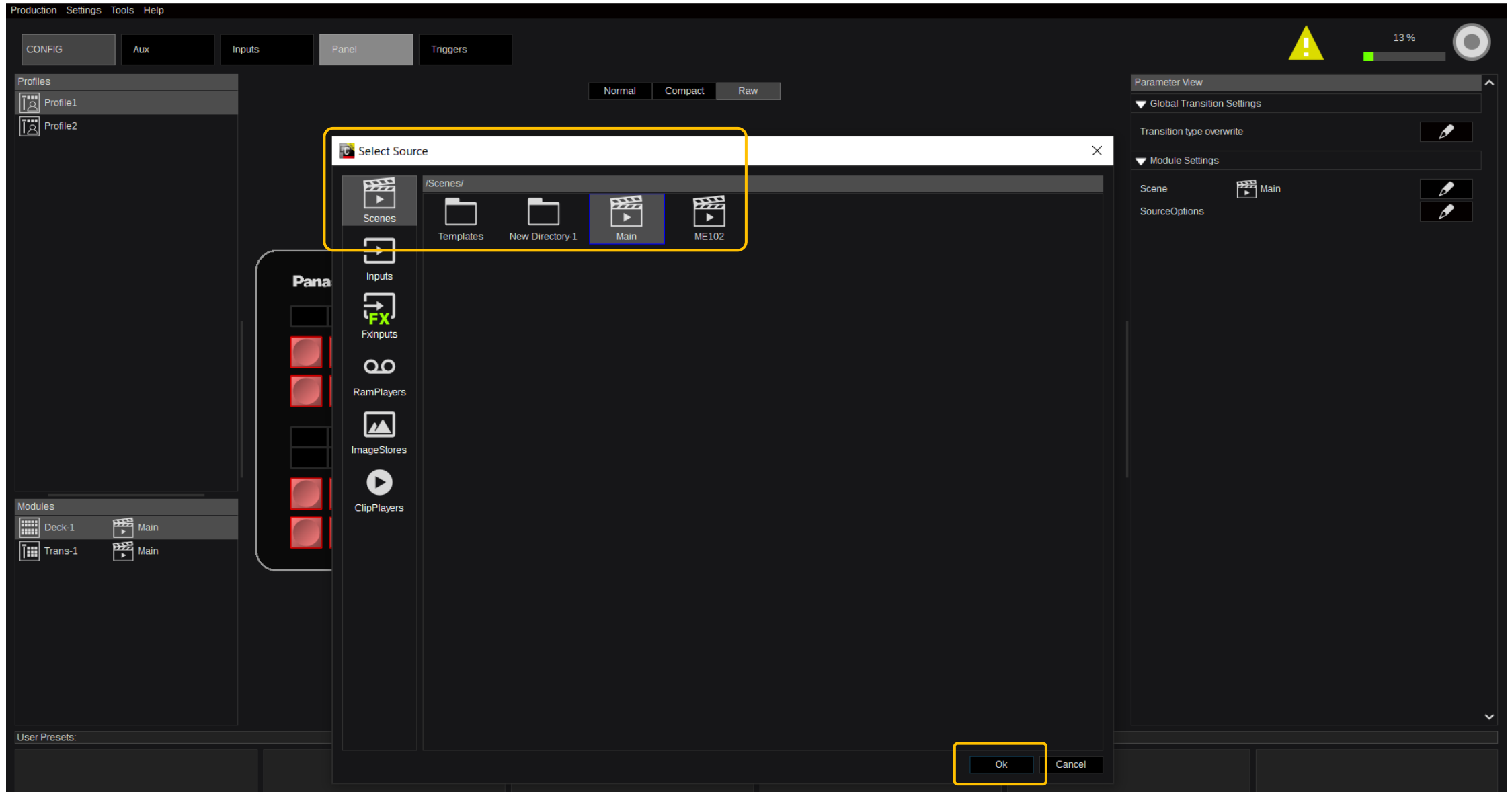
Kairos Creator からのシーン選択設定（1）

SKAARHOJパネルにシーン割当が無い場合、Kairos Creator 上でシーンを選択して下さい。
Kairos Creator の **Panel** から **Raw** を開き、**Profile-1** の **Deck-1** を選択します。
Module Settings の **Scene** 設定の編集アイコンをクリックします。



Kairos Creator からのシーン選択設定 (2)

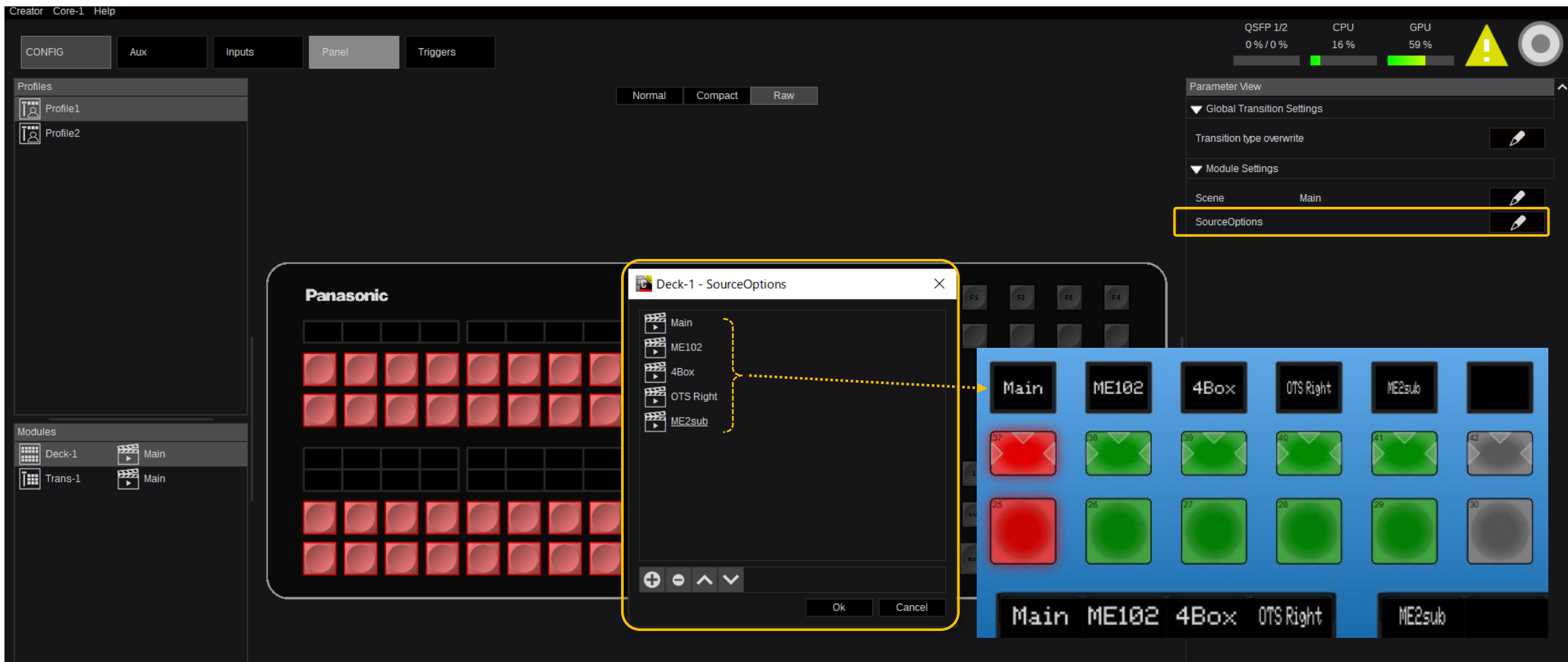
Mainなど任意のシーンを選択し、OKをクリックします。



追加設定

Kairos Creator からののシーンソースオプション設定

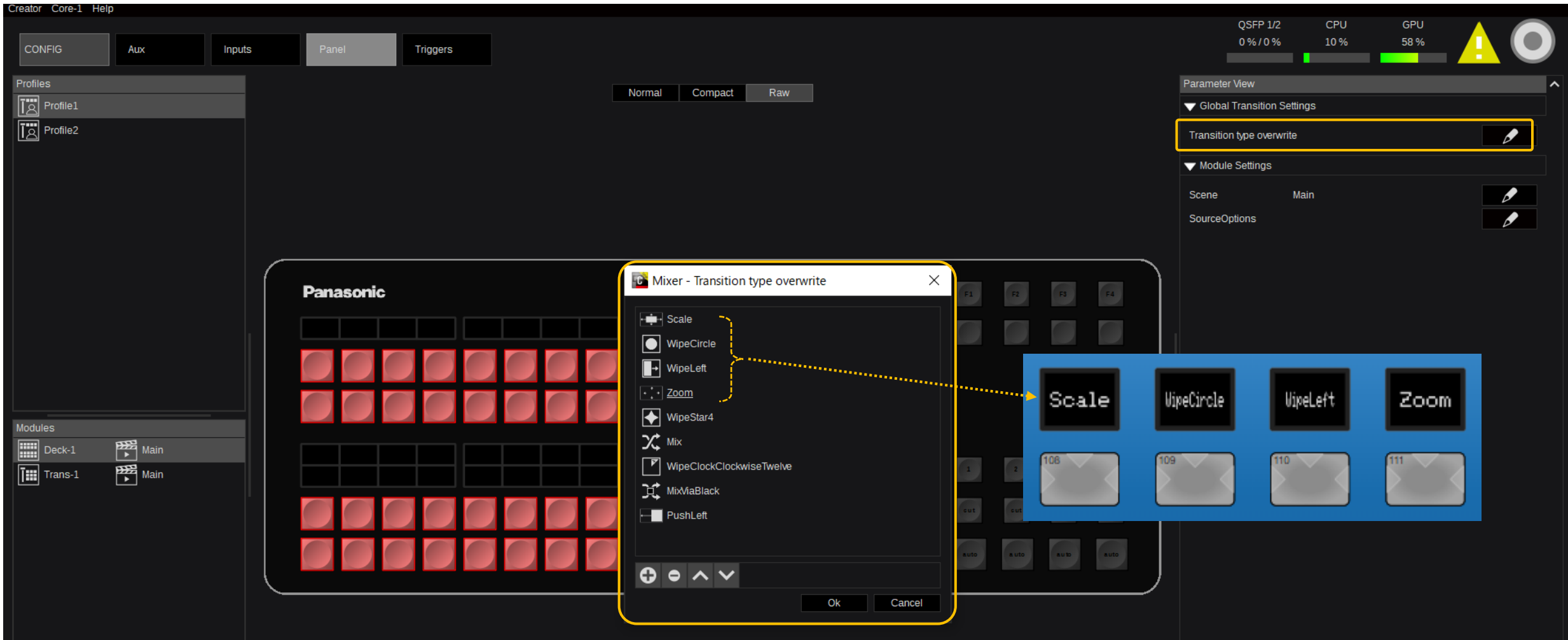
Module Settings の SourceOptions 設定の編集アイコンをクリックし SKAARHOJ パネルの Deleg に割当ててるシーンを選択します。シーンを追加削除もしくは順位を変更しOKをクリックします。



Kairos Creator からの Transition Type Overwrite 設定

Transition type overwrite 設定の編集アイコンをクリックします。

トランジションタイプを追加削除もしくは順位を変更しOKをクリックします。



履歴

Date	SKAARHOJ バージョン	KAIROS バージョン	Changes
2024/10/28	hardware-manager 1.0.3 system-manager 1.0.6 skaarOS 1.3-pre1	Kairos Core 1.7 以降 Kairos Creator 1.7 以降	SKAARHOJ Raw Panel 初版