

***Easy Guide for  
SKAARHOJ  
RC-SK5 Controller***

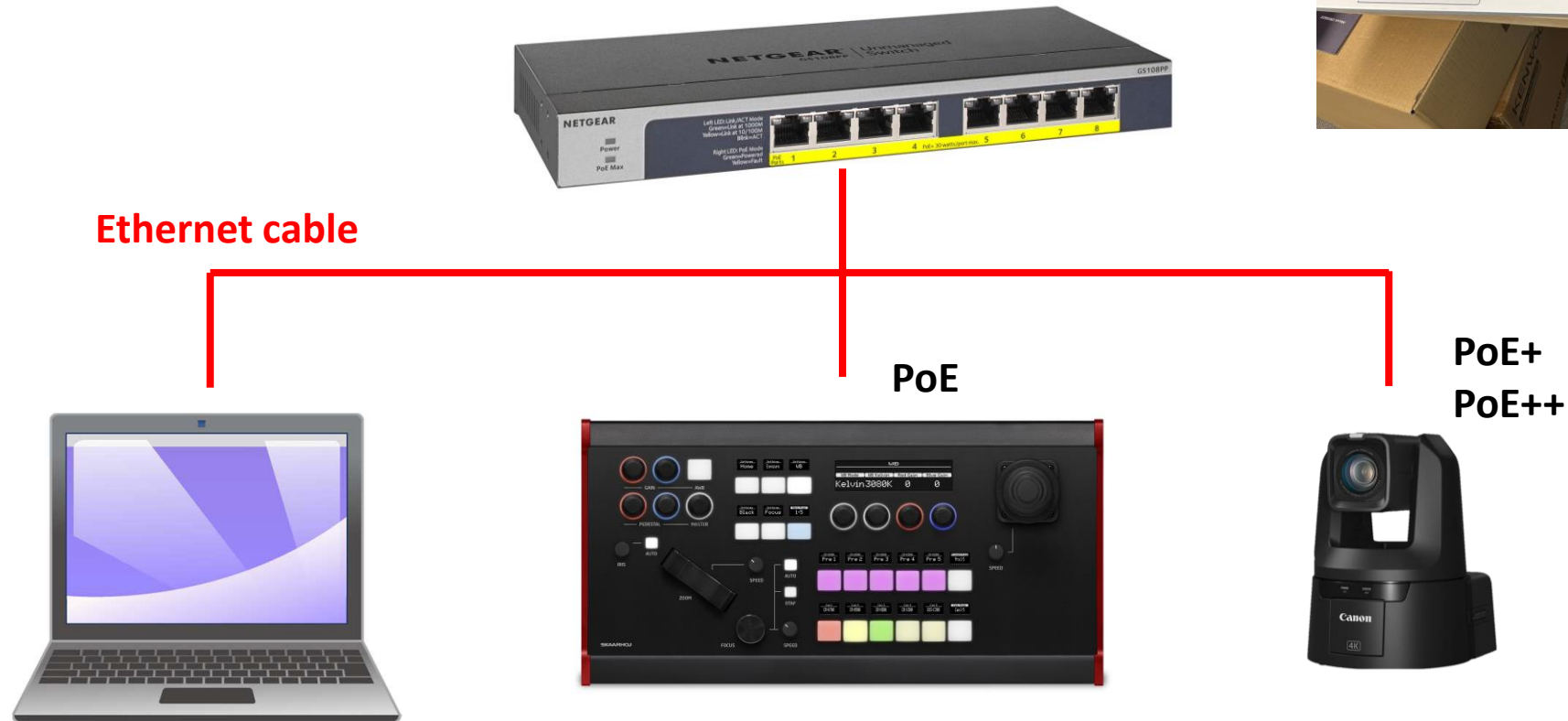


- 1.    *How to Start***
- 2.    *Setup***
- 3.    *Operation***
- 4.    *Other***
  - ***Conduct FW update***
  - ***Activate Pro License***
  - ***Other Tips***

# ***1. How to Start***

# 1. How to Start

## Example configuration



It's necessary to have PC for first configuration, need to access Web UI of RC-SK5

- Setup Controller's IP address
- Register cameras to the controller



# 1. How to Start

Easy 3 steps to start

## Connect Cable



- Ethernet Cable (PoE support)
- Power Cable
  - \*Not in the box
  - \*Not mandatory when using PoE

-> Put it on same network with Camera and turn ON!

## Access to Web UI from PC



- Access to Web UI be entering SK5's IP address
- Change IP address/ ID/ password of SK5 if necessary
- Register all camera's IP address to connect
- FW verup/Pro license install is also possible via Web UI

-> Setup Connection!

## Start Operation



- Select the camera to control
- Start control of camera

-> Start Operation!

## ***2. Setup***

- ***Check IP address of controller***
- ***Access to Web UI***
  - ***Set IP address of Controller***
  - ***Camera registration***

# How to check IP address of controller

[If already IP address was set]

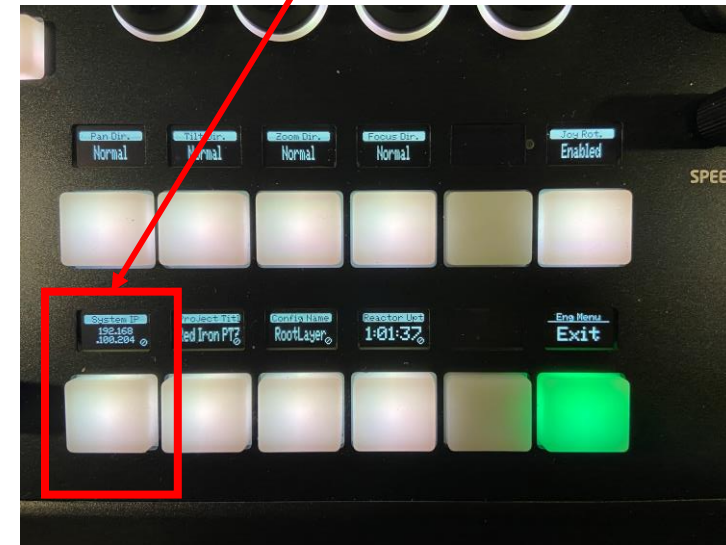
**Push and hold the upper side of right bottom button for 5 seconds.**

Then enter to system status mode.

You can find current IP address on left bottom button's display.



**Push here 5 seconds**



**system status mode**



# How to check IP address of controller

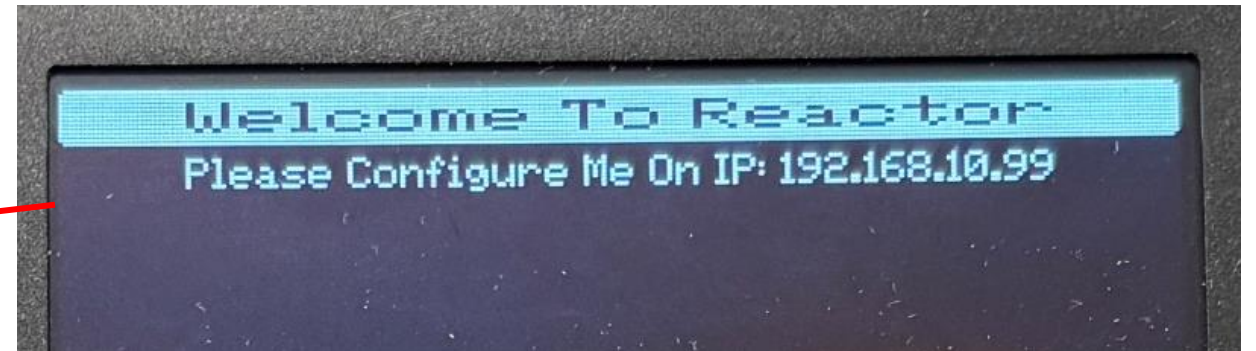
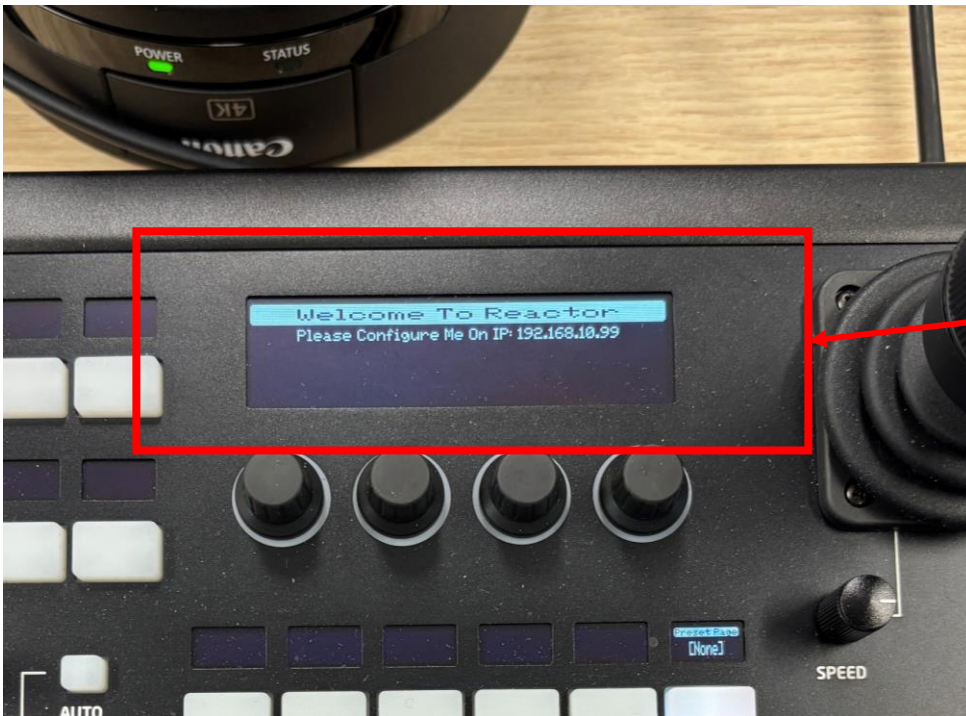
**[Brand new SK5 panel]**

It'll be displayed on Main window of panel

“Assigned IP address by DHCP”

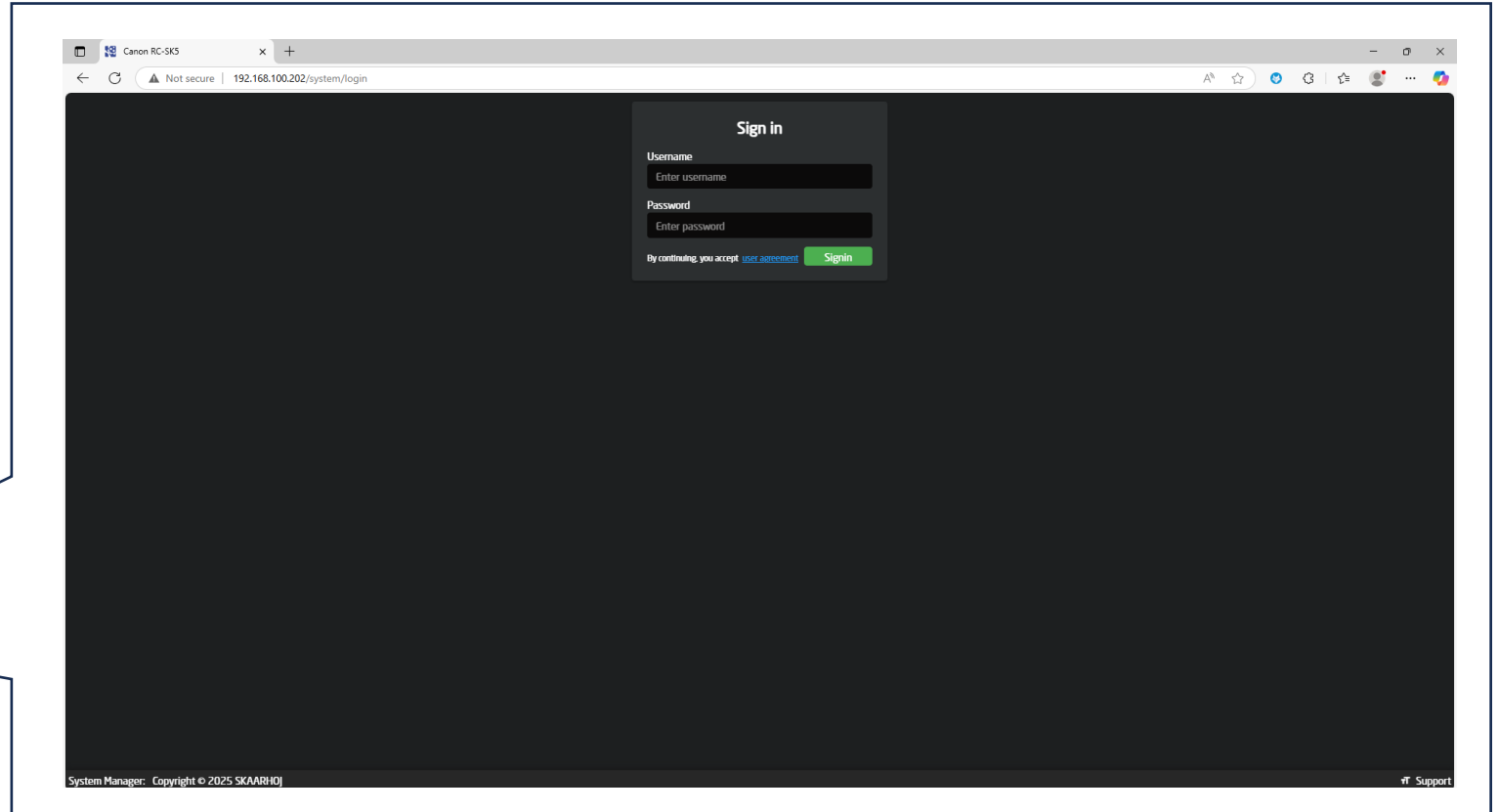
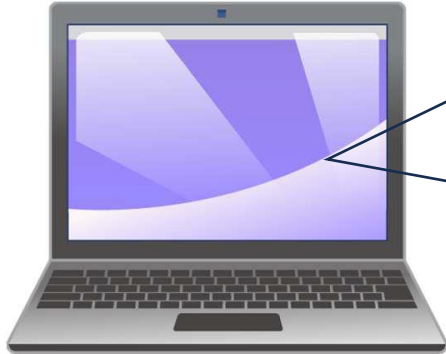
Or

“192.168.10.99” as statistic address



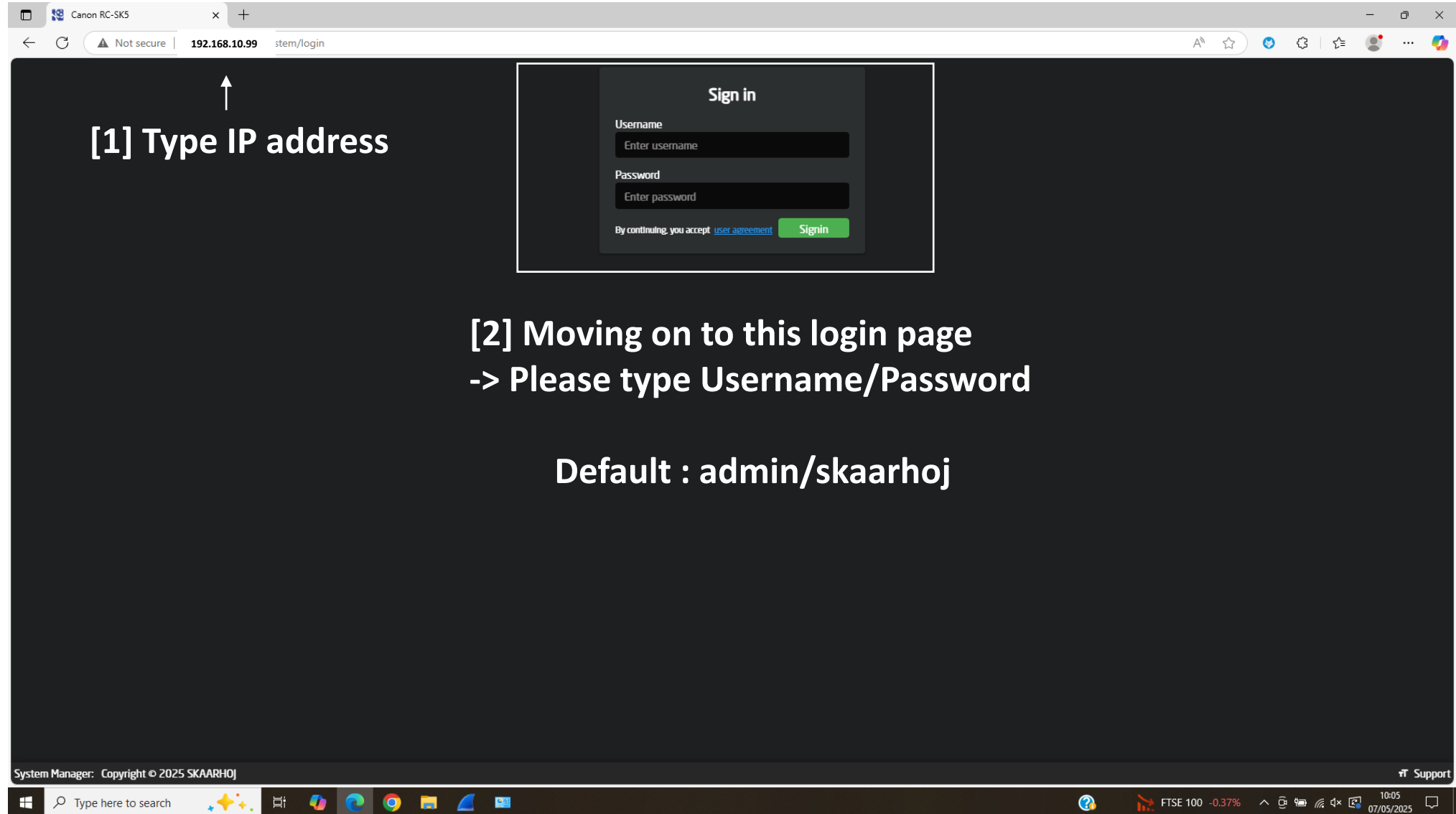


# Access to Web UI



- [0] Need to set PC's IP address to the same network of controller  
(xxx.xxx.xxx.xxx -> First three fields must be same as RC-SK5's IP address)
- [1] Open Web browser (Chrome/Edge/etc)
- [2] Enter IP address of panel
- [3] Successfully access to web UI

# Access to Web UI



**[1] Type IP address**

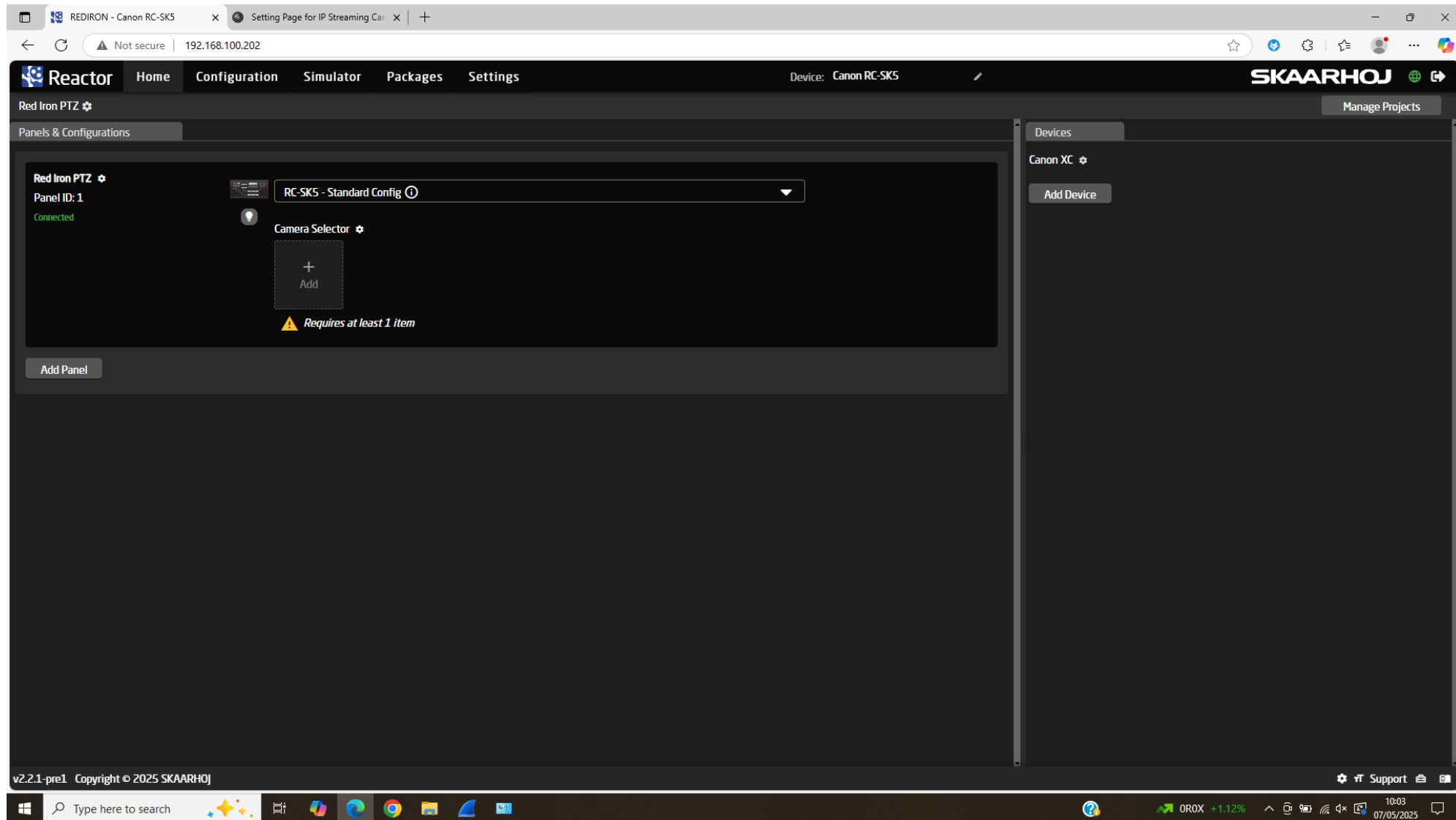
**[2] Moving on to this login page  
-> Please type Username/Password**

**Default : admin/skaarhoj**

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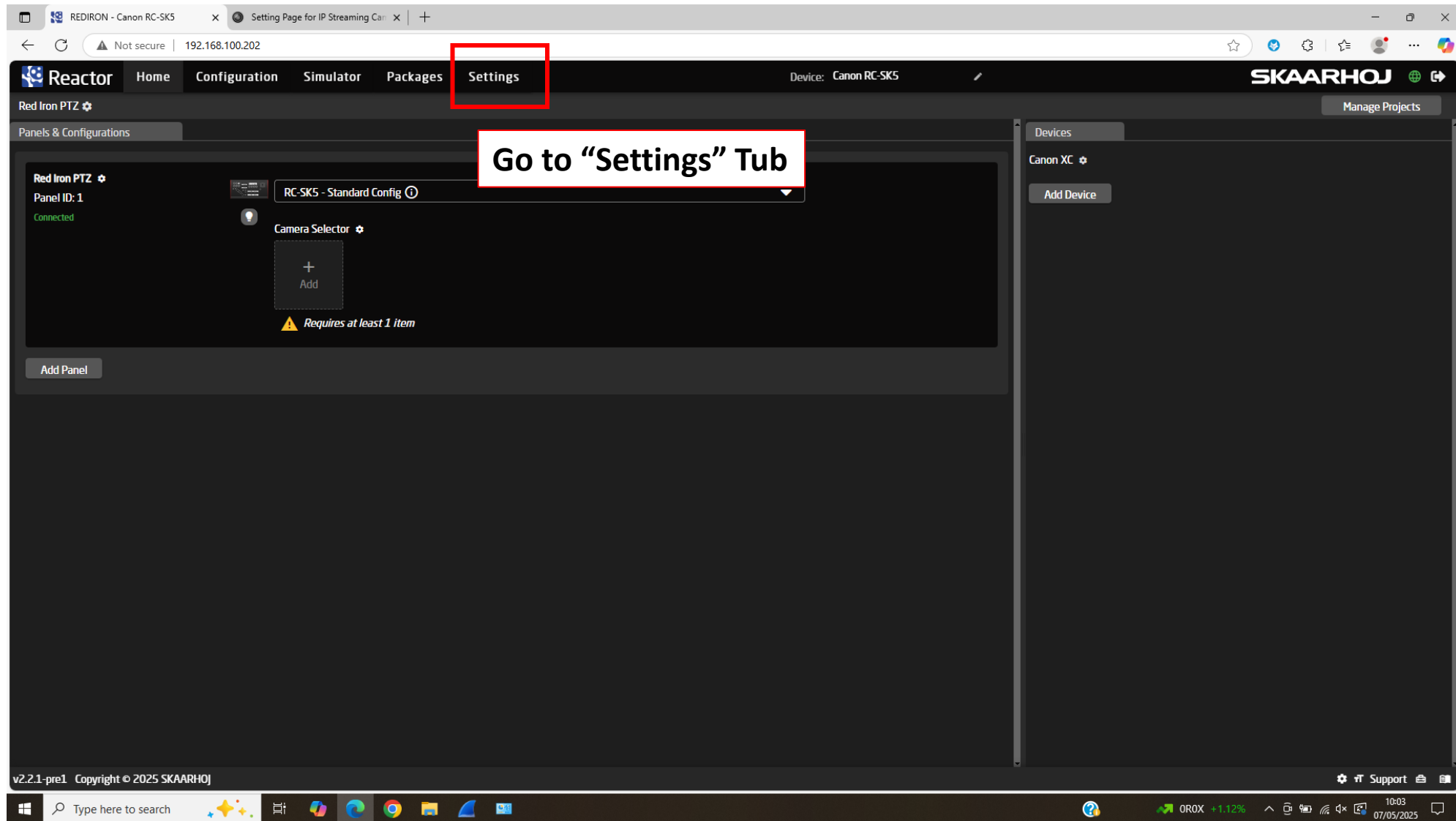
Support

# Access to Web UI



You can access to Web UI successfully

# Change IP address/ID/Pass (if necessary)



# Change IP address/ID/Pass (if necessary)

**System Information**

System component	Installed version
Operating System	1.3
Device Type	Canon RC-SK5 (controller-rediron)
System Manager	v1.0.8 (75c9b06)
Serial Number	451145
Ethernet IP	192.168.100.202
Ethernet MAC	58:4B:49:10:17:47
Wifi Client IP	172.20.10.2
Wireless MAC	58:4B:49:10:17:18
System Memory Usage	6%
License	Options
rc_sk5_pro	licensemode: panelmode: configmode: usbmode: maxpanels: hw-manager-listen:

**IP Configuration**

DHCP ☐

Do not use for Internet Access ☐ ?

IP address: 192.168.100.202

Subnet Mask: 255.255.255.0

Gateway: 192.168.100.1

DNS Server: 8.8.8.8

Fallback DNS: 8.8.4.4

**Logs**

all

You can see current status of SK5.  
FW ver, IP address, Serial number, etc

2025-05-07, 10:04:24 core-canon-xc info Detected Camera thumbnail support on devID: 1 IP: 192.168.100.60:80 module=main

2025-05-07, 10:04:24 core-canon-xc warning Persistent Storage is Disabled, all Preset and Trace Thumbnails, Preset Mode and Trace Mode settings will be deleted on reboot module=main

2025-05-07, 10:04:24 core-canon-xc warning DevID: 1 - IP: 192.168.100.60:80 - SesID: acf2-2e309369 - LastID: acf2-2e309369 module=main

2025-05-07, 10:04:24 ibeam-init info Wrote packageconfig for core-canon-xc module=pkg/packageconfig

2025-05-07, 10:04:24 reactor info Connecting Core: core-canon-xc at local module=devices

2025-05-07, 10:04:24 reactor info Connected to core at: local core=core-canon-xc module=devices version=v1.0.10-pre5

2025-05-07, 10:04:24 ibeam-init info Wrote packageconfig for core-canon-xc module=pkg/packageconfig

2025-05-07, 10:05:21 reactor error open /var/ibeam/config/reactor/conf/layers/default/private: no such file or directory module=filesystem

**Remote Support**

Enable: ☐

You can change IP address from here.  
Enter new IP address in field of "IP address" and push "Save" button.

What is USB-A Port Setting?

If you would like to use the USB-A port OR the MicroUSB port on the back. Per default you can use the MicroUSB port with the SKAARHOJ Firmwareupdater to change IP config and other settings. If you like to use the USB-A port (eg with a FrameGrabber) you need to enable this setting to allow data transfer. This will

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Support

# Change IP address/ID/Pass (if necessary)

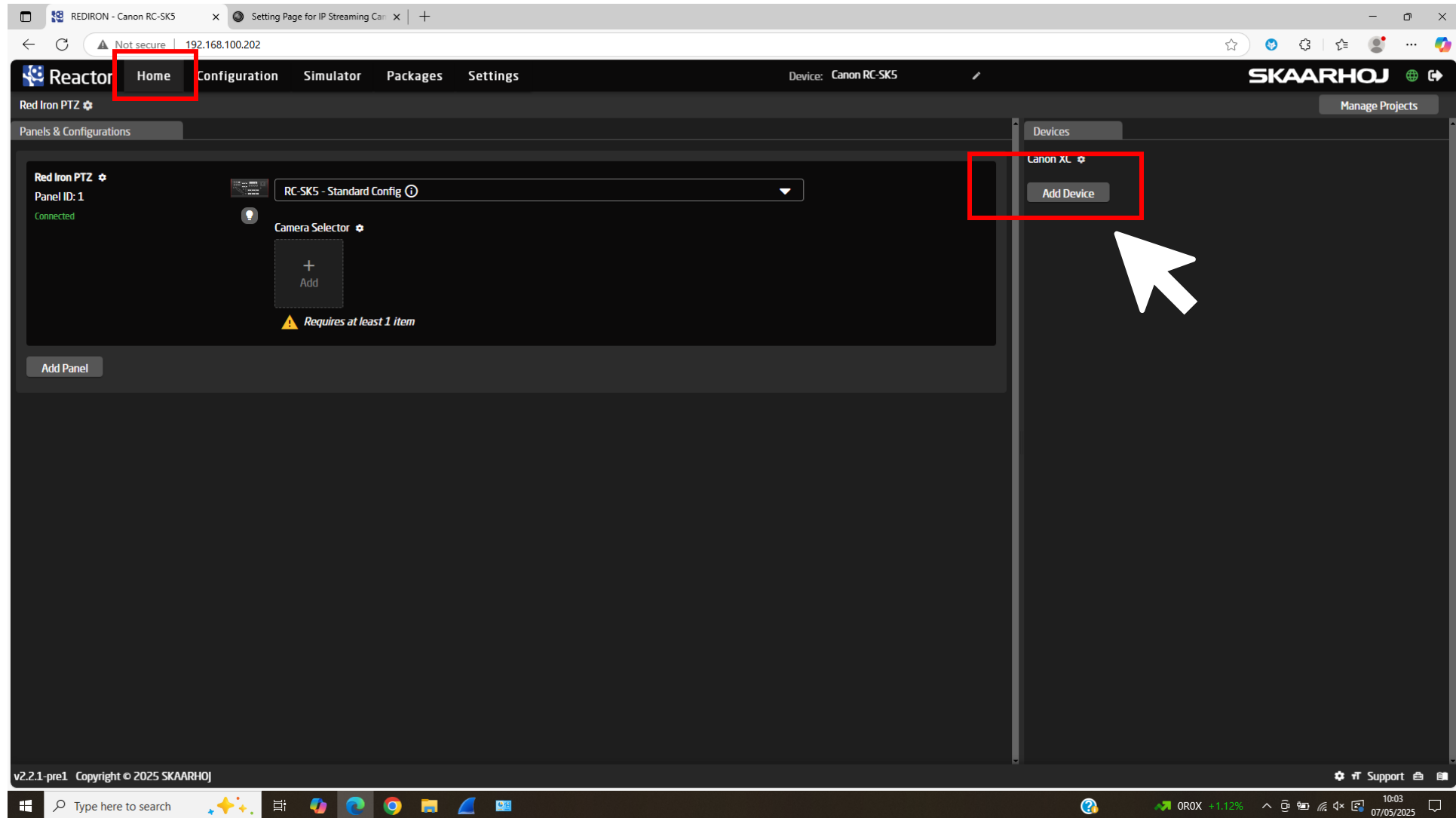
The screenshot shows the 'system/settings' page of a device. The 'Authentication' section is highlighted with a red box. It contains an 'Enable' toggle (checked), a 'Username' field with 'admin', and a 'Password' field with masked characters. A 'Save' button is at the bottom right of this section. Other visible sections include 'WiFi Settings' (with 'WiFi Client' selected), 'RawPanel Mode' (disabled), 'Date and Time' (showing '2025-11-13 21:02:53'), and 'Cloud' (status: currently unavailable). A green 'Save' button is at the top right of the settings area.

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Support

You can change ID and password from here  
Enter new ID and password and push "Save" button.

# Camera registration



Go back to “Home” tab and Click “Add Device”



# Camera registration

Reactor Home Configuration Simulator Packages Settings Device: Canon RC-SKS SKAARHOJ

Red Iron PTZ

Panel ID: 1

Connected

RC-SKS - Standard

Camera Selector

Add Panel

Select Device To Add

Discover Devices

Add Manually

Create combo devices

Show Concepts

“Discover Devices”  
Auto search from  
Connected devices

“Add Manually”  
Manually you can  
search by entering  
name

Description	Device Core	Select
Blackmagic Design Videohub 20x		
Canon CR-N100 PTZ	Canon XC	Select
Canon EOS C400		
Canon CR-N700 PTZ		
Canon EOS C70		
Canon CR-N300 PTZ		
EOS-L/0	Canon XC	Select
CR-N300	Canon XC	Select
EOS-C500	Canon XC	Select
EOS-C300	Canon XC	Select
CR-X300	Canon XC	Select
CR-N500	Canon XC	Select
eMottimo ST4 Camera Robot	eMottimo Camera Robot	Select
eMottimo ST4.3 Camera Robot	eMottimo Camera Robot	Select
eMottimo SA2.6 Camera Robot	eMottimo Camera Robot	Select
Epiphan Pearl2	Epiphan Pearl	Select
MFR-3100EX	FOR-A MFR Router	Select
Guide Expert Power Control 8045 (1.2 Outputs)	GUIDE POU5	Select
GY-HC550	JVC RCP	Select

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Type here to search

FTSE 250 -0.57%

10:04 07/05/2025

You need to find “Device Core” = driver, of “Canon XC”

# Camera registration

The screenshot shows the Reactor interface with the 'Select Device To Add' dialog open. The dialog has two tabs: 'Discover Devices' and 'Add Manually'. The 'Discover Devices' tab is active, showing a table of devices found on the network. The 'Add Manually' tab is also visible, showing a list of manual add devices. Red boxes highlight the 'Discover Devices' and 'Add Manually' buttons in the background interface, and the 'Select Device To Add' dialog. Arrows point from the buttons to the dialog.

**Select Device To Add**

Discover Devices Add Manually

☐ Create combo devices ☐ Show Concepts

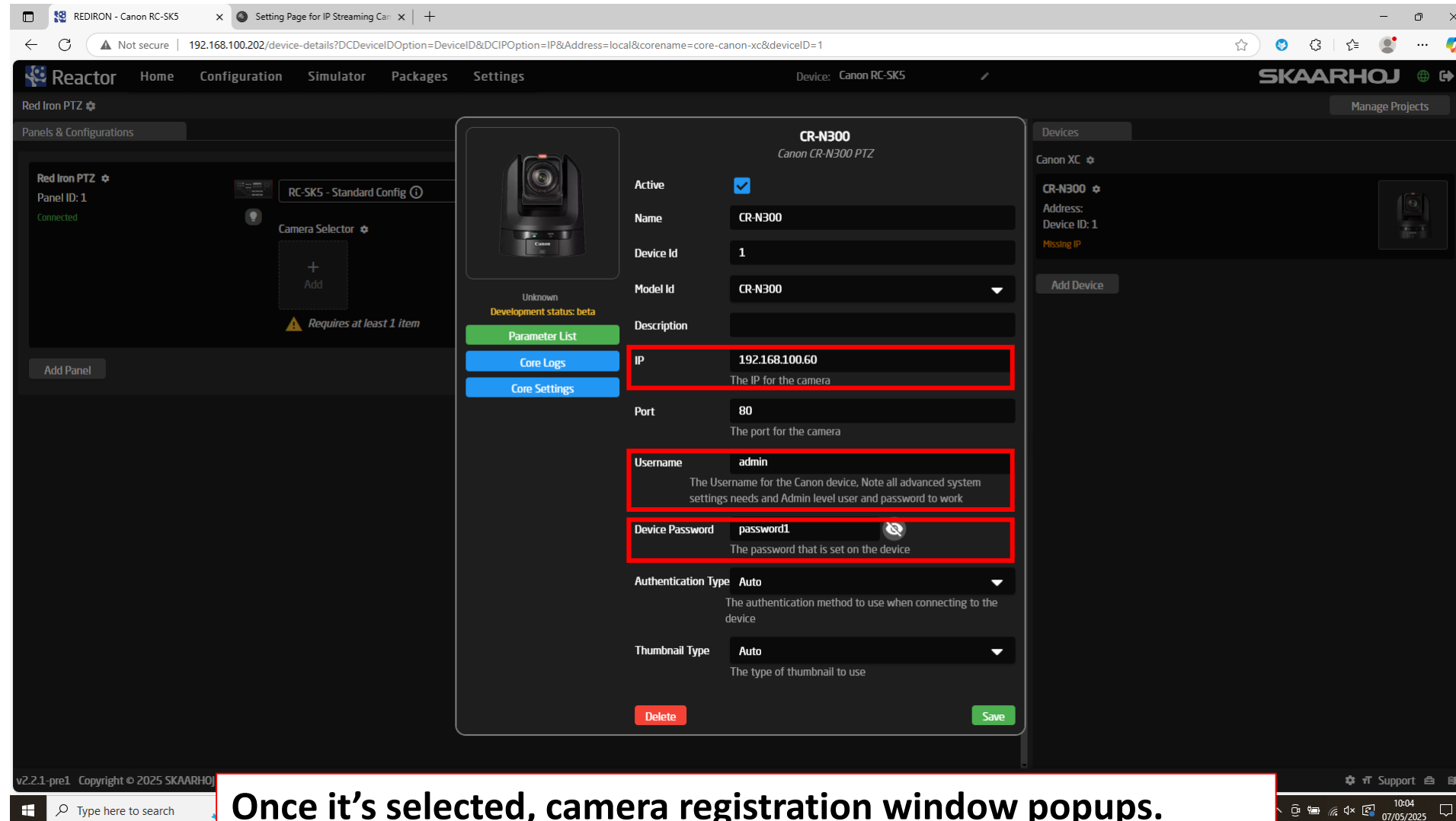
Manual add devices

Search...

Device Name	Device Core	Description	Actions
Remote	Remote or Unknown	Connects to the remote device, eg a device managed by a different bluepill	Select
CR-N300	Canon XC	Canon CR-N300 PTZ	Select
CR-X300	Canon XC	Canon CR-X300 PTZ	Select
CR-N700	Canon XC	Canon CR-N700 PTZ	Select
EOS-C300	Canon XC	Canon EOS C300 Mark III	Select
EOS-C70	Canon XC	Canon EOS C70	Select
EOS-C400	Canon XC	Canon EOS C400	Select
CR-N500	Canon XC	Canon CR-N500 PTZ	Select
EOS-C500	Canon XC	Canon EOS C500 Mark II	Select
CR-N100	Canon XC	Canon CR-N100 PTZ	Select

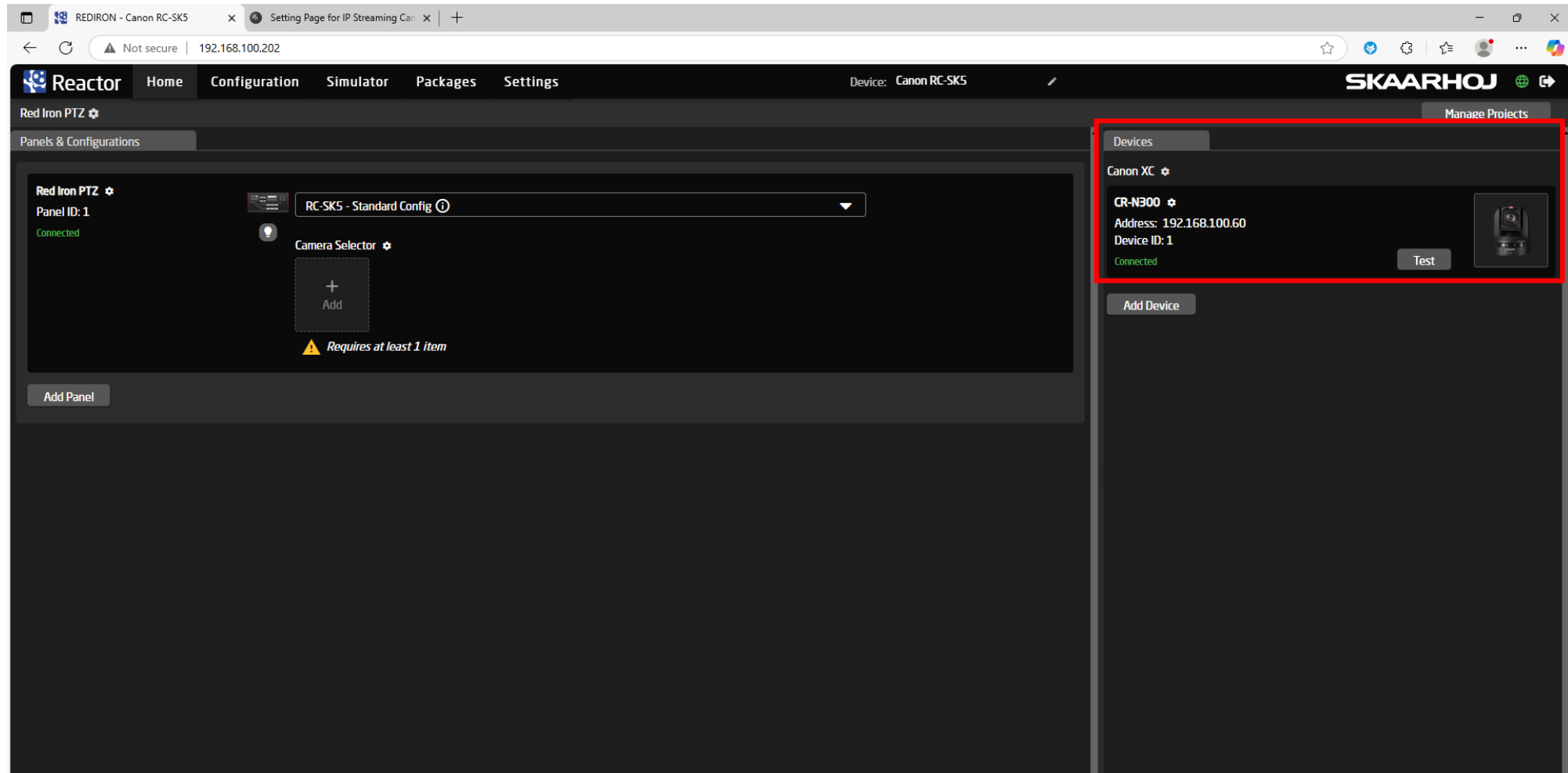
You need to find "Device Core" = driver, of "Canon XC"

# Camera registration



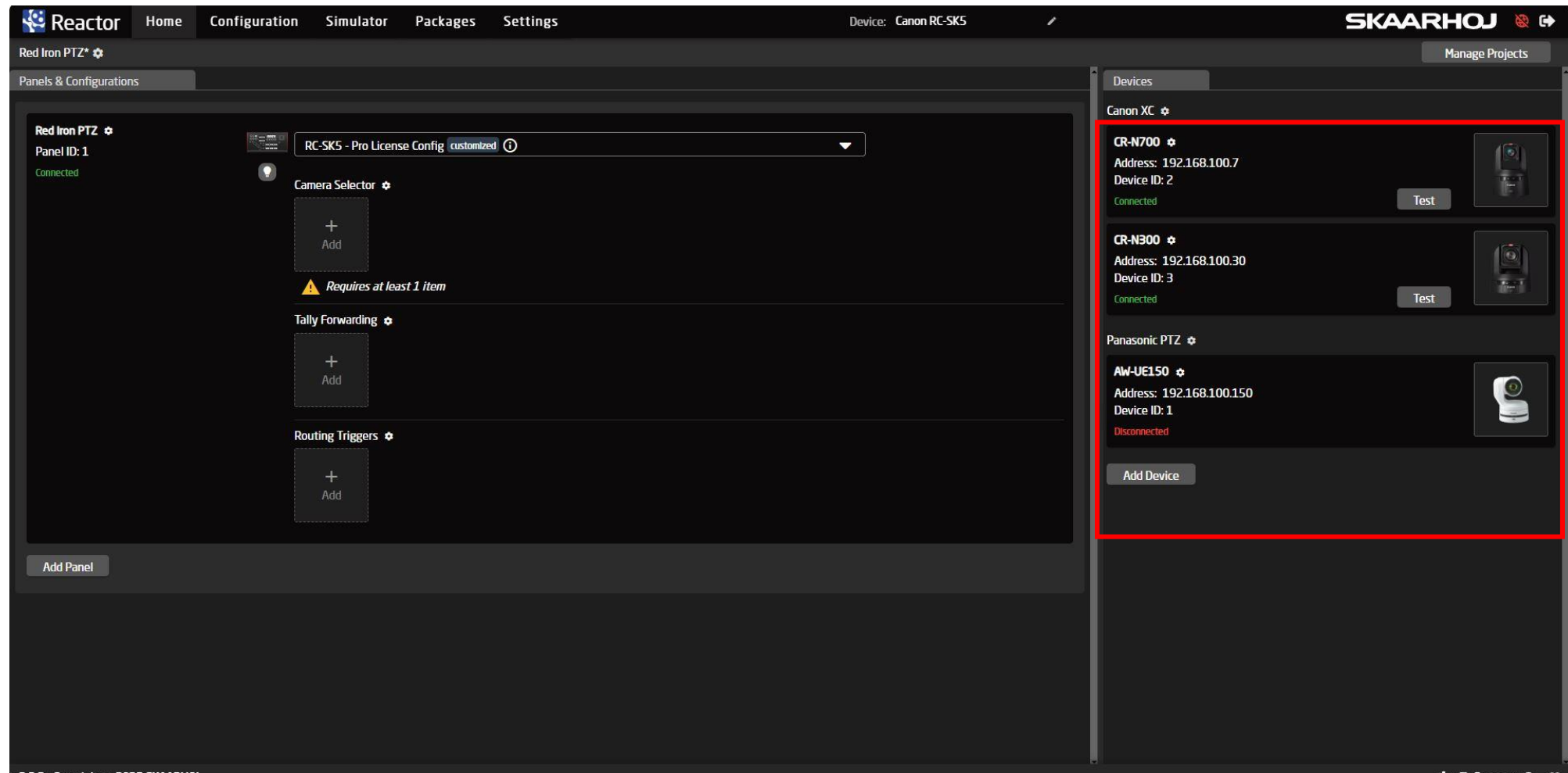
Once it's selected, camera registration window pops up.  
Enter IP address, Username, Device Password of the camera.

# Camera registration



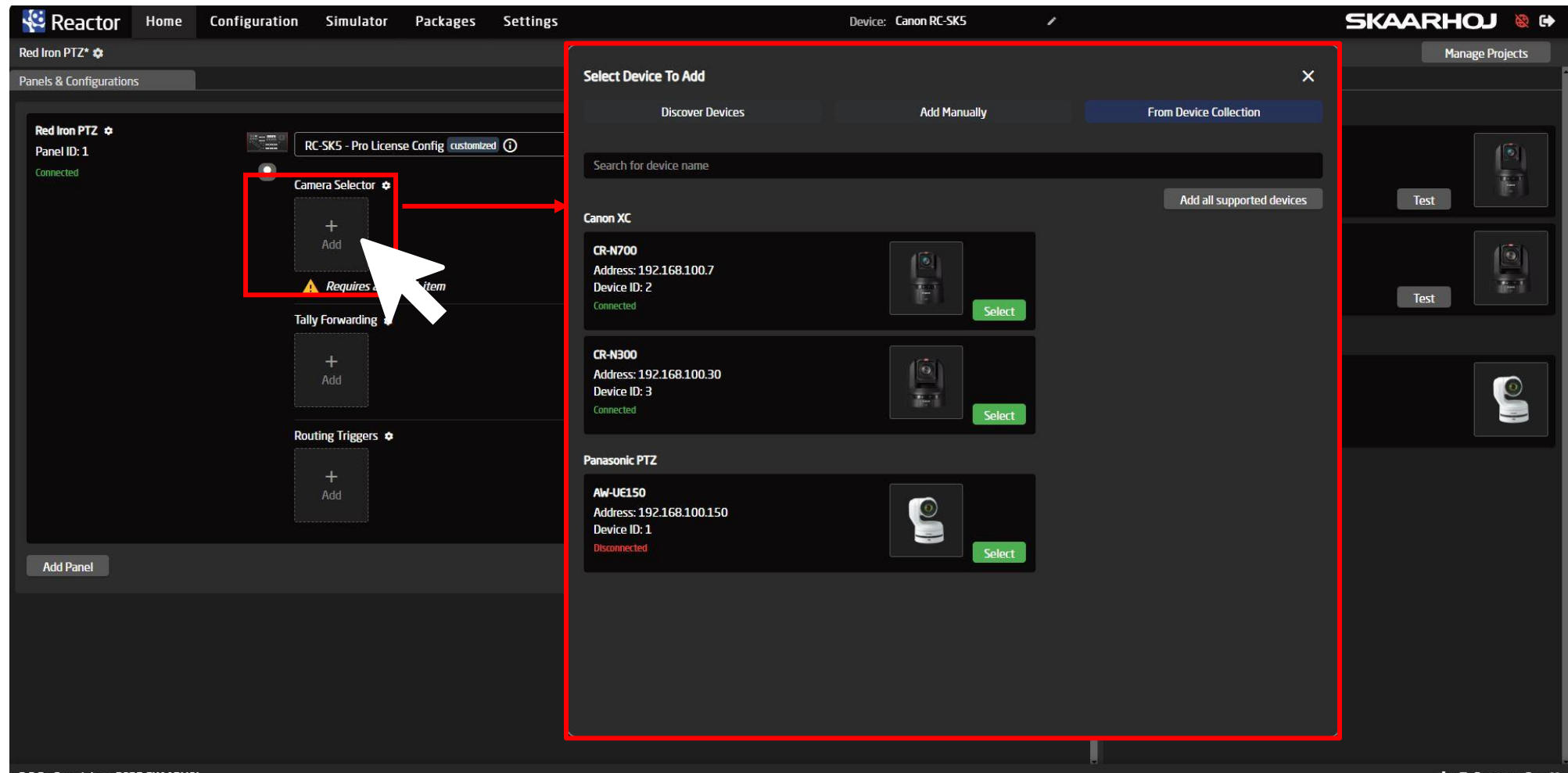
- Then camera is added on the right list.  
-> You can add multiple cameras on the right list = you can pick up camera to register to controller for control from it
- If IP address/ID/Pass are OK and connected with camera, status becomes “Connected” with green character

# Camera registration



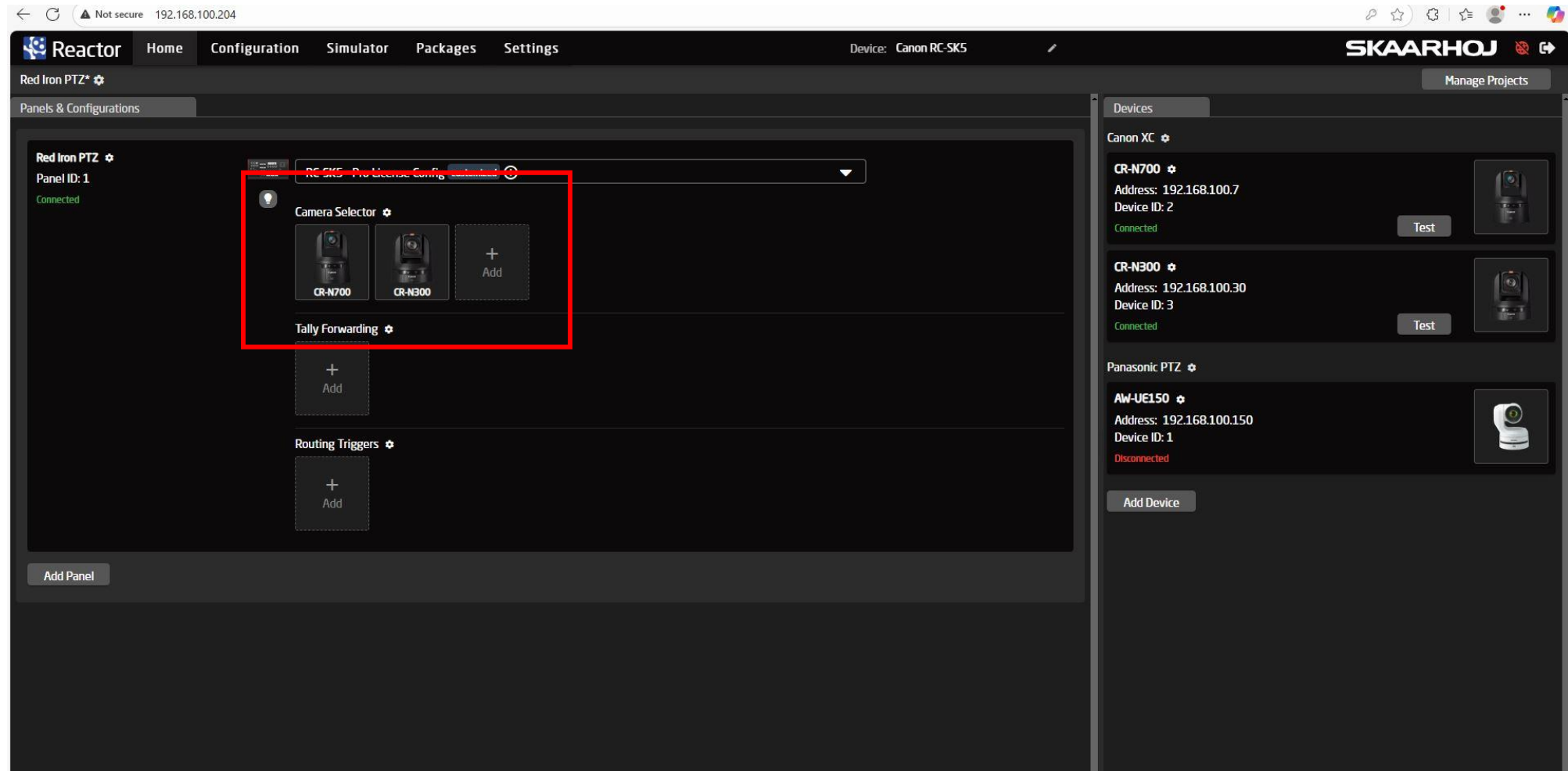
- You can repeat and add necessary number of cameras on the right list.

# Camera registration



- Then click “Add” under the panel name.
- Then “Select Device To Add” window appears, and you can select camera to register to the panel to control

# Camera registration



- Repeat and register all necessary camera to control from RC-SK5.  
-> Ready to start operation!



### ***3. Operation***

### 3. Operation -after camera registration-



Registered camera is appeared on the bottom side with yellow LED  
Registered presets are appeared on the center with pink LED

Dedicated Dials  
for R&B Gain,  
Master, Pedestal  
and AWB button

Menu Control  
buttons and Dials



Professional Quality  
Joystick

Iris Dial



SPEED

AUTO

OTAF

SPEED

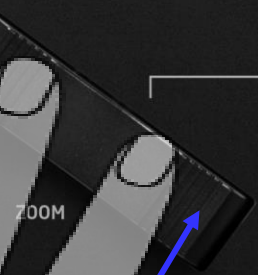
FOCUS

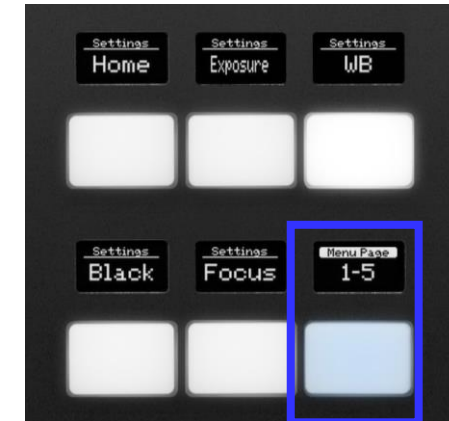
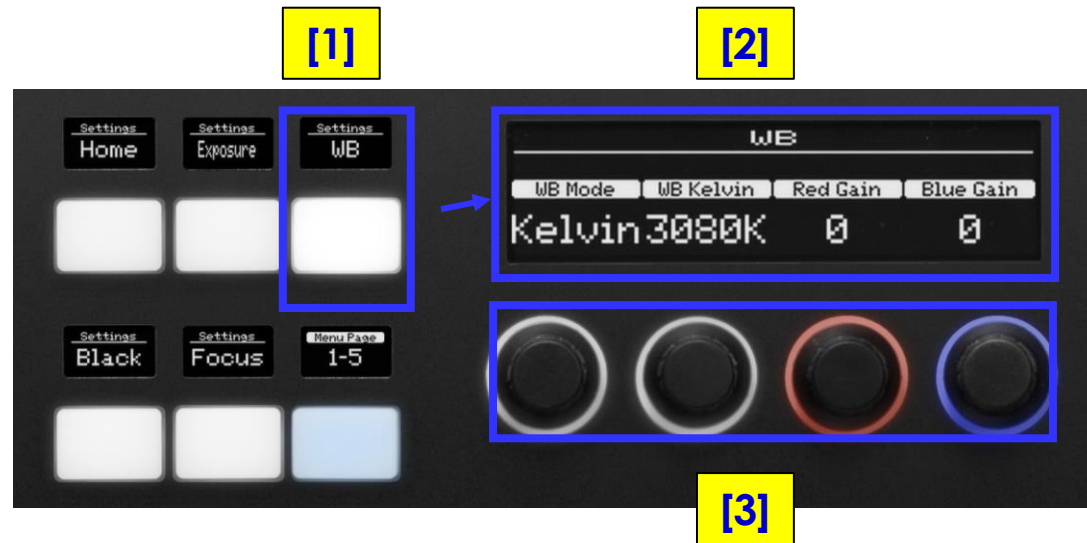
Focus  
Dial



Buttons for  
[1] Preset/Trace selection  
[2] Camera selection

Zoom Rocker





## Procedure

- [1] Chose control sets that operator want to control by pushing button on left
- [2] Then, 4 Setting Items with current value/status are displayed on LED
- [3] Control these settings/value by Dials just under each 4 settings.

There are 20 Control sets and it's switch by pushing "Manu Page button"  
(1-5, 6-10, 11-15, 16-20)

# Menu Control

List of control items

	Set Name		Item 1	Item 2	Item 3	Item 4
1	Home	Name	Shooting Mode	Iris (F. Value)	ShutterSpeed Value	Gain Value
2	Exposure1	Name	Auto Iris	Iris (F. Value)	Shutterspeed Mode	ShutterSpeed Value
3	Exposure2	Name	Gain Mode	Gain Value	AE G.Limit	ND Filter
4	White Bal	Name	WB Mode	WB Kelvin (Value)	Red Gain	Blue Gain
5	Black1	Name	Master Ped	Master Black R	Master Black G	Master Black B
6	Black2	Name	Sharp Level	BG Level	BG Point	BG Range
7	Focus	Name	F.Mode	Face Detection	F. track	AF Speed
8	Preset	Name	Speed Mode	Preset Speed	Preset Time	Store Mode
9	Trace	Name	Select Trace Nr + status	Start/stop Trace Record	Prepare + Trace recall	Trace delete or Trace Store Mode
10	P/T Ramp	Name	Pan/Tilt/Zoom Select	Pan or Tilt Ramp	Pan or Tilt Acceleration	
11	Various	Name	Save Setting	Image Stabilizer	OSD 12G-SDI	OSD HDMI/3G-SDI
12	Exposure D1	Name	IR Shooting	High Sensitivity	Gain Boost	Auto Slow Shutter
13	Exposure D2	Name	AE Shift	Metering Mode	AE Response	Shockless Gain
14	Exposure D3	Name	Iris Limit	Flicker Reduction	Diffraction Correction	
15	Color Matrix1	Name	Color Matrix:Gain	Color Matrix:Phase	Color Matrix:R-G	Color Matrix:R-B
16	Color Matrix2	Name	Color Matrix:G-R	Color Matrix:G-B	Color Matrix:B-R	Color Matrix:B-G
17	Custom Picture	Name	Custom Picture	Gamma	Color Space	Color Matrix
18	Image Quality1	Name	Image Quality Mode	Gamma	Color Space	Color Matrix
19	Image Quality2	Name	Noise Reduction	Noise Reduction level	Skin Detail	Knee
20	System	Name	System Format	System Frequencu (Hz)	Video Format 12G-SDI	Video Format HDMI/3G-SDI

When CEOS/XF605 is connected, set 9 becomes below menu

9	Video/Cinema	Name	On Screen	Rec	Assinable button 1	Assinable button 2
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## ***4. Other***

- ***Conduct FW update***
- ***Activate Pro License***
- ***Other Tips***



# How to conduct FW update

1. Access to Web UI
2. Go to “Settings” page
3. Make SK5 Online = connect SK5 itself to Wifi around
4. Go to “Package” page and install all update

WiFi Settings

☐ Disable Wifi ☒ WiFi Client ☐ Access Point

Currently connected to: Taiki's iPhone Disconnect

Scanned Networks: TP-Link\_9A80 TP-Link\_Guest\_9A80 Taiki's iPhone Canon Canon-for-Guest Search

Configured Networks:

Breath

Galaxy A53 5G 52B8

Taiki's iPhone

Network Name: Taiki's iPhone

Password:

Connect

From “WiFi Settings”,  
Search wifi around and connect one of it by entering  
password of wifi.

(Picture shows connecting with “Taiki’s iPhone”)

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Support



# How to conduct FW update

The screenshot displays the SKAARHOJ web interface. The top navigation bar includes 'System', 'Home', 'Configuration', 'Simulator', 'Packages', and 'Settings'. The 'System' tab is active, showing 'System Information' and 'Logs'.

**System Information:**

System component	Installed version
Operating System	1.4-pre1
Device Type	Canon RC-SK5 (controller-rediron)
System Manager	v1.0.9 (c9ffa00)
Serial Number	451145
Ethernet IP	192.168.100.204
Ethernet MAC	58:48:49:10:17:17
WiFi Client IP	172.20.10.3
Wireless MAC	58:48:49:10:17:18
System Memory Usage	10%

**Logs:**

```
2025-11-13, 21:57:41 ibeam-init error on scanning: exit status 240 module=pkg/wireless
2025-11-13, 21:57:41 ibeam-init error Could not scan: exit status 240 module=pkg/wireless
2025-11-13, 21:57:41 ibeam-init error on scanning: exit status 240 module=pkg/wireless
2025-11-13, 21:57:41 ibeam-init error Could not scan: exit status 240 module=pkg/wireless
2025-11-13, 21:57:49 ibeam-init info Got
2025-11-13, 21:57:49 ibeam-init info Got
2025-11-13, 21:58:07 core-panasonic-ptx
tVolume (P:2673170018, D: 1) deviceID=1
2025-11-13, 21:58:50 ibeam-init info Got
:46:8d:1a:1:0x31660f0 aa:46:8d:1a:3:0x31
a:1:0x31661e0 ae:46:9d:1a:3:0x3166090 be
2025-11-13, 21:58:50 ibeam-init info Got
:46:8d:1a:1:0x31660f0 aa:46:8d:1a:3:0x31
a:1:0x31661e0 ae:46:9d:1a:3:0x3166090 be
2025-11-13, 21:59:28 ibeam-init info Cor
2025-11-13, 21:59:28 ibeam-init info Cor
2025-11-13, 21:59:28 ibeam-init info WEP
2025-11-13, 21:59:28 ibeam-init info WEP
2025-11-13, 21:59:28 ibeam-init info Wrc
2025-11-13, 21:59:28 ibeam-init info WEP
2025-11-13, 21:59:28 ibeam-init info WEP
2025-11-13, 21:59:30 core-panasonic-ptx
tVolume (P:2673170018, D: 1) deviceID=1
2025-11-13, 21:59:38 ibeam-init info IP Changed, uptime seconds: 10209 module=pkg/sysinfo
2025-11-13, 21:59:38 ibeam-init info IP Changed, uptime seconds: 10209 module=pkg/sysinfo
```

**IP Configuration:**

ETHERNET: DHCP ☐ Do not use for Internet Access ☐ ?

IP address: 192.168.100.204

Subnet Mask: 255.255.255.0

**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.

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Once RC-SK becomes online,  
Network icon on right top of web UI becomes green.  
(it's red in off-line)

Then, now available to go to FW verup.

# How to conduct FW update

System Home Configuration Simulator **Packages** Settings Device: Canon RC-SK5 SKAARHOJ

Show pre-releases

Installed Packages

Search...

Status ▲	Settings	Package Name	Package Description	Versions
Running	⚙	core-canon-xc	Core for Canon cameras supporting the XC protocol	1.0.9 <a href="#">Update to 1.0.10</a>
Running	⚙	core-panasonic-ptz	Panasonic PTZ Broadcast IP Cameras	1.0.4 <a href="#">Update to 1.0.8</a>
Running	⚙	hardware-manager	Connecting the native panel to reactor	1.0.3 <a href="#">Update to 1.0.5</a>
Running	⚙	system-manager	skaarOS init system and webui	1.0.7 <a href="#">Update to 1.0.9</a>
Running	⚙	reactor	main application for connecting hardware and device cores	2.2.0 <a href="#">Update to 2.2.2</a>
Running	⚙	skaarOS	main operating system	1.3-pre1 <a href="#">Update to 1.3</a>
Stopped	⚙	core-bmd-atem	core for BlackMagicDesign ATEM Video Mixers	1.0.4-pre19 <a href="#">Update to 1.0.4</a>
Stopped	⚙	core-skaarhoj-tcpserver	TCP Server core, including legacy registers known from the UniSketch device core of the same name	1.1.0 <a href="#">Update to 1.1.1</a>

Available Packages

Search...

Package Name

- core-all-gimbal
- core-aja-colorbox
- core-aja-kumo
- core-aja-rest
- core-allenheath-dlive
- core-anc-lesarcv-rackodu

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Go to “Packages” tab,

There are list of installed packages.

Then, you can download available updates for all of packages.

➔ You need to install all updates. (please keep SK5 online while updating)

If there is update existing, there are green notification marks are shown.

# Pro License

RC-SK5 offers “Pro License” to unlock much functionality as same as normal SKAARHOJ control products

(<https://www.skaarhoj.com/discover/rc-sk5-pro-license>)

## [Key information]

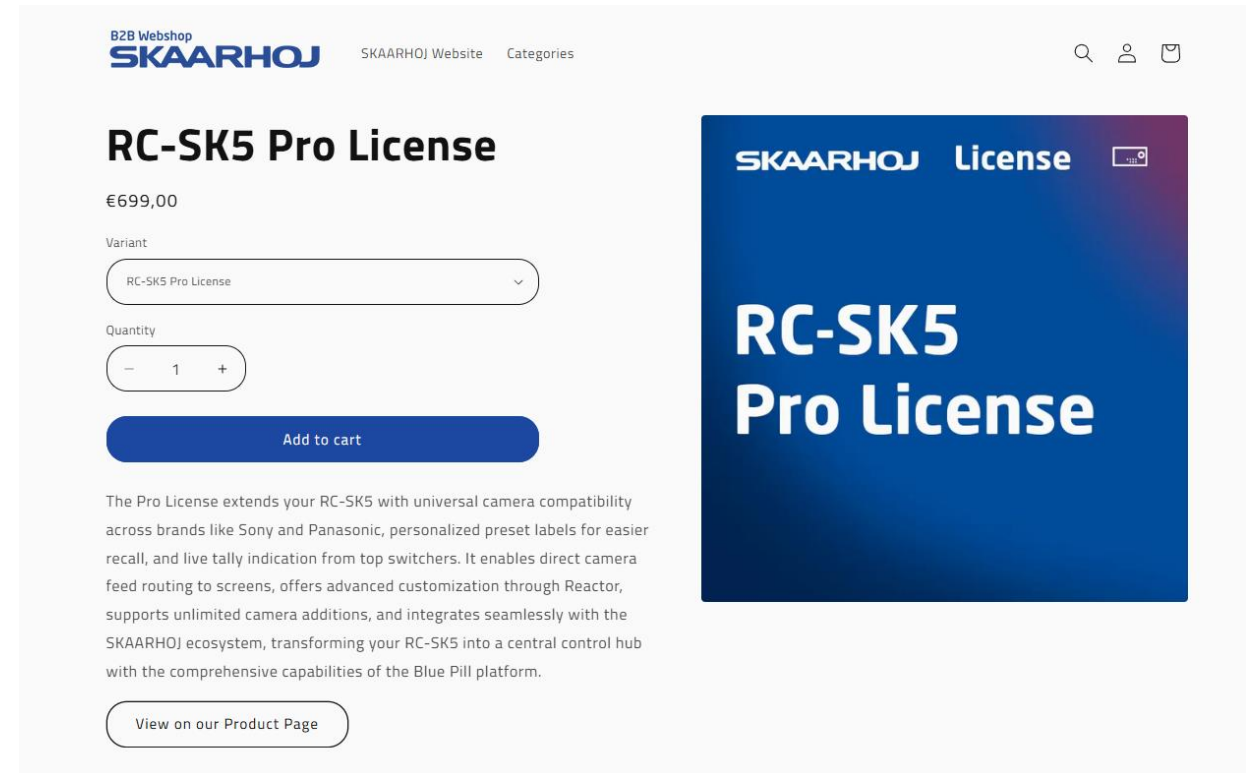
- It's Payable License and [sold through SKAARHOJ channel](#)
- Price is [699 Euro](#)

## [Introduction Page]

- <https://www.skaarhoj.com/discover/rc-sk5-pro-license>

## [e-com page]

- <https://shop.skaarhoj.com/products/rc-sk5-pro-license>



# Pro License

## [Key Features]

### [1] Able to connect/control All brand's cameras

-> Able to use mixing Canon PTZ and Panasonic/Sony PTZ etc



### [2] Able to synchronize with Video Switcher/Switching application

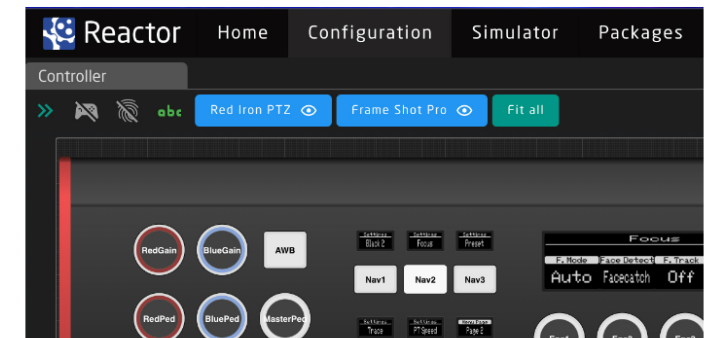
-> Automatic switch of camera selection and showing Tally signal on the panel following video selection by switcher/application.

(BMD, LAWO, vMix, Ross Video, etc )



### [3] Able to do deeper customization

-> Change button assignment, display preset name,



# Activate Pro License

1. Access to Web UI
2. Go to “Settings” page
3. Make SK5 Online = connect SK5 itself to Wifi around
4. Then Automatically Pro License will be activated

The screenshot shows the SKAARHOJ web interface. The top navigation bar includes 'System', 'Home', 'Configuration', 'Simulator', 'Packages', and 'Settings'. The 'Settings' page is active, showing 'System Information' and 'IP Configuration'. The 'License' tab is selected, displaying the license 'rc\_sk5\_pro' and options: licensemode, panelmode, configmode, usbamode, maxpanels, and hw-manager-listen. A red box highlights the 'License' tab and the 'Identify' button. A callout box points to the 'Identify' button with the text: 'You can see here in Settings tab, Pro license is registered.'

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# Update of controllability of other brand's camera (as of 13.11.2025)

Previous



New



Previously when connecting other brand's camera (e.g. Panasonic PTZ), dedicated knob and button for R/B Gain, AWB, R/B Black Master Pedestal, and speed control of zoom/focus/PT were not usable.  
-> It was now all usable. = **All basic controls are now possible in other brand's camera.**

***EOF***