

Device: ARRI Amira



Introduction

At the current moment two Device Cores are utilized in order to communicate with the ARRI Amira camera. The ARRI Amira CAP and the ARRI Amira SSCP Device Core. Development have been done on a ARRI Amira camera with software version 5.3.23, Revision 26107, FPGA (#2) 3190/4412, MVF-1 software 2.17 & Lens mount software 1.69.



ARRI Amira CAP

ARRI Amira CAP (Camera Access Protocol) control via TCP/IP. Allows remote control of parameters in your ARRI Amira camera.



ARRI Amira

ARRI Amira camera control via TCP/IP. Allows remote control of video parameters in your ARRI Amira camera via SSCP (Sony Simple Camera Protocol). The camera acts as a TCP client connecting to the SKAARHOJ controller acting as a TCP server.



UniSketch OS v. 2.2.1.2.4 is required for the ARRI Amira CAP Device to work.

Two Device Cores IPs are set on the controller.

These must match the IP of the camera it self.

Multicam must be enabled on the camera, and the SSCP device IP **must match the IP settings of the controller.**

CAP server must be enabled and CAP server password must be set to "skaarri"

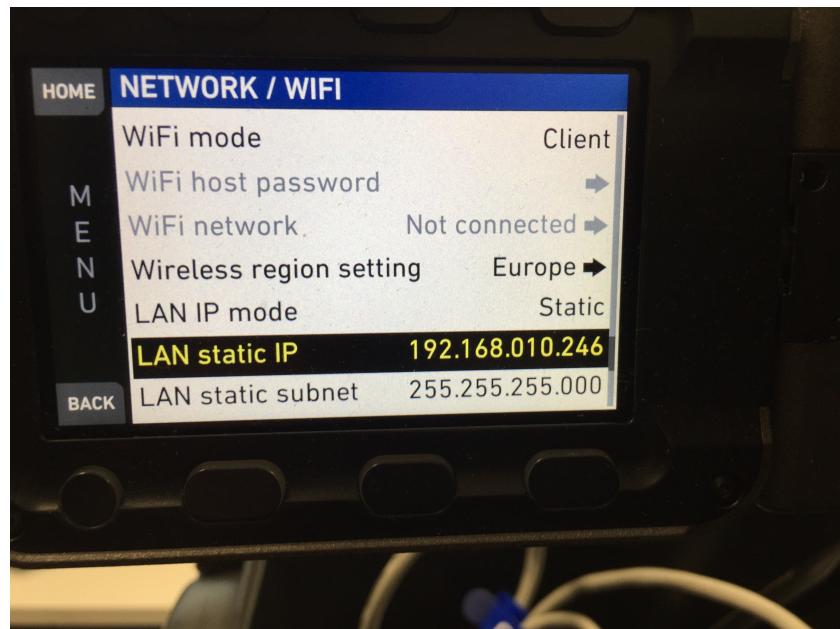
When connected via CAP the SKAARHOJ controller will appear in the CAP Client List as "SkaarhojRCP"

SKAARHOJ DEVICE CORES

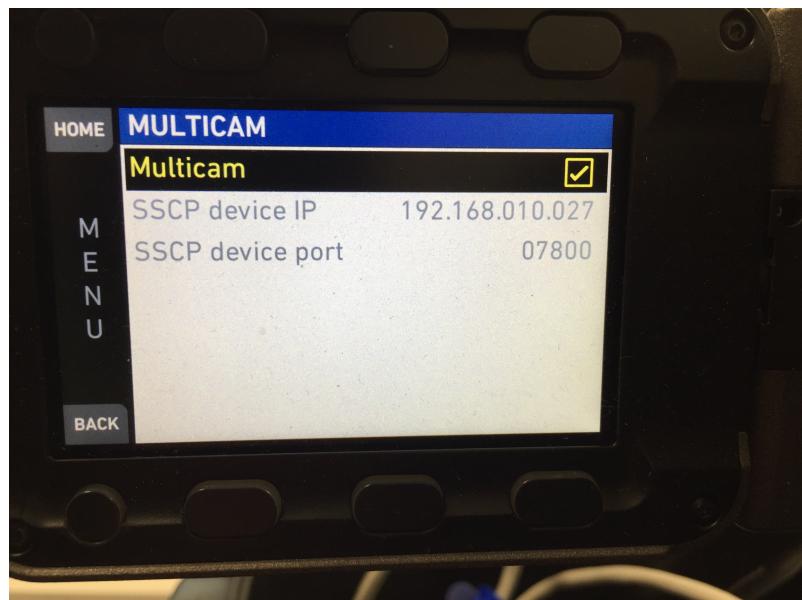
Examples are given below

Controller IP Settings			
IP:	192	.	168
	10	.	27
Subnet Mask:	255	.	255
	255	.	0
Gateway:	192	.	168
	10	.	1
DNS:	192	.	168
	10	.	1
ARRI Amira CAP			
<input checked="" type="checkbox"/> 192	.	168	.
	10	.	246
ARRI Amira			
<input checked="" type="checkbox"/> 192	.	168	.
	10	.	246

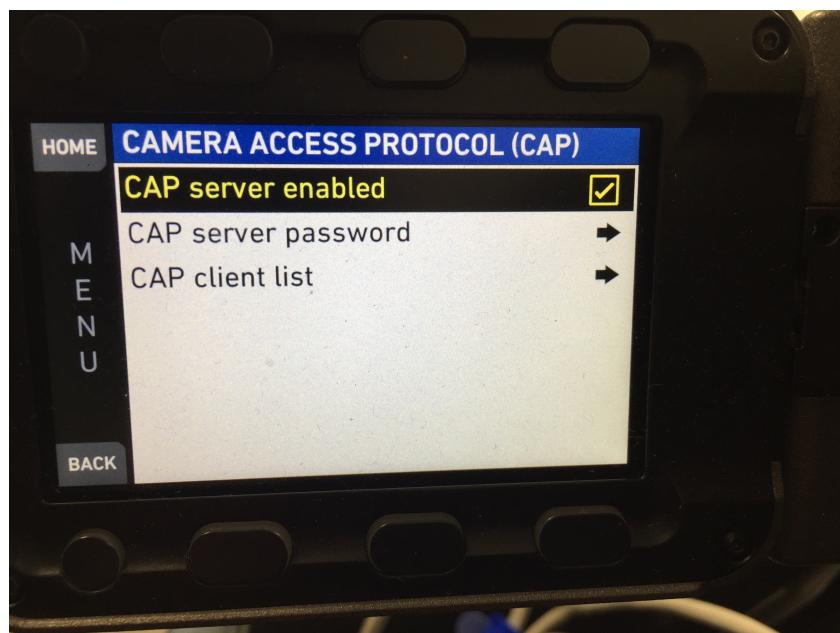
Here is a overview of the IP settings on the SKAARHOJ controller.



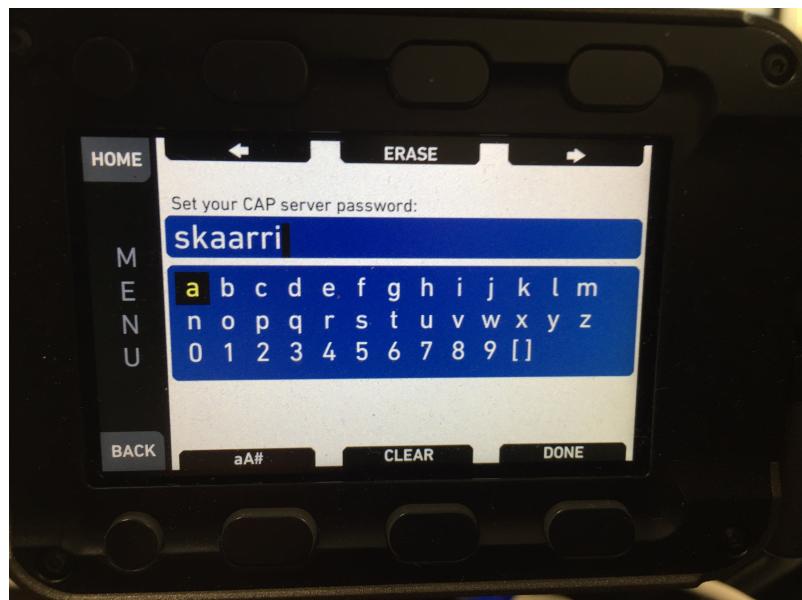
Notice the IP address of the camera follows the IP set on the "ARRI Amira CAP" + "ARRI Amira" Device Core



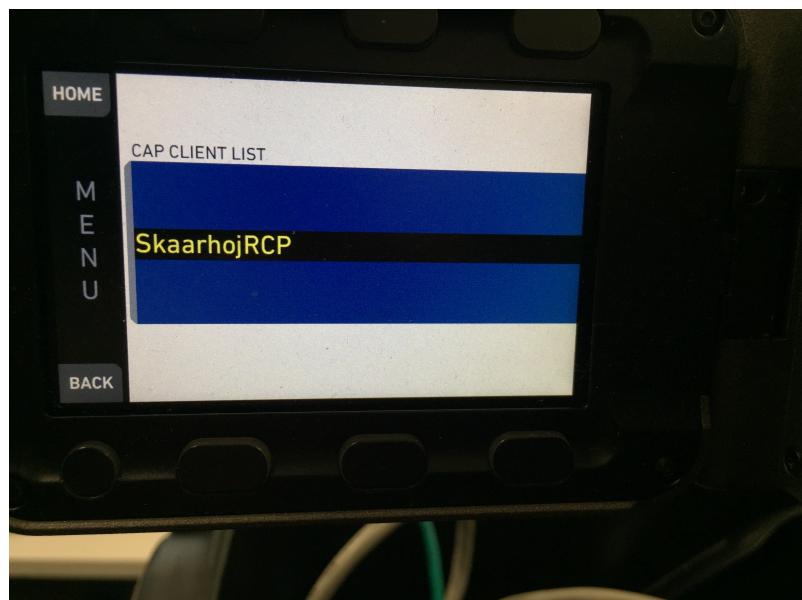
Multicam must be enabled



CAP server must be enabled



Set the CAP server password



When the controller is connected via CAP it will appear in the CAP CLIENT LIST

Device Configurations for Device Core: ARRI Amira CAP

Device configuration options exist:

- Index 0: **Port Override**
 - Sets custom port number
- Index 1: **Override default Password**
 - Sets reference to "String" number containing the custom password.

Example I:

Setting custom port number to 85 could look like this device configuration code: "D0:0=85" where the general form would be "Dx:y=z" where "x" is the number of the device core as installed on the controller (starting with zero for the first device core), "y" the index number and "z" the value for that index.

If the ARRI Amira CAP Device Core is the first in the list like below:

The screenshot shows the SKAARHOJ Device Cores configuration page. On the left is a sidebar with the UniSketch OS logo and links for Controller Configuration, Device Cores (which is selected and highlighted in blue), Manage Configurations, Manage Options, Manage Media, Button Labels, and Sharing. The main content area has a header 'Device Cores'. Below it, a note says: 'Below, you can see the currently enabled device support on your controller. You can add and delete device cores in accordance with your requirements up to a maximum of 14 devices. To understand the development states Mature, Beta, Alpha and Planned (as well as Pro and Planned actions), please check out the [device core support page](#). For general documentation, please see the [UniSketch Manual](#) and [System Actions Manual](#)'. There are two entries: 'ARRI Amira CAP' (selected) and 'ARRI Amira'. Each entry includes a thumbnail of the camera, a name, a brief description, and a 'Go to Manual' link. A red box highlights the first entry, with the text 'Device core number 0' overlaid. Another red box highlights the second entry, with the text 'Device core number 1' overlaid. At the bottom are 'Save Settings' and 'Add another device' buttons.

Setting the port number would be set by this configuration under "Manage Media" on the configuration page for your controller. Access this by pressing "Online Configuration" in the Firmware Application. Remember to save on the configuration page and press "Check for updates" in the Firmware Application.

The screenshot shows the SKAARHOJ Manage Media configuration page. The sidebar on the left is identical to the previous one. The main content area has a header 'Manage Media'. Below it, a note says: 'Here, you can add various types of media content to your configuration.' There is a dropdown menu 'ARRI Amira CAP Test'. Under 'Device Core Options', there is a note: 'Some device cores support additional options that can be defined through this text field. Please refer to the manual for the particular device core for details.' Below this is a text input field containing 'D0:0=85'. At the bottom are 'Strings' and 'Add String' buttons.

SKAARHOJ DEVICE CORES

To confirm that a device configuration is in fact detected by the controller, please check it out on the serial monitor where it will be mentioned:

```
D0[0] = 85
DeviceCore #0: ARRIAMIRA CAP0, IP = 192.168.10.244
Started Client Arri Cap!
ArriCAP: Using Port 85
setup() Done
-----
...
```

Example II:

Setting a custom password could look like this device configuration code: "D0:1=9" where the general form would be "Dx:y=z" where "x" is the number of the device core as installed on the controller (starting with zero for the first device core), "y" the index number and "z" the value for that index.

In this case the number "9" is a reference to the string number containing the custom password.

UniSketch OS

SKAARHOJ

Controller Configuration

Device Cores

Manage Configurations

Manage Media

Button Labels

Firmware Overview

Manage Media

Here, you can add various types of media content to your configuration.

ARRI Amira CAP Test ▾

Device Core Options

Some device cores support additional options that can be defined through this text field. Please refer to the manual for the particular device core for details.

D0:1=9

Strings

Add String

String 1:

String 2:

String 3:

String 4:

String 5:

String 6:

String 7:

String 8:

String 9: test

To confirm that a device configuration is in fact detected by the controller, please check it out on the serial monitor where it will be mentioned:

```
Compiled: Dec 16 2019 15:21:23
D0[1] = 9
DeviceCore #0: ARRIAMIRA CAP0, IP = 192.168.10.244
Started Client Arri Cap!
ArriCAP: Using Password from Media Tab 9
setup() Done
-----
...
```