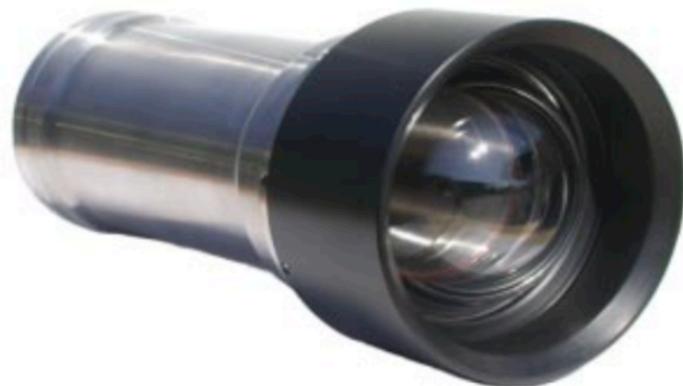


# Device: INSITE PACIFIC Mini Zeus



## Introduction

The Mini Zeus from INSITE PACIFIC can be controlled from SKAARHOJ panels using a Ethernet-Serial converter. The camera block inside the Mini Zeus is a Sony FCB-EV7100

Please notice if Iris is in the vicinity of the value CLOSE one might experience the Iris value in the displays of the controller to feedback "?"

## Ethernet to Serial connection

To communicate via serial (RS-232) to the camera you need an Ethernet-Serial converter. We suggest you get a XS1200 from US Converters - <http://www.usconverters.com/serial-rs232-device-server>

There is a quirk you should know about: The XS1200 only accepts a single TCP connection at a time and it will take some time to realise if a client disconnected silently before it allows a new connection. In essence this means if the SKAARHOJ controller was connected and is rebooted without disconnecting, the XS1200 Server may not realise this before after some time. Therefore you may need to powercycle it along with the SKAARHOJ controller to make sure it will accept a connection.

Below you will find screenshots of how to configure the XS1200 converter (found on the web interface of the XS1200). Notice the IP address of the XS1200 (Static IP Address) must match the IP settings of the Mini Zeus Device Core.

In the settings below the Baud Rate is set to 38400, Serial Type to RS232 and Transmit Timer to 50.

The screenshot shows the configuration interface for a SERIAL TO ETHERNET CONVERTER PART: XS1200 from WWW.USCONVERTERS.COM. The interface has tabs for Basic, Advance, and Security, with Basic selected. The main area is divided into two sections: Serial Settings and Network Settings.

**Serial Settings:**

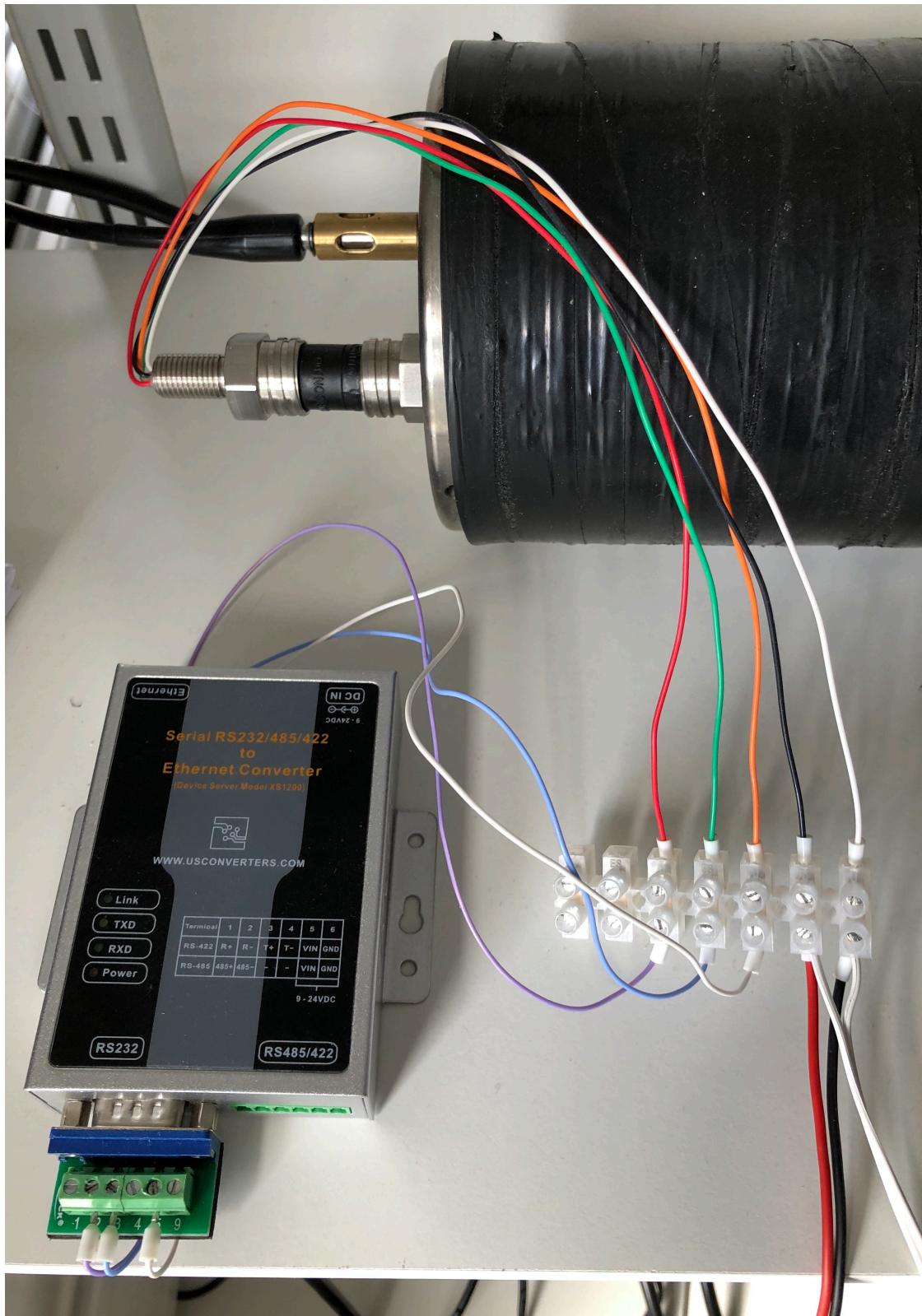
- Device Name: DSM1
- Data Baud Rate: 38400
- Data Bits: 8
- Data Parity: None
- Stop Bits: 1
- Flow Control: None
- Serial Type: RS232

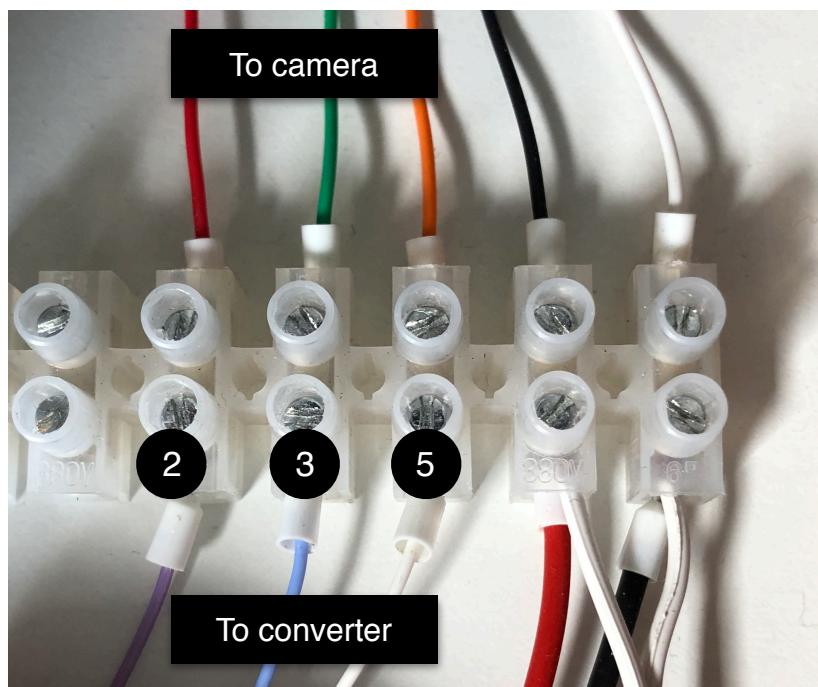
**Network Settings:**

- DHCP Client: Disable
- Static IP Address: 192.168.10.35
- Static Subnet Mask: 255.255.255.0
- Static Default Gateway: 192.168.10.1
- Static DNS Server: 192.168.10.2
- Connection Type: TCP
- Transmit Timer: 50 (with validation message: Please enter an integer between 10~65535 ms)
- Server/Client Mode: Server
- Server Listening Port: 5000 (with validation message: Please enter an integer between 1024~65535)
- Client Destination Host Name/IP: 192.168.10.212 (with validation message: Please enter host name or IP address)
- Client Destination Port: 5000 (with validation message: Please enter an integer between 1024~65535)

At the bottom are buttons for Apply, Cancel, Reboot, and Restore default.

Wiring to the Camera/Converter





## Device Configurations

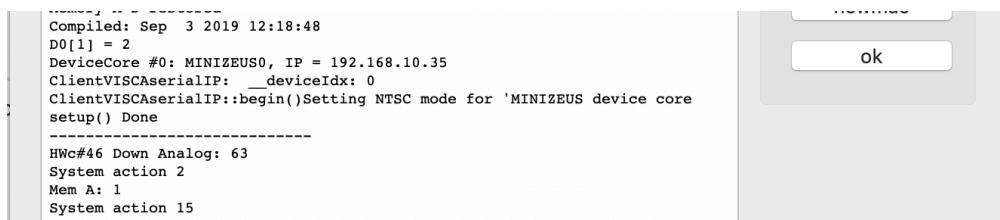
Device configuration options exist:

- Index 1: **Video Standard**
  - If "0" = Reserved
  - If "1" = Pal mode
  - If "2" = NTSC mode
- Index 2: **Custom Port Selection**
  - Can be any integer between 1 and 65500

Example 1:

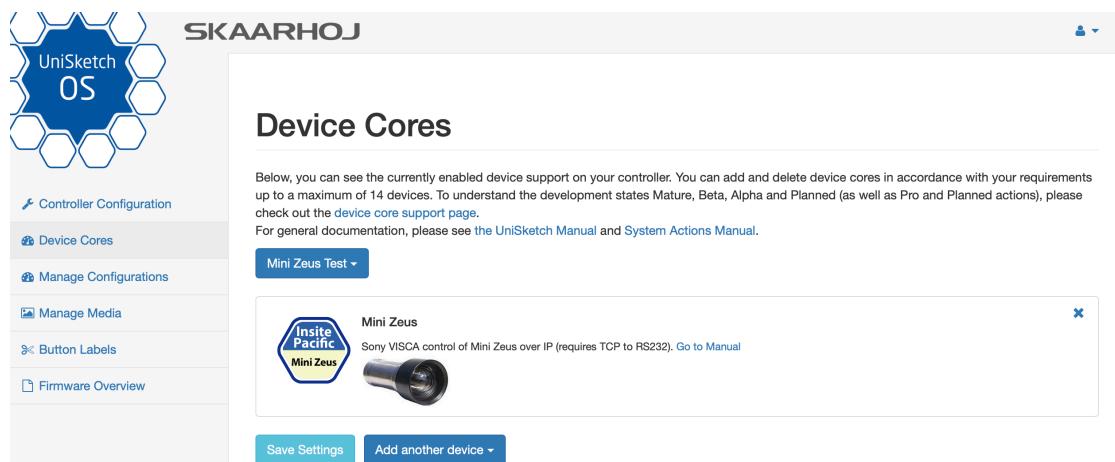
Enabling "Video Standard" to NTSC mode could look like this device configuration code: "D0:1=2" where the general form would be "Dx:y=z" where "x" is the number of the device core as installed on the controller (starting with zero for the first device core), "y" the index number and "z" the value for that index.

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: Sep 3 2019 12:18:48  
D0[1] = 2  
DeviceCore #0: MINIZEUS0, IP = 192.168.10.35  
ClientVISCAserialIP: _deviceIdx: 0  
ClientVISCAserialIP::begin()Setting NTSC mode for 'MINIZEUS device core  
setup() Done  
-----  
HWC#46 Down Analog: 63  
System action 2  
Mem A: 1  
System action 15
```

Example: If the Mini Zeus device core is the first like below:



The screenshot shows the UniSketch OS interface under the "Device Cores" section. The "Device Cores" page lists the currently enabled device support on the controller. It includes a table with columns for device name, manufacturer, and description. The "Mini Zeus Test" row is highlighted, showing the "Insite Pacific Mini Zeus" logo, a small image of the device, and the text: "Sony VISCA control of Mini Zeus over IP (requires TCP to RS232). Go to Manual". At the bottom of the table are two buttons: "Save Settings" and "Add another device".

Then setting the "Video Standard" would be set by this configuration under "Manage Media" on your configuration page for your controller on [cores.skaarhoj.com](http://cores.skaarhoj.com)

## 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=2
```

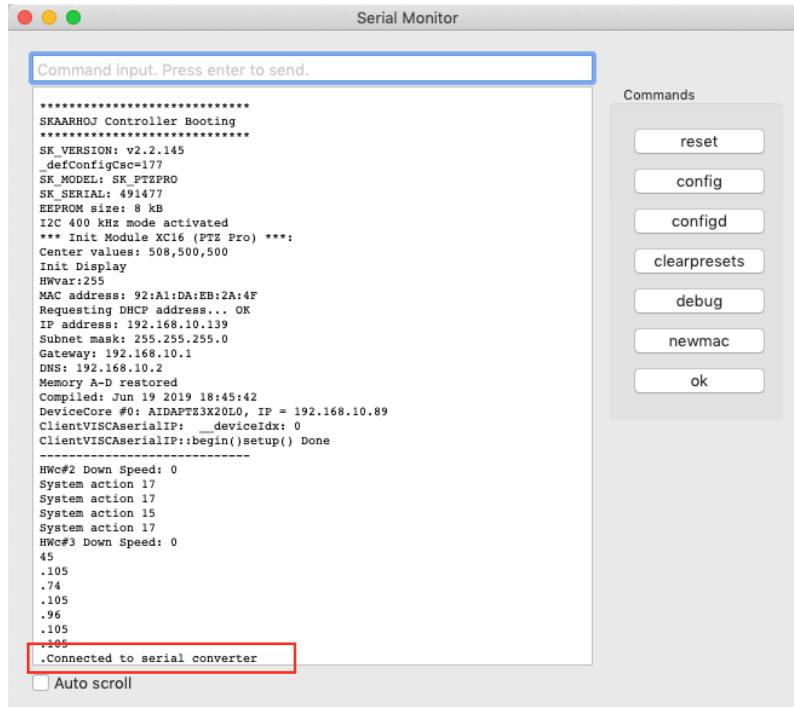
Example 2:

Setting a Custom port could look like this device configuration code: "D0:2=1000" 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.

## Confirm Connection

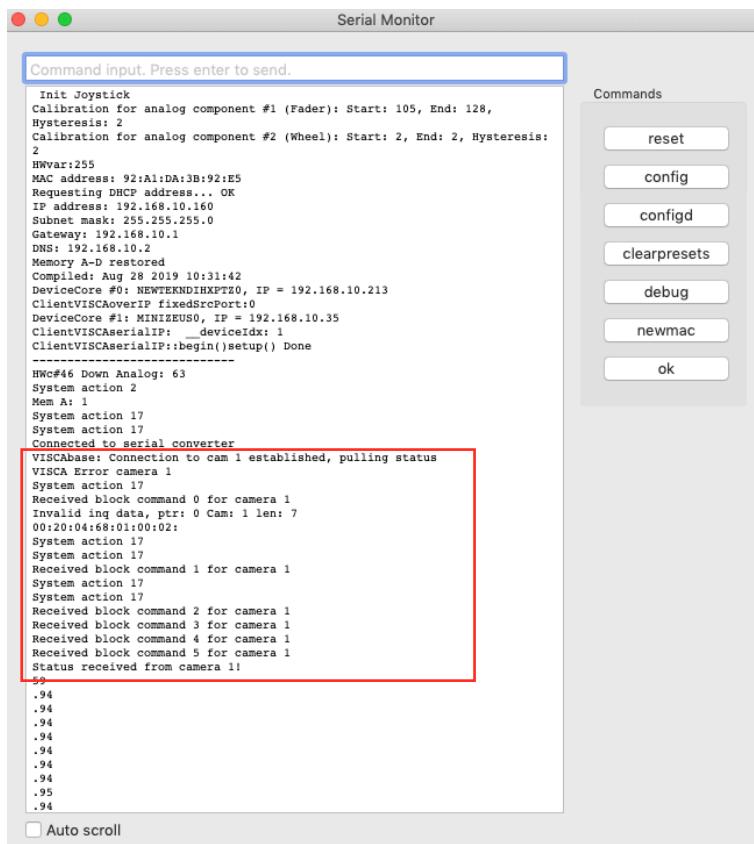
The Serial Monitor from the Firmware Application can be used to monitor connection status.

When the Serial Monitor reports ".Connected to serial converter" connection to the XS1200 have been established, but this does **not** necessarily mean connection to the camera have *also* been established.



Illustrated with another Device Core but same principle

In order to verify connection to the camera the Serial Monitor must state the below commands



## Actions

An excerpt of the actions in the Device Core

- Mini Zeus: Zoom
- Mini Zeus: Zoom (Binary)
- Mini Zeus: Focus
- Mini Zeus: Focus Settings
- Mini Zeus: Zoom Settings
- Mini Zeus: Exposure Mode
- Mini Zeus: Iris
- Mini Zeus: Shutter
- ✓ Mini Zeus: Gain
- Mini Zeus: Gain Limit
- Mini Zeus: White Balance
- Mini Zeus: WB One Push
- Mini Zeus: WB R/B Gain
- Mini Zeus: Chroma Suppress
- Mini Zeus: Aperture Gain
- Mini Zeus: Noise Reduction
- Mini Zeus: Picture Effect
- Mini Zeus: Preset
- Mini Zeus: System
- Mini Zeus: Speed Limit
- Mini Zeus: Auto Shift level
- Mini Zeus: Camera Select