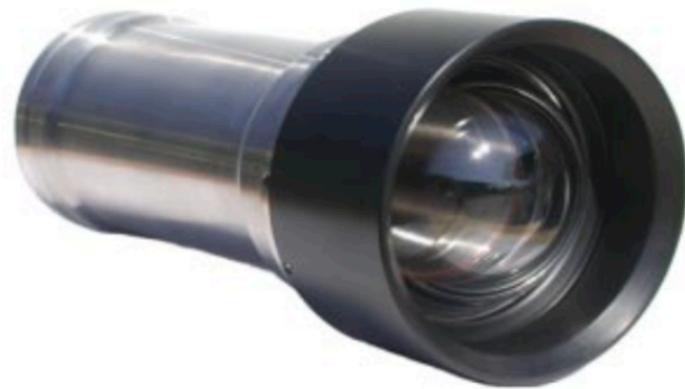


# Device: INSITE PACIFIC Mini Zeus



## 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

## Know Bugs:

Iris control currently suffer under af bug making values off and difficult to control. Work in progress...  
Manual Exposure mode provides better iris control than Iris priority Exposure mode.

## 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:**

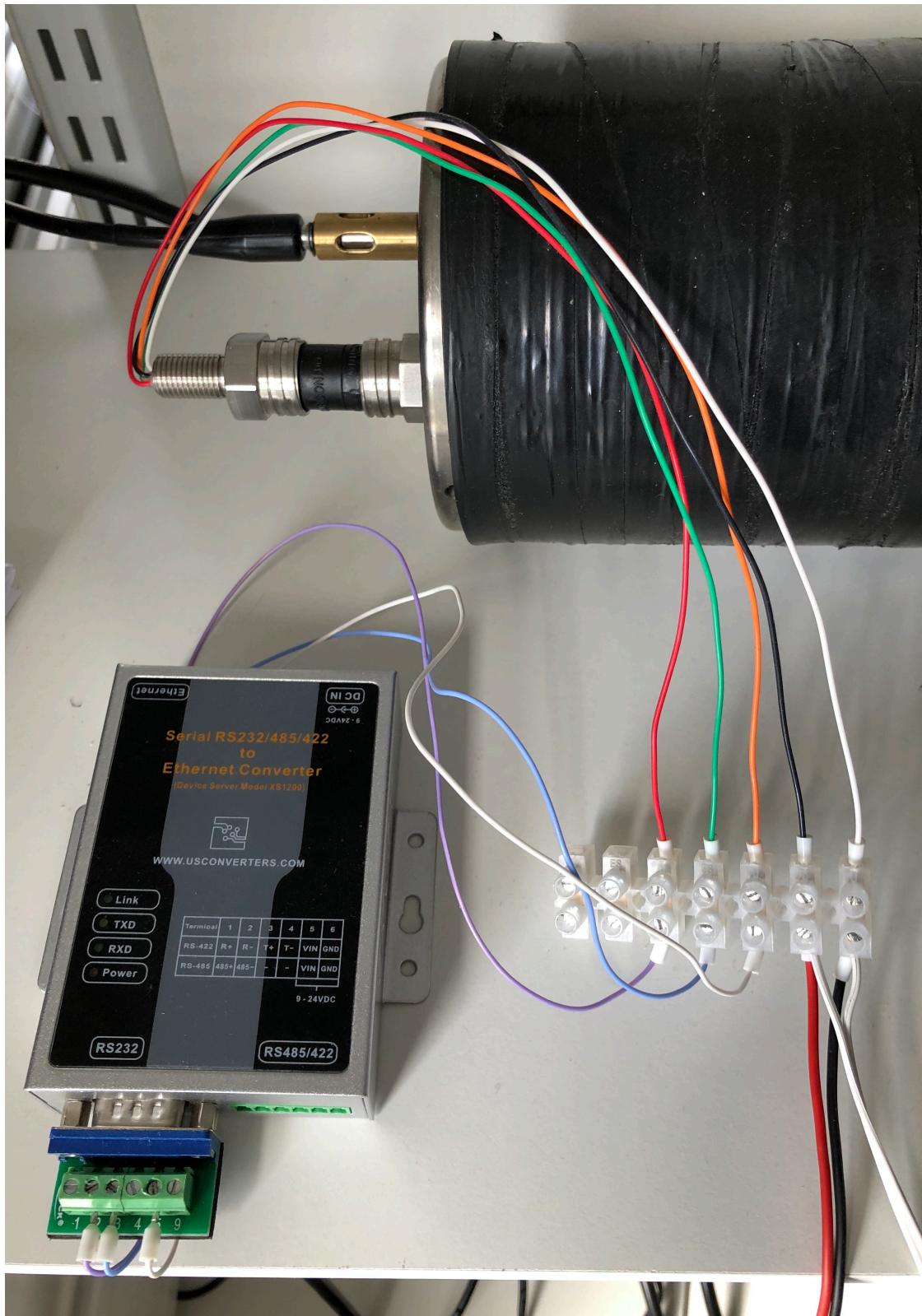
- Device Name: DSM1
- Data Baud Rate: 38400
- Data Bits: 8
- Data Parity: None
- Stop Bits: 1
- Flow Control: None
- Serial Type: RS232

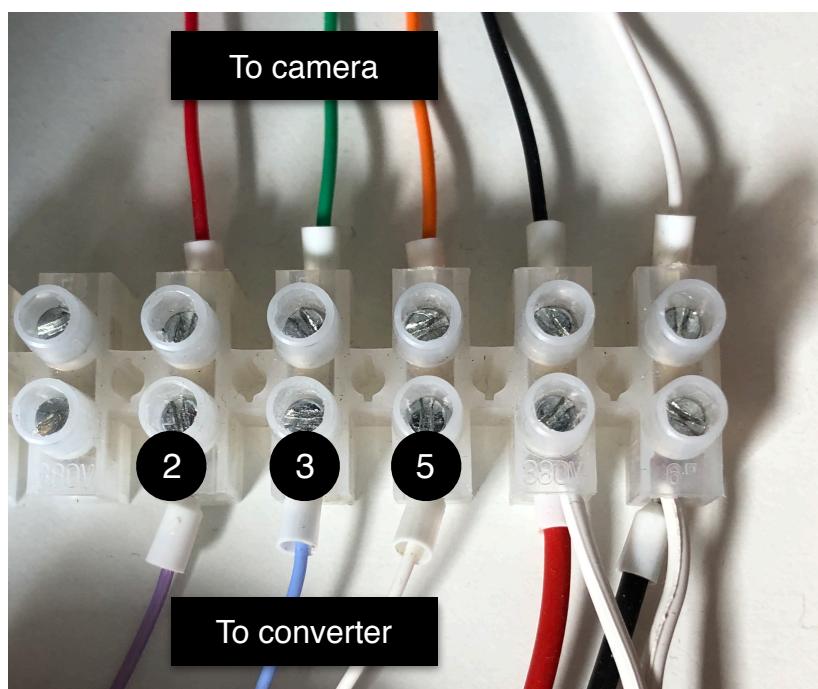
**Network Settings:**

- 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

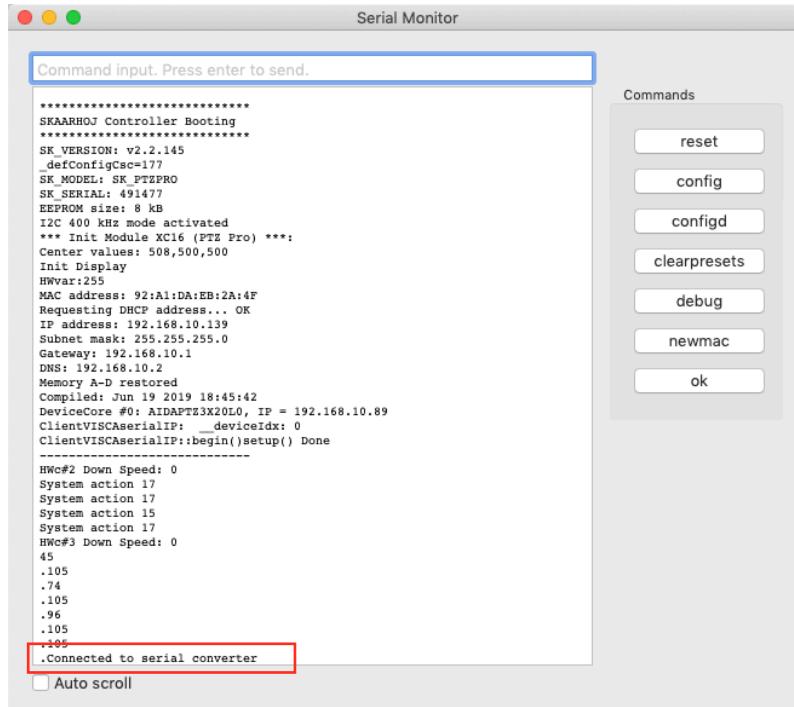




## Confirm Connection

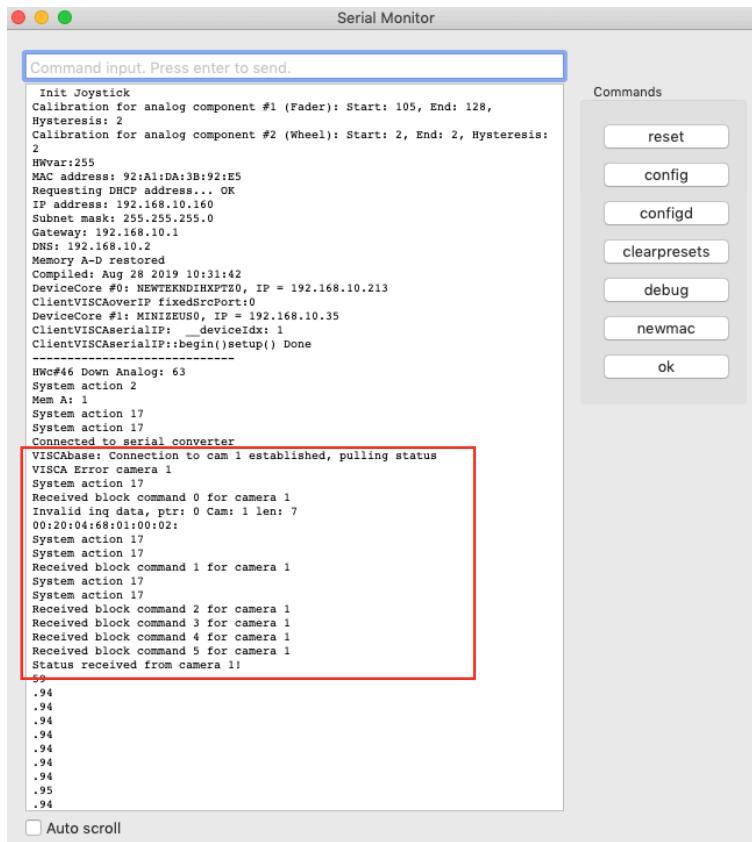
The Serial Monitor from the Firmware Application can be used to monitor connection status.

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: 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: Preset
- Mini Zeus: System
- Mini Zeus: Speed Limit
- Mini Zeus: Auto Shift level
- Mini Zeus: Camera Select