

Device: AIDA PTZ3-X20L



Introduction

The PTZ3-X20L from AIDA can be controlled from SKAARHOJ panels using a Ethernet-Serial converter.

Ethernet to Serial connection

To communicate via serial (RS-232) to the AIDA 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.

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Below you will find screenshots of how to configure the XS1200 converter (found of the web interface of the XS1200). Notice the IP address of the XS1200 (Static IP Address) must match the IP settings of the AIDA PTZ3-X20L Device Core.

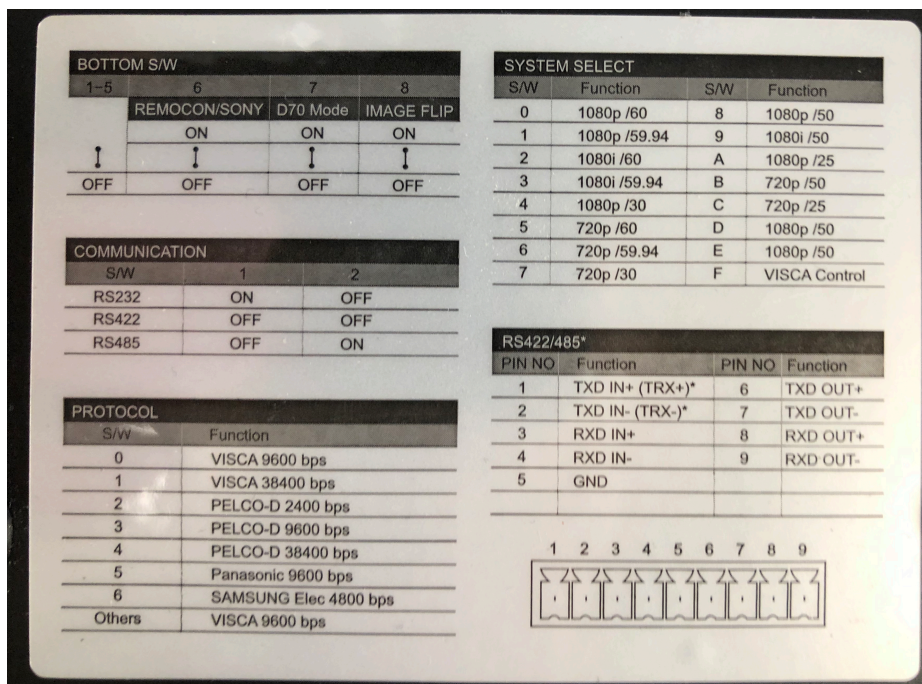
In the settings below the Baud Rate is set to 9600 and Serial Type to RS232. The camera must match these settings.

The screenshot shows the web interface for a SERIAL TO ETHERNET CONVERTER (PART: XS1200) with the website WWW.USCONVERTERS.COM. The interface has a blue header and a navigation bar with 'Basic', 'Advance', and 'Security' tabs. A 'Logout' link is in the top right. The 'Basic' tab is active, showing 'Serial Settings' and 'Network Settings' sections. The 'Serial Settings' section includes fields for Device Name (DSM1), Data Baud Rate (9600), Data Bits (8), Data Parity (None), Stop Bits (1), Flow Control (None), and Serial Type (RS232). The 'Network Settings' section includes fields for DHCP Client (Disable), Static IP Address (192.168.10.89), Static Subnet Mask (255.255.255.0), Static Default Gateway (192.168.10.1), Static DNS Server (168.95.1.1), Connection Type (TCP), Transmit Timer (100), Server/Client Mode (Server), Server Listening Port (5000), Client Destination Host Name/IP (192.168.2.2), and Client Destination Port (5000). There are four buttons at the bottom: Apply, Cancel, Reboot, and Restore default.

Section	Field	Value
Serial Settings	Device Name	DSM1
	Data Baud Rate	9600
	Data Bits	8
	Data Parity	None
	Stop Bits	1
	Flow Control	None
	Serial Type	RS232
Network Settings	DHCP Client	Disable
	Static IP Address	192.168.10.89
	Static Subnet Mask	255.255.255.0
	Static Default Gateway	192.168.10.1
	Static DNS Server	168.95.1.1
	Connection Type	TCP
	Transmit Timer	100
	Server/Client Mode	Server
	Server Listening Port	5000
	Client Destination Host Name/IP	192.168.2.2

Settings on Camera

The settings on the Camera must match the settings from the XS1200 converter.



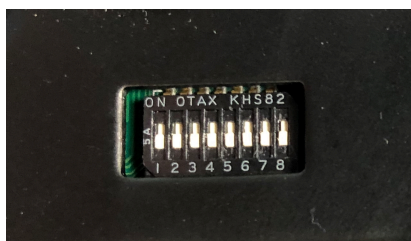
Notice

Address ID: 1

Protocol: 0 (for VISCA 9600 bps)

System Select: 9 (for 1080i/50 - can be something else)

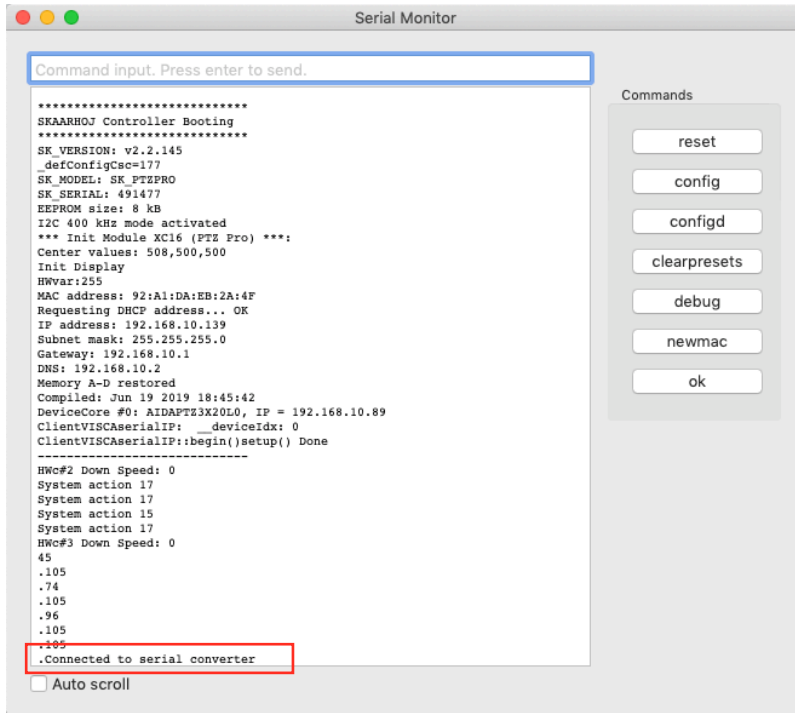
Communication: Dip 1 to ON for RS232



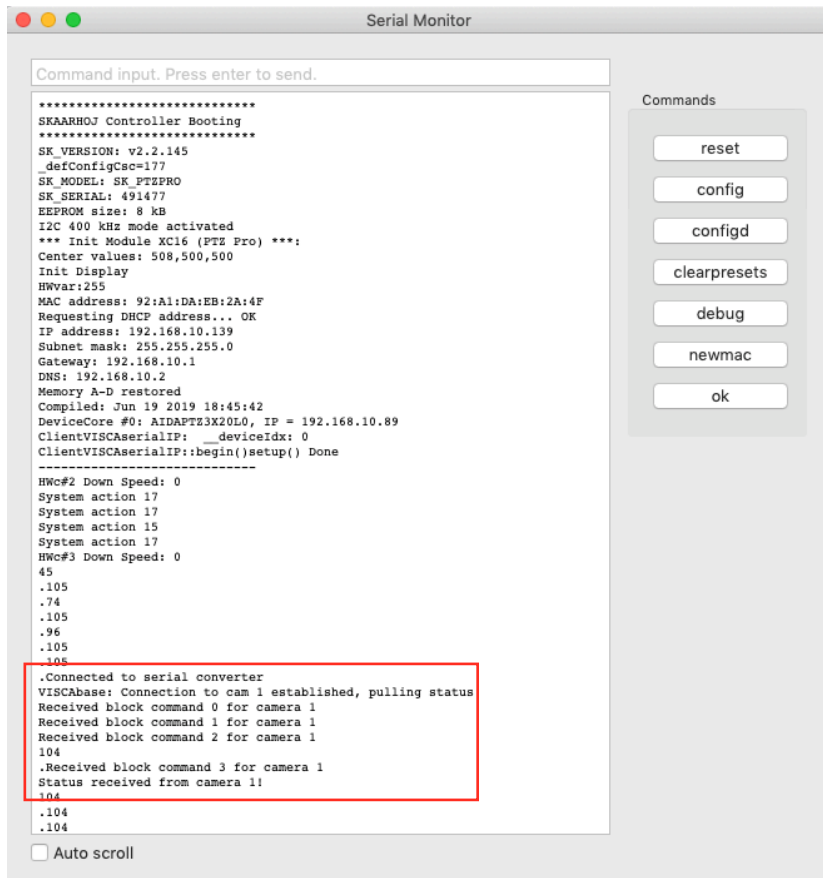
Confirm Connection

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 *a/so* been established.



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



Actions

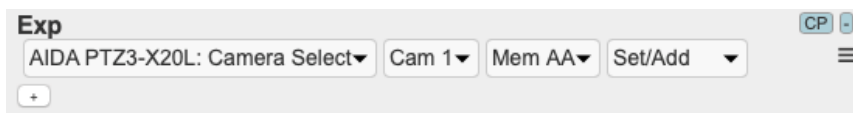
An excerpt of the actions in the AIDA PTZ3-X20L Device Core

- AIDA PTZ3-X20L: Pan
- AIDA PTZ3-X20L: Tilt
- AIDA PTZ3-X20L: Zoom
- AIDA PTZ3-X20L: Focus
- AIDA PTZ3-X20L: Focus One Push
- AIDA PTZ3-X20L: PT Limit (Planned)
- AIDA PTZ3-X20L: Focus Settings
- AIDA PTZ3-X20L: Zoom Settings
- ✓ AIDA PTZ3-X20L: Exposure Mode
- AIDA PTZ3-X20L: Iris
- AIDA PTZ3-X20L: Shutter
- AIDA PTZ3-X20L: Gain
- AIDA PTZ3-X20L: Ex-Comp. Enable
- AIDA PTZ3-X20L: Ex-Comp. Level
- AIDA PTZ3-X20L: AE Comp
- AIDA PTZ3-X20L: Gain Limit
- AIDA PTZ3-X20L: Bright
- AIDA PTZ3-X20L: White Balance
- AIDA PTZ3-X20L: WB One Push
- AIDA PTZ3-X20L: WB R/B Gain
- AIDA PTZ3-X20L: Tone adjustments
- AIDA PTZ3-X20L: Chroma Suppress
- AIDA PTZ3-X20L: Aperture Gain
- AIDA PTZ3-X20L: Noise Reduction
- AIDA PTZ3-X20L: Gamma
- AIDA PTZ3-X20L: Picture Effect
- AIDA PTZ3-X20L: Preset
- AIDA PTZ3-X20L: Preset Drive
- AIDA PTZ3-X20L: System
- AIDA PTZ3-X20L: Speed Limit
- AIDA PTZ3-X20L: Auto Shift level
- AIDA PTZ3-X20L: Camera Select

Controlling Multiple Cameras

Locally we have just tested control of 1 camera connected to the XS1200 but it should be possible to daisy chain multiple cameras.

Camera Select Action



The Camera Select Action can be assigned on a controller to visually see if connection have been established. When assigned to a button it will light up.



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When pressed (and the controller is configured) the other AIDA actions will present themselves.



Picture

