Device: Datavideo PTC-150

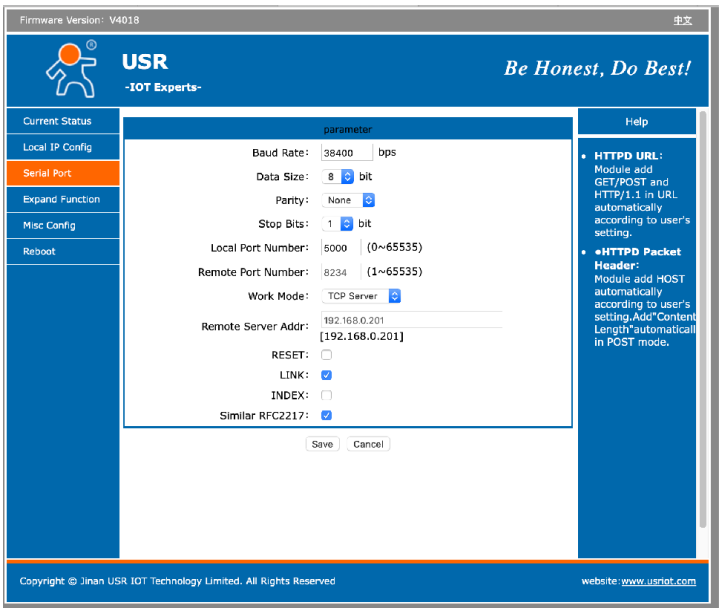
Introduction

The PTC-150 from Datavideo can be controlled from SKAARHOJ panels using a Ethernet-Serial converter. The PTC-15 Device Core is still in alpha with just a limited feature set available to control.

Ethernet to Serial connection

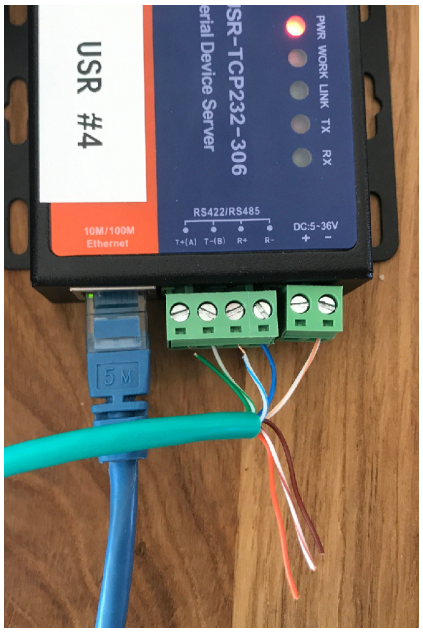
To communicate via serial (RS-485) to the camera you need an Ethernet-Serial converter. We suggest you get a TCP232-306 from USR- https://www.usriot.com/products/serial-to-ethernet-server.html

Below you will find screenshots of how to configure the USR-TCP232-306 converter (found on the web interface of the TCP232-306). Notice the IP address of the TCP232-306 (Static IP Address) must match the IP settings of the Datavideo PTC-150 Device Core.



The specific Baud Rate used is set in the Camera's OSD.

Wiring to the Camera/Converter



Serial Converter	RJ45
GND	White/Orange
Rx-	Blue
Rx+	White/Blue
Tx-	White/Green
TX+	Green

Dip Switches

Function	Switch	On/Off
Visca-ID 1	1	On
Visca-ID 2	2	Off
Visca-ID 3	3	Off
Remote Control Protocol	4	Off for RS-422
Video Resolution	5-7	See Camera manual for desired resolution
Video Mode Selection Method	8	Off

See the Datavideo PTC-150 Instruction Manual for detailed Dip Switch configuration.

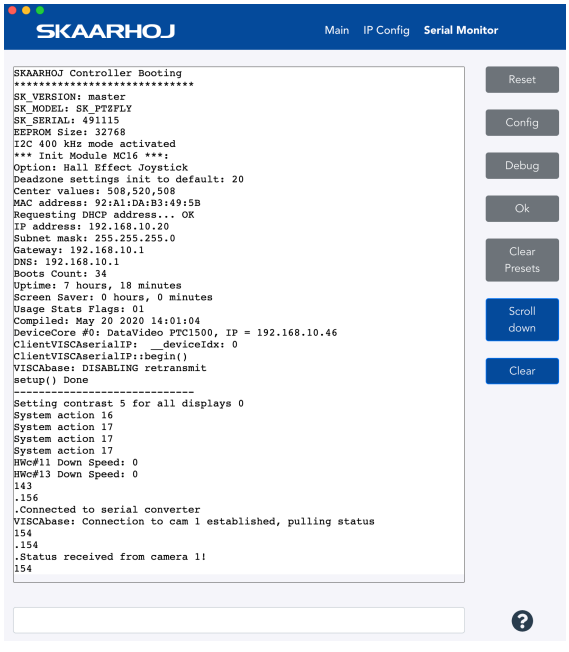
Confirm Connection

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

Connected to serial converter
VISCAbase: Connection to cam 1 establish, pulling status

Status received from camera 1!

connection to the Serial Converter and the camera have been established.



Actions

An excerpt of the actions in the Device Core

DataVideo PTC-150: Pan
DataVideo PTC-150: Tilt
DataVideo PTC-150: Pan/Tilt
DataVideo PTC-150: Zoom
DataVideo PTC-150: Zoom (Binary)
DataVideo PTC-150: Focus
DataVideo PTC-150: Focus (Binary)
DataVideo PTC-150: Focus One Push
DataVideo PTC-150: Focus Settings
DataVideo PTC-150: Exposure Mode
DataVideo PTC-150: Iris
DataVideo PTC-150: White Balance
DataVideo PTC-150: WB One Push
DataVideo PTC-150: WB R/B Gain
DataVideo PTC-150: Preset
DataVideo PTC-150: System
DataVideo PTC-150: PTZ Cruise Control
DataVideo PTC-150: PTZ Trace
DataVideo PTC-150: Speed Limit
DataVideo PTC-150: Camera Select