

Device: Datavideo PTR-10



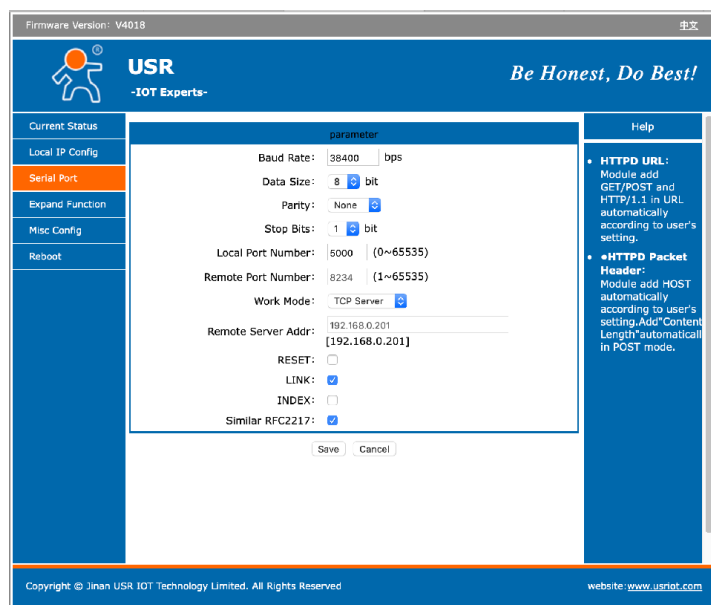
Introduction

The PTR-10 from Datavideo can be controlled from SKAARHOJ panels using a Ethernet-Serial converter. The PTR-10 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 screenshot shows the web interface of the USR TCP232-306 converter. The interface is in Chinese and English. The top bar includes the USR logo, the tagline "Be Honest, Do Best!", and the text "Firmware Version: V4018". The left sidebar contains navigation links: "Current Status", "Local IP Config", "Serial Port" (highlighted), "Expand Function", "Misc Config", and "Reboot". The main content area is titled "parameter" and contains the following settings:

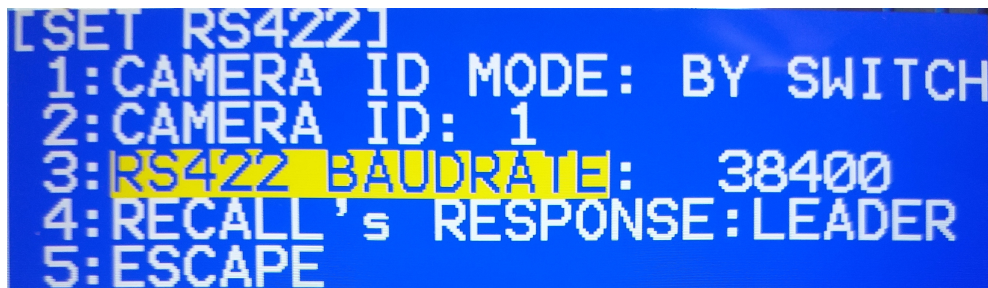
- Baud Rate: 38400 bps
- Data Size: 8 bit
- Parity: None
- Stop Bits: 1 bit
- Local Port Number: 5000 (0~65535)
- Remote Port Number: 8234 (1~65535)
- Work Mode: TCP Server
- Remote Server Addr: 192.168.0.201
- Similar RFC2217: ☒

At the bottom of the main content area are "Save" and "Cancel" buttons. The right sidebar contains a "Help" section with the following text:

- HTTP URL: Module add GET/POST and HTTP/1.1 in URL automatically according to user's setting.
- HTTP Packet Header: Module add HOST automatically according to user's setting. Add "Content Length" automatically in POST mode.

The footer of the interface includes the copyright notice "Copyright © Jinan USR IOT Technology Limited. All Rights Reserved" and the website "www.usriot.com".

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



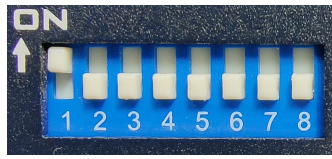
Wiring to the Camera/Converter



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

Dip Switches

On PT Head dip switch settings.



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 PTR-10 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.



Important OSD Settings

Tally

For tally control, System/Tally Light needs to be set to RED/GREEN.

```
[SYSTEM 1
1:TALLY LIGHT: RED/GREEN
2:MODEL No.: 0010
3:DISPLAY
4:RESET ALL
5:UPDATE SOFTWARE
6:ESCAPE
```

LanC

For LanC control, Remote-Out Mode needs to be set to LANC.

LanC control is subject to camera compatibility and we can not guarantee Zoom, Focus, Iris, Shutter, or Gain will function with any specific model of camera.

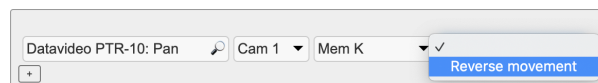
```
[SET REMOTE-OUT 1
1:REMOTE-OUT MODE:LANC
2:REMOTE-OUT BAUDRATE : 115200
3:REMOTE-OUT ID : 1
4:BX ZOOM OFFSET : 0
5:ESCAPE
```

PT Reverse

PT Reverse needs to be set OFF for proper control with the SKAARHOJ controller.

```
[REMOTE CONTROL 1
1:PTZ PTZ REVERSE: OFF
2:REMOTE SOURCE : RS422, SW
3:SET RS422
4:SET DVIP
5:SET IR
6:SET REMOTE-OUT
7:PTZ INFO. OUTPUT : OFF
8:ESCAPE
```

You are able to reverse Pan and Tilt from the device core action.



Actions

An excerpt of the actions in the Device Core

Datavideo PTR-10: Pan
Datavideo PTR-10: Tilt
Datavideo PTR-10: Pan/Tilt
Datavideo PTR-10: Zoom
Datavideo PTR-10: Zoom (Binary)
Datavideo PTR-10: Focus
Datavideo PTR-10: Focus (Binary)
Datavideo PTR-10: Iris
Datavideo PTR-10: Shutter
Datavideo PTR-10: Gain
Datavideo PTR-10: Preset
Datavideo PTR-10: Tally
Datavideo PTR-10: PTZ Cruise Control
Datavideo PTR-10: PTZ Trace
Datavideo PTR-10: Speed Limit
Datavideo PTR-10: Camera Select