

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.

Firmware Version: V4018

USR
-IOT Experts-

Be Honest, Do Best!

parameter

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 [192.168.0.201]
RESET:
LINK:
INDEX:
Similar RFC2217:

Help

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

Save Cancel

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website: www.usriot.com

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

```
[SET RS422]
1:CAMERA ID MODE: BY SWITCH
2:CAMERA ID: 1
3:RS422 BAUDRATE: 38400
4:RECALL's RESPONSE:LEADER
5:ESCAPE
```

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.

<img alt="Screenshot of the SKAARHOJ Firmware Application Serial Monitor window. The window shows a log of booting information, network configuration, and a message from the camera. The log includes: SKAARHOJ Controller Booting, SK_VERS=1.0.0, SK_MODEL= SK_PTC150Y, SK_SERIAL= 491115, EEPROM Size= 32768, I2C 400 kHz mode activated, *** Init Module MC16 ***, Optimal Hand Effect Joystick, Deadzone setting 10, Center default: 20, Center values: 509,520,508, MAC address: 92:A1:D4:B3:49:5B, Requesting DHCP address... OK, IP address: 192.168.10.20, Subnet mask: 255.255.255.0, Gateway: 192.168.10.1, DNS: 192.168.10.1, Boots Count: 34, Uptime: 7 hours, 18 minutes, Screen Saver 0 hours, 0 minutes, Usage Stats Flag: 01, Camera Model: PTC1500, 2018-01-04, DeviceCore #0: Datavideo PTC1500, IP = 192.168.10.46, ClientVISCAserialIP::begin(), ClientVISCAserialIP::begin(), VISCAbase: DISABLING retransmit, setup() Done, Setting contrast 5 for all displays 0, System action 16, System action 17, System action 17, System action 17, HWC#11 Down Speed: 0, HWC#13 Down Speed: 0, 143, .156, .Connected to serial converter, VISCAbase: Connection to cam 1 established, pulling status 154, .154, .Status received from camera 1!, 154</pre>

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