

Device: Datavideo PTC-150



Introduction

The PTC-150 from Datavideo can be controlled from SKAARHOJ panels using a Ethernet-Serial converter.

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!

Current Status

Local IP Config

Serial Port

Expand Function

Misc Config

Reboot

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:

Save Cancel

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.

Copyright © Jinan USR IOT Technology Limited. All Rights Reserved

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.

```

SKAARHOJ Controller Booting
*****
SK REGION: SK
SK MODEL: SK_POTIFY
SK SERIAL: 491115
EEPROM Size: 32768
I2C 400 kHz mode activated
*** Init Module MC16 ***
Opt: Hall Effect Joystick
Default value for contrast to default: 20
Center values: 509,520,509
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 Flags: 01
ComPort: Main Port 2001 14:01:04
DeviceCore: 0: Datavideo PTC1500, IP = 192.168.10.46
ClientVISCSerialIP: _deviceIdx: 0
ClientVISCSerialIP: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

```

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
```