

Device: Marshall CV350-10XB



Introduction

The Marshall CV350-10XB can be controlled through RS-485 by using a Ethernet to Serial connection.

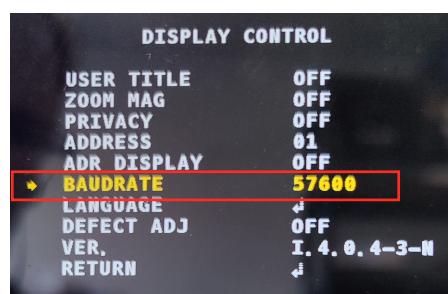
Ethernet to Serial connection

To communicate via serial (RS-485) to the Marshall CV350-10CX you need an Ethernet-Serial converter. We suggest you get a USR-TCP232-306 from USR IOT -<https://www.pusr.com/products/ethernet-to-serial-converters-usr-tcp232-306.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 Marshall CV350-10CX Device Core.

A screenshot of the USR-TCP232-306 web interface. The left sidebar shows 'Serial Port' is selected. The main panel displays serial port parameters: Baud Rate: 57600 bps, Data Size: 8 bit, Parity: None, Stop Bits: 1 bit, Local Port Number: 5000 (0~65535), Remote Port Number: 8000 (1~65535), Work Mode: TCP Server, and Remote Server Addr: 192.168.0.48 [192.168.0.48]. It also includes checkboxes for RESET, LINK, INDEX, and Similar RFC2217. At the bottom are 'Save' and 'Cancel' buttons.

Please note the Baud Rate set in the serial converter must match the Baud Rate set in the camera



Wiring to the Camera/Converter



Confirm Connection

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

SKAARHOJ

Main IP Config **Serial Monitor**

```
*****
SKAARHOJ Controller Board
*****
SK VERSION: branch_vivica_marshall_cv350_new_dc
SK MODEL: SK_PZ2PRO
SK SERIAL: 491941
EEPROM Size: 32768
I2C Bus 1 successfully activated
*** Init Module XC16 (PTZ Pro) ***
Deadzone settings init (X,Y,Z) = 10,10,10
Center values: 504,520,504
Init display
Presets loaded
MAC address: 92:1:1:0A:61:5A:C7
Requesting DHCP address... OK
IP address: 192.168.10.6
Subnet mask: 255.255.255.0
Gateway: 192.168.10.1
DNS server: 192.168.10.1
Boots Count: 327
Uptime: 186 hours, 37 minutes
Screen Saver: 28 hours, 3 minutes
Usage Stats: Flags: 01
Core Version: 2020-09-10 10:47:40
DeviceCore #0: MARSHALLPOV0, IP = 192.168.10.48
ClientVISCAserialIP::deviceidx: 0
ClientVISCAserialIP::begin()
VISCAdbase: DISABLING retransmit
VISCAdbase: ENABLING displayErrors
setup() Done
-----
HWc#2 Down Speed: 0
HWc#3 Down Speed: 0
y
106
.Connected to serial converter
VISCAdbase: Connection to cam 1 established, pulling status
Received block command 0 for camera 1
Received block command 1 for camera 1
105
105
105
105
105
105
Status received from camera 1!
```

Reset
Config
Debug
Ok
Clear Presets
Scroll down
Clear

?

Connection to the serial converter has been established when the Serial Monitor reports:

.Connected to serial converter

Connection to the camera has been established when the Serial Monitor reports:

VISCAvase: Connection to cam 1 established, pulling status

Received block command 0 for camera 1

Received block command 1 for camera 1

Received blcok command 2 for camera 1

Status received from camera 1!

Actions

An excerpt of the actions in the Device Core

Coming soon.