Device: eMotimo ST4


Introduction

The motion control camera robot system eMotimo ST4 be controlled from SKAARHOJ panels using a Ethernet-Serial converter. The Device Core is still in Alpha

Important Settings

The eMotimo has different levels of firmware for more basic or advanced control. Our integration was done with version: ST4_RC007_99. Some settings might not be accessible with every version of the eMotimo firmware. If you are unable to access I/O Port: VC, check that you have the advanced version of the firmware.

Ethernet to Serial connection

To communicate via serial (RS-232) to the eMotimo ST4 you need an Ethernet-Serial converter. Please reach out to eMotimo directly regarding purchasing this converter.

Settings

Serial Port –> Baud Rate 115200

Data Size - 8 bit
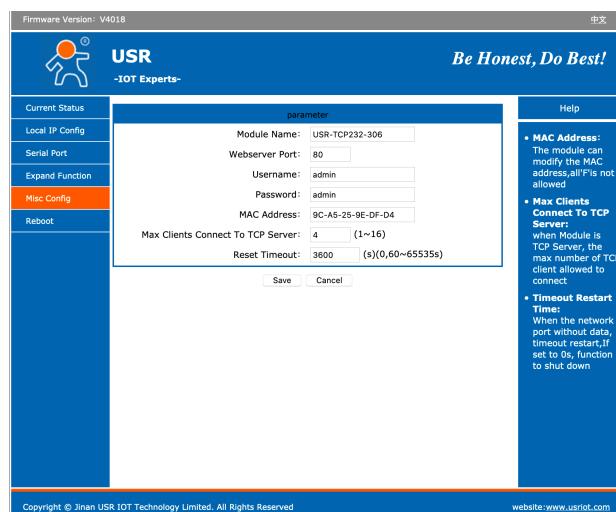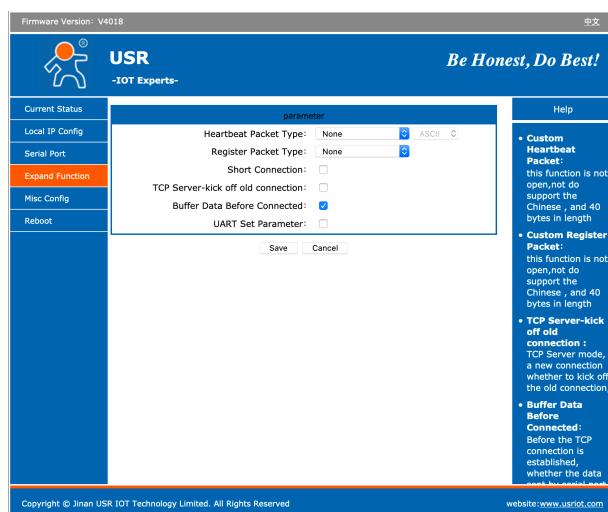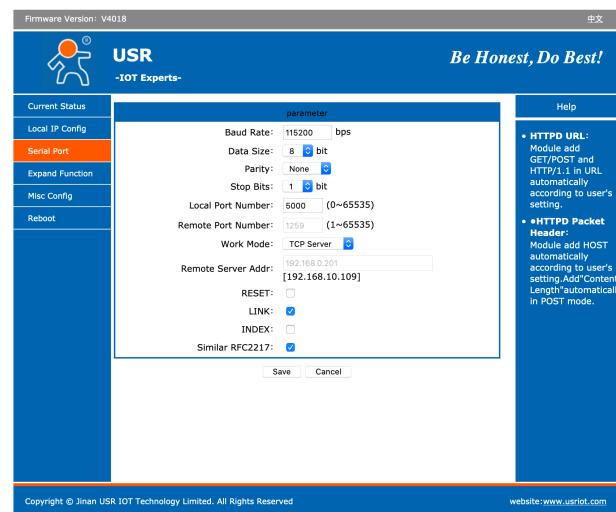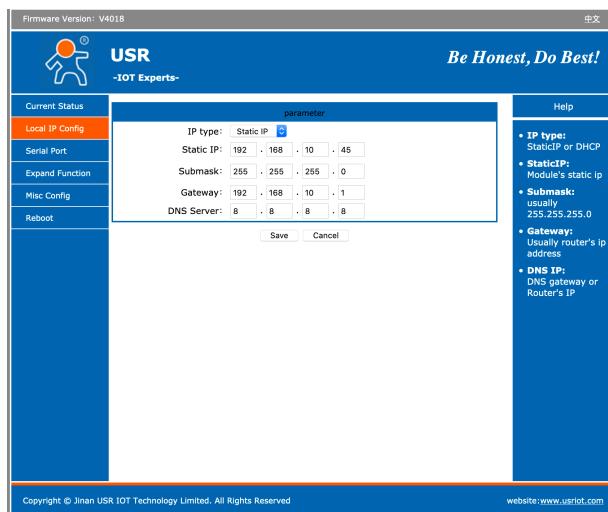
Parity – None

Stop Bits 1 bit

Local Port - 5000
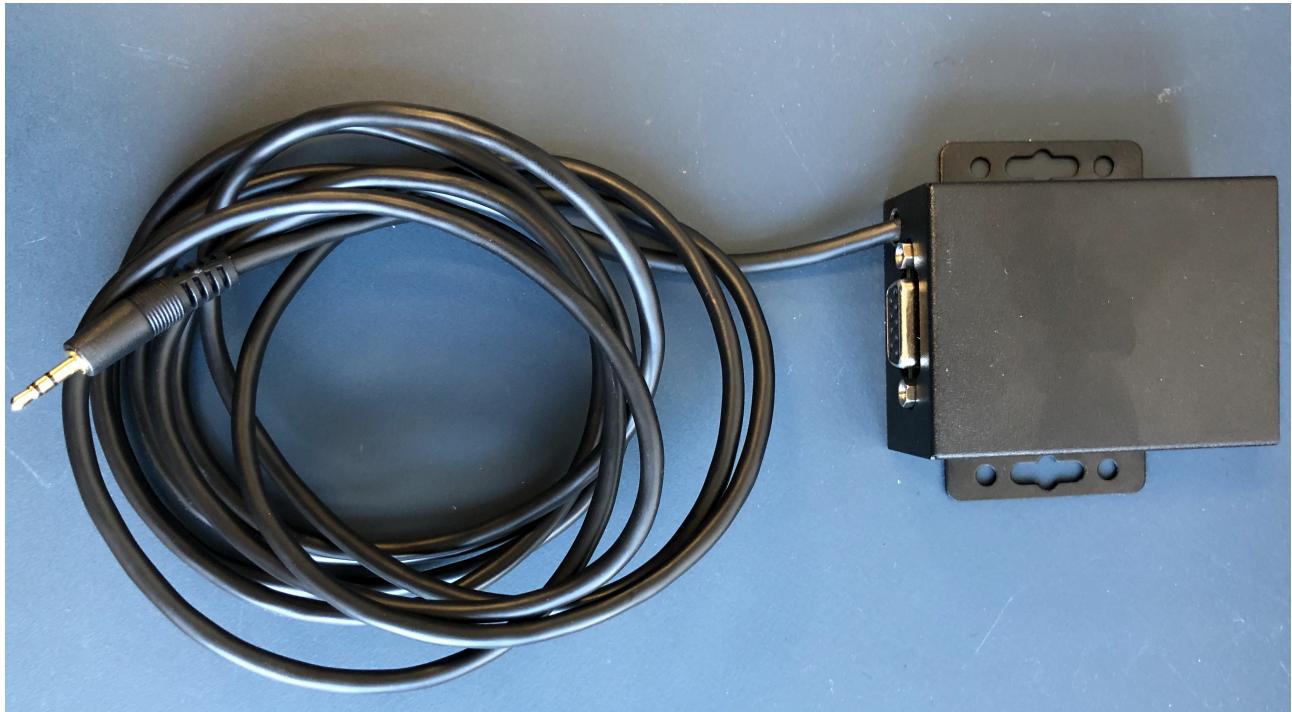
TCP Server

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 eMotimo Device Core.
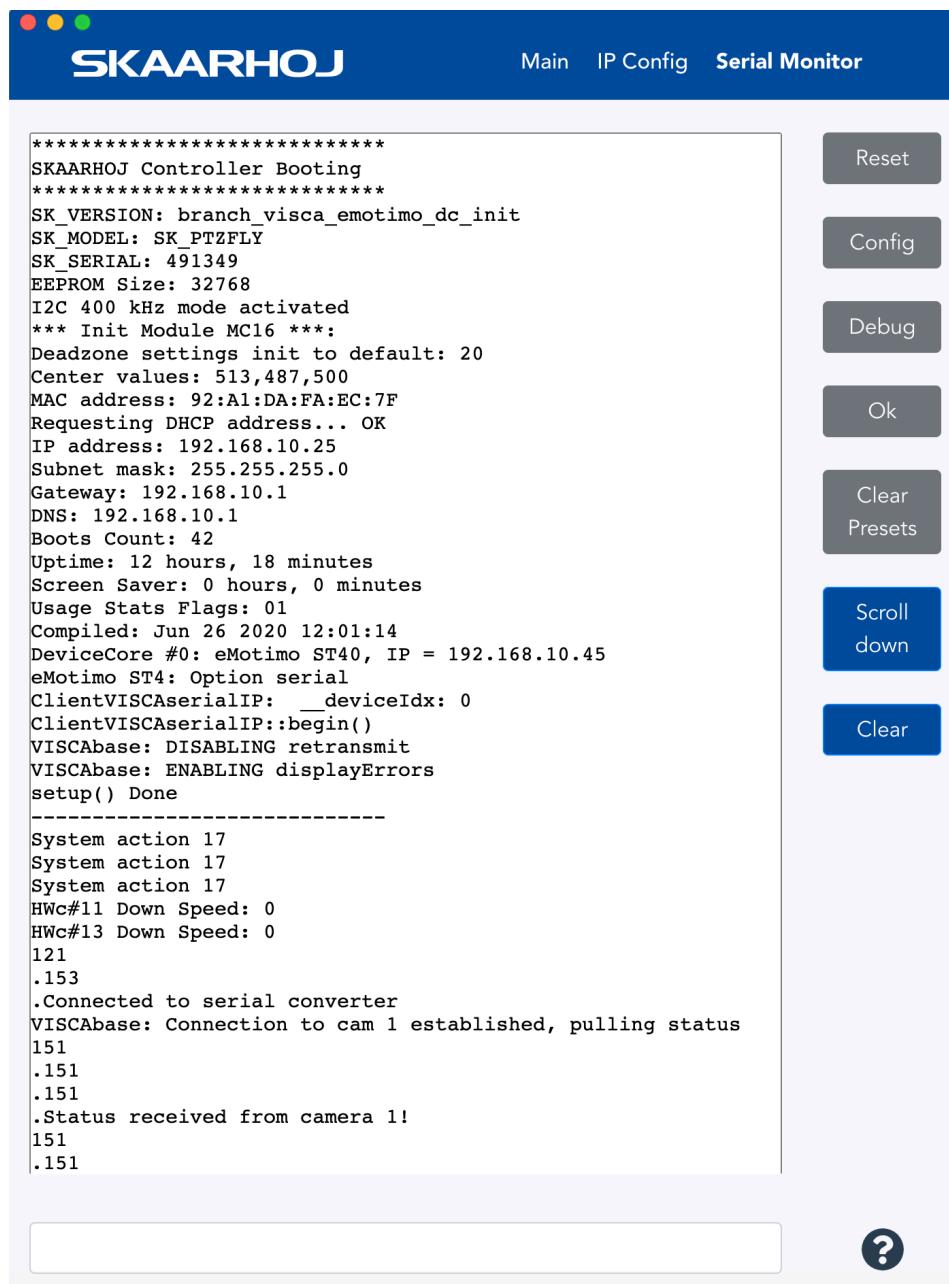
Wiring to the Control Box

The wiring between the Serial Converter and the prototype control box from eMotimo looks like below.
Please reach out to eMotimo directly for acquiring a communication box.

Confirm Connection

The Serial Monitor from the Firmware Application can be used to monitor connection status. The message "Status received from camera 1!" Confirms connections.

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Actions
An excerpt of the actions in the Device Core

Please notice all native Trace actions are not implemented yet. Live mode is not implemented either.

eMotimo ST4: Pan
eMotimo ST4: Tilt
eMotimo ST4: Pan/Tilt
eMotimo ST4: M3 Drive
eMotimo ST4: M4 Drive
eMotimo ST4: M3/M4
eMotimo ST4: Memory Ramp
✓ eMotimo ST4: Memory Time-to-Target
eMotimo ST4: Memory Binary Ramp
eMotimo ST4: Memory Binary Time-to-Target
eMotimo ST4: Trace Position Record
eMotimo ST4: Trace Position Prepare
eMotimo ST4: Trace Position Play
eMotimo ST4: Trace Position Delete
eMotimo ST4: Live Mode
eMotimo ST4: Axis Limit
eMotimo ST4: Preset
eMotimo ST4: PTZ Cruise Control
eMotimo ST4: PTZ Trace
eMotimo ST4: Speed Limit
eMotimo ST4: Camera Select