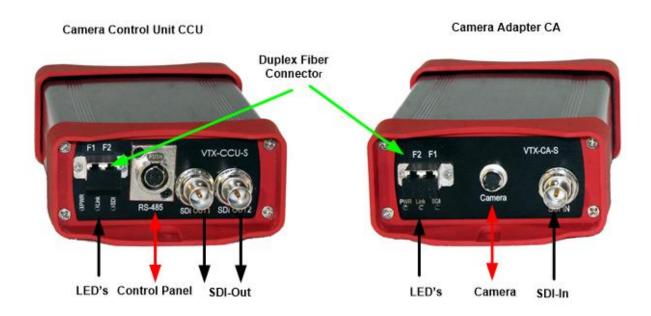
VTX-Atom CCU-S - Operating Manual

1- Introduction

The VTX-Atom CCU-S (Smart) from Vietex Media is the entry-level optical CCU for the Atom One cameras from Dream Chip Technologies (www.Atom-One.de). The target of this compact, bidirectional transceiver pair are Atome one in autonomous operation without genlock. It transports all formats of SDI-Signals from SD to HD, 3G, 6G and 12G as well as RS-485 control over 20km.

Because of the lightweight and compact design, all peripheries must be connected as external devices by special cables.

2- Connectivity:



- Duplex Fiber connector: Single mode LC, max 20km
- LED's: Power, Fiber link, SDI
- RS-485 = Control Panel: ITT-Mini XLR 3pin: 1 = Data A. 2= Data B, 3 = GND
- Camera: Hirose HR10A-7R-6S, 1= Data A, 2= Data B, 5=GND, 6=12V
- SDI-In: BNC-75 Ohm, auto detect SD/ HD/ 3G/6G/12G
- SDI-out: BNC-75 Ohm, SD/HD/3G/6G/12G

3- Package content: Set incl.

- CCU and CA in compact, shock and water protected (IP62) metal box
- 2 x Power supply 12V/2A
- Manual + Driver on SD-Chip

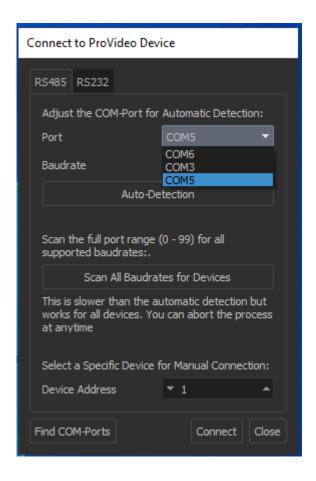


4- Initial Setting

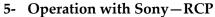


- Connect the CCU to the CA by fiber duplex single mode cable
- Atom one SDI Output to CA SDI-in by ATB cable
- Connect the Atom one camera to the CA by ATC-cable
- Feed 12V-from AC/DC adapters to both units
- All- LED's light on
- Install the USB-FTDI-driver to the laptop/PC
- Connect the AT-USB Adapter from PC to RS-485 receptacle
- Start Provideo Software from PC. Normaly: Autodection find the camera.
- If "Auto detection" failed, go to "Port", select the right port (5 instead 3 i.e). Set "Baudrate" to 115200". Set ID = 1 or 2, according to the camera. Go to "Connect"

2 VTX-Atom CCU-S Manual



- After Provideo GUI opened, set the resolution HD,3G/6G ..12G
- Disable "Auto exposure configuration" and "Auto White balance" for using 3rd RCP: Sony, Skaarhoj, Cyanview ect. Save the setting to the internal memory.





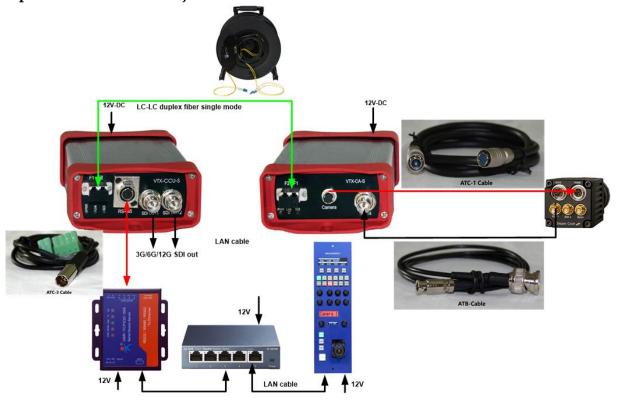
- After having disabled the "Auto exposure" and "White Balance" disconnect the AT-USB-Adapter and connect the Wico-Box to CCU by ATC-2 cable (6 pin Hirose male 3pin ITT mini XLR male)
- Connect the Wico to Sony RCP by CCA-5 Cable (8pin-Hirose male-male)
- Power the Wico box by 12V-Adapter
- Activate the Sony-RC Panel

6- Operation with Cyanview RCP



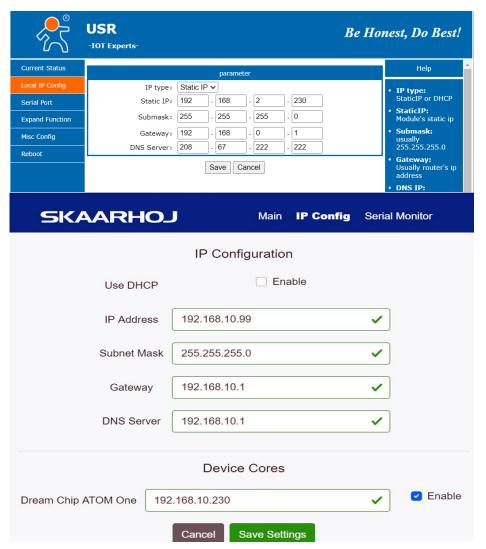
- The Cyanview RCP communicate with Atom Onré cameras via his two USB-Ports. One CIO can serve 2 cameras (port 1 and 2)
- Connect the RCP to CCU-S by the AT-USB converter
- CIO to be powered by external 12V Adapters
- Change ehternet setting of the PC/Laptop and go to RCP –menu by LAN cable: (http://10.192.18.26) and set the camera and USB-port accordingly.
- RCP and CIO will log in together after 5sec.

7- Operation with Skaarhoj – RCP

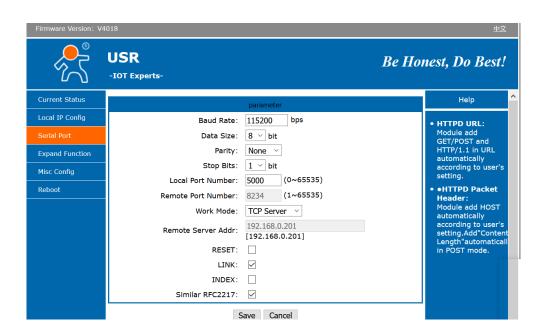


- Skaarhoj RCP needs a network switch to communicate to the Ethernet-RS485 converter. The PoE capable switches can power both: RCP and converter. If not, all 3 devices have to be powered by the own 12V-adapters
- Both RCP and converter have to be configured in to the same IP-Range.
- Log in to RCP by SkaarhoiUpdater: https://www.skaarhoj.com/support/firmware-updater/
- Log-in to USR-TCP232-306: https://:192.168.07 (name= admin, PW=admin)
- Connect the Ethernet-RS-485 converter to CCU by the ATC3 cable (Terminal block ITT mini XLR 3 pin male)

5 VTX-Atom CCU-S Manual



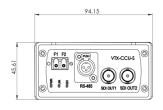
IP- address setting for both: RCP and converter

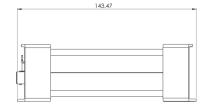


Serial Port setting of converter: TCP-Server mode with local port no.5000

6 VTX-Atom CCU-S Manual

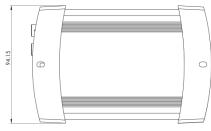
8- Mechanical size













9- Technical Specs.

VTX-Atom Camera Adapter Smart (VTX-CA-S)

I/O Connectors

Fiber Dual LC-Duplex Singel mode

SDI-In: Autodetect HD/3G/6G/12G 1 x BNC SMPTE ST-2082, ST-2081 424M, 344M, 292M, 259M, DVB-ASI,

Camera connector 1 x 6pin Hirose: RS-485 half duplex, 12 V-DC,

Power Lockable connector 12V-DC, Power depending on the PSU

General

Body Size 143 mm x 94,5 mm x 45 mm LxWxD

Weight 0,2 kg

Power Consumption Approx. 3,6W (without camera)
Operating temperature 0°C to 45°C (32°F to 112°F)

VTX-Atom Camera Control Unit Smart (VTX-CCU-S)

I/O Connectors

Fiber Dual LC-Duplex Singel mode

12G SDI-Out 2 x BNC SMPTE ST-2082, ST-2081 424M, 344M, 292M, 259M, DVB-ASI,

Remote Control Mini XLR 3pin for RS-485 half duplex

Power Lockable connector 12V-DC, Power depending on the PSU

General

Size 143 mm x 94,5 mm x 45 mm LxWxD

Weight 0,2 kg Power Consumption 3,6W

Operating temperature 0°C to 45°C (32°F to 112°F)

System Optical Budget

TX-Output power - 4 dBm
RX- Sensitivity - 18 dBm
Fiber distance 20km

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