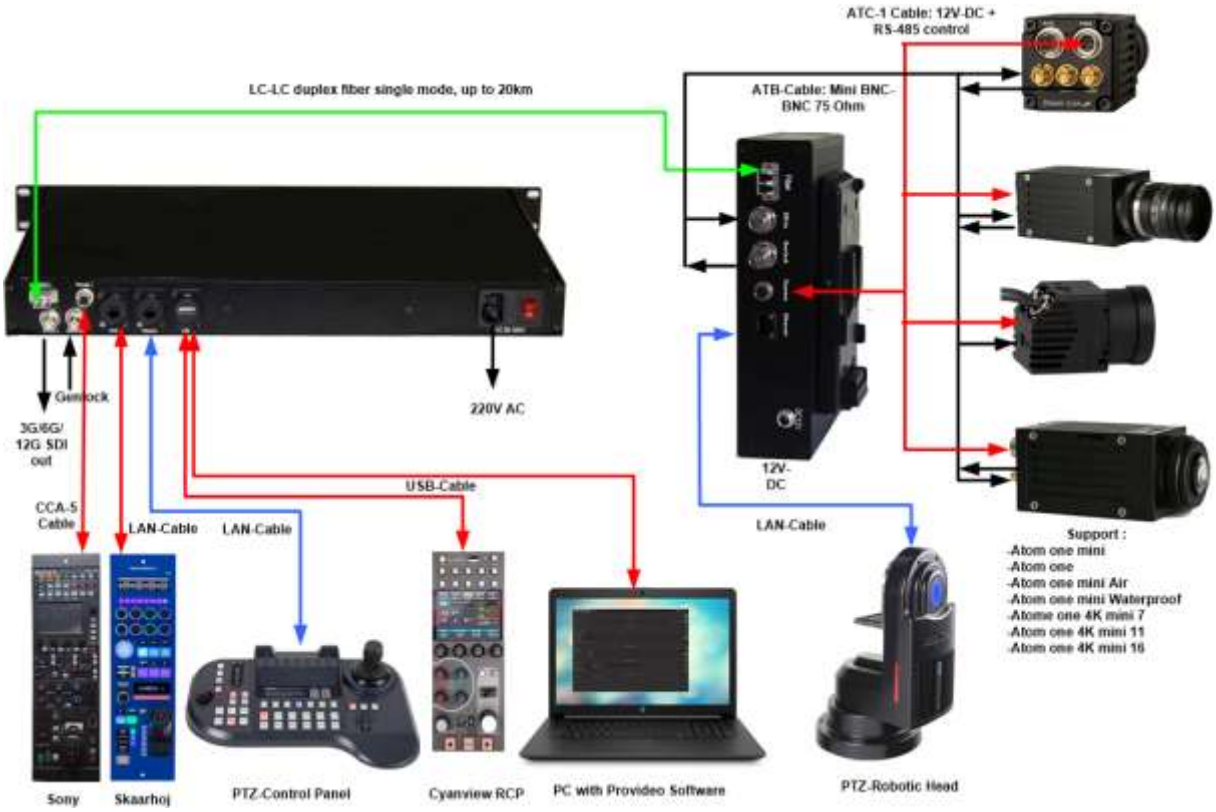
The Universal Camera Control Unit (CCU-U) for Atom Cameras

The Atom CCU-U (Universal) is the 2nd level one of Vietex's Fiber CCU for Atom cameras. It integrates two channels in one 19" 1HU base unit. The RS-485 converters for Sony, Skaahoj or Cyanview RCP's can be installed inside of the 19" chassis, so that no external cable and power supply unit are required. The additional Ethernet link offers the second control for PTZ-Heads or other equipment. Genlock with black burst or tri-level-sync is available. The camera adapter (CA) can be powered by DC-Adapter or by batteries on V-mount.

1- The Atom CCU-U system features:

- Dual channel in one 19" base unit. Chassis has blind plates for 2nd channel. Customer can order the 2nd CCU-Set without additional cost for chassis and 230V-Power supply
- Customer can use one Cyanview RCP or one Skaarhoj RCP to control two Atom one cameras via 2 separate fiber duplex cables
- 3rd party hardware: Wico Box for Sony, Cyanview CIO or Ethernet-RS485 Converter can be built inside the 19" base unit to minimize adapter cables and external power supplies.
- Support Genlock (Blackburst or Tri-Level-Sync)
- Additional Ethernet link to control the PTZ robotic or other devices
- V-Mount for battery operation



Because all 3rd components like converters, power supplies can be integrated in the 19" 1HU base unit, the wiring diagram for each RCP becomes simpler

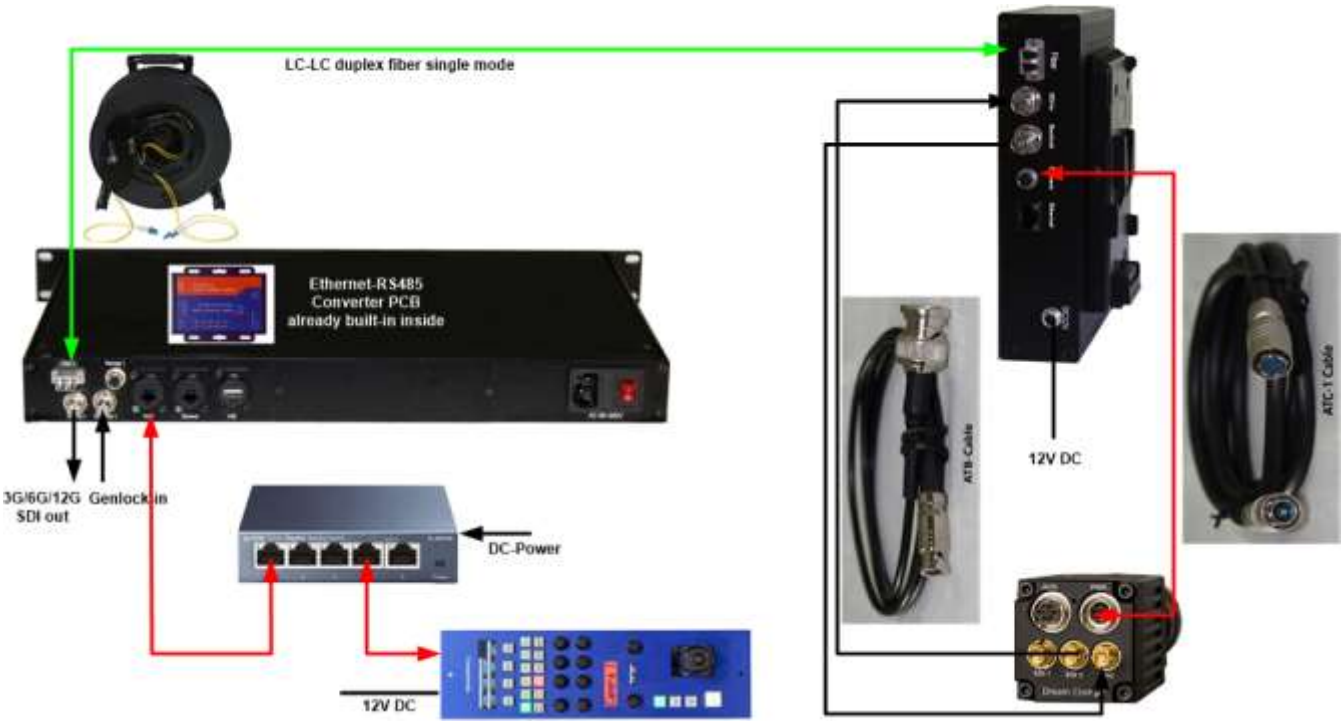
2- Upgrading to dual channel system

The CCU-U single channel with blind plate, can be upgraded to a dual channel system

After upgrading, the two CCU's operate independently by 2 duplex fibers. The system support shared RCP for multicam (2 cameras by 1 RCP)

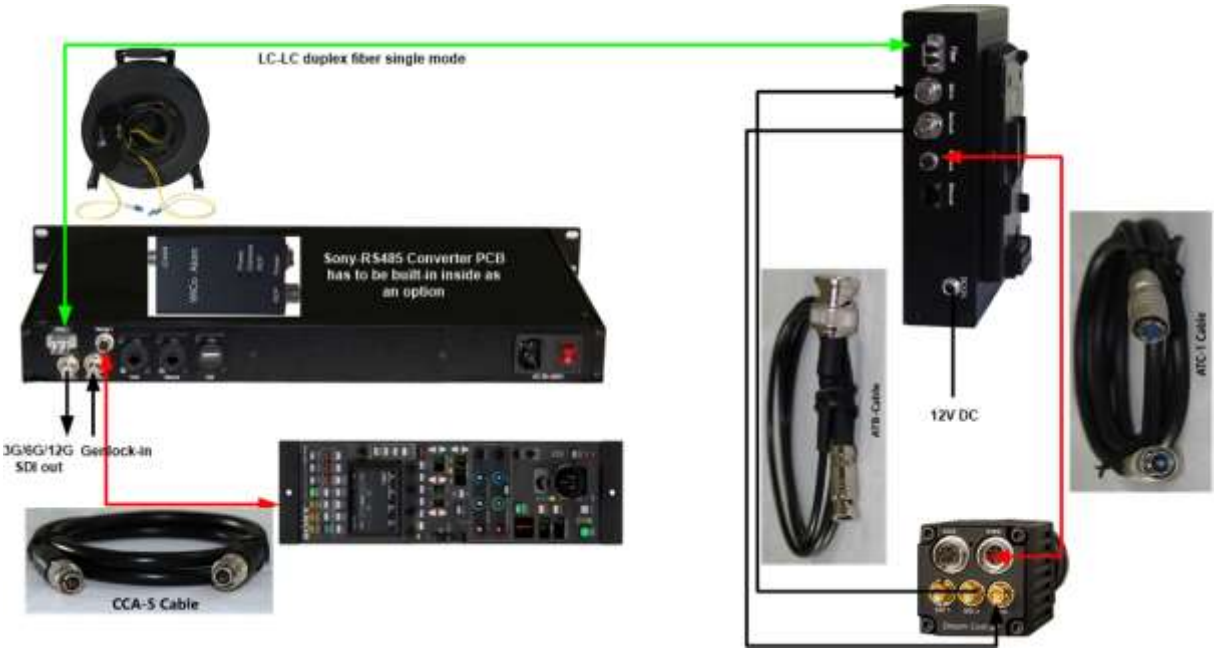
3- Working with Provideo Software from PC

4- Working with Skaarhoj RCP

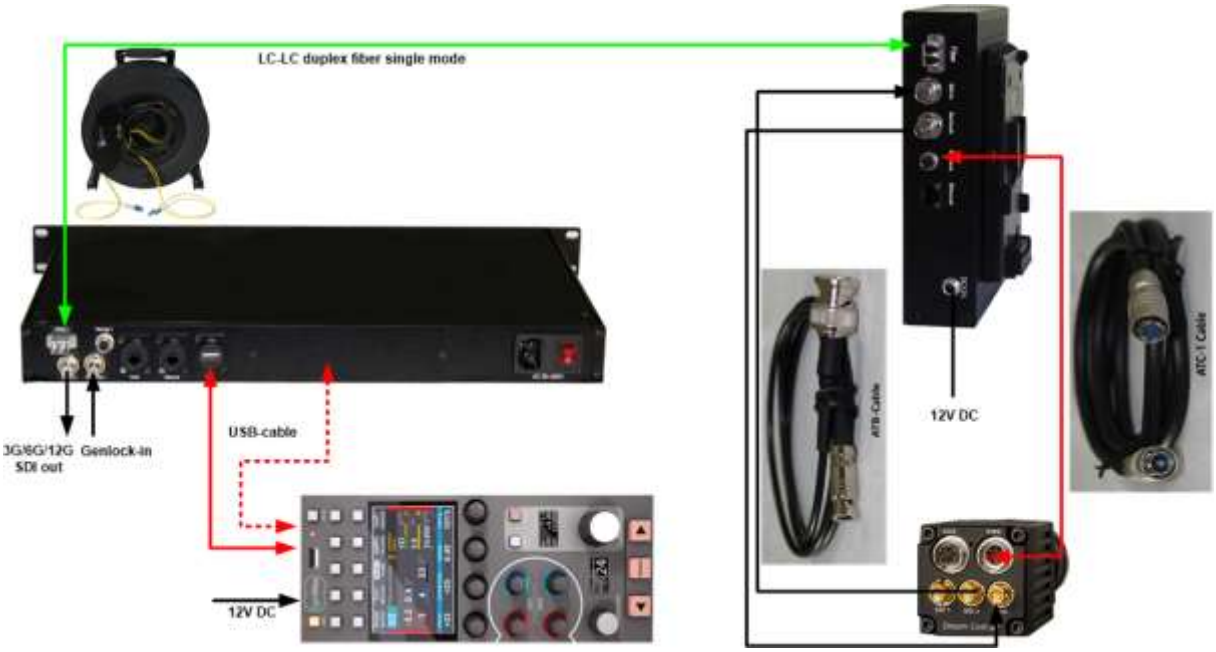


Skaarhoj-RCP V1 and V2 need a switch between RCP and the built in RS-485 converter

4- Working with Sony-RCP



5- Working with Cyanview RCP



Cyan View RCP with 2x USB Ports can be connected directly to 2 x CCU's by USB-cable to control 2 cameras with different ID (1, 2)

7-Technical Specs.

VTX-Atom Camera Adaptor Universal VTX-CA-U	
I/O Connectors	
Fiber	Dual LC-Duplex singe mode
SDI-In: Autodetect HD/3G/6G/12G	1 x BNC SMPTE ST-2082, ST-2081 424M, 344M, 292M, 259M, DVB-ASI,
Genlock Out	1 x BNC, SMPTE ST274, tri-level sync, 0.6 Vp-p, 75 Ω SD: Black burst (NTSC: 0.286 Vp-p, 75 Ω/PAL: 0.3 Vp-p, 75 Ω) or NTSC 10F-BB
Ethernet	1 x RJ-45 10/100 mbps
Camera Connector	1 x 6pin Hirose: RS-485 half duplex, 12V-DC,
Power	Lockable connector 12V-DC, Max. current depending on the PSU (1,5-5 A)
V-Mount	With D-Tap 14V-output from batterie
General	
Body Size	188 mm x 114 mm x 45 mm LxWxD
Weight	0,5 kg
Power Consumption	Approx. 4W (without camera)
Operating temperature	0°C to 45°C (32°F to 112°F)

VTX-Atom Camera Control Unit Universal (VTX-CCU-U)	
I/O Connectors	
Fiber	Dual LC-Duplex singe mode
12G SDI-Out	1 x BNC SMPTE ST-2082, ST-2081 424M, 344M, 292M, 259M, DVB-ASI,
Genlock in	1 x BNC, SMPTE ST274, tri-level sync, 0.6 Vp-p, 75 Ω,SD: Black burst (NTSC: 0.286 Vp-p, 75 Ω/PAL: 0.3 Vp-p, 75 Ω) or NTSC 10F-BB
Ethernet	1 x RJ-45 10/100 mbps, auto cross
IP-RCP	RJ-45 connector for IP-Based RCP: Skaahoj or Cyanview
Sony-RCP	8 Pin Hirose for Sony RCP
USB	USB-in for Camera control from PC
General	
Size	19" 1HU, 35mm deep
Weight	4 kg
Power Consumption	Approx. 4W without RCP, 8W with Sony RCP
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	20 km

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