

## R-type Uncompressed AV-Over-IP Multimedia System for 10G Ethernet Networks



UBEX-Pro20-HDMI-R100 2xMM-2xDUO



UBEX-Pro20-HDMI-R100 2xSM-BiDi-DUO



UBEX-Pro20-HDMI-R100 2xSM-QUAD



### Features

- 4K UHD @ 60Hz 4:4:4 Scaler
- Multistreaming technology (multiple video transmission on a single optical link)
- Video Over IP OR Point-to-Point operation modes: UBEX can also work as a conventional extender, no Ethernet switch is required for simple extension
- Versatile operation modes: dual channel 4K transmitter or receiver or transceiver mode: sending and receiving signals simultaneously
- Operation modes can be changed by rebooting and selecting the desired mode
- Field replaceable SFP+ modules: up to Singlemode (SM) 80 km or Multimode (MM) 400 Meters
- Advanced EDID Management
- 10 Gbps on one (or two) fibers OR 20 Gbps on two (or four) fibers
- Virtual Matrix mode with UBEX units connected to a central Ethernet switch serving as crosspoint,
- supervised and controlled by a UBEX MMU-X200 Matrix Management Unit
- Front panel jog dial push button and color display
- Front panel feedback LEDs
- Internal power supply and front-to-back cooling air trail
- Source Locked - Low Latency Mode: receivers can be set to source-locked mode when the video transmission latency is very low

### R-type Features

- Exchangeable cooling air filter inlay
- Reinforced SFP+ module connector, modules can be changed by removing protective top cover
- Standard M10 threads on side and top for safe and secure mounting onto truss assemblies
- Mounting ears and loops for secondary safety clamps
- Various reinforced optical and power connector type options (see below table for details)

The R-type UBEX product variant is specifically designed to withstand the daily wear and tear impacts of dynamic, Rental&Staging type of applications. The device shares the features of the standard UBEX-PRO20-HDMI-F100 model, with additional features and changes in build and dimensions.

Ubex is a fiber-optical, scaling AV-Over-IP system which allows uncompressed 4K UHD@60Hz 4:4:4 signal extension with latency-free multistreaming, designed to use in a 10G Ethernet network. UBEX operates with zero frame latency, provides seamless switching and lossless reproduction of source signals of up to 4K60Hz 4:4:4, without artifacts. Uncompressed 4K60Hz 4:4:4 data transmission, or visually lossless compression at higher data rates. It has standard, 10 Gbps SFP+ optical modules installed, which are fieldexchangeable by the user. UBEX can transfer two video signals over a single 10G link with minimal compression, which requires half the router size compared to the needs of similar, 10G IP based architectures. With a 20G configuration, UBEX can transfer 4K@60Hz 4:4:4 over two links uncompressed. The maximum reachable distance is ranging between 400 m and 80 km, depending on the type of singlemode or multimode SFP+ optical modules installed in the device. The UBEX design also favors dual-screen applications as a single UBEX device can handle 2x HDMI 2.0 video ports.

Order Number	Product Name	Features	SFP+ Module Installed	Optical Connector(s)	Ethernet Port for Control	Power Connector
91820300	UBEX-Pro20-HDMI-R100 2xMM-2xDUO	4K UHD @ 60Hz 4:4:4 uncompressed AV over IP via 20 Gbps designed for rental and professional users; dual channel 4K transmitter or receiver with scaling	2x 10G SFP+ multimode	2x Neutrik OpticalCON DUO	Neutrik EtherCON	Neutrik PowerCON True 1
91820301	UBEX-Pro20-HDMI-R100 2xMM-QUAD		2x 10G SFP+ multimode	1x Neutrik OpticalCON QUAD		
91820302	UBEX-Pro20-HDMI-R100 2xSM-2xDUO		2x 10G SFP+ singlemode	2x Neutrik OpticalCON DUO		
91820303	UBEX-Pro20-HDMI-R100 2xSM-QUAD		2x 10G SFP+ singlemode	1x Neutrik OpticalCON QUAD		
91820304	UBEX-Pro20-HDMI-R100 2xSM-BiDi-DUO		2x 10G BiDi SFP+ singlemode	1x Neutrik OpticalCON DUO		