visual engineering
LIGHTWARE

UBEX
R-TYPE

The new **UBEX-Pro20-HDMI-R100** R-type doesn't only inherit the widely renowned features of the UBEX product family in full, but also introduces a wealth of rental-specific capabilities when it comes to seamlessly install and operate a versatile AV-over-IP system for any rental and staging application.

The system allows uncompressed 4K UHD@60Hz 4:4:4 signal extension with latency-free multi-streaming over 10G Ethernet networks and features full end-to-end redundancy, making this unique device Lightware's unrivalled solution for the challenges faced by professionals across the rental and broadcasting industries.

Features

- Uncompressed HDMI 2.0 4K UHD@60Hz 4:4:4 signal extension up to 18Gbps data rate
- Latency-free multi-streaming over 10G Ethernet network allowing multiple video transmission on a single optical fiber link
- Maximum reachable distance is in the range of 400m up to 80km depending on single-mode or multimode application
- Fully non-blocking switching architecture
- HDCP 2.2 and HDCP 1.4 compliant with cross conversion capabilities
- HDR10 support
- Advanced EDID management
- Versatile operation modes: dual channel 4K transmitter or receiver or simultaneous transceiver mode
- Front panel jog dial push button, color display and feedback LEDs
- Perfect Video Sync – Source Locked mode for ultra-low latency and Free Run mode for fast switching
- Videowall processing to easily configure layouts

Rental – Robust – Redundant

Introducing R-type product variants, Lightware's unique solution offering unrivalled **rental** versatility in a more **robust** and exceptionally **redundant** edition.

Rental-specific Features

- Full end-to-end redundancy (see infobox)
- Interchangeable, reinforced SFP+ module connector with removable protective cover to easily change between single-mode and multimode modules
- Neutrik® OpticalCON, Neutrik® EtherCON and Neutrik® PowerCON connectors for enhanced durability
- HDMI ports with flange
- Standard M10 threads on side and top for safe and secure mounting on truss assemblies
- Mounting ears and loops for secondary safety clamps
- Exchangeable cooling air filter inlay

Introducing
Full End-to-End Redundancy

Source redundancy at the two HDMI inputs when the device operates in TX mode.

Sink redundancy at the two HDMI outputs during operation in RX mode.

Optical link redundancy allows that during multi-stream, where the signal is evenly distributed between the two links, if any of the two links fail, the stream seamlessly continues through the remaining active link.

Switch redundancy is an option derived from optical link redundancy; in applications where the two 10G links are both connected to two separate switches, should any of these switches fail the stream continues seamlessly through the remaining 10G link.

UBEX-Pro20-HDMI-R100		Product Name	SFP+ Module Installed	Optical Connector(s)	Ethernet Port for Control	Power Connector
		2xMM-2xDUO	2x10G SFP+ **multimode**	2x Neutrik OpticalCON **DUO**	1xNeutrik EtherCON	Neutrik PowerCON True 1
		2xSM-2xDUO	2x10G SFP+ **singlemode**	2xNeutrik OpticalCON **DUO**	1xNeutrik EtherCON	
		2xMM-QUAD	2x10G SFP+ **multimode**	1x Neutrik OpticalCON **QUAD**	2xNeutrik EtherCON	
		2xSM-QUAD	2x10G SFP+ **singlemode**	1x Neutrik OpticalCON QUAD	2xNeutrik EtherCON	
		2xSM-BiDi-DUO	2x10G BiDi SFP+ **singlemode**	1x Neutrik OpticalCON **DUO**	1xNeutrik EtherCON	

| BiDi SFP+ Module | SFP+ Module | Neutrik Powercon True1 | Neutrik OpticalCON DUO | Neutrik OpticalCON QUAD | Neutrik EtherCON |