



# WHAT'S NEWS



visual engineering  
**LIGHTWARE**



## Uncompressed AV Over IP System for 10G Networks **UBEX-PRO20-HDMI-F110**

- 10 Gbps on one (or two) fibers OR 20 Gbps on two (or four) fibers: transfer Full 4K@60Hz 4:4:4 UNCOMPRESSED over two fibers
- 4K UHD @ 60Hz 4:4:4 Scaler
- Build a virtual video matrix with a standard Ethernet switch as crosspoint and UBEX units as endpoints
- Multistreaming technology: multiple video transmission over a single link
- Video Over IP OR Point-to-Point operation modes
- Advanced EDID Management
- 2x one Gbps Ethernet ports
- Field-replacable SFP+ optical modules: extension distances between 400 m and 80 km
- Select transmitter, receiver or transceiver operation modes at boot
- Optional balanced, stereo audio and control speed connectors: RS-232, IR and USB HID extension

**Available SOON**

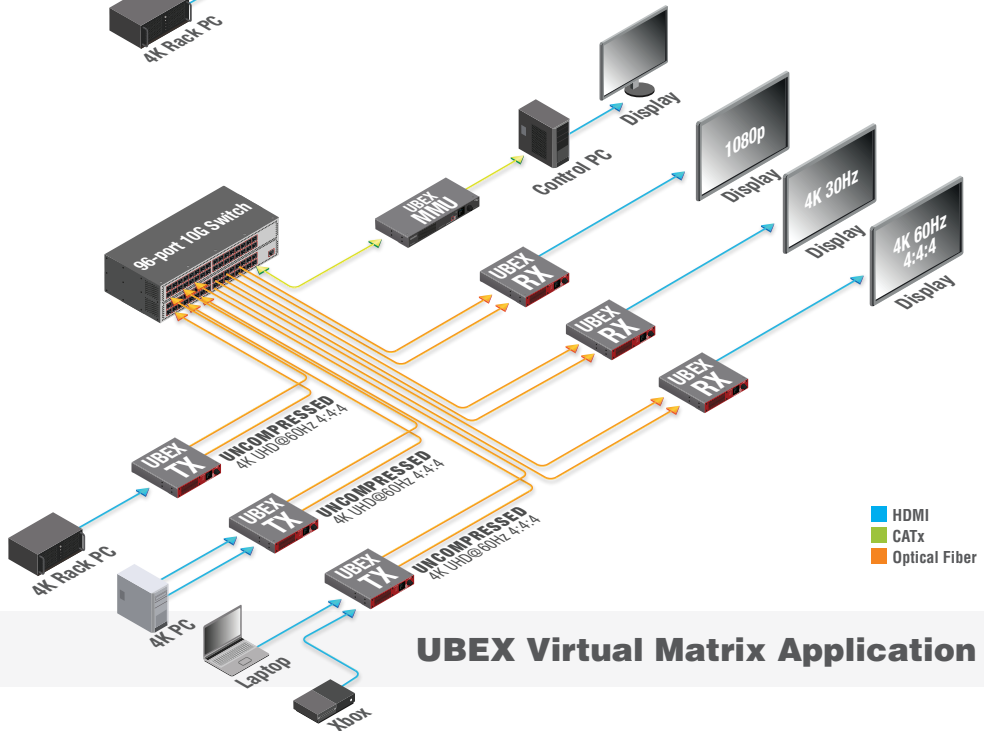
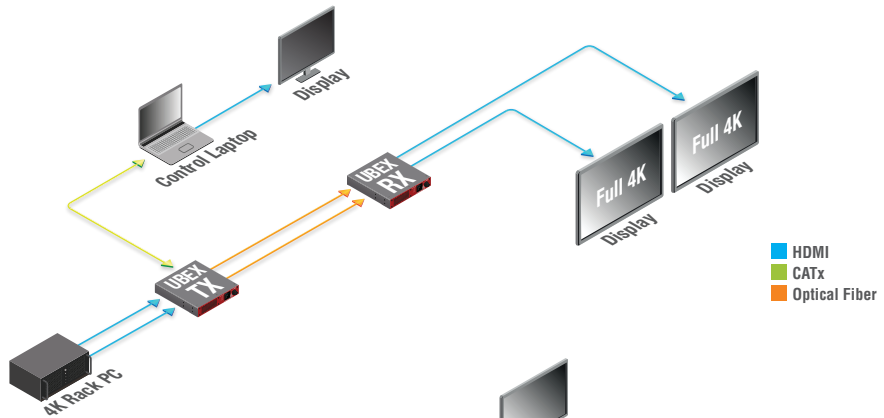




# VIDEO OVER IP



## UBEX Point-to-Point Application



## UBEX Virtual Matrix Application



## AV Over IP Multimedia Extender for 1G Networks **VINX-120-HDMI-ENC** and **VINX-110-HDMI-DEC**

- 3840 x 2160 @ 30Hz resolution over a 1 Gbps network with HDCP
- LPCM and Dolby Digital /Dolby Digital Plus/DTS/ Dolby TruHD/ DTS-HD bitstream audio support
- Embedded web control, direct and networked control via PC
- Local HDMI port for monitoring
- Variable maximum bit rate (10 Mbps ~ 800 Mbps)
- USB HID extension and USB 2.0
- Front panel DIP switches for quick pairing 15 or fewer units  
OR pair hundreds of units via embedded web control
- Video Wall Wizard helps installing a video wall faster than ever: quick, mass adjustment of gap and bezel compensation, cropping and scaling
- Output video signal scaling to adjust to sink properties
- IR, RS-232 and mini USB ports
- Unicast or Multicast operation modes
- Networked or Point-to-Point applications

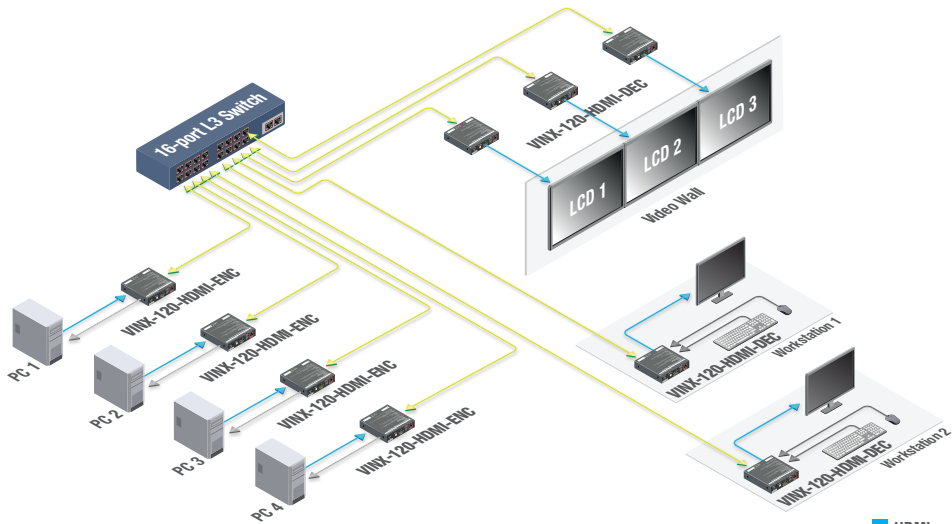




# VIDEO OVER IP



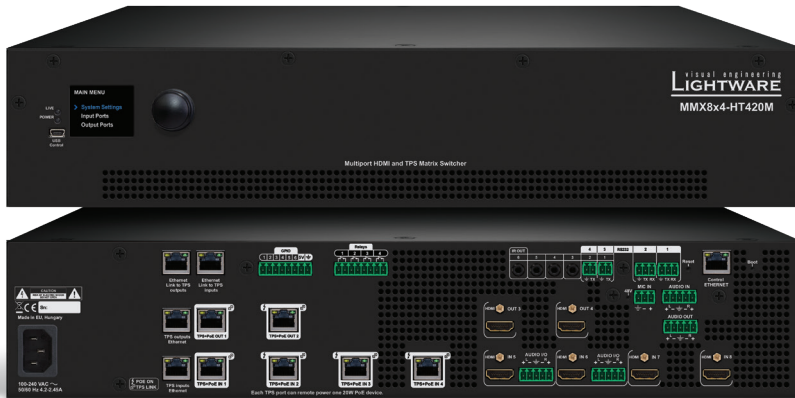
## VINX Video Wall Application



- HDMI
- CATx
- RS-232
- USB KVM



## HDMI and TPS Matrix Switcher with Microphone Input and Mixer DSP **MMX8x4-HT420M**



### Available SOON

- 4K / UHD (30Hz RGB 4:4:4, 60Hz YCbCr 4:2:0) and 3D capabilities
- 4x HDMI inputs + 4x TPS inputs
- 2x HDMI outputs + 2x TPS outputs
- 2x balanced, bi-directional analog audio ports
- 1x analog audio output for the built-in mixer
- Special Audio Input block: active microphone and line-in input ports
- Built-in sound mixer DSP with voice-activated volume fader
- 1x Ethernet port for device control and 2x Ethernet ports for remote device control loop
- 2x bi-directional RS-232 ports
- 2x Serial/IR ports for display control
- 4x IR ports for display control
- 4x Relay output ports
- 6x GPIO+5V+GND port
- Long Reach Mode for FullHD to up to 100 m distance
- PoE function to feed remote power to connected devices, fed from internal power source
- Front panel color LCD and jog dial button
- Event Manager built-in control feature

# COLLABORATION ROOM SOLUTIONS

## HDMI and TPS Matrix Switcher with Microphone Input and Mixer DSP **MMX8x4-HT400MC**

*Corporate Edition*



**Available SOON**

- 4K / UHD (30Hz RGB 4:4:4, 60Hz YCbCr 4:2:0) and 3D capabilities
- 4x HDMI inputs + 4x TPS inputs
- 4x HDMI outputs
- 1x analog audio output for the built-in mixer
- Special Audio Input block: active microphone and line-in input ports
- Built-in sound mixer DSP with voice-activated volume fader
- 1x Ethernet input port for device control
- 2x bi-directional RS-232 ports
- 2x Serial/IR ports for display control
- 2x IR ports for display control
- Front panel LCD and jog dial button
- Event Manager built-in control feature

## HDMI Matrix Switcher with Event Manager MMX8x8-HDMI-4K-A

- 4K / UHD (30Hz RGB 4:4:4, 60Hz YCbCr 4:2:0) and 3D capabilities
- 8x HDMI inputs + 8x HDMI outputs
- 4+2 balanced, analog, audio ports with user-selectable signal direction
- Front panel control buttons, LCD display and jog dial button
- 1x Ethernet input port for device control
- 2x bi-directional RS-232 ports
- 2x Serial/IR ports for display control
- 2x IR ports for display control
- Event Manager built-in control feature

**Available SOON**





# Who

dimmed the light?  
drew the shades?  
set the volume?  
turned the projector on?



## THE BUTLER DID NOT DO IT **EVENT MANAGER DID**

Lightware devices with Event Manager:  
all the control you need is already built-in



## Full HD Video Scaler and HDBaseT™ Receiver with Local HDMI Input **HDMI-TPS-RX120-HDSR**

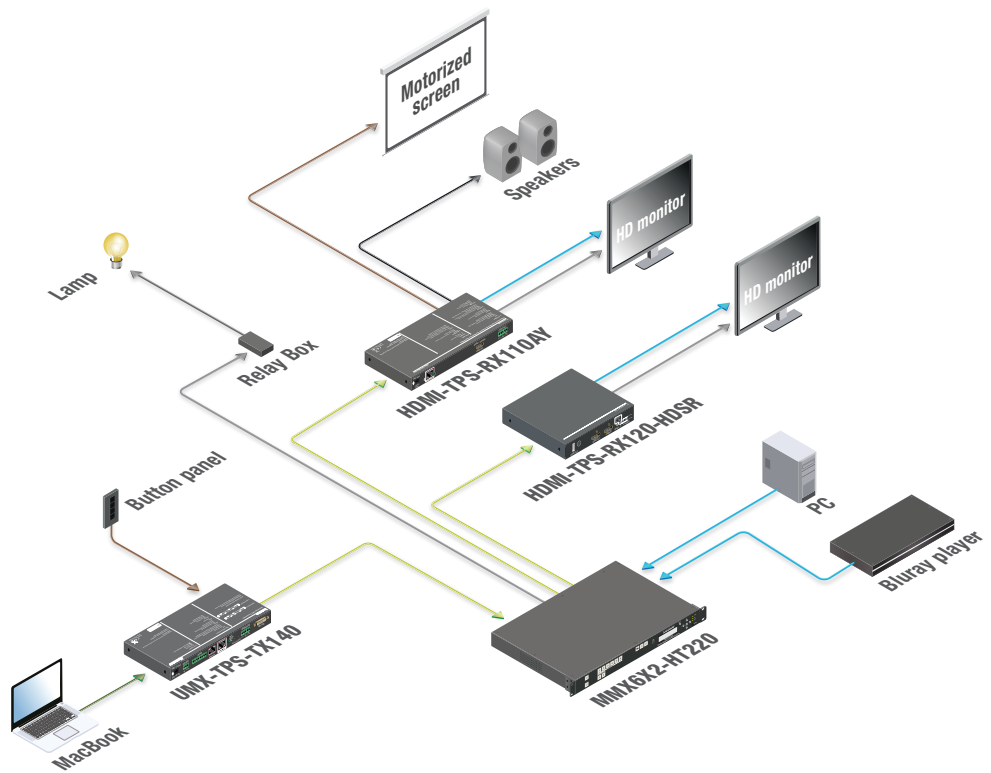
- Maximum resolutions of 1920x1200@60Hz (RB) and FullHD@60Hz
- Scaling of any supported incoming resolution to a fixed output resolution
- Low latency, visually seamless switching on output
- Configuration control over local or extended serial port
- Local HDMI input port with built-in switcher
- Configuration via OSD (On Screen Display) with front panel buttons
- 155 m Long Range Mode and 120 m automatic extension distance
- Built-in EDID memory and management
- RS-232, IR I/O and Ethernet ports





# COLLABORATION ROOM SOLUTIONS

## HDMI-TPS-RX120-HDSR Scaler Application



- HDMI
- CATx
- Optical Fiber
- DisplayPort
- RS-232
- Audio
- GPIO

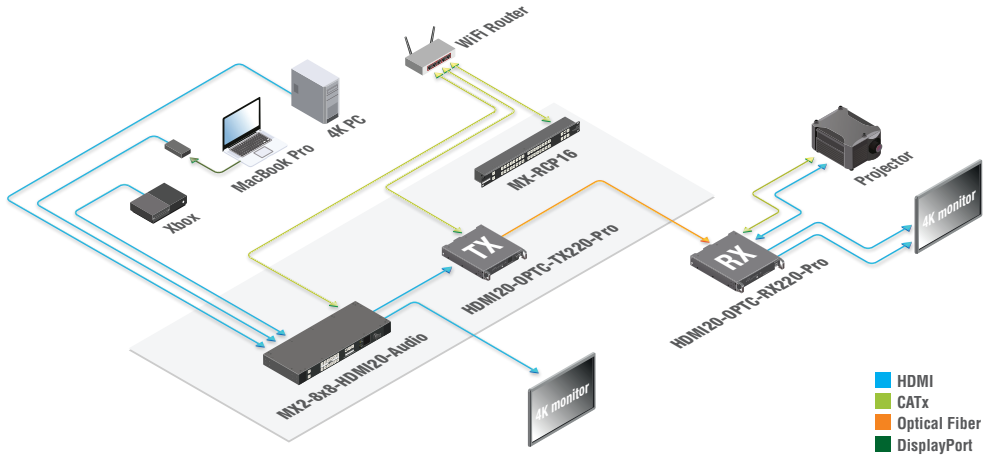
## Full 4K Fiber Optical Extenders **HDMI20-OPTC-TX220-Pro** and **HDMI20-OPTC-RX220-Pro** *Rental & Staging Edition*

- Resolutions up to 4k@60Hz with RGB 4:4:4 colorspace
- 18 Gbps bandwidth
- Full 4K UHD and Gigabit Ethernet signals transfer over a single fiber
- HDMI 2.0, HDMI 1.x and DVI 1.0 compliant
- HDR 10, HDR 12 and Dolby Vision
- TX HDMI input1 + input2 can function as main/backup video input
- RX output1 + output2a can operate as mirrored HDMI 2.0 outputs
- Capable of splitting 4K @ 60Hz signals to two HDMI output ports (with left half and right half of the original video)
- Event Manager built-in control feature
- Easy-to-read graphic LCD and jog dial control button on TX
- Rugged chassis, M10 mounting threads on top and side, safety hookup loops on front
- Dark mode: feedback LEDs can be turned off during the show on RX



# 18 GBPS SPEED HDMI 2.0 PRODUCTS

## HDMI20-OPTC-TX/RX220-Pro Application





## Full 4K Fiber Optical Extenders **HDMI20-OPTJ-TX90** and **HDMI20-OPTJ-RX90**

- Resolutions up to 4K@60Hz with RGB 4:4:4 colorspace
- 18 Gbps bandwidth
- HDMI 2.0, HDCP 2.2, HDCP 1.4 compliant and CEC, EDID transparent
- 36-bit deep color support
- HDR 10, HDR 12 and Dolby Vision
- Zero frame latency, no compression
- One MultiMode fiber extending signal to up to 300 m
- Supports all HDMI audio formats: Dolby TrueHD and DTS-HD Master Audio
- Port saver, user-exchangeable, fixed pigtail Micro USB and HDMI cables
- Solid aluminum housing for safety, security and efficient cooling
- SC optical fiber connector
- Rack tray accessory with built-in power source encloses up to 16 units
- Mounting loops for Velcro belts to affix the unit to basically anywhere



# 18 GBPS SPEED HDMI 2.0 PRODUCTS

## Full 4K Matrix Switcher MX2-8x8-HDMI20-Audio

- Resolutions up to 4k@60Hz with RGB 4:4:4 colorspace
- 18 Gbps bandwidth
- HDCP 2.2 and HDCP 1.4 compliant with cross conversion capabilities
- Fully non-blocking switching architecture with zero frame delay
- Splitting of 4K UHD at 60Hz to two output ports with left half and right half of the original video
- 4:4:4 to 4:2:0 downconversion (subsampling)
- Built-in website for control
- RS-232, Ethernet and USB control options
- Pixel Accurate Reclocking on each input
- HDR 10, HDR 12 and Dolby Vision support
- Advanced EDID Management
- Compact and silent design
- Color LCD, jog dial and push buttons for quick front panel control
- Front to back cooling airflow





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# 2018

