



# Real4K™ Optical Extender

*New Real4K™ family adds flexibility,  
ARC & IR Control*

# Introducing Real4K™ Optical Extenders

## Adapters vs. Extenders

Inneos is expanding its award winning Real4K™ family by introducing Real4K Optical Extenders. Unlike Real4K Adapters which have a short HDMI cable attached, Real4K Optical Extenders have a female HDMI port which gives integrators increased design flexibility to attach HDMI cables to either end.

Real4K™ Optical Adapters



Real4K™ Optical Extenders **NEW**



## Unique WaveStacker™ Technology

Inneos' patented WaveStacker technology creates multiple channels using lasers operating at different wavelengths of light and combines them onto a single fiber. This allows our uncompressed 18 Gbps signal to operate over a single industry standard fiber up to 1000 meters (typical).

## New Features

In addition to all the features of our Real4K Optical Adapters, Real4K Optical Extenders have:

- **Audio Return Channel (ARC) Support**  
Real4K Optical Extenders use the HDMI audio return channel to pipe audio from a television back to an AVR. In the future, this product will also support enhanced ARC functionality (eARC).
- **IR Emitter Support**  
Control via IR is now supported utilizing the Real4K IR emitter accessory. This means that the single fiber also supports your bi-directional IR, so no need to run extra cables.

## Friends don't let friends compress video

– and integrators shouldn't either

Real 4K video with all its features requires 18 Gbps of bandwidth. Compression loses visual information and creates latency. It is one of a variety of compromises used by some vendors in order to overcome the limitations of copper wiring.

Real4K™ Optical Extenders deliver 18 Gbps of uncompressed bandwidth using only a single industry standard fiber.

HDBaseT, SDVoE, and Video over IP solutions all require compression because they are limited to either 1 Gbps or 10.2 Gbps bandwidth.



## Deploying Real4K Optical Extenders

- **Install industry standard multimode fiber**  
Many integrators can install fiber as easily as category cabling. For these integrators, deploying Real4K Optical Extenders is as simple as connecting the extender and plugging in the fiber.
- **Purchase kits with pre-terminated fiber**  
These standard fiber lengths have pre-terminated connectors on the end and are as easy to install as "old style" HDMI cables. Plenum-rated fiber or InvisiCable™ fiber lengths are available.

## Easy Upgrade to 8K

Unlike optical cables which will need to be removed from walls and replaced with new cables, Real4K products can be disconnected from the standard fiber and replaced with Real8K products\*.

## Designed and Made in the USA



Real4K™ Optical Extenders are designed and manufactured in the USA.

\*Real8K™ Optical Extender maximum distance over OM4 will decrease from 1000 meters typical to 400 meters typical. Real4K is a trademark of Inneos LLC.