Video Compression and the Binary B-10 Extender

With today's large displays and data-rich content, it's harder than ever to deliver high-quality video without the negative effects of video compression. With Binary's B10 Fiber to HDMI extender, you can utilize fiber's high bandwidth to transmit uncompressed 4K @ 60Hz with HDR up to 1000m at 18Gbps, maximizing color depth, brightness, and contrast on the latest high-resolution TVs and projectors.

Not sure what video compression is and how it affects your install? Let us help!

What is video compression?

Video compression reduces the data used to encode digital video content to accommodate lower bandwidth and smaller storage capabilities, making it easier to transmit over a network.

Why is video compressed?

Multimedia files are large and consume lots of space, making them time-consuming to move over various networks and the internet. Compression shrinks these files, making them smaller and more practical to store and share, delivering as much video as possible over a network's capable bandwidth in a timely manner.

How is video compressed?

A video codec uses an algorithm to eliminate redundant and non-functional data from video files. This data may include repetitive backgrounds, scenes, and sounds, as well as any other similarity between frames.

Is video compression noticeable?

With today's large video displays, compression is becoming increasingly noticeable. This causes blocky and rough colors, jagged edges, and blurry movements that stutter.

How does Binary solve this problem?

Binary uses fiber's high-bandwidth capabilities, eliminating the need for compression. Fiber provides a large enough pipe to deliver uncompressed 4K, delivering video in its true form for stunning clarity and lifelike scenes.

How does the Binary B10 Series Fiber to HDMI Extender help?

The Binary B10 Extender converts digital video signals to light waves. It then leverages the incredible bandwidth provided by Fiber to enable uncompressed 4K @ 60Hz with HDR to be sent from source to display, providing high resolution video and audio to the viewer.

Learn more about media distribution at snapav.com/binary