

# SDI ADVANCES OVER TIME

SDI (Serial Digital Interface) is a family of digital video interfaces first standardized by SMPTE and over time has evolved to support increasing video resolutions (HD, UHD and beyond), frame rates, stereoscopic (3D) video, and color depth.



**1996**

WRAL-TV of Raleigh, NC becomes the first TV station in the USA to broadcast a digital television signal.



**2000**

1.5Gbps HD-SDI routing began to appear to support digital television ATSC HD OTA (over-the-air) transmission in North America.



**2014**

3G-SDI becomes the new standard as frame rates have progressively increased.



**2015**

6G-SDI is introduced with 4K cameras.



**Today**

Broadcast technology is still evolving! Many broadcast facilities now require 75-ohm coaxial cables to carry 10x more bites than the original SDI at 270MBps. 12G-SDI has the ability to handle high frame rate and deep color 4K/UltraHD signals over a single cable.



↑  
**FRAME  
RATES**

## THE ADVANTAGES OF 12G-SDI



Enables transmission of deep color 4K/UltraHD signals over a single cable



Enables faster frame rates



Increased Bandwidth (11.88 Gbps)

With broadcast technology constantly evolving, AJA is uniquely situated to provide future-proof technology to leading manufactures and developer partners in the video industry. AJA now supports 12G-SDI with solutions for editing [lo 4K Plus](#), transmission over [fiber](#), and [Converters to Mux/Demux](#) and [distribute](#) 12G-SDI where ever needed. Whether you are a high-profile media company, post-production house, mobile truck operator, or cinematographer, the reliability, flexibility and performance of AJA technology is incomparable.