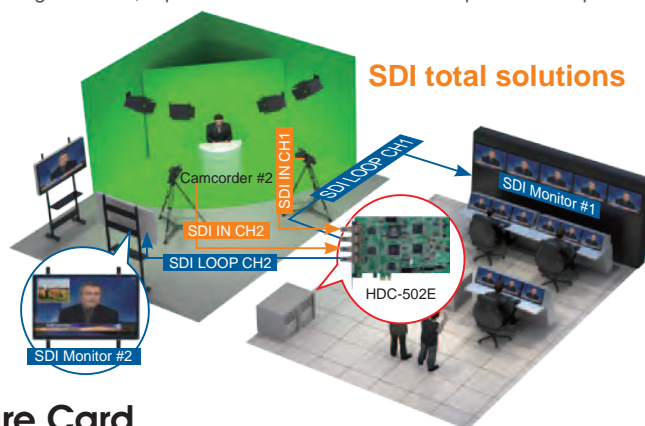


Long Distance High-Definition Compression Solution

Nowadays, more and more equipments are equipped with SDI output for television studios and other broadcasting applications. SDI is a high capacity interface used as a way of exporting uncompressed digital video in real time. That makes it ideal for live feed productions (such as a live TV show), as well as for editing and monitoring video at the highest possible quality. Since SDI is designed primarily for professional use, it is also compatible with a variety of video devices found in broadcast studios, including monitors, tape decks and switchers. SDI exports uncompressed SD and HD video over a coaxial cable.



■ Long Distance and High Quality Capture Card

SDI in studio editing field

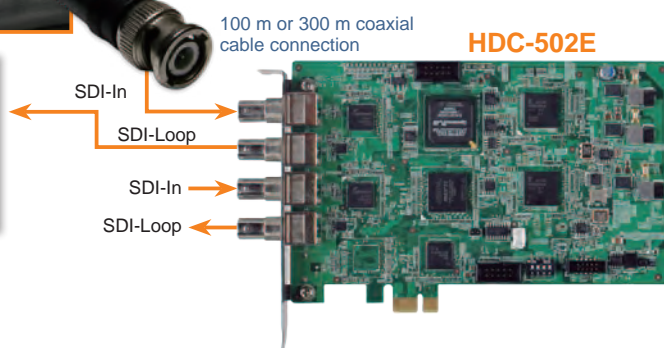
SDI (Serial Digital Interface) is a family of video interfaces used for broadcast-grade video. A related standard known as high-definition serial digital interface (HD-SDI) provides a nominal data rate of 1.485 Gbit/s. IEI SDI product HDC-502E is designed with 2 channels SDI input, 2 channels SDI loop and 1 channel SDI output for high quality and long distance signal transmission. It achieves this through a 100 m (HD-SDI)/300 m (SD-SDI) coaxial cable without compression and with no data loss for professional studio, broadcast and transportation video applications.



Name	Bit rates	Video
		Formats
SD-SDI (300 meters)	270 Mbit/s, 360 Mbit/s, 143 Mbit/s, 177 Mbit/s	480i, 576i
HD-SDI (100 meters)	1.5 Gbit/s, 1.5/1 Gbit/s	720p, 1080i



Uncompressed raw data for editing



How high is 300 m?



High definition capturing has become a trend of the industrial surveillance. The HD-CCTV camera with SDI interface provides long distance transmission compared to analog camera and IP camera. The advantage is SDI interface can transmit high-definition 1080p video via coaxial cable instead of network cable. In other words, users can enjoy 1080p HD video over existing analog system without any changes.

SDI in high quality surveillance field

HD-CCTV1 camera V.S. IP camera

High definition



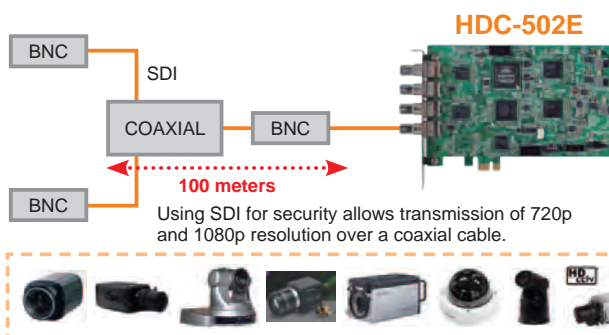
High definition



HD-CCTV1



HD-CCTV2



1
Industrial
Computing
Solutions

2
Video
Capture
Solutions

3
Embedded
Computing
Solutions

4
Automation
Control

5
ORing
Network
Communication

6
Power Supply/
Peripherals

7
Panel
Solutions
Introduction