

HD-TVI & HD-CVI – New Technology for Analog HD Solution

HD-TVI (High Definition Transport Video Interface) is the HD Video transmission Interface. HD-TVI technology can be implemented in existing simulation on a transmission line reliable kop HD video signal transmission. The core of HD-TVI technology is HD-TVI chip, on the front end cameras and back-end encoder respectively increase the sending and receiving chip, improve data transmission distance, through a advanced image processing technology and back-end encoding technology, further enhance the image quality, at the same time, avoids the shade of the simulation system inherent CVBS crosstalk phenomenon, the luminance and chrominance separation thoroughly. In other words it is a Respectably High Quality Image.

HD-CVI (High Definition Composite Video Interface) is a solution for megapixel high definition applications, featuring non-latent long-distance transmission at a lower cost. The name has to do with its baseband and quadrature amplitude modulation technology, which is able to avoid CVBS cross talk, completely separate brightness and hue signal, and further enhances video quality. The HD-CVI solution incorporates both cameras and DVRs. The system is star topology structured — the DVR serves as a node for an over coax P2P (Point-to-Point) transmission to the camera. The technology offers two specifications: 1080p (1920×1080) and 720p (1280×720). In addition, the technology features the Auto Signal Compensation (ASC) patent, which only allows an extremely low signal distortion along long-distance transmissions.

HD-TVI/CVI vs HD-SDI

In conclusion, the advantage of HD-TVI/CVI compared with HD-SDI is

- Longer transmission distance(without boost)
- Affordable Price
- Better Anti-interference and Reliability

HD-TVI/CVI vs IP Camera

Compared with IPC, the advantage of HD-TVI/CVI is

- No compression, so no video quality loss.
- Real-time video display, without any transmission signal delay.
- Low requirement for network bandwidth.

HD-TVI/CVI vs Analog

In summary, the advantage of HD-TVI/CVI compared with Analog video is:

- HD resolution on 720P/1080P at 25/30fps
- Long distance transmission for HD video
- No video quality loss and delay for transmission