



High-Speed Video Transmission



DVB-T Transmission of High-Speed Videos

- Radio transmission of colour videos from a mobile high-speed camera
- Processing and transmission of a live videostream with 120 fps or alternatively two live videostreams with 60 fps
- Resolution: 640x480 pixels
- Best picture quality at a data rate of 13 Mbit/s (distributed on one or two carriers)
- Coding, modulation and transmission as DVB-T datastream
- With signal amplifiers: Ranges of several kilometres achievable
- RS232 based telemetry channel

Supported Cameras

- VCC-F22V39 PCL (CIS Corporation)
- VCC-F22V39 A PCL (CIS Corporation)

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DVB-T Radio Transmission of High-Speed Videos from a Mobile Colour Camera

Thanks to the Camera Link interface, high-speed videos can be transmitted with high data rate and at adequate speed. But the cable puts a quick end to the range of this transmission – cutting resolution or frame rate already at ten metres.

An optimal solution for longer distances is a transmission via DVB-T. DVB-T provides, unlike W-LAN, higher ranges and a better stability. With signal amplifiers and corresponding frequency licences, the transmission can reach a receiver at a distance of many kilometres. Appropriate data security is ensured by the encryption of the DVB-T signals.

maintech's High-Speed Video Transmission System transmits at a resolution of 640x480 pixels a live datastream with 120 frames per second or alternatively two live datastreams with 60 fps each. The system splits the video up in four separate streams with 30 fps each, which are recoded to a 120 fps video by PC afterwards.

The data are digitally coded as MPEG2, modulated and output as DVB-T channel to transmit the pictures wirelessly by radio. Compared to traditional radio transmission technologies, DVB-T transmission provides a higher picture quality as well as a better failure safety. DVB-T transmission is one of the most reliable radio solutions with extraordinary picture quality.

The attached PC software displays live the video as well as all relevant parameters, e.g. receive level etc., and performs the signal recording automatically.

The system is best implemented with the Power-over-Camera-Link high-speed cameras VCC-F22V39 PCL oder VCC-F22V39 A PCL from CIS Corporation. For information about other devices, please contact us; we will be glad to help you.

Specifications	
Camera	VCC-F22V39 PCL or VCC-F22V39 A PCL (CIS Corporation)
Resolution	640x480
Frame rate	120 fps
Reception	Receiver connected over Ethernet

