

High definition (HD) industrial video camera system over coax cable.

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General.

At time of setting up this document there are 4 ways to bring over a full HD video signal (1080p) over coax from camera to the monitor. HD video signal over coax is very interesting since it allows to upgrade an existing analogue CCTV system to HD without replacing the cables. See possibilities below.

1) HD-SDI (=High Definition Serial Data Interface)

This standard is from the broadcasting industry and is now also available industrial CCTV. HD-SDI allows transmission of full HD uncompressed video images over a single coax cable type 1505A up to 100 mtr. (Up to 300 mtr when using a booster at both ends of the coax cable).

2) HD-CVI (=High Definition Composiet Video Interface)

HD-CVI allows transmission of full HD uncompressed video images over a standard single coax cable type RG59/Bu up to 500 mtr. HD-CVI allows also bi-directional communication with the camera for remote camera settings and allows as well RS485 for PTZ control.

3) HD-AHD (=High Definition Analogue High Definition)

HD-AHD allows transmission of full HD uncompressed video images over a standard single coax cable type RG59/Bu up to 500 mtr. HD-AHD allows also bi-directional communication with the camera (remote camera settings) and allows s well RS485 for PTZ control.

4) HD-TVI (=High Definition Transport Video Interface)

HD-TVI allows transmission of full HD uncompressed video images over a standard single coax cable type RG59/Bu up to 500 mtr. HD-AHD allows also bi-directional communication with the camera (remote camera settings) and allows s well RS485 for PTZ control.

Recording.

Traditional standard recorder for analogue cameras needs to be replaced by corresponding HD recorder.

Monitor.

In order to present a HD picture, the monitor needs to have a HDMI or DVI input.