

Digital Picture Documentation

Various Possibilities

1. Digital Photo Camera

Using a simply filter thread adaptor it is possible to connect most of the most popular digital photo cameras to a borescope or Technoscope. The still pictures can be stored digitally on removable memory media in the photo camera (ie. diskette, Smartcard, Memorycard etc.), and then transferred by direct cable connection from camera to a PC or Laptop. Card readers are available which when connected to the PC make the task even simpler. It is important that there is a filter thread on the digital camera and that the auto focus function on the camera can be switched off.



2. Digital Video Camera (Camcorder)

With this cameras it is also possible to connect borescopes and Technoscopes using a filter thread adaptor. Many of the consumer camcorders have the facility not only to record moving images onto the tape but also to take still pictures as snapshots either directly onto the same tape or in digital form onto special memory cards. Transfer of these stored images to a PC or Laptop can be easily carried out via a direct cable connection or via a card reader.

Please note that when making video recordings of moving images there is a resolution limitation of 470,000 pixels imposed by the PAL or NTSC Tv system. There are many video cameras with CCD sensors with more than 1 million pixels but these resolution levels are only possible when these cameras are used in the still image or snapshot mode. In the video mode only a portion of the total CCD is used.

3. Digital Video Recorder

Digital Video Recorders from various manufacturers can be easily connected to either analogue or digital video cameras. With these it is possible to store video images or still pictures on a mini tape in digital format. The digital signal can be transferred via a direct cable connection to the PC or Laptop/Notebook.



4. Digital Still Picture capture device for analogue video signal input

This is a small and light weight unit to capture video signals in digital form from an analogue or digital video camera as still pictures on a storage medium. The connection is via a BNC or Y/C video cable. In this case the storage medium is a simple standard 3.5" PC floppy disk, which can be used to transferred images to virtually any modern PC or Laptop via the standard 3.5" drive.



5. Digital Storage of Video Pictures direct on the PC or Laptop

Using a video cable connection between video camera and a PC it is possible to input directly an analogue video signal. A special card called a frame grabber card suitable for use on a PCI bus must be installed in the PC. The frame grabber changes the analogue signal into a digital signal that the PC can work with it. On the PC monitor the picture will be shown in real time. A frame grabber can also be installed in a Notebook or Laptop but if the PCMCIA-interface is used the pictures will not be displayed in real time but rewritten 2-3 time times each second.

6. Portable Video Show Case TVC-21

A compl. Video-Documentation system

This new video show case TVC-21 contains all the important items in a very compact and light weight form which is very easy to transport and very simple and fast to use. The high resolution LCD-display has a diagonal size of 12" (30 cm). Along side the monitor is a video camera control unit with a miniature CCD camera head and a compact digital picture capture unit. The images are stored on a SmartMediaCard® in the BitMap (bmp) digital format without any resolution loss. The image can be frozen and a quad split with 4 different images shown simultaneously on the display for comparison.

All the equipment is interconnected and therefore it is only necessary to plug in the mains cable to the supply and switch on for everything to be ready for use (plug and play).

