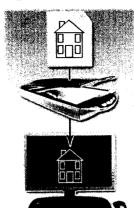
Input devices: the eyes of your PC

Scanners

Input devices such as scanners and cameras allow you to capture and copy images into a computer.



A scanner is a peripheral that reads images and converts them into electronic codes which can be understood by a computer. There are different types.

- A flatbed is built like a photocopier and is for use on a desktop; it can capture text, colour images and even small 3D objects.
- A film scanner is used to scan film negatives or 35 mm slides - pictures on photographic film, mounted in a frame.
- A hand-held scanner is small and T-shaped, ideal to capture small pictures and logos.
- A pen scanner looks like a pen; you can scan text, figures, barcodes and handwritten numbers.



A pen scanner

Barcode scanners read barcodes on the products sold in shops and send the price to the computer in the cash register. Barcodes consist of a series of black and white stripes used to give products a unique identification number.

The resolution of a scanner is measured in dpi or dots per inch. For example, a 1,200 dpi scanner gives clearer, more detailed images than a 300 dpi scanner.

Most scanners come with Optical Character Recognition software. OCR allows you to scan pages of text and save them into your word processor; they can then be edited.



Barcode and reader

Digital cameras

A digital camera doesn't use film. Photos are stored as digital data (bits made up of 1s and 0s), usually on a tiny storage device known as a flash memory card. You can connect the camera or memory card to a PC and then alter the images using a program like Adobe Photoshop, or you can view the images on a TV set. Many printers have a special socket so that you can print images directly from a memory card or camera.

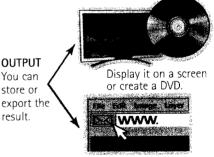
Digital video cameras and webcams



A digital video (DV) camera records moving images and converts them into digital data that can be processed by a PC.



PROCÉSSING You can manipulate video images with video editing software. You can cut, paste, add effects, etc.



store or

result.

Email or put your

Webcams (short for Web cameras) let you send and receive live video pictures through the Internet. They're primarily used for video conferences - video calls - but they can be used to record photos and video onto your hard disk.

The resolution of webcams is expressed in megapixels (million pixels). Webcams connect to the PC via a USB (universal serial bus) or FireWire port; they display video at 24 to 30 frames (pictures) per second. Some include a headset with a microphone and earpiece.