SCIENCE ECHNOLOGY

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Tuesday, Feb

STEVEN PIWONKA Battalion

February 27, 2001

n 1995, the first digital cameras marketed for consumers were shipped s across the country and labeled with price tags of more than Commercially, they flopped.

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year, an estimated 4 million digital cameras were distributed in ited States, where consumers were waiting and willing to spend ere from \$100 to \$20,000.

chnology gurus have long expected digital cameras to replace connal cameras, but technology and the price tag that accompanies the logy have only recently begun to make the digital tools a comlly viable evolution of the century-old technology.

najor problem people have with digital cameras is the price. ital cameras often cost up to 10 times as much as a film camera duces the same quality of image.

only price advantages that digital cameras boast are that, instead atedly doling out money for film, the photographer only needs ce or recharge batteries; and, instead of paying to have the film ped, one can plug his or her camera into a computer to see the ilts of a photographic expedition.

as might have A snapshot of history

sounds of MAlthough digital cameras have just recently come onto peat. It is an market, the technology has been around since 1951, t as a Beckin Bing Crosby Laboratories introduced the video tape es to new-wayrder (VTR). It was designed to electronically record teleon images onto magnetic tape.

ake guises in the 1960s, NASA began to use digital imaging methods He refers to a hap the surface of the moon.

ith "Debra," 3y the time of the Ranger 7 mission, the technology enith her sister ed crystal-clear images of the moon's surface to be broadhat Beck brit to Earth.

t in "Sext Since that time, all space probes have been outfitted with tal cameras to help explore the limits of the solar system. k has made foday, the Hubble telescope maps the limits of the ributes - Erwn universe with the same type of technology sold at ch, to an unitronics stores.

Picture this

_ Rupert While standard cameras capture an image by foing light and color onto a piece of film, digital ras focus light and color onto a light-sensior Ten D: computer chip called a charged-couple de-(CCD). The CCD saves images electronas a gridwork of dots called pixels. en listening Digital image quality has always been vhy Fruschilted by the fact that pixels are square and i Peppersal to make an image blocky unless there lot of them fit into a picture, making the Frusciantes iks small enough to appear smooth.

ng voice that low many pixels does it take to make an d more acruge look as smooth as film to a human eye? "Millions," said Sally Grotta, a reporter iante's sing TechTV. "The newest cameras capture 1110101010100

A different perspective

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With the high price tag of digital cameras, one may ask why they are becoming an increasingly hot commodity. The simple answer, besides the need to have the newest and hottest thing, is the cameras' versatility. Newer models can record sound and video simultaneously. The user can take a series of images so quickly that they can be played on a computer like a movie, accompanied by recorded sound in MP3 format.

Something that may be important to keep in mind, however, is that digital cameras use internal memory, removable cards or disks to hold pictures and sounds. The larger the storage space, the higher the price. Capturing images containing millions of pixels or a long series of pic-tures with sound to boot tends to eat up camera space quickly.

Some cameras only allow one to make an eight- or nine-second "movie" before they run out of space. Using a camera as an MP3 player requires the user to compromise between memory dedicated to music and enough free space to take pictures.

Ideally, a user can download his or her pictures to his or her computer and escape having to buy more storage media. However, that is not always an option for the photographer who wants to carry his or her camera while on vacation or on a job assignment.

Getting into focus

Camera enthusiasts have always enjoyed the flexibility of single lens reflex (SLR) cameras. With interchangeable lenses and a variety of accessories, these cameras offer more flexibility than any pointand-shoot camera, which offer a limited field of focus and little or no accessories

> Until recently, all digital cameras were point-and-shoot, which did not appeal to hardcore photographers. However, when digital SLRs first entered the

market, they were not received well for reasons other than high prices. These models were not compatible with the accessories of the conventional SLRs, and the prospect of buying a digital SLR for \$ 1,000 or more and then adding the cost of new lenses made these cameras fail.

Some companies have corrected that error with a new generation of digital SLRs that capture images with millions of pixels and are compatible with conventional accessories

However, there still remains another difference: with great technology comes great mass

James Kim, a reporter for TechTV, had this to say about a new Nikon model: "Its magnesium alloy body is heavy at 3 pounds, but it's nearly bulletproof ... at times became a pain to lug around."

Digital media is not feasibly priced to overtake conventional photography ... yet.

As with all other technology, once it has been on the market for a while, the price will probably come down to a range beal to the Until then, higher-end digital cameras will appeal to professionals, while the average consumer is likely to become increasingly sold on the simplicity and features that are exclusive to digital cameras.

3 million pixels — and the images look etto, hitting good as conventional ones. or the bester Again, the only problem is the price. single "Scale camera like the one Grotta described will background t\$800 or more.

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