Smart High Speed Camera ProcImage 240

Smart High Speed Camera ProcImage 240 See Fast Technologies

High Speed Smart Camera

Smart High Speed Camera ProcImage 240

The ProcImage 240 is a very competitively priced smart high speed camera with recording direct to PC via USB2.0.

Frame rates up to 227 fps at the full resolution of 640 x 480 pixels is possible with real time recording on hard drive (compression without loss)

Based on a motherboard with a Spartan 3 FPGA, a fast SRAM and a USB2.0 interface, the ProcImage240 performs high speed videos very simply while offering the possibility of having a smart trigger to optimize movie capture and embedded processing in real time to transfer only useful data. Just use a standard PC. No need for specific acquisition card. It is also possible to record onto the RAM of the camera and capture images at 640 x 480 pixel resolution up 240 frames per second and up to 51 000 images per second at a reduced resolution.

Operational Modes

Standard high speed
camera mode:
-

- Direct recording to PC up to several minutes, limited by hard drive size.

- Direct recording of short time

video into the internal RAM

Smart high speed camera mode:-

The ProcImage240 integrates an FPGA and an SRAM allowing embedded image processing that will run in real time between two images, without slowing down the frame rate.

This can be as simple as thresholding, binarization, or more complex such as profilometry, comparison of frames, compression, etc.

This allows for the implementation of a smart trigger to take a sequence; and/or the implementation of embedded processing on images in order to transmit only useful data in real time

The USB 2.0 interface of this smart high speed camera provides great flexibility and has the following advantages:

-
Simplicity: USB is plug'n play

- Portability: the camera is powered by USB so laptop use is possible

- Multiplicity:Multiple cameras can be connected simultaneously on a PC, the limit depending on number of PC's USB host controllers and the amount of data to be transmitted

View the smart high speed camera datasheet for further recording speeds, resolutions and region of interests possible
2011 12 23 fastvision_procimage240_gb_1211_web 541.25 Kb