

ABSTRACT

(Fig.1)

IMAGE PROCESSING APPARATUS

A two-dimensional image is created by scanning a sensor array, consisting of a line of image detectors, in a direction perpendicular to the array. The image consisting of m rows of n pixels is stored in a memory 2. The image is scanned by counters 3 and 4 to select the (i) th pixel of row j and the data V_{ij} is output on bus 5 to arithmetic means 10. Arithmetic means 8 and 9 calculate mean values of data output from neighbouring pixels h and these mean values are compared with the data V_{ij} in arithmetic means 10 to determine any deficiency in sensitivity Δi . Δi is stored in memory 11 and applied as a correction factor to the stored data through calculator 12 and data bus 20.