



ABSTRACT OF THE DISCLOSURE

SOLID STATE IMAGE-SENSING DEVICE AND BARCODE READING DEVICE EMPLOYING SAID DEVICE

A solid-state image-sensor comprises a sensor, a charge transfer part, a plurality of charge/voltage converters, a comparator and a detector. The sensor has a plurality of arrayed light-receiving portions, with each light-receiving portion converting incident light into a signal charge corresponding to the amount of incident light and accumulating the signal charges. The charge transfer part distributes between at least two systems the signal charge stored at one light-receiving portion part of the sensor and transferring the signal charge using different numbers of stages. The plurality of charge/voltage converters detect and convert into voltages the signal charges of the at least two systems transferred by the charge transfer part. The comparator carries out a level conversion on each of the outputs of the plurality of charge/voltage converters and the detector detects the level transition point of the comparator output signal and generates a binary signal.