PHOTOELECTRIC CONVERSION DEVICE

ABSTRACT OF THE DISCLOSURE

For accomplishing increase in S/N ratios, improvement in operability, and decrease of cost, a photoelectric conversion device comprises: a photoelectric conversion portion comprising a plurality of photoelectric conversion pixels arranged in row and column directions, a plurality of signal wires wired in the column direction, each of the signal wires connecting outputs of photoelectric conversion pixels arranged in the same column, and a plurality of control lines wired in the row direction, each of the control lines connecting control terminals for controlling signal output operation of photoelectric conversion pixels arranged in the same row; a plurality of analog memory means for storing analog voltages obtained from analog voltage conversion means for converting information charges based on the photoelectric conversion pixels to the analog voltages and for maintaining the analog voltages as outputs, each of the analog memory means being connected to each of the signal wires; and a plurality of A/D conversion means each connected to each output of analog switch means, each of the analog switch means being connected to each of a plurality of output line groups which are formed by dividing output lines of each of the analog memory means into a plurality of groups.

Figure 1