

ABSTRACT OF THE DISCLOSURE

A solid-state imaging device includes an imaging unit, a charge control unit, and a horizontal transfer unit. The imaging unit includes a plurality of pixels arranged into a matrix for performing photoelectric conversion, and a plurality of vertical transfer units arranged in columns for vertically transferring signal charges of the plurality of pixels on a column-by-column basis. In a predetermined operation mode, a predetermined number of columns greater than one are used as a unit, and the charge control unit stops transferring charges from a vertical transfer unit in a predetermined column of the predetermined number of columns, and adds the signal charges transferred from the vertical transfer units in the two or more remaining columns of the predetermined number of columns to output the added signal charges. The horizontal transfer unit horizontally transfers the signal charges output from the charge control unit.