

Title (en)

BIMODE IMAGE ACQUISITION DEVICE WITH PHOTOCATHODE

Title (de)

BIMODALE BILDERFASSUNGSVORRICHTUNG MIT PHOTOKATHODE

Title (fr)

DISPOSITIF D'ACQUISITION D'IMAGES BIMODE A PHOTOCATHODE

Publication

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Application

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Abstract (en)

[origin: CA2961118A1] The invention relates to an image acquisition device (100) comprising a photocathode (110), converting an incident flux of photons into a flux of electrons, a sensor (130), and processing means (14). The device according to the invention comprises a matrix (120) of elementary filters, each associated with at least one pixel of the sensor, said matrix being disposed upstream of the photocathode. The matrix comprises primary colour filters, and transparent filters, termed panchromatic filters. The processing means (140) are able to: - calculate a quantity, termed a useful quantity (I), for determining whether at least one zone of the sensor is in conditions of weak or strong illumination, the useful quantity being representative of a mean surface flux of photons or of electrons which is detected on a set of panchromatic pixels of the sensor; - forming, only if said zone is in conditions of strong illumination, an image of said zone on the basis of the primary colour pixels of this zone.

IPC 8 full level

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