A High Resolution Imaging System for Simultaneous Acquisition of Two High Aspect Ratio Object Fields

Abstract

A high resolution imaging system capable of capturing a pair of object fields at extended resolution is disclosed. It comprises a twin input acquisition optical group, an image parting mechanism and a beam reception group where each module works to part and relay images of two object fields. The relayed images are segmented and directed to two image detector systems to extend the acquisition resolution. Electronic processing is used to merge and process the two image detector signals simultaneously. The invention extends the resolution of the image detector to produce high finesse qualities for high aspect ratio object field.

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