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(54) Title: IMAGE RESOLUTION MULTIPLIER

(57) Abstract: A system for generating high resolution image data using a low resolution image sensor is provided. The system includes an image sensor array and an image size system determining a pixel resolution area. An image target system determines a desired pixel resolution area, and an image sensor array placement system determines two or more locations for an image sensor array based on the pixel resolution area and the desired pixel resolution area. An image composition system receives first image data of a target from the image sensor array at a first location and second image data of the target from the image sensor array at a second location and combines the first image data and the second image data to form composite image data having an effective pixel resolution area less than the pixel resolution area.



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