

<b>Unchallenged Claim 1 of  U.S. Patent No. 9,661,226</b>	<b>Unchallenged Claim 1 of  U.S. Patent No. 10,009,537</b>	<b>Challenged Claim 1 of  U.S. Patent No. 12,250,452</b>
<p>A method for real-time estimating of an image quality, for use with a device that comprises in a single enclosure a digital camera module or functionality that comprises  an optical lens for focusing received light from a scene and an image sensor coupled to the optical lens for capturing an image of the scene;  a motion or location sensor for sensing the device motion; and  a processor coupled to the image sensor and to the digital camera for receiving data therefrom,  the method by the processor comprising:</p>	<p>A method for estimating quality of a digital image frame having pixels, where the image is taken from a video stream comprising multiple images, each image frame comprises an image of a scene; where the video stream was taken by a digital camera;</p>	<p>A method for presenting suggestion to a user of a device to move the device to a different location, where the device comprises  at least one digital camera module that comprises  at least one optical lens and an image sensor coupled to said optical lens for capturing an image,  and at least one processor coupled to the image sensor or digital camera for receiving data therefrom,  the method by the processor comprising:</p>
<p>obtaining a first value (QI1) responsive to the device motion from the motion or location sensor;</p>	<p>obtaining a first value (QI1) associated with the digital camera at the time of said image capture;</p>	<p>calculating from an image received by at least one sensor and lens, a quality indicator QI1 of a face or object,</p>
<p>estimating a first weight (c1) associated with the first value;</p>	<p>estimating a first weight (c1) associated with the first value;</p>	
	<p>analyzing the captured image for detecting or recognizing one or more objects in, or one or more characteristics of, the image;</p>	
<p>obtaining a second value (QI2) associated with the digital camera;</p>	<p>obtaining a second value (QI2) associated with the analysis;</p>	<p>and calculating an aesthetic quality indicator QI2 that uses a background blurring test of said face or object,</p>
<p>estimating a second weight (c2) associated with the second value;</p>	<p>estimating a second weight (c2) associated with the second value;</p>	
<p>analyzing the captured image for detecting or recognizing one or more objects in, or one or more characteristics of, the image;</p>		

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obtaining a third value (QI3) associated with the analysis;		
estimating a third weight (c3) associated with the third value;		
calculating a total value according to, or based on, the first value (QI1) weighted according to first weight (c1), the second value (QI2) weighted according to second weight (c2), and the third value (QI3) weighted according to third weight (c3);	calculating a total value according to, or based on, the first value (QI1) weighted according to the first weight (c1), the second value (QI2) weighted according to the second weight (c2);	and calculating a total quality indicator that is based at least partially on at least one of QI1 and QI2;
comparing the total value to a threshold;	comparing the total value to a threshold;	selecting based on the total quality indicator at least one appropriate suggestion from a pre-stored table of suggestions, suggesting to the user to move the device to different location; and presenting the suggestion to the user.
determining whether the total value is higher than, or below than, the threshold; and	determining whether the total value is higher than, or lower than, the threshold; and	
acting in response to the determining.	acting in response to the determination;	
	where the second weight (c2) is partially based respective values of previous images in said video.	