Optical Module Stabilization Methods

Overview

OIS is a mechanical technique used in imaging devices to stabilize the recording image by controlling the optical path to the image sensor. The two main methods of OIS in compact camera modules are implemented by either moving the position of the lens (lens shift) or the module itself. Today, from the technologic point of view, Digital Image Stabilization (DIS), Electronics Image Stabilization (EIS) and Optical Image Stabilization (OIS) are the best understood and the easiest to integrate in digital still cameras and smartphones, though they can produce different image- quality. al Image Stabilization (OIS) technologies. Designed for telephoto lenses in long-range monitoring, these systems provide ction through 2D motion or shift analysis. When combined, these systems effectively suppress vibration across wide amplitude and frequency ranges, delivering optimized. Image stabilization (IS) is a family of techniques that reduce blurring associated with the motion of a camera or other imaging device during exposure. The apparatus may comprise a lens coupled to an actuator. Ever have the chance to take a terrific photo and then discover that it came out blurry?

Maybe you were using a longer lens, or maybe you were.

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	In this study, we propose a novel image stabilization technique, utilizing Fermat''s principle and matrix methods to determine the location of intersection points dynamically on the surface of a ...
	Image Stabilization (IS) comprises a variety of methods that are used to reduce blurring associated with the shaking of a camera, video camera, or other image acquisition device.
	This paper proposes an approach for the implementation of a low-power elec-tronic (digital) image stabilization using an AMD/Xilinx Zynq UltraScale+ ZU7EV device (CPU+FPGA) with a custom Linux ...
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	Various embodiments of the present technology may comprise methods and apparatus for optical image stabilization. The apparatus may comprise a lens coupled to an actuator.
	multi-layered defense against image blur. OIS performs hardware-based correction by compensating for 3D rotational motion, while DIS applies software-based corr. ction through 2D motion or shift ...
	Today, there are two methods to tackle the problem – optical image stabilization and electronic image stabilization. An optical image stabilization system usually relies on gyroscopes or accelerometers to ...
	OIS is a mechanical technique used in cameras and mobile phones to stabilize captured photos by adjusting the optical path to the image sensor. There are two primary approaches to OIS ...
	Optical image stabilization (OIS) is a mechanical technique used in imaging devices to stabilize the recording image by controlling the optical path to the image sensor. OIS can be ...
	This paper hosts a technical explanation on the main aspects of Optical Image Stabilization and the actuator technologies and the solutions commonly available in the market.

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