

Optical Module Stabilizer First



Overview

Panasonic Corporation started the development of an optical image stabilizing system in 1981 and succeeded in composing world's first Optical Image Stabilizer (OIS) to compensate for video camera blur in 1988. Image stabilization (IS) is a family of techniques that reduce blurring associated with the motion of a camera or other imaging device during exposure. Generally, it compensates for pan and tilt (angular movement, equivalent to yaw and pitch) of the imaging device, though electronic image. 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. Disclosed is an optical image stabilizer for a camera module using polymer elements which can be moved in a first direction and a second direction in the vicinity of the camera module. Since the advent of smartphone, miniature camera modules have become much more compact and. We began research on image stabilization technology in 1981.



Article Content

Next Generation Autofocus and Optical Image

Modern camera modules are required to perform positioning functions to improve the stability and quality of captured images. These functions

Infographics of a Sony camera using GPT Image 2 on ChatGPT

Jack (@j_smeaton99). 135 likes 39 replies. Infographics of a Sony camera using GPT Image 2 on ChatGPT Prompt: Create a premium square "reference-style photography equipment

Image Stabilization: How Mobile Cameras Keep Photos Sharp

Optical Image Stabilization (OIS) OIS is an image stabilization system that enhances mobile photography by physically moving the lens module or image sensor to counteract any slight camera

A method for evaluation of an optical image stabilizer in an ...

A figure of merit called the image clarity index is proposed for quantifying the performance of an optical image stabilizer (OIS) subjected to hand jitter. The image clarity index is defined as the

What Is Image Stabilization? (How and When to Use it)

Optical Image Stabilization (OIS) Optical image stabilization technology, also known as lens-based stabilization, is incorporated into the

Optical Image Stabilization

Optical Image Stabilization (OIS) utilizes an electro-mechanical solution to vary the optical path to the image sensor. This can be implemented in the lens itself or at

Practical Approach for Controlling Optical Image Stabilization System

Practical Approach for Controlling Optical Image Stabilization System Woo-Yong Kim, Hyung-Tae Seo, Soohyun Kim, and Kyung-Soo Kim* tical methodology for designing an optical image stabilization

Optical image stabilizer for camera module

The present invention relates to an optical image stabilizer for a camera module capable of moving in first and second directions around a camera module using polymer elements.

The 8 Best Video Stabilization Software Options in 2024

The Stabilization module in Mocha Pro features different options to use fixed frames or smooth the stabilization, adjust the borders and edges of the

Innovative adhesive solutions from DELO optimize first

To ensure optimal performance of the camera system, first lens bonding is used to join lens packages accurately, improving optical power and

Optical and digital stabilization in the camera

Canon was the first to introduce such technology in 1995, calling it Image Stabilization (IS). Today, every self-respecting lens manufacturer has its own

Optical Image Stabilization (OIS) Explained: Types and Working

In cameras or other imaging instruments, optical image stabilization (OIS) refers to the setting of optical components to avoid or reduce instrument jitter in the process of capturing optical

History of Optical Image Stabilizer Development

We began research on image stabilization technology in 1981. We made the world's first video camera equipped with an optical image stabilizer (OIS) a practical, item in 1988.

Affordable medium-finesse optical cavity for diode laser stabilization ...

We have constructed and characterized an affordable medium-finesse optical cavity $\mathcal{F} \sim 1500$ ($F \sim 1500$) for the stabilization of tunable diode lasers at two

Apple Develops Novel Advanced Optical Stabilization

However, even the best smartphone camera must play catch-up when movement is introduced, highlighting the limitations of optical image

OIS (Optical Image Stabilization)

Optical image stabilization (OIS) technology is one of the main image stabilization technologies alongside digital image stabilization (DIS) and electrical

Milestone-Proposal:Development of Optical Image Stabilizer, 1981-1988

Panasonic Corporation started the development of an optical image stabilizing system in 1981 and succeeded in composing world's first Optical Image Stabilizer (OIS) to compensate for video camera

Semiconductor laser active frequency stabilization technologies: a review

Abstract Laser frequency stabilization is one of the key technologies in atomic physics experimental system. In this paper, the basic principles, and features and the latest research progress on various

What Is an OIS Camera? How Optical Stabilization Works

Unlike software-based stabilization, OIS uses actual moving parts inside the camera module to correct for shake in real time. How OIS Works Inside Your Camera An OIS system is a

Robust H^∞ control of miniaturized optical image stabilizers against ...

This paper presents uncertainty modeling and robust controller design for 3 degrees-of-freedom miniaturized optical image stabilizers (OISs) against product variabilities. To develop a

WhitePaper_draft_ver.1.2_(HI_RES)

Depending on the camera-module technology, the two modes contribute in different ways to the performances of an OIS system; in fact the first mode aims to manage the power efficiency, while the

Next Generation Autofocus and Optical Image Stabilization System for ...

Currently, camera modules are used in a wide range of applications ranging from micropo-sitioning actuator systems used in smartphones to larger modules used in stationary

Optical Image Stabilization (OIS)

Image Stabilization was a key feature, joining display dimension, Near Field Communication (NFC), the Wireless Optical Image Stabilization (OIS) - White Paper 2 Charging and Finger print security

List of Smartphones with Optical Image Stabilization Feature

Lenovo Vibe Z2 Pro This is a phablet launched by Lenovo last year and still make noise in the high-end smartphone segment with its 16MP camera module having an Optical Image

Optical Image Stabilization (OIS)

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

What is sensor shift stabilization and is it better than

Interestingly, sensor shift stabilization is a technology that comes to phones from DSLRs. Just like OIS, it aims to stabilize your photos and videos,

Optical Image Stabilization (OIS)

Image stabilization is used to reduce blurring associated with motion and/or shaking of the camera during the time the image sensor is exposed to the capturing environment. However, it does not

Next Generation Autofocus and Optical Image Stabilization System for ...

These functions mainly include the autofocus (AF) and optical image stabilization (OIS) functions. Traditionally, separate actuators and sensors are used for AF and OIS, each contributing towards

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