

iPhone optical module concept



Overview

A new patent filing from today shows a modular device that breaks the rules of today's smartphone design and opens the door to something completely different: a slim everyday device that becomes a full photography system the moment you snap on a dedicated camera module with. A new patent filing from today shows a modular device that breaks the rules of today's smartphone design and opens the door to something completely different: a slim everyday device that becomes a full photography system the moment you snap on a dedicated camera module with. Apple is quietly imagining a future where your phone transforms into a real camera. However, even the best smartphone camera must play catch-up when movement is introduced, highlighting the limitations of. iPhone 17 Pro Max may feature a new telephoto lens with up to 8x optical zoom support. A brief hands-on video has surfaced. Explore the detailed modeling of the Apple iPhone camera using COMSOL's Ray Tracing Module. Learn about lens system design, dispersion modeling, ray tracing simulations, and insights into optical performance and aberrations for iPhone 11. It's made up of several key components: * Lens: This is what captures the light and focuses it onto the sensor. Camera modules can have multiple lenses, made of plastic or glass, to.



Article Content

iPhone 14 Concept Gets Rid of Camera Module in the

There's been no shortage of iPhone 14 concepts, we know that much and we even saw an iPhone 16 concept recently. However, today's iPhone 14 Pro

Xiaomi Modular Optical System concept hands-on

The lens attaches to a modified Xiaomi 15 with Qi2 magnets similar to MagSafe on iPhones. Snapping the module in place is rather fiddly,

Xiaomi Wants to Make Modular Magnetic Lenses for its

Just before Mobile World Congress 2025 opens up in Barcelona, Xiaomi presented a concept it's calling the "Modular Optical System", which is

Apple granted patent for periscope camera module that

The patent shows off the details and schematics for a a 3x periscope camera module that would use folded optics to give future iPhones a more

Apple Innovates by Creating Next-Level Optical

Apple's innovative patent hints at advanced optical image stabilization technology for smartphones, potentially reshaping the future of mobile photography.

Iphone Internal Components and Their Functions

Detailed diagram of iPhone internal components, including key hardware elements such as the battery, logic board, sensors, and connectors. Explore the structure

Apple Reinvents the Iris: New Patent Reveals Soft

Apple just patented a soft-membrane camera aperture that may replace traditional mechanical blades—paving the way for cinema-grade iPhones.

Projected-Capacitive Touch Technology

Projected-Capacitive Touch Technology Projected-capacitive touch has grown extremely rapidly from obscurity in 2006 to the number-two touch technology in 2009. This article examines all aspects of

Explained: Components of smartphone camera module

Currently, Apple does not have Indian suppliers for the iPhone's camera module. Partnering either with Titan or Murugappa Group may reportedly

Modeling Apple's iPhone Camera with COMSOL's Ray

Explore the detailed modeling of the Apple iPhone camera using COMSOL's Ray Tracing Module. Learn about lens system design, dispersion modeling, ray

How does the iPhone 15 Pro Max's "Tetraprism" 5x

But if you look at their teardowns, you can notice that the periscope module is much larger than the one in the 15 Pro Max, despite both having the same 5x optical

What is Co-Packaged Optics?

Learn how co-packaged optics is reshaping data center networks by slashing power use and unlocking massive bandwidth for next-gen AI performance.

iPhone 16 Pro To Reportedly Feature A 5x Tetraprism

A report claims that the iPhone 16 Pro will retain the 5x optical zoom camera, just like the one present on the iPhone 15 Pro Max

Cell Phone Lens: The Fundamentals Behind

We will break down the optical lens design process and identify the characteristics of a typical mobile phone lens. We will investigate various

iPhone X's TrueDepth Module Dissected

PARIS — Although experts in the imaging industry are aware of a complex “TrueDepth” module that Apple has devised for its iPhone X, most other

Apple Develops Novel Advanced Optical Stabilization

Optical image stabilization, sometimes called OIS, IS, OS, or VR, is already found on many interchangeable camera lenses. Optical stabilization

Apple is Working on Improving the iPhone's Camera

A recent patent application reveals that Apple is working on bettering the iPhone's camera with optical image stabilization and improved autofocus.

How did Apple emerge as a leader? Primarily through its

Today, the iPhone 15 Pro Max has largely retained the iPhone 14 Pro Max's camera but has notably upgraded the optical zoom from 3X to 5X by using

iPhone 17 Pro Widens the Pixel Camera Module In New

Unlike the square bump seen on recent iPhone models, the iPhone 17 Pro prototype features a horizontally aligned, rectangular camera module. The

Apple's 5.5-inch "iPhone 6" to sport optical image ...

Due to supply constraints, Apple's rumored 4.7-inch "iPhone 6" handset is not expected to come with optical image stabilization (OIS) components, one analyst says, though yields may be

Apple adds third supplier for folded zoom OIS actuators

LG Innotek and Jahwa Electronics have been the sole two suppliers for folded zoom optical image stabilization (OIS) actuators in Apple's iPhone lineup in

Apple's New Suspension System Could Redefine

Apple's latest patent reveals a suspension wire system to boost iPhone image stabilization. Here's how it fits into pro mobile cameras.

Apple's New Patent Reveals a Modular Camera System With

Apple's new patent reveals a modular camera system with interchangeable lenses. A slim core device snaps into a dedicated photography module, hinting at a major shift in mobile

About Optic ID advanced technology

About Optic ID advanced technology Find out how Optic ID helps protect your information on Apple Vision Pro. Optic ID for Apple Vision Pro Much of our digital lives are stored on our Apple devices,

iPhone Logic Board Parts and Their Functions

The iPhone logic board contains several important components that control processing, power management, charging, audio, and wireless

UNIT-I INTRODUCTION FOR THE IDE I. iPhone and iPad Device

I. iPhone and iPad Device Anatomy: The anatomy of an iPhone and iPad refers to the internal and external components that make up the device. While the exact layout and components may vary

Apple patent shows yet another design for an optically

The latest example of this is a new patent from Apple that details the schematics for a periscope camera module that we may one day see inside new

iPhone 17 Pro Max Seen in Leaked Video With

Apple is expected to unveil the iPhone 17 series, including the Pro Max, on September 9. Leaks suggest a redesigned rear camera with a raised

iPhone 6 Plus

iPhone 6 Plus is the first ever device from Apple to feature optical image stabilization module in its 8-megapixel primary iSight shooter.

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