

Xiaomi optical module external lens



AI Overview

Xiaomi's external optical module is a detachable 35mm f/1.4 lens with a 100MP Micro Four Thirds sensor, magnetically attaching to a modified Xiaomi 15 for DSLR-like mobile photography.

Key Features

Lens and Sensor: The module features a 35mm all-aspherical lens with a variable aperture from f/1.4 to f/11, paired with a 100-megapixel Micro Four Thirds (M4/3) Light Fusion X sensor. This larger sensor improves image quality, dynamic range, and low-light performance compared to standard smartphone cameras.

Manual and Autofocus: It includes a manual focusing ring and a built-in autofocus motor for tap-to-focus functionality, with shutter speed adjustments available through the Pro camera mode.

Attachment Mechanism: The lens attaches magnetically to the back of a modified Xiaomi 15 using Qi2 magnets, similar to Apple's MagSafe, and locks into place via two alignment pins. A red dot and a subtle click indicate proper alignment.

Data and Power Integration: Xiaomi's proprietary LaserLink technology enables high-speed optical data transfer up to 10 Gbps, allowing the lens to function seamlessly as if built into the phone. The module draws power from the smartphone only when active.

Image Processing: The system supports RAW capture, Pro mode, and Leica image processing, giving users professional-level control over photography.

Usability and Considerations

The lens weighs approximately 100 grams, making the setup slightly bulky and incompatible with phone cases. It protrudes from the phone, which can partially obstruct the ultrawide camera view. Launching the lens takes 1-2 seconds, which may occasionally delay capturing a shot. The module is fully in-house designed, with no third-party components, ensuring tight integration with Xiaomi's camera software.

Implications for Mobile Photography

Xiaomi's modular optical system represents a shift toward customizable smartphone photography, combining computational power with high-quality optics. It allows users to maintain a slim phone design while acces...

Article Content

Xiaomi's Camera Concept Is a Wild Blast From the

The device, which Xiaomi calls the "modular optical system" is strictly a concept right now, but I was able to get hands-on with it in a meeting room

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Xiaomi Pad 8 Pro, powered by the Snapdragon® 8 Elite platform and Xiaomi HyperOS 3, delivers PC-level productivity. Xiaomi Global.

Xiaomi Wants to Make Modular Magnetic Lenses for its Phones

It's a standalone sensor-integrated lens module that magnetically attaches to the back of a phone. In this case, Xiaomi showed PetaPixel a modified Xiaomi 15 smartphone with built-in Qi2...

Xiaomi's concept phone has a camera with modular,

But Xiaomi's new Modular Optical System could open the possibility of attaching a high-quality lens module to your phone when you need it and

Xiaomi's new concept attaches a Micro Four Thirds

At MWC 2025, Xiaomi is showing off its new concept idea for the Xiaomi Optical Modular System – a micro four-thirds camera and lens combo

Xiaomi Modular Optical System concept hands-on

Although it's reminiscent of past attempts from other manufacturers, Xiaomi's approach is fundamentally different. Sony, for example, tried

Xiaomi Unveils Modular Micro Four Thirds Camera System For

Xiaomi has introduced a cool concept at MWC 2025: the Xiaomi Optical Modular System, a Micro Four Thirds (MFT) camera and lens combination that magnetically attaches to the back of a

Xiaomi's Bold Modular Lens Concept Could Change

Xiaomi unveiled a bold modular phone concept at MWC 2025, featuring a magnetic clip-on lens with a 100MP sensor. Here's everything to

Xiaomi's New Smartphone Lens Snaps on Like

The modular optical system features a modified Xiaomi 15 with a magnetic attachment mechanism, allowing users to snap on a high-performance

MFT lens combo mounts to a smartphone with MagSafe

Though there are exceptions, smartphones don't generally come packing large imaging sensors. Xiaomi wants to give mobile snappers the

Xiaomi 15 custom model with magnetic clip-on camera

At the Xiaomi 15 series launch event at the MWC 2025, Xiaomi also showcased a Xiaomi Modular Optical system on a custom-made Xiaomi 15

Xiaomi Modular Optical System: Future of Photography

One of the coolest things about this system is its modular lens design. You can attach the external lens for professional-grade photos, then

Xiaomi Modular Optical System

Xiaomi LaserLink Communication: The proprietary LaserLink technology facilitates high-speed (up to 10 Gbps) optical data transfer between the lens module and the smartphone. This

Xiaomi's New Smartphone Lens Snaps on Like

Xiaomi has officially unveiled its innovative modular optical system at MWC 2025, introducing a custom version of the Xiaomi 15 that sports a

Xiaomi Showcases Next-Gen Modular Optical System

The system is powered by LaserLink technology, ensuring instant data transfer between the external lens and the phone. The Xiaomi Modular Optical

Xiaomi's Detachable Camera Module is Changing

On March 2, Xiaomi's CEO Lei Jun revealed a prototype of a modular smartphone camera system called the "Xiaomi Modular Optical System." This

Xiaomi 15 Ultra With Snapdragon 8 Elite SoC, Leica

It is powered by Qualcomm's flagship octa-core 3nm Snapdragon 8 Elite chipset having a maximum clock speed of 4.32GHz under the hood, paired

Xiaomi Modular Optical System: Future of Photography

Xiaomi's Modular Optical System revolutionizes mobile photography with a detachable lens, 100MP clarity, and AI-powered Ultra RAW.

Xiaomi Modular Optical System concept hands-on

The sensor is paired with a 35mm lens with an aperture from f/1.4 to f/11. There's also a manual focusing ring, but the shutter speed can only

Xiaomi unveils ambitious modular phone concept with

Xiaomi has unveiled a new concept modular phone built for photography enthusiasts. The concept features an attachable lens and sensor

Xiaomi Modular Optical System

Detachable 35mm f/1.4 Lens: The system features a 35mm lens with a large f/1.4 aperture, allowing for exceptional low-light performance and depth-of-field control. This lens attaches magnetically to the

Xiaomi's Bold Modular Lens Concept Could Change

At the heart of this concept is a custom Xiaomi 15 designed to support a detachable 35mm lens module. Unlike basic clip-on lenses that rely on the

Xiaomi wants to stick a Four Thirds camera to the back

Xiaomi just updated its flagship smartphone, filling it with even more Leica camera tech, but apparently, that's not enough. The company has also

Xiaomi's revolution in mobile photography: A camera

Breakthrough technology in mobile photography Xiaomi Modular Optical System represents a breakthrough in mobile photography. It is

This Modular Phone Concept Is Xiaomi's Plan to Kill the

The Xiaomi Modular Optical System is a polished prototype that combines a modified Xiaomi 15 smartphone with a 35-mm lens module that can

Xiaomi releases official Modular Optical System sample

After showing off the Modular Optical System at MWC, Xiaomi finally provided some actual sample photos taken using the attachable lens.

I tried the Xiaomi attachable lens that turns your phone

Tech Phones I tried the Xiaomi attachable lens that turns your phone into a proper mirrorless camera Xiaomi's Modular Optical System concept

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