

CLOSEST PRODUCT TO SCG TECH ALREADY IN DEVELOPMENT: META ORION

PORTABLE POSSIBILITIES

The world's most advanced AR experience
in a glasses form factor

Optics & display Custom silicon Magnesium frames Miniaturized sensors Wireless

Optimizes for color correction, power and brightness. Micro LED projectors
and optical-grade silicon carbide allow for ~70 degree FOV.



Orion offers a glimpse into the future of human connection

At Meta, we continually strive to break down the barriers between the digital world and the real world. While not available to the public, the breakthroughs from this internal product are rapidly ushering in the next generation of computing and a paradigm shift in how we communicate with one another.

The culmination of effort from thousands of passionate individuals, countless hours of research and development, and extensive challenges overcome — Orion pushes the limits of what it means to connect to each other and to the world around us.

EXPANDING POSSIBILITIES

Weave AI and AR into everyday life

Innovative experiences for work or play.

Connect like never before

Staying connected to what matters most is now easier than ever. Video call friends and family in the room beside you. Hands-free glasses mean no arm strain to hold up a device while giving you the freedom to move around. Quickly view and respond to messages without breaking your flow.

Effortless multitasking

Weave technology throughout your day to quickly and easily get things done. A large field of view (FOV) and custom compute stack supports hands-free multi-tasking to tackle your busy lifestyle multiple panels comfortably placed in your field of view.

Elevate every day with wearable multimodal AI

Orion is positioned to revolutionize the industry with a personalized AI assistant that adapts to the always changing needs of your life. Want to try a new dinner recipe but not sure what to make? Meta AI on Orion can understand the ingredients in your pantry and provide recommendations. It can walk you step by step through the recipe while giving measurement and heat setting recommendations along the way — while keeping your hands free to cook and prepare.

Collaborative presence

Manipulate digital objects in 3D experiences anytime, anywhere with AR experiences allowing placement and interaction with virtual content in the environment around you. Interact in that very same digital experience with one friend beside you, down the street, or across the globe.

REVOLUTIONARY TECH IN A FAMILIAR FORM FACTOR

An AR wearable you'll actually want to wear

Our mission was clear, yet challenging: to create practical, wide-display AR glasses that people genuinely want to wear. This is one of the most significant breakthroughs in this product — from the start, we leveraged human-centered design principles to craft the most advanced AR glasses in a remarkably slim form factor. By utilizing unique materials like a lightweight magnesium frame, innovative thermal management techniques, and miniaturization of sensors and cameras, we've built a device that seamlessly integrates into everyday life while pushing the AR wearables industry forward.

INNOVATION YOU CAN SEE

Behind the lens



Enhanced FOV and optical clarity

Research and development at Meta of optical-grade silicon carbide (SiC) lenses has pushed boundaries of what is possible within the form factor of lightweight AR glasses. Our breakthrough refinement of silicon carbide has enabled an approximately 70 degree field of view, the widest FOV in an AR glasses form factor to date, while enabling an optical stack which minimizes stray light effects such as rainbows.

Advanced input and control

We've combined the best and most natural inputs — voice, eye tracking, hand tracking — and added revolutionary electromyography (EMG) technology in a comfortably worn wristband for subtle, socially acceptable input, enabling use in low light or in public environments without requiring your hands in view of sensors.

[Learn how EMG works](#)



Freedom of movement

Designed to deliver unparalleled freedom and flexibility, Orion removes the need for cumbersome wires, allowing for dynamic AR experiences to happen freely wherever you want to go. This device redefines possibilities and sets new standards in the category for innovation and convenience.

Unlocking innovation with silicon carbide

Breakthrough work at Meta with optical-grade silicon carbide has unlocked an abundance of technological advancements from an industry-leading field of view to improved power and efficiency. Click to discover more about the untapped potential of this next-gen material and how our work with advanced SiC refinement is slated to influence the technology sector.

[Learn more about silicon carbide](#)



Seamless natural input

High-performance EMG

Haptic feedback

Comfortable & lightweight

Sleek design

High-performance textile elegantly wraps around the band and wrist, and a satisfying magnet automatically snaps the band in place



POCKETABLE COMPUTING

Reliable, wireless AI and AR

Experience the freedom of pocket-sized computing, designed to enhance reality on your terms. Orion's compute puck delivers low latency compute power in a compact wireless form factor. Enjoy seamless access to Meta features wherever you go, without limitation.



