Booth No. **7A62-24**

Eyechip Corporation

EYECHIP
CORPORATION

Year Established	2020	Type of Business	Manufacturing
Website	www.eyechips.com	Main Export Countries	
SNS			

Main Customer	Domestic Customers	International Customers

| The Person In Charge	Name	Department	Position
	Jae Hoon Song		CEO
	Phone	Mobile	E-mail
	+82-2-6747-0100	+82-10-4163-4242	contact@eyechips.com

Company Description

Eyechip Corporation, a pioneering semiconductor company founded in 2020, is revolutionizing the eye-tracking industry with its groundbreaking single-chip solution. By integrating advanced in-sensor computing algorithms directly into its proprietary CMOS image sensor, Eyechip has developed a power-efficient, cost-effective solution that dramatically simplifies eye-tracking implementation across multiple industries.

Product

EC102GP

Function and Usage : The EyeChip EC102GP represents the next generation of eye-tracking technology, offering comprehensive eye movement and pupillary response analysis in a single integrated solution. Building upon our proven in-sensor computing architecture, this advanced chip captures and processes multiple eye-tracking parameters simultaneously, providing rich data for complex applications. The chip delivers four synchronized data streams:1. High-resolution eye pupil images 2. Precise pupil center coordinates 3. Corneal reflection (glint) center detection 4. Dynamic pupil size measurements

Marketing and Selling Points : This expanded dataset enables sophisticated applications across multiple industries:• Medical diagnostics (neurological screening, fatigue detection) • High-end AR/VR systems (foveated rendering, depth perception) • Automotive safety (driver alertness monitoring) • Professional sports (athlete vision training) • Advanced research (cognitive load assessment, attention studies) • Biometric security systems
EyeChip EC102GP delivers clinical-grade eye-tracking performance in a cost-effective, easy-to-integrate package. The addition of glint detection and precise pupil size measurement enables advanced features like gaze point calculation and cognitive load estimation, making it the ideal choice for applications requiring comprehensive eye analysis.
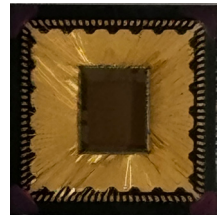
EC101CG

Function and Usage : The EyeChip EC101CG is a revolutionary single-chip eye-tracking solution that combines a high-performance CMOS image sensor with integrated pupil detection algorithms. This compact chip captures high-quality eye images and performs real-time pupil center detection with sub-pixel accuracy. Using our patented in-sensor computing technology, the chip processes eye-tracking data directly on silicon, eliminating the need for external processing units and reducing both power consumption and system complexity. The chip outputs three primary data streams:1. Raw eye pupil images 2. Real-time pupil center coordinates 3. Corneal reflection center detection

Marketing and Selling Points : Perfect for applications requiring basic eye position tracking, the EyeChip EC101CG is ideal for:• Entry-level AR/VR headsets • Accessibility devices for computer control • Basic eye movement research • Gaming peripherals • Human-computer interaction studiesWith power consumption under 20mW and a compact form factor, EyeChip EC101CG enables manufacturers to integrate eye-tracking capabilities into their devices without significant hardware overhead or complex integration requirements.