



**THE CORETEC GROUP**



**Endurion**

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# Today's Speakers

**Matthew Kappers**, Chief Executive Officer, The Coretec Group

**Matthew Hoffman**, Chief Operations Officer/Chief Financial Officer, The Coretec Group

**Dr. Seonkee Kim**, Chief Executive Officer, Coreoptics, LLC



# Agenda

March 14, 2024

- Introductions
- Overview of the Transaction
- Overview of Core Optics
- Company Synergies
- Management & Board of Directors
- Endurion Update
- Conclusion



# Overview of the Transaction

- Coreoptics purchased the Compact Camera Module (CCM) product line from IsMedia
- Signed agreement on March 1<sup>st</sup>
- Share exchange with Coreoptics, LLC (Virginia LLC)
- Due diligence
- Closing shortly after due diligence is completed.
- Announcements will be issued after closing



# Coreoptics Overview



- Description of Products
- Market Demand
- Customers
- Korean Operations
- Sales Pipeline
- Market Outlook



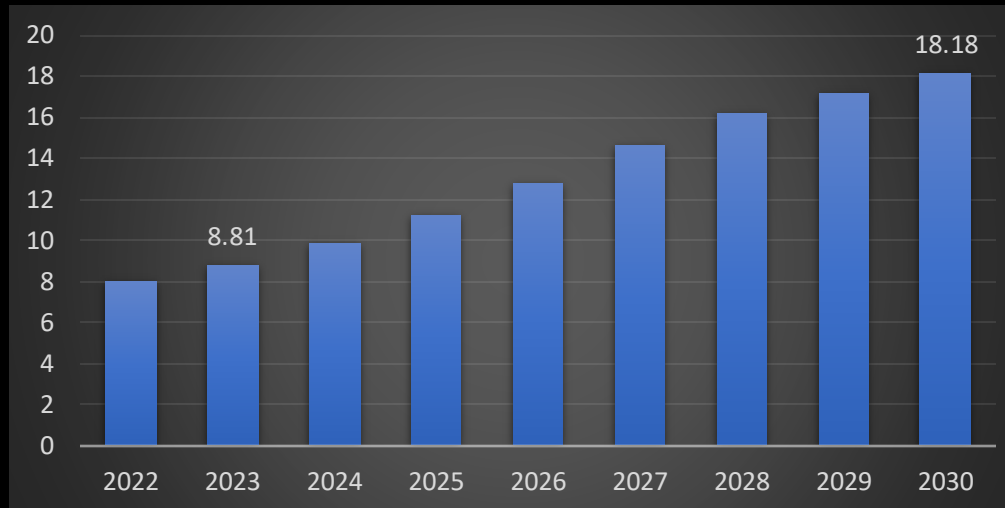
# KEY TAKEAWAYS

- Since 2002, Coreoptics and its predecessor have produced more than 8600 machines and successfully carried out numerous projects with various global partners as a **Camera Test Solution Provider**.
- Coreoptics's core technology produces inspection equipment with accuracy and precision, including **Grabber Kits, Test Algorithms, LiDAR Cameras, VR/AR Cameras, and Automotive Cameras** with 90 patents.
- Coreoptics has strategically pivoted to the high-growth automotive business and is now focusing its resources on this sector. Currently engaged in numerous collaborations with major manufacturers.
- Coreoptics embarked on the rapidly growing business of battery testing equipment.

# Market Outlooks

## Global Automotive Camera Market

Opportunities and forecast, 2021~2028



- The global automotive camera market is projected to grow from USD 8.81 billion in 2023 to USD 18.18 billion by 2030
- Growing at a **CAGR of 10.9%(2021~2030)**

- **EU Mandates ADAS Installation in All New Cars by 2024**

As of July 6, the European Union (EU) has enforced new general safety regulations for automobiles, making it mandatory for all new car models to be equipped with Advanced Driver Assistance Systems (ADAS). This regulation will first apply to newly introduced car models starting from July 6 and will extend to all new cars by July 2024.



# WHO WE ARE



78%

Automotive Business



15%

TOF Business



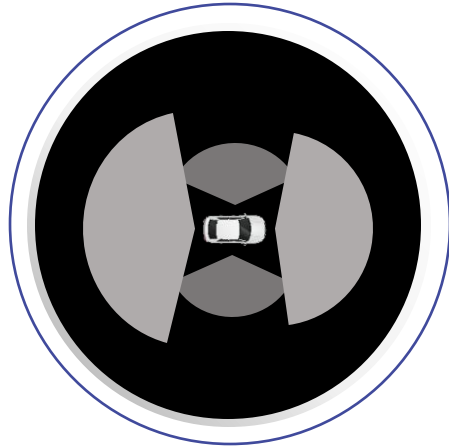
7%

Mobile Business



# OUR BUSINESS

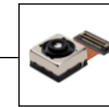
Automotive Tester



3D Tester



Mobile Tester



# OUR BUSINESS

Automotive Tester



Active Alignment



Rotation Calibration



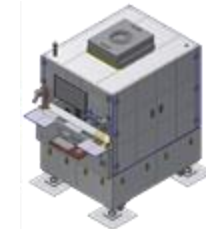
Intrinsic Parameter Calibration



Shading Tester

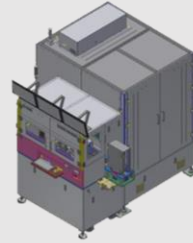


Blind spot of View Monitor Tester

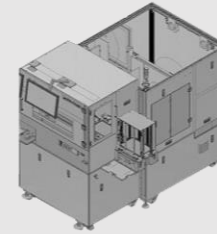


EOL Tester

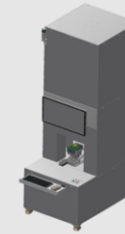
# OUR BUSINESS



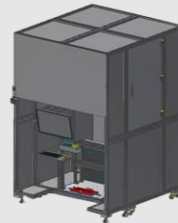
TOFTX  
Tester



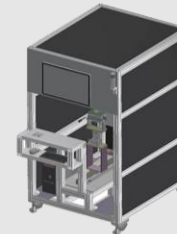
TOFRX  
Tester



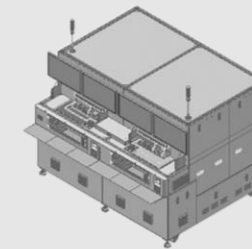
Cat Tree  
Calibration



Global  
Offset



Validation  
Tester



RGB  
Calibration



# OUR BUSINESS



Active  
Alignment



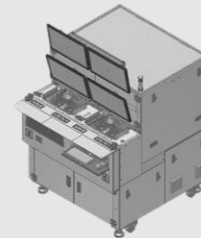
Focus  
Tester



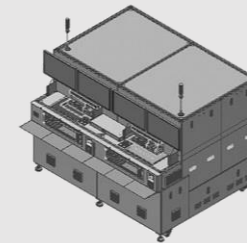
PDAF  
Calibration



Color  
Calibration



OIS  
Calibration

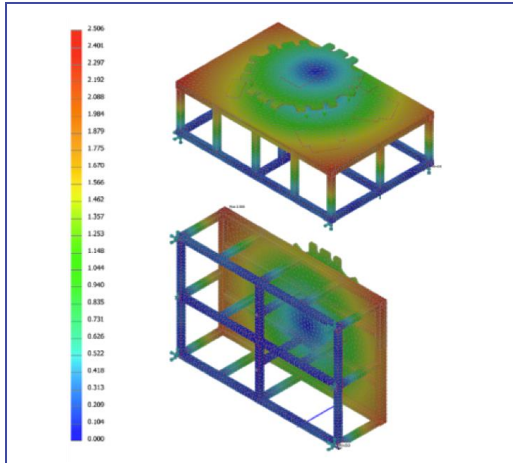


Final  
Tester



# COMPETITIVE TECHNOLOGY

## In-House Technologies for



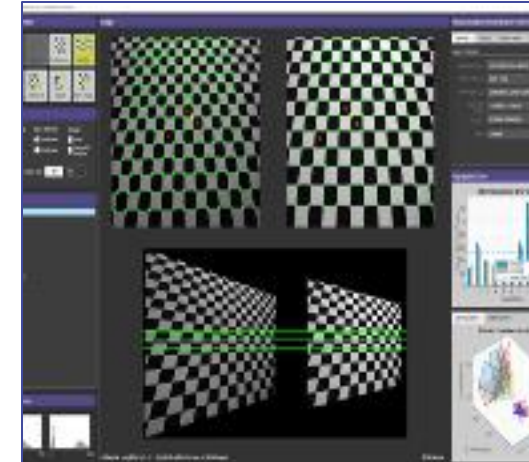
### Design Precision

Provide precise mechanical repeatability and alignment verification



### Grabber KIT

Support up to 190M pixel interface and reliable electrical measurement

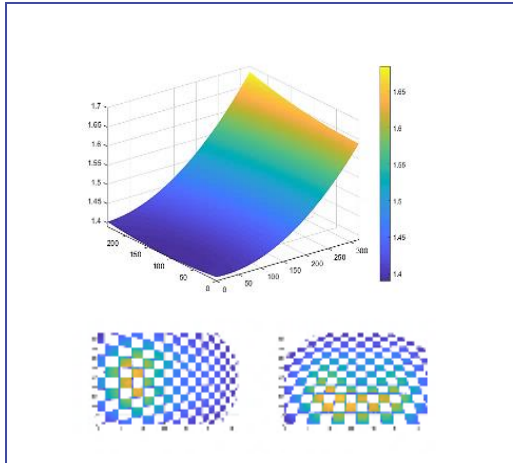


### Test Algorithms

Support test items and calibration method (SFR, DPC, Color Cal., Intrinsic Cal., etc)

# COMPETITIVE TECHNOLOGY

## In-House Technologies for



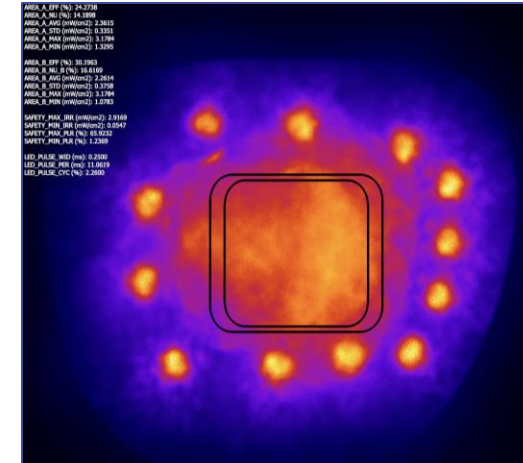
### ToF Camera

Post CEC and GEC process and precisely aligned Real Distance Validation Booth supporting 10cm~10M



### Automotive Camera

Specially developed optical SFR projectors that support Wide FOV Cameras



### VR/AR Camera

NiST traceable measurement system for Eye-tracking module validated by key AR/VR player

# AUTOMOTIVE CAMERA CORE TECHNOLOGY

## Active Align

Automotive Camera  
Active Align (2016-)



## Super Wide Angle

Target Projector  
isTCL® & isCrown®



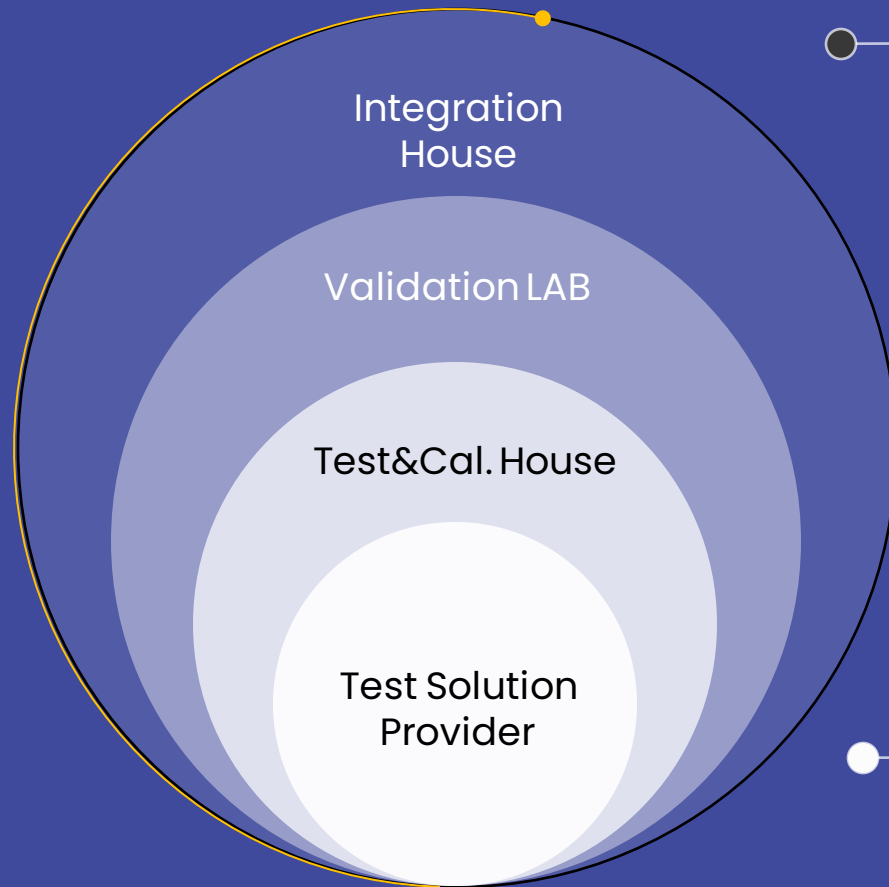
## Distortion

Distortion & Intrinsic  
Calibration





# ROADMAP



## ● — **Step. 4 / Sensing Module Integration House**

Core Optics will continue its efforts to build trust with customers and strive to become a total solution provider.

## ● — **Step. 3 / Sensing Module Validation LAB**

Based on the experience accumulated in the industry Core Optics aims to establish itself as a reputable Test Lab for sensing modules.

## ● — **Step. 2 / CCM Test& Calibration House**

Core Optics has been nominated by Sony to be their authorized Calibration House

## ● — **Step. 1 / CCM Test Solution Provider**

Core Optics has been at the forefront of introducing and supplying camera test solutions to the industry for over 20 years.

# Company Synergies

## Endurion

- Automotive & Electric Vehicles
- eVTOL
- Battery testing equipment

## C-Space

- Photonics
- Lidar



# **Management & Board of Directors**

# New Board Member Bios



## Dr. Seonkee Kim

A distinguished professional, his career commenced at Korea Electric Power Technology Co., Ltd., delving into research. His journey then transitioned to a major securities firm, where he contributed to international investment endeavors. Seeking further expertise, he advanced his education in finance.

His leadership qualities shone as he headed a leading financial engineering company. Beyond his finance-centric roles, he also chaired investment firm, guiding strategic investment decisions in the technology sector. His role expanded beyond mere investment; he took the helm as CEO at several companies, spanning sectors like batteries, software, and camera modules.

Currently, he is at the forefront of establishing a gigafactory in the U.S., dedicating his efforts to pioneering energy solutions. He studied MA in economics from Seoul National University and Ph.D. in finance from Stern School for Business.



## Mihn Le

A seasoned executive and entrepreneur with over 25 years of experience in strategy, technology, and real estate development. His career highlights include leading roles at Accenture – managing \$500 million in business development, and at DoD, overseeing significant defense and aerospace projects. As a CEO of DSTG, he drove US\$10M in business, focusing on big data analytics. As a COO at Cogility, Inc, he managed operations and federal engagements. His tenure at ExxonMobil covered market trading and IT management. Currently, he is a Managing Partner at 22 Capital Partners, with focus on renewable energy and smart city technologies, that includes leading Gramercy District, LLC, a "smart city" development in Virginia. Le holds an MBA from Georgetown University and a BS in Computer Science from the University of Maryland.



# New Board Member Bios



## Birge Watkins

A diverse leadership background spanning businesses, governments, and nonprofits. He is the Chair of the Advisory Board of ZaiCell Inc, a Senior Advisor to Landmark Atlantic Holdings, and an advisor to Virterras Materials US LLC. He also plays an active role in conservation and community organizations, including the Land Trust of Virginia and the Fauquier Parks Foundation. In the past, he has held significant positions in real estate, financial services, and software companies. Due to his economic and policy expertise, he has served not only in The White House but also in the local councils in Virginia. His academic credentials include an MBA from the London Business School and an MPA from Harvard University.



## David Lee

He has a distinguished career with over 30 years in brand management, marketing, and operations, remarkably leading Sleet & Company, LA as the President since 2015. He has contributed significantly to the food and beverage sector, focused on enhancing strategic partnerships and investor relations. As President of Wireless Republic L.L.C, he extensively managed retail operations across multiple states, thereby improving performance through data analysis and team development. Within real estate, he drove development and team building as he led United Brokers L.L.C. His design background from Parsons School of Design and a Master's in Costume History from NYU has enriched his innovative leadership approach across diverse sectors.



# New Board Member Bios



## **Roberto H. Kim**

He has a robust career in finance and consulting, focusing on growth capital for emerging companies based out of East Asia. With over a decade of experience, he is adept at private capital, IPOs, and M&A. He facilitates transactions in various industries, manages large equity deals and specializes in financial strategies. Recently, he is focused on battery storage. He holds a B.S. from Hanyang University.





**Endurion**

# Endurion Update

- 2023 Achievements & Performance
- Intellectual Property
- Partners
- 2024 Priorities

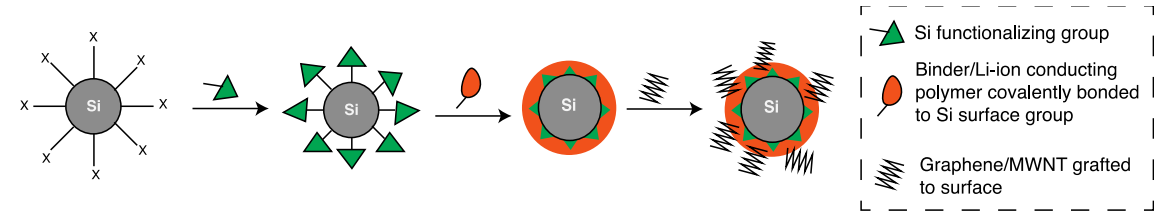




# 2023 Achievements

## Rapid Battery Evolution in 12 Months

- Proof of concept
- Artificial SEI strategy provisional patent filed
- Battery lab setup, staffing, data management
- Initial scientific progress
  - Synthesis
  - Screening of materials in half-cell formations
  - Strong performance of Endurion Si-Anode
- Transition to full-cell batteries
  - Handful of anode variations
  - 2 of the most widely used cathode materials: LFP and NMC
  - **Cycling stability achieved over 500 cycles**



### Endurion Value Proposition

Silicon-anode lithium-ion batteries have the potential to hold **10 times** the amount of lithium compared with the traditional graphite anode.



# Intellectual Property

# Intellectual Property - SEI Strategies

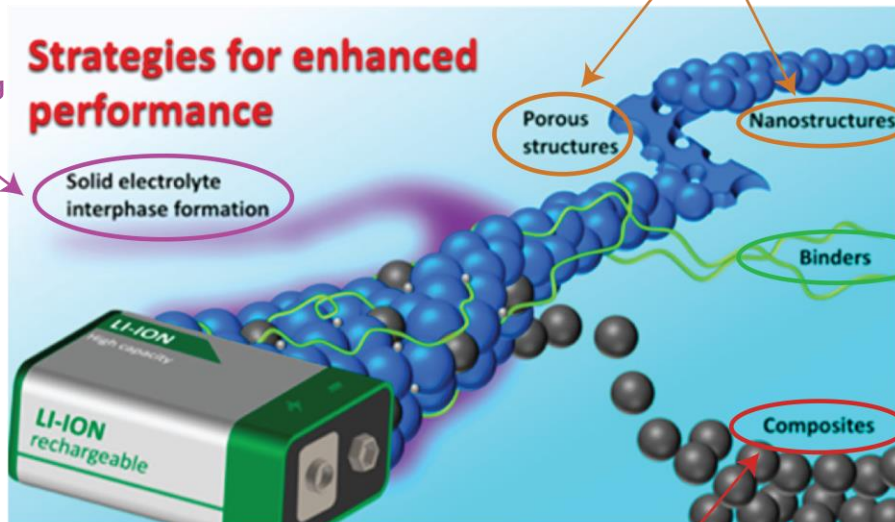
**Provisional filed May 1, 2023:  
Novel artificial SEI strategies**

## Patent support achievements

- Variations for broad coverage of invention
- Secured consistent data to support
- Market applications clearly understood
- Follow on patent(s) underway

Porosity and designed nanostructured materials allows improved electrolyte transport and more ideal mechanical properties

Engineered control:  
Artificial SEI improves  
cycle life and charging  
times



**Strategies for enhanced performance**

Solid electrolyte interphase formation

Porous structures

Nanostructures

Binders

Composites

Built-in to artificial SEI:  
Higher energy density and  
improved Li-ion conduction

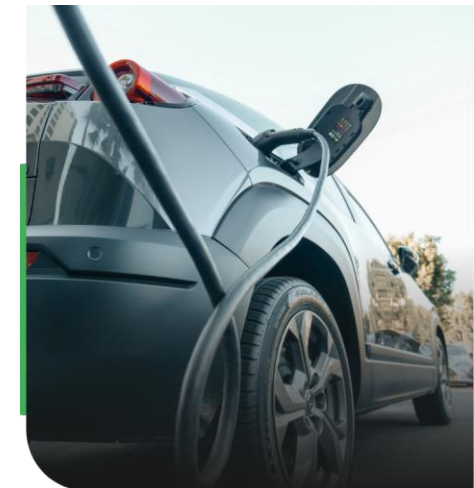
Designed active material and additives give 3D structured electrodes for optimal battery characteristics

**Full Utility Patent  
to be filed prior to  
May 1, 2024**

# Partnerships

# Partnerships

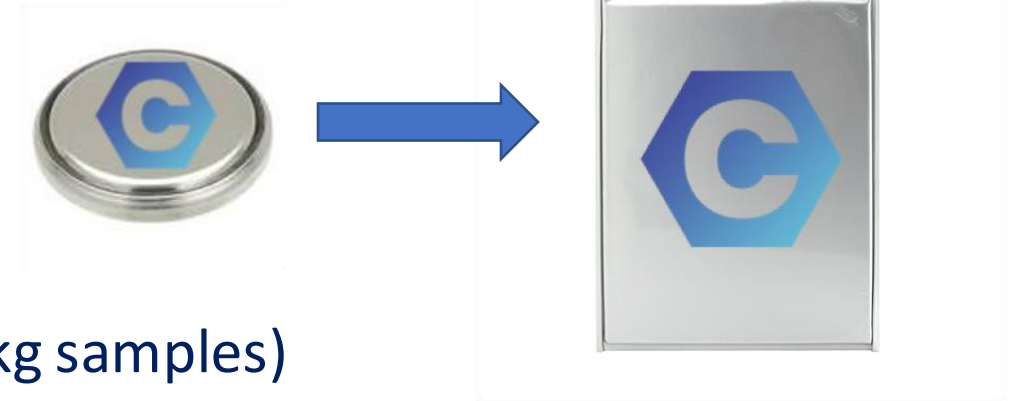
- Military, EV, Aerospace
- Key relationships covered under NDAs
- Joint Development Agreements (JDAs)
- Material Evaluation Agreements (MEAs)
- Request for material



# 2024 Priorities

# 2024 Priorities

- Increased lab space
- Advance to pouch cell formations
- Scale up anode material synthesis capabilities (kg samples)
- Fulfill partner(s) request for material
- Secure development funding
- Minimum target of 1 Ah pouch cells, > 350 Wh/Kg



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