探索世界，感知无限
Explore The World, Sensing Infinity

吴晓东
Senior VP of OmniVision Group
Image Sensor is with us any time anywhere
Consistent Focus on Key Dynamic Markets

Mobile  Automotive  Security  IoT/Emerging  Computing  Medical
Mobile Imaging Applications

Market Trends

- Multi-Camera: Zoom / Ultra-wide / Micro / Bokeh
- High performance: Still image, 8K/4K Video, High Speed / Slo-motion
- Fast AF, HDR
- Multi-Pixel Binning: Higher res, Better sensitivity, On-chip Remosaic
- Smaller Pixel: 1.0 µm... 0.8 µm... 0.7 µm... 0.6 µm...
- Multi-Frame imaging process
- Depth Camera / Face ID, Eye Tracking / Gesture, NIR application
- AI process / Always-on: Low power always-on, Object / Scene detection, Machine learning image processing...
- HDR, Auto IQ setting / Synthetic Bokeh / HDR, Augmented imaging... AR emojis, Neural sensor network/array
- Under the Display: Camera, FingerPrint

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车载应用 — Automotive


1  1  1~3  1  1~3
2  4  2  2  
3  3  3  

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Secured World, Everywhere!

Surveillance

- Modular camera
- Fixed bullet camera
- Fixed dome camera
- Fixed box camera
- Panorama camera

Smart Home Security
Key Medical Applications

Market Analysis and Trends

Small size
Cost effective
Disposable

Endoscope
Catheter
Pillcam
Laryngoscope

High res, high IQ
3D images
Camera-based positioning
Endoscopic tools

Robotic surgery
NIR, Chromo, Virtual endoscopy

Reusable endoscope

Clinical Diagnosis
Remote medicine
Food & Drug Analysis

Dental scanner
Dental tools

Dental imaging

Dermatology
Bar code reader
Medical AR

Health monitoring

Veterinarian

Industrial

Other endoscope

Market Analysis and Trends
新豪威 · 新征程
Omnivision Group, New Journey
25 Years of Leadership – Unceasing Quest for Innovations

- **1995**: Company Founded
- **1999**: 1st ASIC
- **2000**: NASDAQ IPO
- **2002**: 1st CIS for Mobile
- **2004**: Company Founded
- **2005**: 1st CIS for Mobile
- **2007**: Company Founded
- **2007**: OVP Power Management MP
- **2008**: MOSFET MP
- **2008**: 1st CIS for Auto 1st WLO
- **2009**: OmniBSI™ Architecture 1st CIS for Security
- **2009**: Analog Switches MP
- **2010**: 1st LCOS
- **2012**: 1st CIS for Medical
- **2014**: 1st Global Shutter
- **2014**: RF IC MP
- **2015**: SSE New OTC IPO
- **2016**: Company Privatization
- **2017**: Nyxel® Technology Launched
- **2017**: MEMS MIC MP
- **2018**: DC-DC MP
- **2018**: 9.5 Billion Sensors Shipped
- **2019**: Awarded Guinness World Record
- **2019**: OmniVision Group
- **2019**: Shanghai Exchange (Ticker Symbol: 603501)

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OmniVision Group – Our Continuing Mission and Vision

To Enable Sensing Possibilities with Intelligent and Reliable Solutions

Unchanged Commitment to Fervent Implementation of Quality Control Strategy for Industry’s Highest Quality and Reliability
- IATF 16949: 2016
- ISO 9001: 2015

Steadfastly Aggressive Investments in R&D and Engineering Globally
- US
- JAPAN
- EUROPE
- CHINA
- SINGAPORE

Enhanced Strategic Relationships with Top Tier Supply Chain Partners
- Balanced supply chain for leadership and high volume portfolios
- Multiple foundries and packaging houses globally
- Expanded supply chain capacity
Expanded Global R&D Investment – Increasing Customer Value

扩大全球研发投入，增强科技创新原动力
Three Legacies of Innovation, One Combined Global Resource

Key Market Competencies

- Greater Economies of Scale
- Synergistic Portfolios for Solutions
- Broader Market Applications
- R&D Cross-pollination
- Expanded Manufacturing Capacity

Sister Companies Synergistic Portfolios

- Combined Market Intelligence
- Accelerated Emerging Application Incubation
- New Technology Acquisitions

Imaging Portfolio

- 25 Years of Global CMOS Imaging Leadership
- Mature Solutions for Six Major Market Segments
- Award-winning Technology Innovations
- Worldwide Eco-system Partnerships
- Proven Track Record of Customer Success

OmniVision Technologies

OmniVision Group

Future

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Continuously Enhanced Portfolio

Newly Added

TDDI

Image Sensor

ASIC

Finger Print

Analog IC

Discrete Component

EVS

RF Device

LCOS

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Leverage Synergy Across Segments

Sub-micron Pixel Increase Sensitivity

RCCB  4-cell

Global Shutter Smear/ Distortion Free Capture

Nyxel™ Enhancing NIR QE

Non-Bayer CF 4-Cell HDR GS Nyxel

Security

Auto

Split-pixel/DCG HDR Imaging

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New Height of Innovation

**OV48C**
1.2um DCG Sensor

**OV64B**
World 1st 0.7um 64M Sensor

To be launched with Mainstream Platform of Top Mobile Brand in Sep.
New Height of Innovation

**OX08B**
World’s 1st 8.3MP LFM+HDR Platform

**OA7600**
Low power, always on
Technology Fights COVID-19

Medical Sensors

Saving Millions Life Against Diseases

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Thank You

感谢有你 · 不断前行