



**Sunny Optical Technology (Group) Company Limited**

**舜宇光学科技 (集团) 有限公司**

*(Incorporated in the Cayman Islands with limited liability)*

*(Stock Code: 2382.HK)*

# 2021 Interim Results Corporate Presentation

August 2021



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# Agenda

- 1** Financial Highlights
- 2** Operation Review
- 3** Outlook
- 4** Appendix



**Financial Highlights**



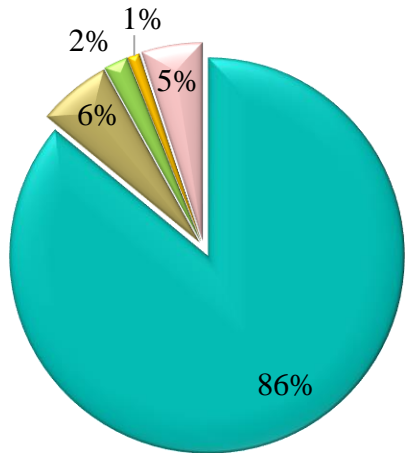
	1H20	1H21	Change
<i>(RMB mn)</i>			
<b>Revenue</b>	18,863.8	<b>19,833.4</b>	+5.1%
<b>Gross Profit</b>	3,676.3	<b>4,946.4</b>	+34.5%
<b>Profit Before Tax</b>	2,123.4	<b>3,229.0</b>	+52.1%
<b>Income Tax Expense</b>	(347.3)	<b>(522.3)</b>	+50.4%
<b>Effective Tax Rate (%)</b>	16.4	<b>16.2</b>	-0.2ppt
<b>Profit for the Period Attributable to Owners of the Company</b>	1,749.0	<b>2,688.0</b>	+53.7%
<b>Earnings per Share – Basic</b> <i>(RMB cents)</i>	159.8	<b>245.9</b>	+53.9%

	1H19		1H20		1H21	
<i>(RMB mn)</i>		<i>(as % of revenue)</i>		<i>(as % of revenue)</i>		<i>(as % of revenue)</i>
<b>Revenue</b>	15,574.9	100.0%	18,863.8	100.0%	<b>19,833.4</b>	100.0%
<b>Total Operating Expenses</b>	1,214.7	7.8%	1,537.4	8.2%	<b>1,853.5</b>	9.4%
• <b>Selling and Distribution Expenses</b>	130.8	0.8%	136.0	0.7%	<b>155.5</b>	0.8%
• <b>R&amp;D Expenditure</b>	826.5	5.3%	1,068.0	5.7%	<b>1,320.8</b>	6.7%
• <b>Administration Expenses</b>	257.4	1.7%	333.4	1.8%	<b>377.2</b>	1.9%

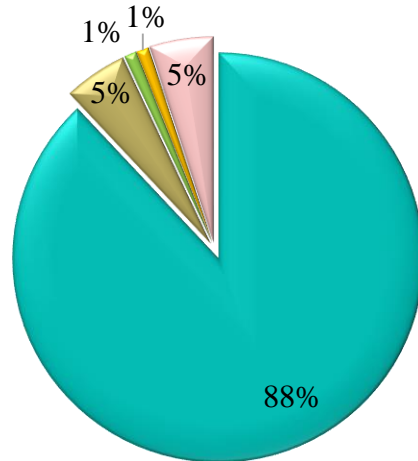


	1H19	1H20	1H21
<b>Current Ratio</b> ( <i>Times</i> )	1.8	1.8	<b>2.1</b>
<b>Operating Cash Inflow</b> ( <i>RMB mn</i> )	1,158.4	2,003.9	<b>2,395.9</b>
<b>Cash and Cash Equivalents</b> ( <i>RMB mn</i> )	6,084.2	7,516.7	<b>11,872.9</b>
• <b>Pledged Bank Deposits</b> ( <i>RMB mn</i> )	12.2	3.8	<b>4.7</b>
• <b>Financial Assets at Fair Value through Profit or Loss</b> ( <i>RMB mn</i> )	4,439.1	5,702.4	<b>8,420.2</b>
• <b>Bank Balances and Cash</b> ( <i>RMB mn</i> )	1,632.9	1,810.5	<b>3,448.0</b>
<b>Net Cash per Share</b> ( <i>RMB cents</i> )	80.5	122.8	<b>534.5</b>
<b>Gearing Ratio</b> (%)	20.4	19.9	<b>16.4</b>
<b>ROE</b> (%)	14.1	13.0	<b>14.6</b>
<b>Capital Expenditure</b> ( <i>RMB mn</i> )	1,188.8	1,526.7	<b>1,061.3</b>

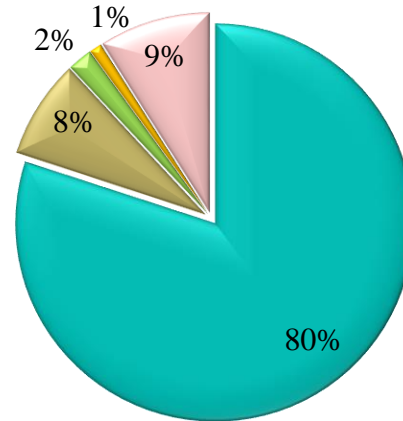
## Revenue Breakdown by Product Applications



1H19



1H20

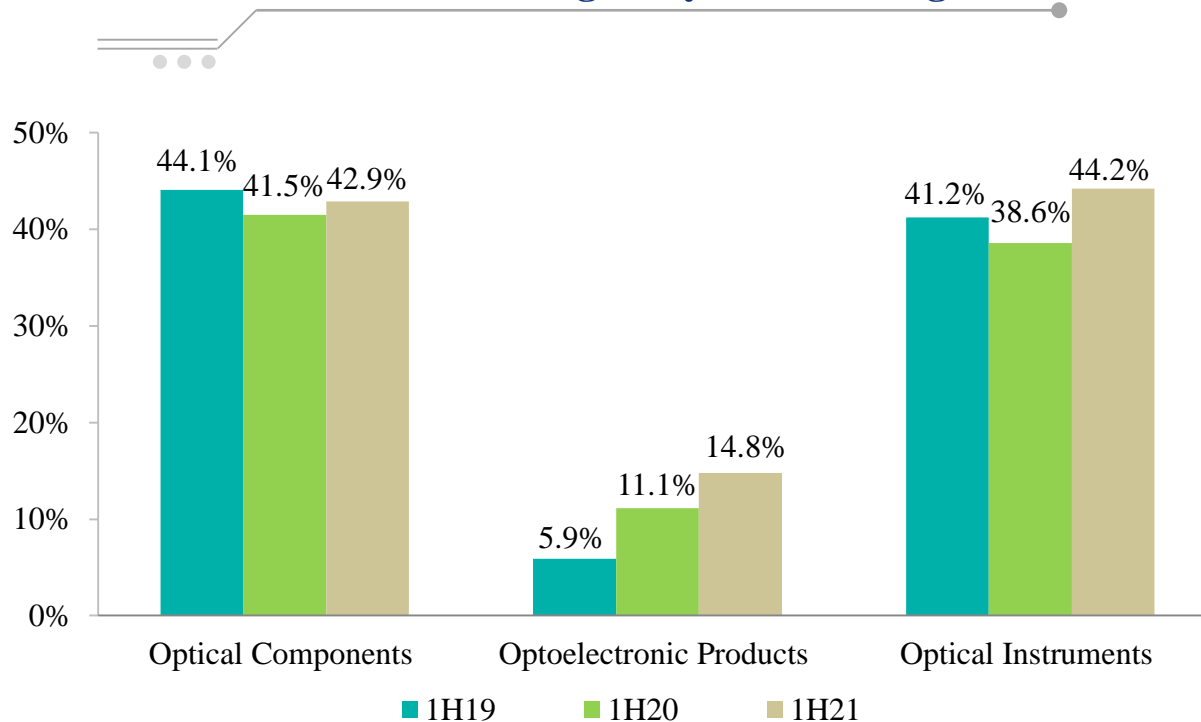


1H21

- Handset Related Products
- Vehicle Related Products
- Digital Camera Related Products
- Optical Instruments
- Other Products



## Gross Profit Margins by Business Segments





# Operation Review

## R&D Completed

## Mass Production Achieved



Smartphone  
Related

Lens sets with tunable curvature lenses  
support rapid focus with small size

Ultra-wide angle lens sets  
view angle > 140°

Hybrid (GM+P) large image size lens sets  
for main cameras

3mm ultra-macro shooting lens sets  
ultra macro-shooting effect similar as microscope

10X periscope telephoto lens sets with  
pure-plastic lenses  
the first one in the industry



Vehicle  
Related

8M autonomous driving lens sets  
apply to NVIDIA platform

5M hybrid in-cabin lens sets  
achieve monitoring drivers and passengers  
simultaneously

Core optical engines for  
holographic AR HUD

### Optical Components



LiDAR transmitter and receiver  
modules

LiDAR optical windows

LiDAR rotating polygonal prisms



Other  
Applications

AR color waveguides

VR optical modules  
improve distortion and chromatic aberration

## R&D Completed

## Mass Production Achieved



Smartphone  
Related

**Camera modules with tunable curvature lenses**  
replace the traditional VCM and achieve rapid focus

**3X~8X continuous zoom camera modules**  
image stabilization at all focal lengths

**Dual OIS camera modules**  
GM+P, better shooting quality in low light

**In-depth visual ranging modules**  
realize 3D & 2D combination with ToF  
+ RGB modules

**Miniaturised exterior viewing modules**  
improve performance and save cost



Other  
Applications

**ToF/structured light modules with vivo  
detection algorithm**  
achieved breakthroughs in the application scenario of  
witness comparison

### Optoelectronic Products



**10X optical zoom periscope camera modules**  
entered into the most high-end flagship model supply  
chain of a Korean customer for the first time

**Gimbal stabilization camera modules with  
ultra-wide angle**  
using MOC II

**Free-form camera modules**  
ultra-wide angle & low distortion

**8M front-view sensing modules**  
the first one in the industry

**DMS modules & OMS modules**  
achieved mass production for several  
domestic and overseas famous customers

**AR/VR visual modules**  
industry-leading market share, serving a famous  
customer as a core supplier

**3D ToF modules + SDK**  
entered into major sweeping robots customers, several  
projects achieved mass production

## R&D Completed



### Intelligent Equipment

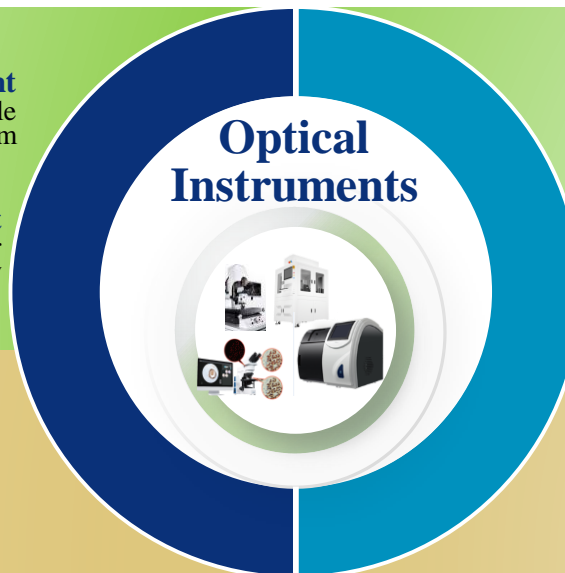
**Prism appearance inspection equipment**  
the first one in the industry with a highly flexible inspection optical system and software algorithm

**Vehicle plane glass inspection equipment**  
industry-leading with high-speed linear scanning and image processing technology



### Microscope

**Objective lenses of SAPO series**  
the largest numerical aperture and achromatic correction range in China



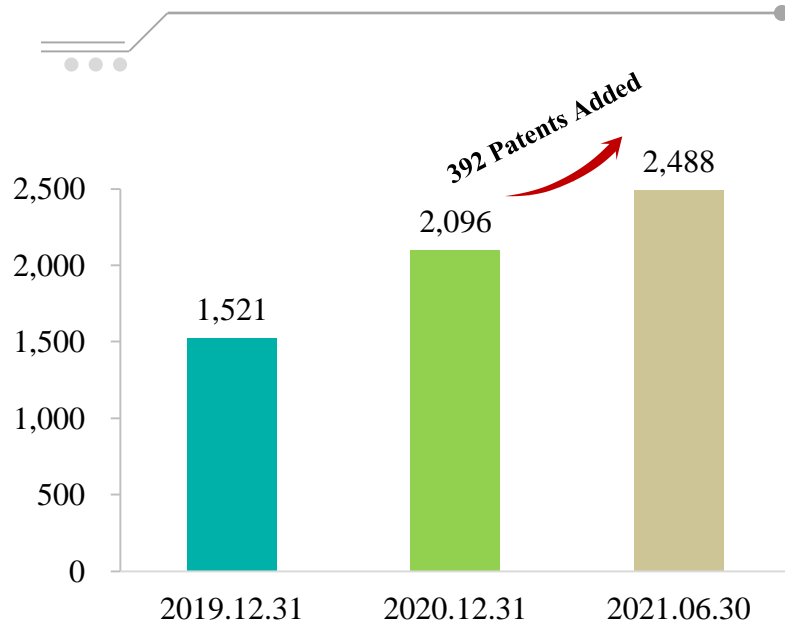
## Mass Production Achieved

**Wafer fragment inspection equipment**  
used for inspection of optical filters on the wafer, industry-leading in picking and placing objects, identifying and sorting defective pieces automatically, etc.

**Real-time focusing microscopic system**  
used for graphic inspection of semiconductor former manufacturing process, realize import substitution and break foreign monopoly

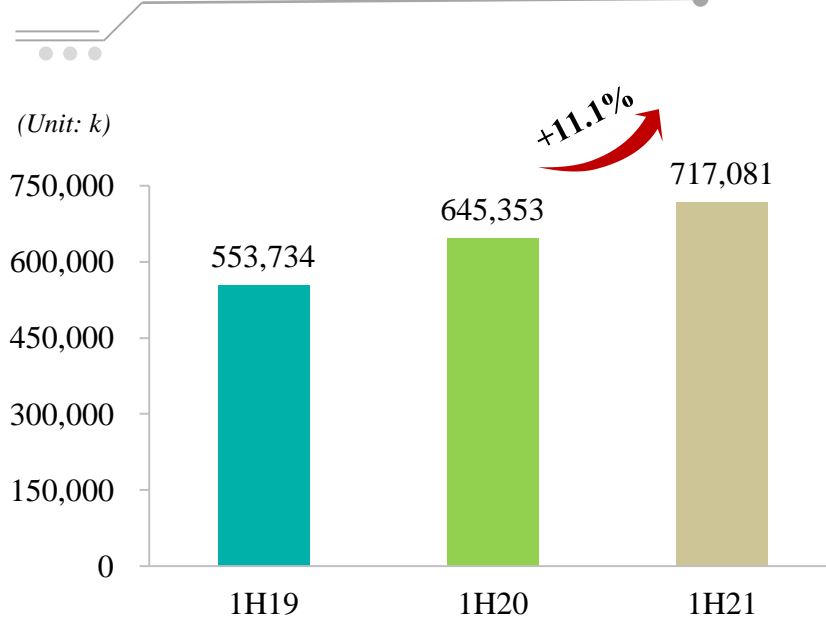
**Upright near-infrared region-II motorized fluorescence microscope in vivo imaging system**  
industry-leading in large field scanning jigsaw puzzle and z-axis layer scanning

## Number of Authorized Patents

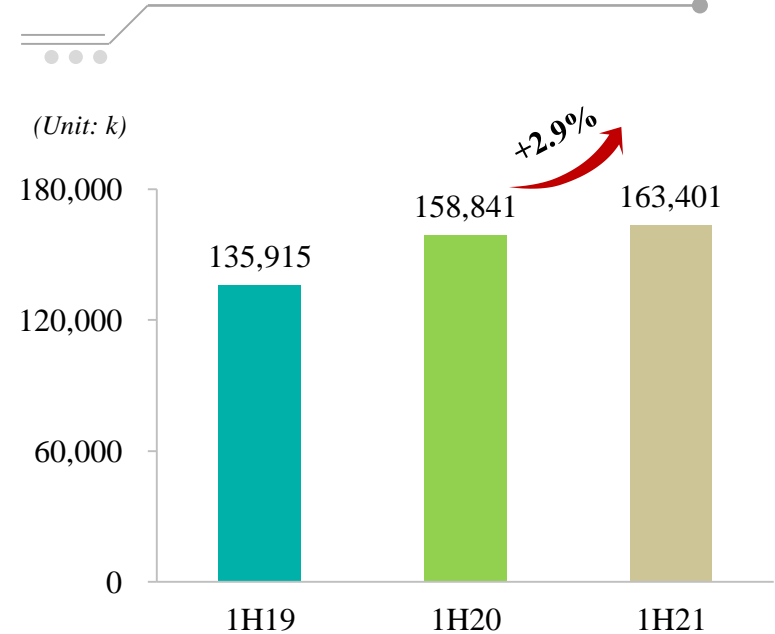


- ◆ Equipped with professional management team, actively layout independent intellectual property rights
- ◆ In the first half of 2021, 392 new authorized patents were added, including 185 invention patents
- ◆ As at 30 June 2021, 3,612 patents are pending approval, mainly related to the fields of smartphone, vehicle imaging and sensing systems, AR/VR, robot vision and other fields

### Shipment Volume of the Company's Handset Lens Sets

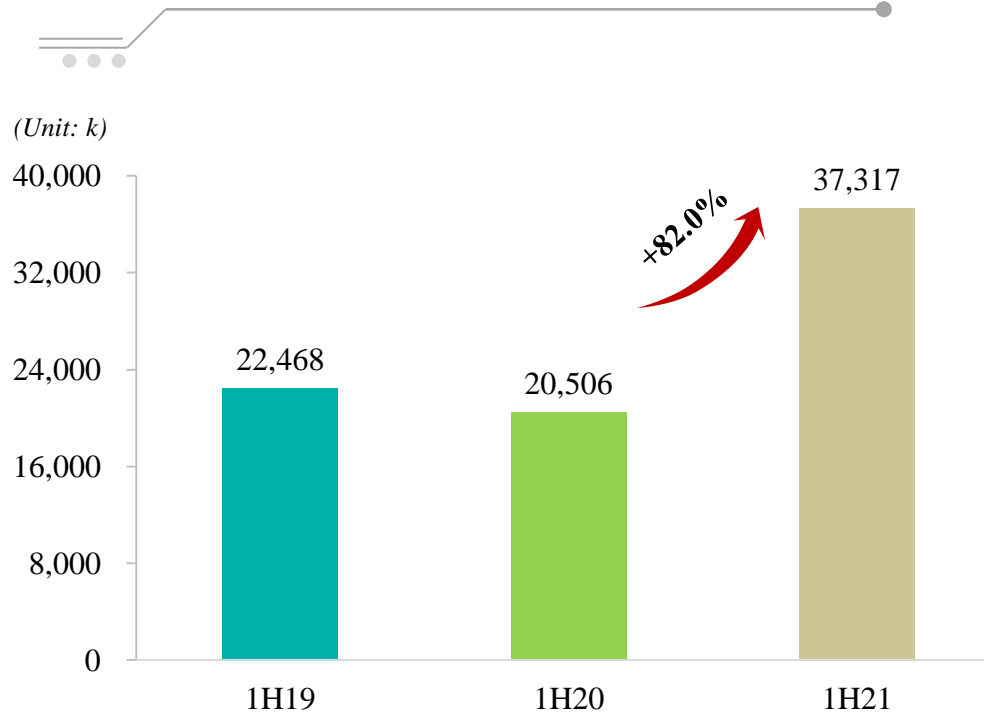


### Shipment Volume of the Company's 6P and above Handset Lens Sets

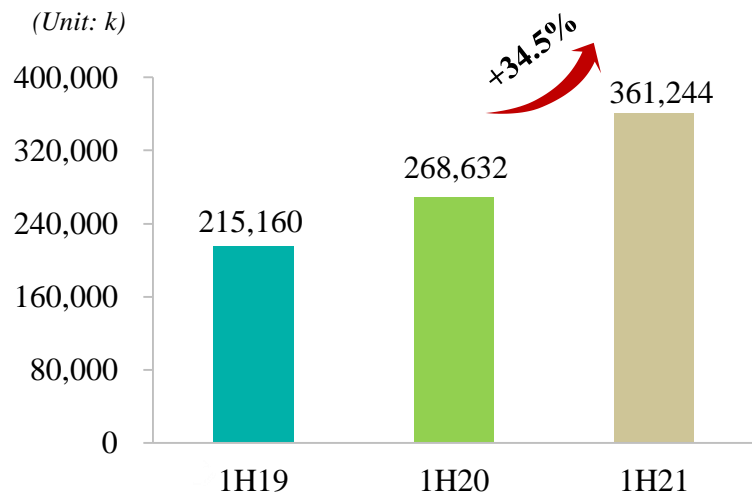




## Shipment Volume of the Company's Vehicle Lens Sets

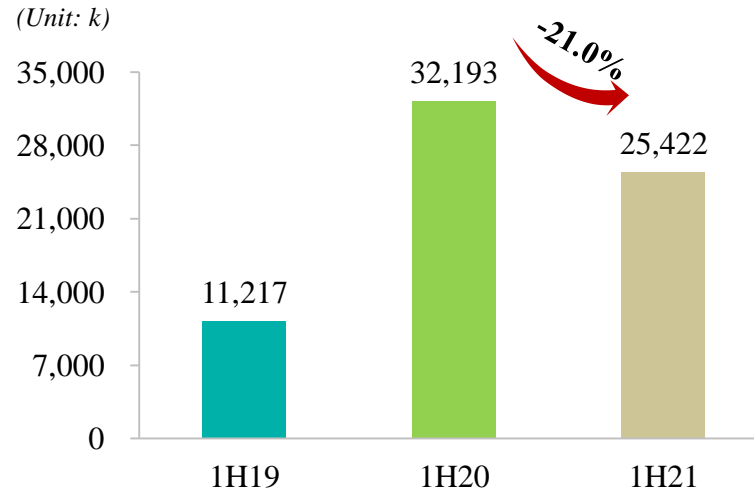


## Shipment Volume of the Company's Handset Camera Modules



## Total Shipment Volume of the Company's Periscope Modules and Large Image Size Modules

\* Large image size modules refer to modules with 1/1.7" and above image size



# Global Layout

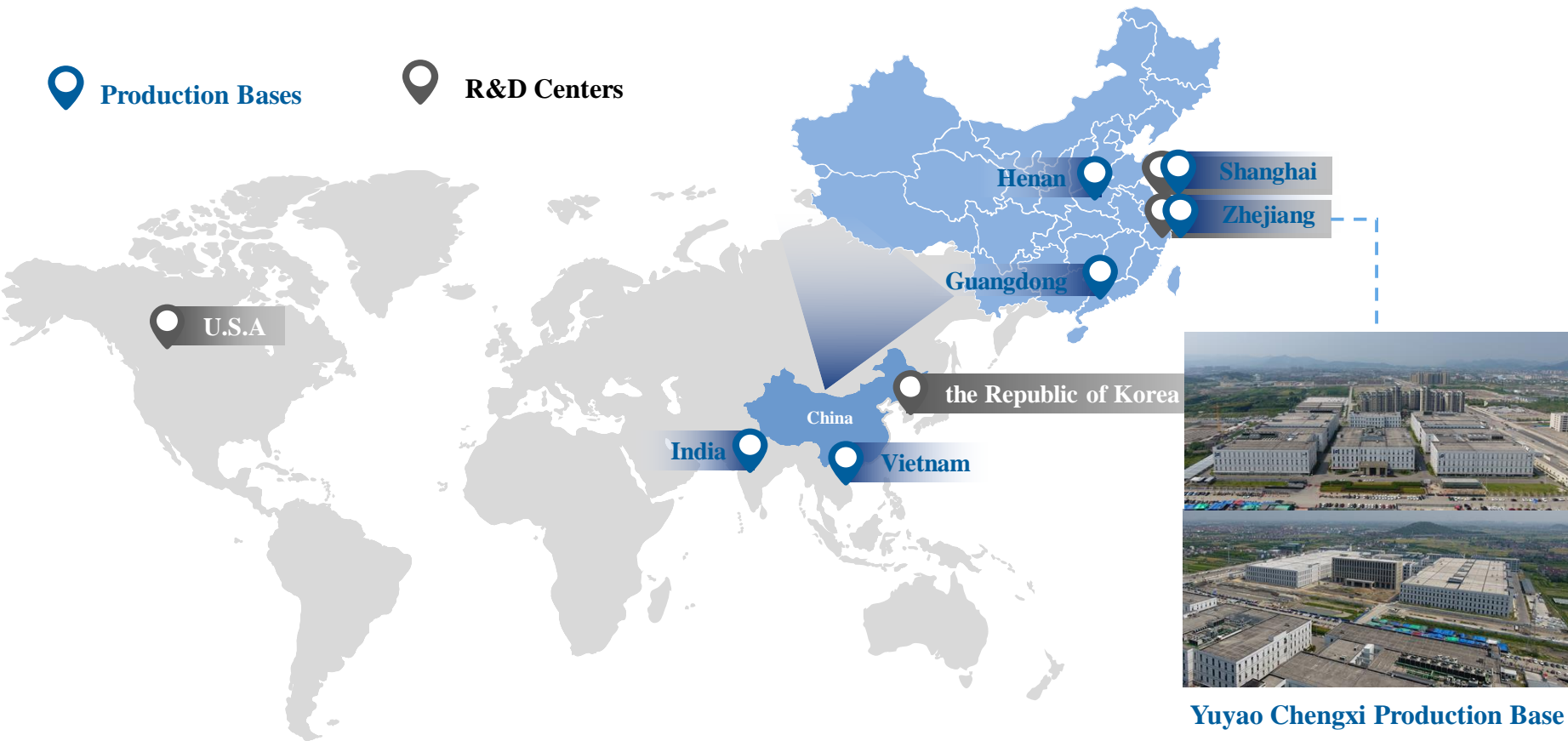
## Enhance Large-scale High-end Manufacturing Capabilities



Production Bases



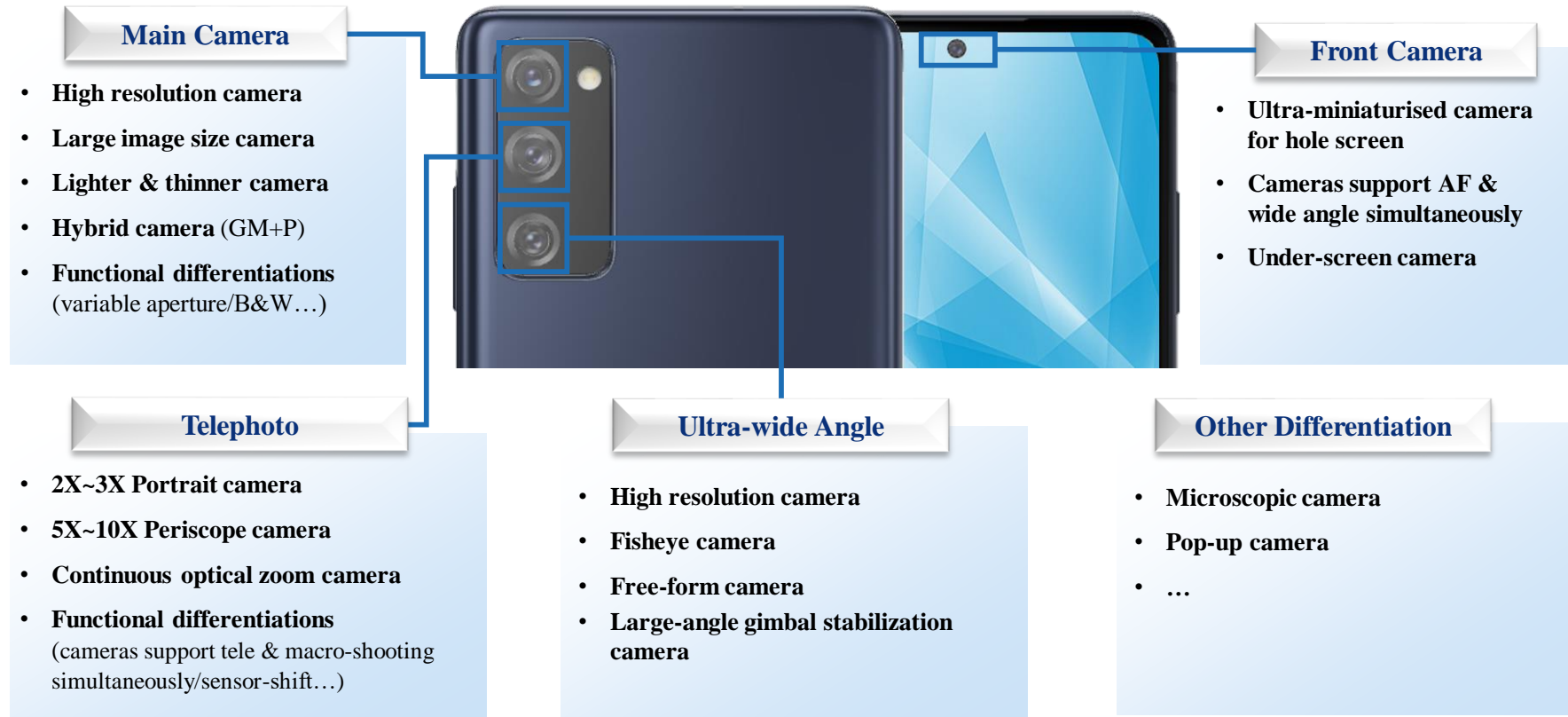
R&D Centers



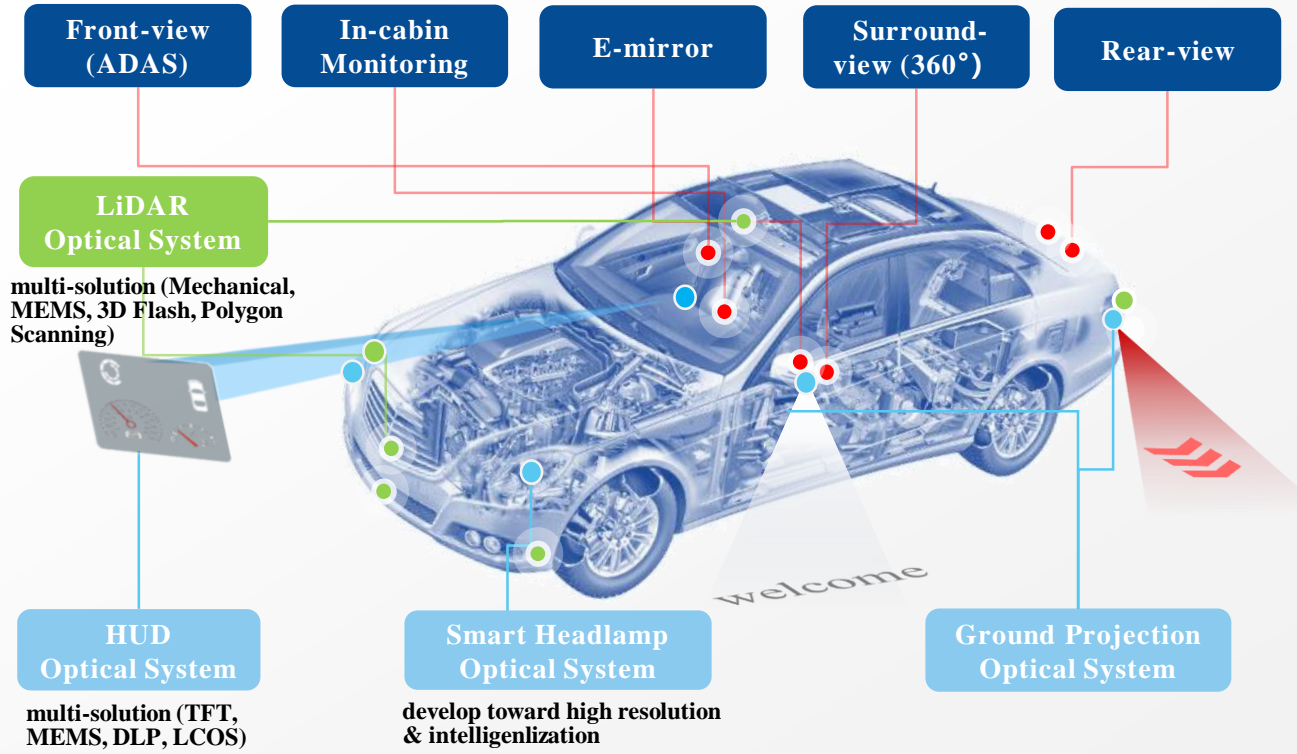
Yuyao Chengxi Production Base



# Outlook



# Rapid Progress of Autonomous Driving Huge Potential in Optical Applications



## ● Vehicle Cameras Related:



Vehicle Lens Sets

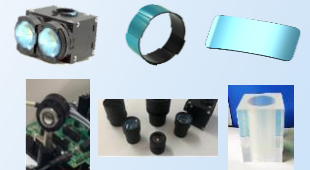
Vehicle Modules

## ● Display Related:



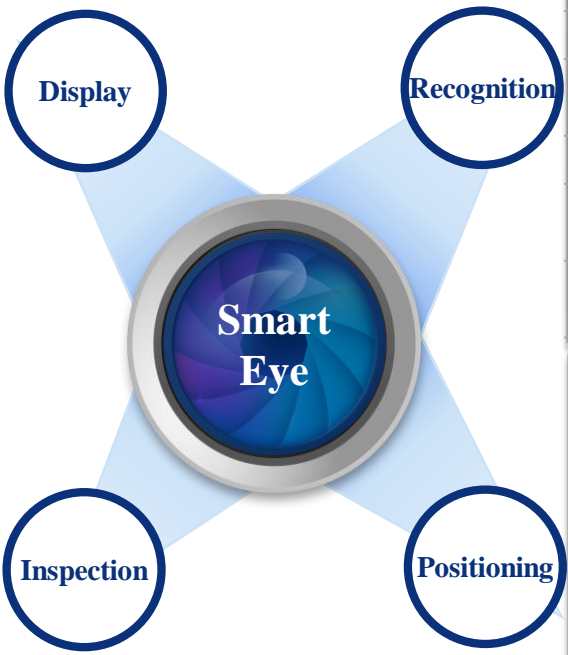
HUD / Smart Headlamp Optical Solutions  
(including PGU, key optical components)

## ● LiDAR Related:



LiDAR Optical Solutions  
(including optical components, optical engine modules, etc.)





Object Recognition
Facial Recognition
Gesture Recognition
Eyeball Tracking
Attitude Recognition
Facial Expression Recognition
Obstacle Avoidance
Scene Rebuilding
Map-building Navigation

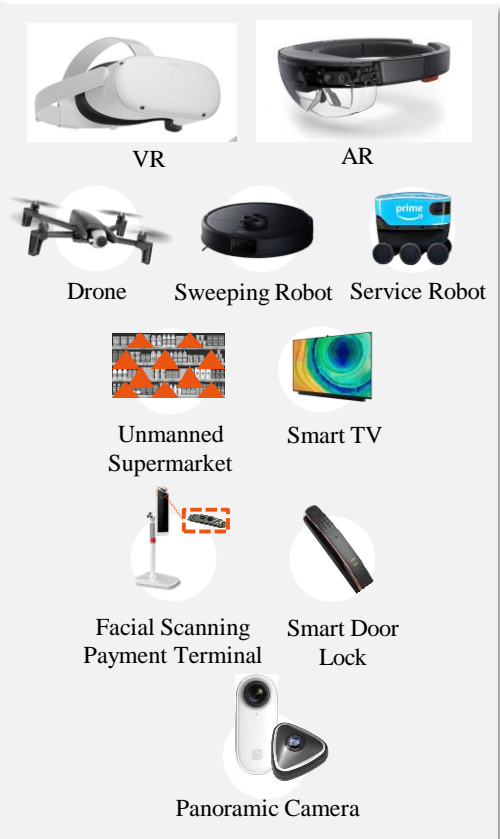
**Module**



**Module combined with SDK**



**Camera**

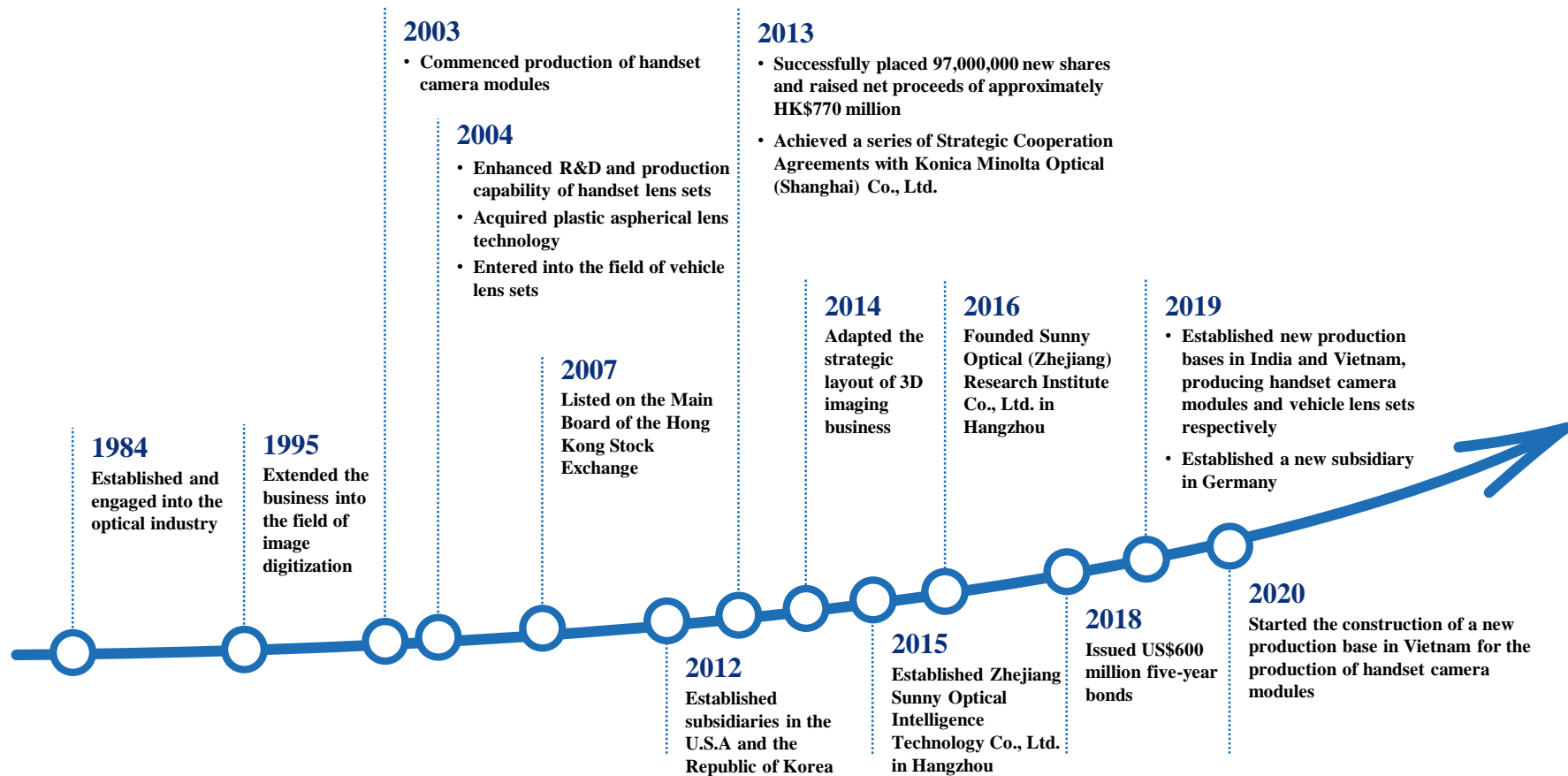



- VR
- AR
- Drone
- Sweeping Robot
- Service Robot
- Unmanned Supermarket
- Smart TV
- Facial Scanning Payment Terminal
- Smart Door Lock
- Panoramic Camera

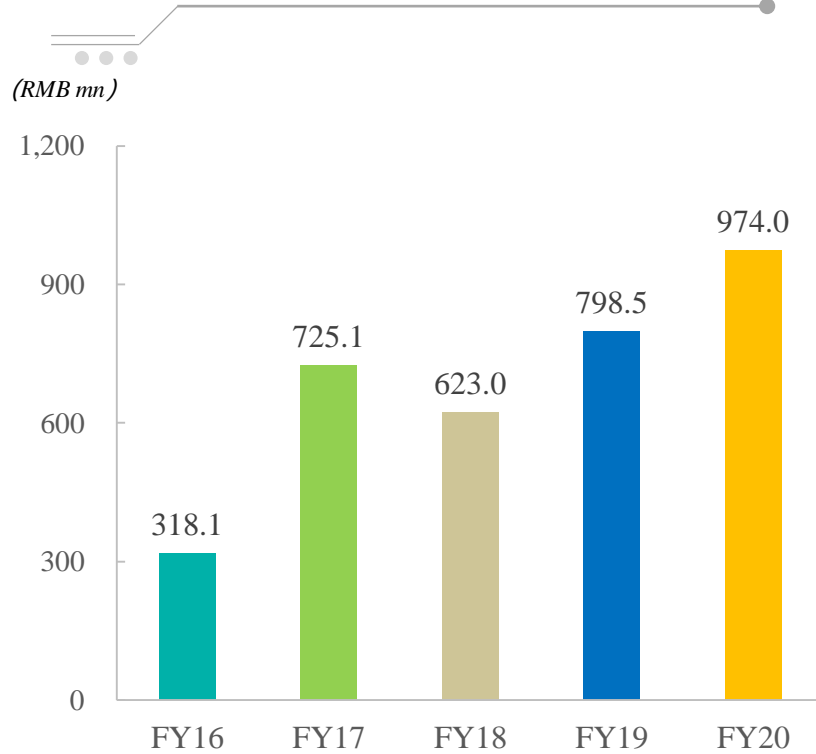




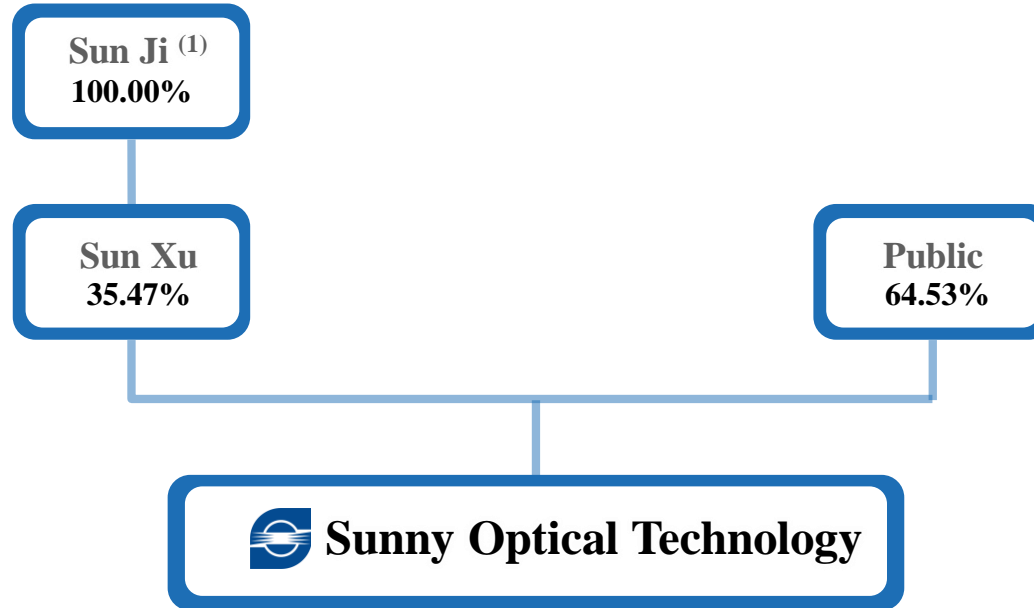
# Appendix



## Dividends



*For the year ended 31 December*



(1) The Sunny Group Employee Offshore Trust is a trust which holds the entire issued share capital of Sun Ji Limited. Mr. Wang Wenjian, together with TMF Trust (HK) Limited, is one of the two trustees and one of the beneficiaries of the Sunny Group Employee Offshore Trust.

\* As at June 30, 2021

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