CMB International Global Markets | Equity Research | Company Update

# Sunny Optical (2382 HK)

# **CEO transition announced, Remain confident** in mgmt. and LT opportunity

Sunny Optical announced that CEO and Executive Director, Mr. Sun Yang has resigned from current roles due to health reasons, and Mr. Wang Wenjie (current Executive Director and Executive Vice President) has been appointed as his successor, effective from 26 Nov 2024. Mr. Wang worked in Sunny for over 35 years since his graduation in 1989. He was appointed as executive director in 2013, and is currently responsible for strategic planning and information management, as well as Sunny Optical Research Institute. Having spoken with the company, we believe the following is relevant: 1) the departure is Mr. Sun's decision, 2) his relationship with the board is good, 3) it is not performance issue, 4) mgmt. expects a seamless transition. Overall, based on our discussions with investors, we do not think the news is being viewed as a major surprise to the market, although we expect near-term volatility in the stock price. We think Mr. Wang is well regarded internally at Sunny and externally by key stakeholders, including customers and major shareholders.

- Mr. Wang Wenjie appointed as CEO. Prior to the CEO role, Mr. Wang is the Executive Director and Executive Vice President of Sunny Optical, and held several leadership positions over his 35-year tenure at the company. Most recently, he is responsible of Sunny's strategic planning and information management, as well as management of Sunny Optical Research Institute. He was elected as the vice chairman of the Chinese Optical Society in 2017, responsible for advancing the development of optical industry in China.
- Mr. Sun Yang to depart after 12 years as CEO. Mr. Sun has been the CEO at Sunny since 2012, and has worked in the company since 2002. During his tenure as CEO, Sunny's revenue grew by 695% from RMB3.98bn in 2012 to RMB31.7bn in 2023, and the stock price increased by 19 times (85x at peak in 2021) during 2012-2024 YTD.
- Company strategy and priorities unchanged. Broadly we do not expect a change in company strategy or priorities as a result of the transition. We believe Mr. Wang is an experienced, effective leader who could continue to lead Sunny on a growth path. Mgmt. remains focused on strengthening industry leadership and technology investment for long-term growth.
- Valuation/Key risks. Maintain BUY with SOTP-based TP of HK\$72.52, implying 24.9x FY25E P/E. Upcoming catalysts include AI phone upgrade cycle, camera spec upgrades and smartphone/AR&VR product launches.

### Earnings Summary

(YE 31 Dec)	FY22A	FY23A	FY24E	FY25E	FY26E
Revenue (RMB mn)	33,197	31,681	39,765	43,167	47,468
YoY growth (%)	(11.5)	(4.6)	25.5	8.6	10.0
Net profit (RMB mn)	2,407.8	1,099.4	2,452.4	2,927.6	3,535.3
YoY growth (%)	(51.8)	(54.3)	123.1	19.4	20.8
EPS (Reported) (RMB)	2.20	1.01	2.25	2.68	3.24
Consensus EPS (RMB)	na	na	2.05	2.60	3.21
P/E (x)	24.9	54.4	24.4	20.4	16.9
P/B (x)	2.7	2.6	2.5	2.3	2.1
Yield (%)	1.7	0.8	1.8	2.1	2.6
ROE (%)	11.2	4.9	10.4	11.6	13.0
Net gearing (%)	(22.6)	(45.5)	(22.6)	(0.4)	(30.0)

Source: Company data, Bloomberg, CMBIGM estimates



### **BUY (Maintain)**

### **Target Price** HK\$72.52 Up/Downside **Current Price**

China Technology

23.1% HK\$58.90

Alex NG (852) 3900 0881 alexng@cmbi.com.hk

Hanging LI lihanqing@cmbi.com.hk

### Stock Data

Mkt Cap (HK\$ mn)	64,613.3
Avg 3 mths t/o (HK\$ mn)	660.8
52w High/Low (HK\$)	75.05/34.45
Total Issued Shares (mn)	1097.0
Source: FactSet	

#### **Shareholding Structure**

Sun Xu Ltd	35.5%
JP Morgan Chase & Co	4.9%
Source: HKEx	

### Share Performance

	Absolute	Relative
1-mth	24.5%	33.9%
3-mth	23.6%	13.7%
6-mth	39.4%	37.1%
Source: FactSet		

### 12-mth Price Performance



Source: FactSet

### **Related Reports:**

1) Gearing up for new growth cycle; Raise TP to HK\$72.52 - 22 Aug 2024 (link)

2) Positive profit alert alleviates GPM concerns; Upgrade to BUY - 22 Jul 2024 (link)

3) CMBI Corp Day takeaways: Positive on high-end upgrade, AI phone, ADAS hybrid lens and AR Glass outlook - 26 Jun 2024 (link)



### Sunny Optical's management profile

### Figure 1: Sunny Optical's management profile (Prior to CEO change)

Name	Age	Joined Since	Position	Experience
Ye Liaoning (叶辽宁)	58	1984	One of founders, Executive Director, Chairman of the Board	Mr. Ye joined Yuyao County Chengbei Optical Instruments Factory in 1984 and became its deputy general manager since 1995. Mr. Ye has obtained a qualification of senior economist issued by the Personnel Bureau of Zhejiang in 2008. Mr. Ye obtained a diploma from Zhejiang Radio & TV University in 1999. Mr. Ye has been an executive Director since May 2007 and is currently a director of various subsidiaries of the Group.
Sun Yang (孙泱)	51	2002	CEO, Executive Director	Mr. Sun graduated from Ningbo University in 1995 with a bachelor's degree in economics. He then obtained a master's degree in economics from Shanghai University of Finance and Economics in 2005. He joined the Group as a chief officer of investment management centre in 2002. He became an executive Director in 2009 and became CEO in 2012. Mr. Sun has obtained a qualification of senior economist issued by the Personnel Bureau of Zhejiang in 2008 and has been awarded a qualification of chief senior economist issued by Zhejiang Province Human Resources and Social Security Department in December 2018.
Wang Wenjie (王文杰)	56	1989	Executive Director, Executive Vice President	Mr. Wang is responsible for the strategic planning and information management of the Group, as well as management of Sunny Optical (Zhejiang) Research Institute. Mr. Wang graduated from Zhejiang University with a bachelor's degree in engineering in 1989 and joined the Group after his graduation in 1989. Mr. Wang has been awarded a qualification of chief senior economist issued by Zhejiang Province Human Resources and Social Security Department in December 2022. He has been an executive Director since December 2013. He was elected as the vice chairman of the Chinese Optical Society in 2017, responsible for advancing the development of optical industry in China.
Dong Kewu (董克武)	55	2012	Vice President	Mr. Dong is responsible for human resource management of the Group. He graduated from Xidian University in 1990 with a bachelor's degree in computer and application and from Fudan University in 2004 with a master's degree in business administration. Prior to joining the Group in February 2012, Mr. Dong worked as a partner and consulting director in a renowned consulting firm.
Ma Jianfeng (马建峰)	51	2010	Vice President, Joint company secretary	Mr. Ma graduated from Xiamen University in July 1995 with a bachelor's degree in economics. Mr. Ma is a certified public accountant of the Chinese Institute of Certified Public Accountants and is a qualified senior accountant in the PRC. Mr. Ma has served as a chief financial officer for Ningbo Bird Co., Ltd. (宁 波波导).
Zhang Guoxian (张国贤)	58	2001	Assistant to President	Mr. Zhang graduated from Yuyao Huancheng High School in 1983 and joined the Group since graduation. He attended the seminar of EMBA in Zhejiang University in 2004-05. He held positions including deputy general manager, executive deputy general manager and general manager of Sunny Zhejiang Optics.
Wong Pui Ling (黄佩玲)	42	2007	Joint company secretary, Senior investor relations director	Ms. Wong has more than 10 years of experience in financial reporting, accounting, auditing and investor relations. She is a qualified accountant and is a member of the Association of Chartered Certified Accountants and the Hong Kong Institute of Certified Public Accountants. She holds a bachelor's degree in business administration from the Chinese University of Hong Kong and a postgraduate diploma in finance and law from the University of Hong Kong.
Qiu Wenwei (裘文伟)	47	1997	General manager of Sunny Automotive Optech.	Mr. Qiu served as the head of R&D department in 2006, and served as the head of vehicle lens sets business unit in 2008. In 2012, he served as the general manager of Sunny Automotive Optech. Mr. Qiu obtained a master's degree in optical engineering from Changchun University of Science and Technology in July 2014.
Zhang Baozhong (张宝忠)	55	1999	General manager of Sunny SmartLead.	Mr. Zhang obtained a bachelor's degree in mechanical manufacture technique and instrument in 1990 and MBA in 2013 from Zhejiang University. He held positions including executive deputy general manager of Sunny Opotech and general manager of intelligent equipment business of Sunny Instruments.
Wu Jun (吴俊)	58	1997	General manager of Sunny Zhejiang Optics.	Mr. Wu graduated with a bachelor's degree in optical instruments from Shanghai Institute of Mechanism in 1986. He obtained a qualification as a senior engineer by the Personnel Bureau of Zhejiang in 1999. He worked in Jiangxi Optics Instrument General Factory for 10 years as research officer and quality control supervisor
Wang Zhongwei (王忠伟) Source: Company d	45	2001	General manager of Sunny Optical Intelligence (Yuyao)	Mr. Wang obtained a bachelor's degree from Changchun Institute of Optics and Fine Mechanics in 2001, a master's degree in optical engineering from Changchun University of Science and Technology in 2010 and a doctor's degree in business administration from City University of Hong Kong in 2023. He held positions including the head of sales department, deputy general manager and general manager of Sunny Opotech.

Source: Company data



## **Earnings forecasts**

### Figure 2: P&L forecast

RMB mn	FY22	FY23	1H24	2H24E	FY24E	FY25E	FY26E
Revenue	33,197	31,681	18,860	20,904	39,765	43,167	47,468
YoY	-11.5%	-4.6%	32.1%	20.1%	25.5%	8.6%	10.0%
Cost of sales	-26,592	-27,091	(15,614)	(17,384)	(32,997)	(35,535)	(38,705)
Gross profit	6,605	4,590	3,246	3,521	6,767	7,632	8,763
GPM (%)	19.9%	14.5%	17.2%	16.8%	17.0%	17.7%	18.5%
YoY	-24.4%	-30.5%	52.4%	43.1%	47.4%	12.8%	14.8%
SG&A	(1,281)	(1,425)	(790)	(878)	(1,668)	(1,679)	(1,846)
% of rev	-3.9%	-4.5%	-4.2%	-4.2%	-4.2%	-3.9%	-3.9%
R&D	(2,803)	(2,566)	(1,468)	(1,568)	(3,036)	(3,130)	(3,441)
% of rev	-8.4%	-8.1%	-7.8%	-7.5%	-7.6%	-7.3%	-7.3%
Other gain & loss	537	151	504	572	637	1,129	1,194
Operating profit	3,014	1,785	1,526	1,834	3,360	3,953	4,669
OPM (%)	9.1%	5.6%	8.1%	8.8%	8.5%	9.2%	9.8%
YoY	-48.5%	-40.8%	92.3%	85.0%	88.3%	17.6%	18.1%
Net profit	2,408	1,099	1,079	1,373	2,452	2,928	3,535
NPM (%)	7.3%	3.5%	5.7%	6.6%	6.2%	6.8%	7.4%
YoY	-51.8%	-54.3%	147.1%	107.2%	123.1%	19.4%	20.8%

Source: Company data, CMBIGM estimates

### Figure 3: Major assumptions

Figure 5. Major assumptions					
	FY22	FY23	FY24E	FY25E	FY26E
<u>Shipment volume (mn unit)</u>					
Optical Components					
Handset lens sets	1,193	1,171	1,306	1,391	1,502
YoY(%)	-17%	-2%	12%	7%	8%
Vehicle lens sets	79	91	101	116	133
YoY(%)	16%	15%	12%	14%	15%
Optoelectronic Products					
Handset camera modules	517	567	611	642	674
YoY(%)	-23%	10%	8%	5%	5%
Other optoelectronic (AR/VR/3D)	51	32	41	49	59
YoY(%)	-14%	-36%	27%	20%	20%
Optical Instruments					
Microscopic instruments	320	251	203	210	230
YoY(%)	24%	-21%	-19%	3%	10%
Revenue (RMB mn)					
Optical components	9,468	9,555	11,130	11,991	13,419
Optoelectronic products	23,326	21,599	28,237	30,774	33,626
Optical instruments	403	527	398	402	423
Total Revenue	33,197	31,681	39,765	43,167	47,468
YoY(%)	-11.5%	-4.6%	25.5%	8.6%	10.1%
Gross Margin	19.9%	14.5%	17.0%	17.7%	18.7%
Optical components	33.4%	28.4%	31.9%	32.3%	33.0%
Optoelectronic products	10.7%	5.5%	8.4%	9.1%	9.5%
Optical instruments	42.0%	41.2%	47.7%	46.0%	46.0%

Source: Company data, CMBIGM estimates



### Valuation

### Maintain BUY with TP of HK\$72.52

We maintain BUY with SOTP-based TP of HK\$72.52. We derived our 12-month TP from SOTP methodology and weighted-average target P/E multiple of 24.9x FY25E EPS, to reflect Sunny's diversification in multiple businesses with different growth profiles, and visibility of product upcycles across different segments.

We assign 18x P/E to its CCM business to reflect its China's No.1 position, product upcycle and advanced technology capacity. We assign 35x P/E for its vehicle lens business to reflect the high-margin and high-growth industry nature of vehicle lens (25% CAGR FY22-24E) and Sunny's No.1 global market share. We apply a 25x P/E to its handset lens segment given secular upgrade trend and continued share gains from peers.

### Figure 4: Sunny Optical – SOTP valuation

Business segment	% of FY25E Profit	FY25E EPS (RMB)	Target P/E
Camera modules	36.5%	0.98	18x
Handset lenses	36.7%	0.98	25x
Vehicle lenses	24.3%	0.65	35x
Others	2.5%	0.07	25x
Total (RMB) /Implied P/E		2.68	24.9x
TP (HK\$)			72.52

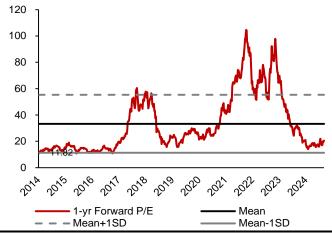
Source: Company data, CMBIGM estimates

### Figure 5: Peers' valuation

			Market			Up/						
			Сар	Price	TP	Down	P/E	E (X)	P/B	3 (X)	ROE	(%)
Company	Ticker	Rating	(US\$ mn)	(LC)	(LC)	-side	FY24E	FY25E	FY24E	FY25E	FY24E	FY25E
Sunny Optical	2382 HK	BUY	8,288	58.90	72.52	23%	23.5	19.7	2.4	2.2	10.1	11.2
Q tech	1478 HK	BUY	906	5.95	6.43	8%	17.8	11.9	1.2	1.1	6.9	9.6
Cowell	1415 HK	NR	2,595	23.50	NA	NA	26.7	15.6	5.1	3.9	21.0	26.9
Truly	732 HK	NR	414	1.02	NA	NA	-	-	-	-	-	-
Catcher	2474 TT	NR	4,179	199.50	NA	NA	10.5	12.4	0.9	0.9	7.9	6.4
Largan	3008 TT	NR	10,069	2450.00	NA	NA	13.9	13.7	1.8	1.7	13.3	13.0
Lite-on	2301 TT	NR	7,661	106.00	NA	NA	19.5	16.1	2.8	2.6	14.6	16.9
Primax	4915 TT	NR	1,178	82.10	NA	NA	13.9	12.3	2.1	1.9	14.8	15.9
O-film	002456 CH	NR	6,658	14.56	NA	NA	136.1	53.9	11.6	11.1	6.0	12.2
			Average				32.7	19.5	3.5	3.2	11.8	14.0

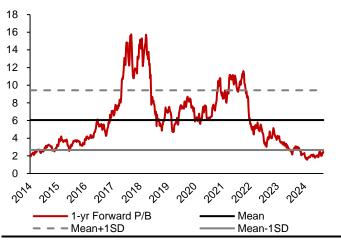
Source: Bloomberg, CMBIGM estimates





Source: Bloomberg, CMBIGM estimates

### Figure 7: 12M forward P/B band



Source: Bloomberg, CMBIGM estimates



# **Financial Summary**

INCOME STATEMENT	2021A	2022A	2023A	2024E	2025E	2026E
YE 31 Dec (RMB mn)						
Revenue	37,497	33,197	31,681	39,765	43,167	47,468
Cost of goods sold	(28,761)	(26,592)	(27,091)	(32,997)	(35,535)	(38,705)
Gross profit	8,736	6,605	4,590	6,767	7,632	8,763
Selling expense	(274)	(353)	(415)	(456)	(471)	(517)
Admin expense	(758)	(929)	(1,010)	(1,211)	(1,209)	(1,329)
R&D expense	(2,642)	(2,803)	(2,566)	(3,036)	(3,130)	(3,441)
Others	789	504	1,208	1,324	1,129	1,194
Operating profit	5,851	3,014	1,785	3,360	3,953	4,669
Share of (losses)/profits of associates/JV	19	(6)	23	(12)	(12)	(12)
Net Interest income/(expense)	(230)	(293)	(449)	(491)	(491)	(491)
Pre-tax profit	5,640	2,715	1,358	2,858	3,450	4,167
Income tax	(579)	(241)	(208)	(314)	(414)	(500)
Minority interest	68	66	51	91	109	131
Net profit	4,993	2,408	1,099	2,452	2,928	3,535
Net dividends	974	1,048	505	1,067	1,274	1,538
BALANCE SHEET	2021A	2022A	2023A	2024E	2025E	2026E
YE 31 Dec (RMB mn)						
Current assets	27,989	30,646	35,144	33,260	28,584	39,341
Cash & equivalents	5,605	7,033	13,085	8,181	2,781	11,144
Account receivables	7,448	7,205	7,855	9,576	9,346	11,462
Inventories	5,482	4,721	5,137	6,435	7,390	7,668
ST bank deposits	1,112	485	1,324	1,324	1,324	1,324
Financial assets at FVTPL	8,314	10,086	7,113	7,113	7,113	7,113
Other current assets	28	1,115	631	631	631	631
Non-current assets	10,785	12,356	15,153	15,841	16,199	16,263
PP&E	8,303	10,120	9,927	10,563	10,899	10,935
Other non-current assets	2,481	2,236	5,226	5,278	5,300	5,327
Total assets	38,774	43,001	50,297	49,101	44,783	55,604
Current liabilities	11,873	19,337	21,287	18,614	12,534	21,227
Short-term borrowings	1,539	1,990	699	699	699	699
Account payables	9,869	12,917	20,325	17,645	11,562	20,251
Other current liabilities	15,493	8,757	7,987	12,143	19,988	13,428
Non-current liabilities	6,005	1,482	6,129	6,129	6,129	6,129
Long-term borrowings	700	30	1,965	1,965	1,965	1,965
Other non-current liabilities	5,305	1,452	4,164	4,164	4,164	4,164
Total liabilities	17,879	20,819	27,415	24,743	18,663	27,356
Share capital	105	105	105	105	105	105
Other reserves	20,483	21,733	22,318	23,703	25,357	27,354
Total shareholders equity	20,895	22,182	22,882	24,358	26,120	28,249
Minority interest	307	344	459	550	658	790
Total equity and liabilities	38,774	43,001	50,297	49,101	44,783	55,604



CASH FLOW	2021A	2022A	2023A	2024E	2025E	2026E
YE 31 Dec (RMB mn)						
Operating						
Profit before taxation	5,640	2,715	1,358	2,858	3,450	4,167
Depreciation & amortization	1,638	2,048	2,437	2,364	2,664	2,964
Change in working capital	200	4,053	6,342	(5,699)	(6,808)	6,295
Others	(499)	(1,438)	324	132	58	(33)
Net cash from operations	6,979	7,377	10,461	(346)	(636)	13,393
Investing						
Capital expenditure	(2,498)	(3,864)	(2,245)	(3,000)	(3,000)	(3,000)
Others	(403)	30	0	0	0	0
Net cash from investing	(2,902)	(3,834)	(2,245)	(3,000)	(3,000)	(3,000)
Financing						
Dividend paid	(974)	(1,048)	(505)	(1,067)	(1,274)	(1,538)
Net borrowings	0	0	0	0	0	0
Share repurchases	0	0	0	0	0	0
Others	(267)	(1,111)	(449)	(491)	(491)	(491)
Net cash from financing	(1,241)	(2,159)	(954)	(1,558)	(1,765)	(2,029)
Net change in cash						
Cash at the beginning of the year	2,842	5,605	7,033	13,085	8,181	2,781
Exchange difference	(73)	44	0	0	0	0
Cash at the end of the year	5,605	7,033	13,085	8,181	2,781	11,144
GROWTH	2021A	2022A	2023A	2024E	2025E	2026E
YE 31 Dec						
Revenue	(1.3%)	(11.5%)	(4.6%)	25.5%	8.6%	10.0%
Gross profit	0.4%	(24.4%)	(30.5%)	47.4%	12.8%	14.8%
Operating profit	(0.4%)	(48.5%)	(40.8%)	88.3%	17.6%	18.1%
Net profit	2.3%	(51.8%)	(54.3%)	123.1%	19.4%	20.8%
PROFITABILITY	2021A	2022A	2023A	2024E	2025E	2026E
YE 31 Dec	00.0%	40.00/	4.4.50/	47.00/	47 70/	10 50/
Gross profit margin	23.3%	19.9%	14.5%	17.0%	17.7%	18.5%
Operating margin	15.6%	9.1%	5.6%	8.5% 10.4%	9.2%	9.8% 13.0%
Return on equity (ROE) GEARING/LIQUIDITY/ACTIVITIES	26.5% 2021A	11.2% <b>2022A</b>	4.9% <b>2023A</b>	2024E	11.6% <b>2025E</b>	2026E
YE 31 Dec	2021A	2022A	2023A	2024E	2025E	2020
Net debt to equity (x)	(0.2)	(0.2)	(0.5)	(0.2)	(0.0)	(0.3)
Current ratio (x)	2.4	1.6	1.7	1.8	2.3	1.9
Receivable turnover days	76.2	80.6	86.8	80.0	80.0	80.0
Inventory turnover days	71.5	70.0	66.4	64.0	71.0	71.0
Payable turnover days	130.7	156.4	223.9	210.0	150.0	150.0
VALUATION	2021A	2022A	2023A	2024E	2025E	2026E
YE 31 Dec						
P/E	12.0	24.9	54.4	24.4	20.4	16.9
P/B	2.9	2.7	2.6	2.5	2.3	2.1
Div yield (%)	1.6	1.7	0.8	1.8	2.1	2.6
EV	20,895.3	22,182.4	22,881.6	24,358.0	26,120.3	28,248.5
EV/Sales	0.6	0.7	0.7	0.6	0.6	0.6

Source: Company data, CMBIGM estimates. Note: The calculation of net cash includes financial assets.



# **Disclosures & Disclaimers**

### Analyst Certification

The research analyst who is primary responsible for the content of this research report, in whole or in part, certifies that with respect to the securities or issuer that the analyst covered in this report: (1) all of the views expressed accurately reflect his or her personal views about the subject securities or issuer; and (2) no part of his or her compensation was, is, or will be, directly or indirectly, related to the specific views expressed by that analyst in this report. Besides, the analyst confirms that neither the analyst nor his/her associates (as defined in the code of conduct issued by The Hong Kong Securities and Futures Commission) (1) have dealt in or traded in the stock(s) covered in this research report within 30 calendar days prior to the date of issue of this report; (2) will deal in or trade in the stock(s) covered in this research report 3 business days after the date of issue of this report; (3) serve as an officer of any of the Hong Kong listed companies covered in this report.

### CMBIGM Ratings

BUY	: Stock with potential return of over 15% over next 12 months				
HOLD	: Stock with potential return of +15% to -10% over next 12 months				
SELL	: Stock with potential loss of over 10% over next 12 months				
NOT RATED	: Stock is not rated by CMBIGM				
OUTPERFORM	: Industry expected to outperform the relevant broad market benchmark over next 12 months				
MARKET-PERFORM	: Industry expected to perform in-line with the relevant broad market benchmark over next 12 months				
UNDERPERFORM	: Industry expected to underperform the relevant broad market benchmark over next 12 months				
CMB International Global Markets Limited					

Address: 45/F, Champion Tower, 3 Garden Road, Hong Kong, Tel: (852) 3900 0888 Fax: (852) 3900 0800

CMB International Global Markets Limited ("CMBIGM") is a wholly owned subsidiary of CMB International Capital Corporation Limited (a wholly owned subsidiary of China Merchants Bank)

### Important Disclosures

There are risks involved in transacting in any securities. The information contained in this report may not be suitable for the purposes of all investors. CMBIGM does not provide individually tailored investment advice. This report has been prepared without regard to the individual investment objectives, financial position or special requirements. Past performance has no indication of future performance, and actual events may differ materially from that which is contained in the report. The value of, and returns from, any investments are uncertain and are not guaranteed and may fluctuate as a result of their dependence on the performance of underlying assets or other variable market factors. CMBIGM recommends that investors should independently evaluate particular investments and strategies, and encourages investors to consult with a professional financial advisor in order to make their own investment decisions.

This report or any information contained herein, have been prepared by the CMBIGM, solely for the purpose of supplying information to the clients of CMBIGM or its affiliate(s) to whom it is distributed. This report is not and should not be construed as an offer or solicitation to buy or sell any security or any interest in securities or enter into any transaction. Neither CMBIGM nor any of its affiliates, shareholders, agents, consultants, directors, officers or employees shall be liable for any loss, damage or expense whatsoever, whether direct or consequential, incurred in relying on the information contained in this report. Anyone making use of the information contained in this report does so entirely at their own risk.

The information and contents contained in this report are based on the analyses and interpretations of information believed to be publicly available and reliable. CMBIGM has exerted every effort in its capacity to ensure, but not to guarantee, their accuracy, completeness, timeliness or correctness. CMBIGM provides the information, advices and forecasts on an "AS IS" basis. The information and contents are subject to change without notice. CMBIGM may issue other publications having information and/ or conclusions different from this report. These publications reflect different assumption, point-of-view and analytical methods when compiling. CMBIGM may make investment decisions or take proprietary positions that are inconsistent with the recommendations or views in this report.

CMBIGM may have a position, make markets or act as principal or engage in transactions in securities of companies referred to in this report for itself and/or on behalf of its clients from time to time. Investors should assume that CMBIGM does or seeks to have investment banking or other business relationships with the companies in this report. As a result, recipients should be aware that CMBIGM may have a conflict of interest that could affect the objectivity of this report and CMBIGM will not assume any responsibility in respect thereof. This report is for the use of intended recipients only and this publication, may not be reproduced, reprinted, sold, redistributed or published in whole or in part for any purpose without prior written consent of CMBIGM. Additional information on recommended securities is available upon request.

### For recipients of this document in the United Kingdom

This report has been provided only to persons (I) falling within Article 19(5) of the Financial Services and Markets Act 2000 (Financial Promotion) Order 2005 (as amended from time to time)("The Order") or (II) are persons falling within Article 49(2) (a) to (d) ("High Net Worth Companies, Unincorporated Associations, etc.,) of the Order, and may not be provided to any other person without the prior written consent of CMBIGM.

### For recipients of this document in the United States

CMBIGM is not a registered broker-dealer in the United States. As a result, CMBIGM is not subject to U.S. rules regarding the preparation of research reports and the independence of research analysts. The research analyst who is primary responsible for the content of this research report is not registered or qualified as a research analyst with the Financial Industry Regulatory Authority ("FINRA"). The analyst is not subject to applicable restrictions under FINRA Rules intended to ensure that the analyst is not affected by potential conflicts of interest that could bear upon the reliability of the research report. This report is intended for distribution in the United States solely to "major US institutional investors", as defined in Rule 15a-6 under the US, Securities Exchange Act of 1934, as amended, and may not be furnished to any other person in the United States. Each major US institutional investors that receives a copy of this report by its acceptance hereof represents and agrees that it shall not distribute or provide this report should do so only through a U.S. registered broker-dealer.

#### For recipients of this document in Singapore

This report is distributed in Singapore by CMBI (Singapore) Pte. Limited (CMBISG) (Company Regn. No. 201731928D), an Exempt Financial Adviser as defined in the Financial Advisers Act (Cap. 110) of Singapore and regulated by the Monetary Authority of Singapore. CMBISG may distribute reports produced by its respective foreign entities, affiliates or other foreign research houses pursuant to an arrangement under Regulation 32C of the Financial Advisers Regulations. Where the report is distributed in Singapore to a person who is not an Accredited Investor, Expert Investor or an Institutional Investor, as defined in the Securities and Futures Act (Cap. 289) of Singapore, CMBISG accepts legal responsibility for the contents of the report to such persons only to the extent required by law. Singapore recipients should contact CMBISG at +65 6350 4400 for matters arising from, or in connection with the report.