

Technology

Intelligence driving: Implications of BYD's "vehicle intelligence strategy" event

BYD announced plans to offer its "God's Eye" advanced intelligent driving system on all models priced above RMB100k and 3 models priced below 100k, during its "Vehicle Intelligent Strategy" event in Shenzhen on 10 Feb. Initial rollout includes 21 models, all equipped with industry-leading specs with end-to-end LLM, 5 mm-wave radars, 12 cameras and 12 ultrasonic radars. We believe BYD's acceleration of intelligent driving with strong new model pipeline will boost adoption of intelligent driving in China, and key beneficiaries include BYDE (ADAS/domain controller), Sunny Optical/Q-tech/Cowell (1415 HK, NR)/AAC (camera/LiDAR/radar), BOEVx (display), AAC Tech (acoustics) and Luxshare/FIT (connector).

- Introduction of self-developed "God's Eye" system across all price segments. The "God's Eye" system is divided into three levels (A/B/C). 1) God's Eye A: high-end intelligent driving with three LiDARs (DiPilot 600), primarily for Yangwang brand. 2) God's Eye B: high-end intelligent driving with one LiDAR (DiPilot 300), primarily for Denza and BYD brands. 3) God's Eye C: high-end intelligent driving with triple-cameras (DiPilot 100), primarily for BYD models. It will also support high-speed and urban memory navigation, with OTA updates planned by end of 2025.
- Spec upgrades in DeepSeek Al models, sensors, smart cockpit, chips, and domain controllers. Taking the entry-level "God's Eye C" as an example, BYD's intelligent driving technology is upgraded across multiple technologies. 1) Al models: Integrate with DeepSeek for Al capabilities on vehicle and cloud platforms and adopt reinforced distillation for personalized services. 2) Sensors: Feature global first "front triple-camera" system (8P), equipped with 12 cameras, 5 mm-wave radars, and 12 ultrasonic radars. The high-end "God's Eye" A/B systems are equipped with 1-3 LiDARs. 3) Chips & Domain Control: Upgraded Delink 100 doubles the computing power, with DM and E platforms fully upgraded to Xuanji architecture. 4) Intelligent Cockpit: Fully equipped with LCD dashboard, screen size upgraded from 10 inches to 12.8 inches, capacitive steering wheel, and dedicated intelligent driving paddles.
- BYD's intelligent driving progress above expectations; Positive on intelligent driving supply chain. We are constructive on BYD's leadership in universal intelligent driving and investment opportunities along intelligent driving supply chain, including 1) Domain controllers/chassis: BYDE, Intron Tech; 2) Sensors (cameras/LiDAR/radar): Sunny Optical, Q-tech, Cowell, AAC Tech; 3) Connectors: Luxshare, FIT Hon Teng; 4) Smart Cockpit (HUD/acoustics/display): BOEVx, AAC Tech.

Valuation Table

	Ticker	Rating	Mkt Cap	Price	TP	Up/Down -side	P/E (x)		P/B (x) ROE	
Name			(USD mn)	(LC)	(LC)			FY25E	FY25E I	FY25E
BYDE	285 HK	Buy	15,692	54.25	48.66	-10%	24.1	17.0	3.0	17.4
Sunny Optical	2382 HK	Buy	11,595	82.50	72.52	-12%	32.9	27.6	3.1	11.2
AAC Tech	2018 HK	Buy	7,010	45.80	40.83	-11%	27.4	21.6	1.9	8.8
FIT Hon Teng	6088 HK	Buy	3,492	3.73	4.79	28%	19.0	11.0	1.2	10.7
BOEVx	710 HK	Buy	789	7.76	10.48	35%	13.9	11.1	0.5	4.4
Intron Tech	1760 HK	Buy	226	1.62	2.35	45%	6.9	4.3	0.6	13.3
Luxshare	002475 C	H Buy	42,268	42.66	55.09	29%	22.7	18.5	3.0	16.4
Source: Company data, CMBIGM estimates										

OUTPERFORM (Maintain)

China Technology Sector

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

Hanqing LI lihanqing@cmbi.com.hk



Focus Charts

Figure 1: BYD's self-developed "God's Eye' intelligent driving system



Source: Company data, CMBIGM

Figure 2: BYD's all models are equipped with "God's Eye" advanced intelligent driving



Source: Company data, CMBIGM

Figure 3: Integration with DeepSeek on both vehicle and cloud platforms



Source: Company data, CMBIGM

Figure 4: BYD's new product launches

				全民智驾	王朝智驾	上新季	Ē			
第二代集PLUS DE	A-南驾坂上市价格					宋Pro DM-i智驾版」	上市价格			
7.98万 55KM 報用版	9.38万	10.38万				10.28万75604888	11.28万75600 超期	12.28万	13.28万	
第二代集PLUS EV	智驾版上市价格					元UP智驾版上市价格				
10.98万 420KM 銀光型	11.98万 5100M 報用型	12.98万				9.98万	10.98万	11.98万		
秦L DM-i智驾级上i	协价格					汉DM-·智驾版上市的	îrets			
9.98万 80KM 報知题	10.98万	11.98万 120KM 報用類	12.98万	13.98万		16.88万	17.58万	18.58万	19.58万	22.58万 12960
宋L DM-·智驾版上的	5价格					汉EV智驾版上市价格	N .			
13.58万 75KM 報先型	14.58万	15.58万 112KM ###E	16.58万 160KM #EMSE	17.58万 160KM ###2		17.98万	18.98万 60904 東京宝	19.98万 701KM 東京型	21.98万 701KM 瀬元忠改尊享型	23.58万
宋LEV智驾版上市价	柩			8	-	島DM-智驾版上市包	∩ MS			
18.98万 550KM #MSE	19.98万	22.58万 662KM 最先素法##整	24.98万 6026M 無光素級的概要	81	T	17.98万	18.98万	19.98万	21.98万	

Source: Company data, CMBIGM



Figure 5: BYD's intelligent driving supply chain mapping

Component		DiPilot 100	DiPilot 300	DiPilot 600	
	Quantity	1	1	1	
Domain Controller	ASP	RMB 3,000-4,000	RMB 5,000-7,000	RMB 8,000-12,000	
Controller	Supplier	BYDE (1	00 self-developed, 300/60	00 OEM)	
	Quantity	1	1	2	
Chips	Supplier	Orin N (70%); Horizon Robotics J6 (30%)	Nvidia Orin X	Nvidia Orin X	
	Quantity	12	12	12	
Cameras	ASP	RMB 100	RMB 100	RMB 100	
Cameras	Total ASP	RMB 1,200	RMB 1,200	RMB 1,200	
	Supplier	Interr	nal, Sunny Optical, LianCh	uang	
	Quantity	5	5	5	
mm-wave radar	ASP	RMB 100	RMB 100	RMB 100	
	Total ASP	RMB 500	RMB 500	RMB 500	
	Quantity	0	1	2-3	
LiDARs	ASP	-	RMB 2,000	RMB 2,000	
LIDARS	Total ASP	-	SYDE (100 self-developed, 300/600 OEM)	RMB 4,000-5,000	
	Supplier		Hesai, RoboSense		

Source: Company data, CMBIGM

Figure 6: Auto electronics: Peers valuation

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Desay SV	002920 CH	NR	9,876	130.00	NA	NA	33.7	25.7	7.4	6.0	23.7	24.6
Joyson	600699 CH	NR	3,787	19.64	NA	NA	20.3	16.2	1.9	1.7	9.5	11.0
Jingwei Hirain	688326 CH	NR	1,820	110.80	NA	NA	-	106.0	2.8	2.7	(6.4)	5.0
Foryou	002906 CH	NR	2,500	34.80	NA	NA	27.4	21.0	2.8	2.5	10.6	12.2
O-Film	002456 CH	NR	6,502	14.35	NA	NA	134.1	53.1	11.4	11.0	6.0	12.2
LianChuang	002036 CH	NR	1,782	12.29	NA	NA	614.5	85.9	4.3	4.2	(6.3)	3.0
			Average				81.4	32.2	3.5	3.2	8.1	11.5

Source: Bloomberg, CMBIGM estimates. Data as of 10 Feb close.



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CMB International Global Markets Limited

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

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