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Margin under pressure amid weakening demand

Hikvision and Dahua both reported worse than expected 3Q22 results as macro headwinds surge. However, the diverging performance implies that Hikvision is more resilient than Dahua amid macro fluctuations. In particular, Hikvision revenue was up +3% YoY while that of Dahua was down -11% YoY in 3Q22. We are surprised to see Dahua's QoQ decline in revenue, considering the lockdown impact in 2Q22. Innovative businesses growth (Hikvison +18% YoY/ Dahua +40% YoY) was the common bright spot. With a weakening demand, margin will remain under pressure for both companies. Prefer Hikvision (BUY) over Dahua (HOLD).

- Hikvision 3Q22 top-line largely in-line, bottom-line miss on lower margin. Hikvision delivered a weak, yet largely anticipated, 3Q22 results with revenue of RMB22.46bn (+3% YoY, +8% QoQ) and net profit of RMB3.08bn (-31% YoY). This is attributable to 1) project delays given COVID-19 resurgence in China, 2) lower GPM (-5.3 pts YoY to 41.0%) given more low-margin product sales through channel and 3) higher R&D of RMB2.68bn (+22% YoY, +3% QoQ). Company commented that PBG/ EBG businesses declined slightly in 3Q22, however, SMBG was down 21% YoY, offsetting the growth in overseas (+13% YoY) and innovative businesses (+18% YoY). Macro weakness may continue to weigh on 1H23 results and that rebound in PBG could come earlier than EBG/ SMBG segments. Meanwhile, management guided that FY22 net profit will be no less than FY20 level, implying around 15% YoY decline in FY4Q22 net profit. Headcount has been frozen since Jun and the company will continue to focus on cost control in FY23.
- Dahua 3Q22 big miss as revenue was down QoQ unexpectedly. Dahua reported a depressing 3Q22 results with revenue of RMB7.09bn (-11% YoY. -14% QoQ) and net profit of RMB173mn (-77% YoY, -85% QoQ). Dahua attributed the top line decline to 1) Gov't projects delay (-25% YoY), 2) softening channel sales and 3) significant decline in overseas revenue growth. These have offset the growth in 1) EBG (nearly up +10% YoY) and 2) Innovative businesses (+40% YoY). Although 3Q22 GPM was up 1.1 pts QoQ to 37.6%, bottom line was under pressure given +5% YoY in opex (opex ratio 37.2%). Management commented that opex has peaked in 3Q22 and that 4Q22 and FY23 should deliver earnings improvement.
- Diverging 3Q22 performance reflects that Hikvision is more resilient than Dahua amid macro fluctuations. Although both companies delivered weaker than expected 3Q22 results, Hikvision is more resilient than Dahua in terms of 1) revenue growth (Hikvision +3% YoY vs. Dahua -11% YoY), 2) operating margin (Hikvision 13.8% vs. Dahua 0.4%) and 3) inventory management (Hikvision inventory to sales ratio dropped QoQ to 0.87 vs. Dahua QoQ increased to 0.97). We cut target price of Hikvision from RMB41.46 to RMB37.44, Dahua from RMB13.97 to RMB11.07 on earnings downward revision. Prefer Hikvision (BUY) over Dahua (HOLD).

Valuation Table

			Mkt Cap	Price	TP	P/E	EV/ sales	RC	E	Sales CAGR
Company	Ticker	Rating	(US\$ mn)	(LC)	(LC)	FY23E	FY23E	FY22E	FY23E	FY21-24E
Hikvision	002415 CH	BUY	36,910	28.40	37.44	15.2	2.7	20.6	23.4	12%
Dahua	002236 CH	HOLD	4,969	11.89	11.07	10.7	1.0	11.2	12.2	4%
SenseTime	20 HK	BUY	5,079	1.19	2.10	n.a.	5.9	n.a.	n.a.	18%
Alnnovation	2121 HK	NR	1,331	18.68	n.a.	n.a.	5.4	n.a.	n.a.	63%
Arcsoft	688088 CH	NR	1,373	24.54	n.a.	42.9	14.0	5.4	7.9	25%

Source: Company data, Bloomberg, CMBIGM estimates



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Hikvision 12-mth Price Performance



Dahua 12-mth Price Performance





Source: Bloomberg

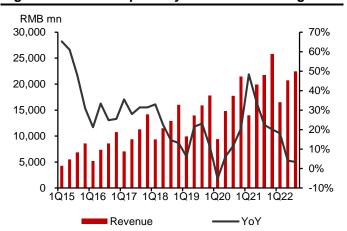
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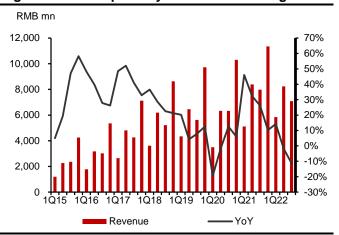
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- "China AI U.S. may broaden AI chips export restrictions" 14 Sep 2022 (link)
- "China AI U.S. is restricting advanced GPU sales to China" – 1 Sep 2022 (link)



Focus Charts

Figure 1: Hikvision quarterly revenue and YoY growth Figure 2: Dahua quarterly revenue and YoY growth





Source: Company data, CMBIGM estimates

Source: Company data, CMBIGM estimates

Figure 3: Hikvision vs. Dahua inventory to sales ratio

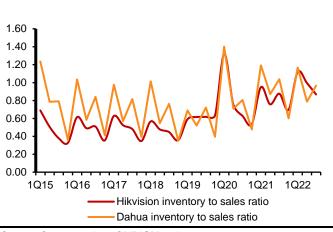
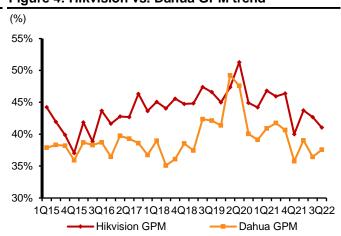


Figure 4: Hikvision vs. Dahua GPM trend



Source: Company data, CMBIGM estimates

Source: Company data, CMBIGM estimates

Figure 5: Hikvision net profit vs. operating cash flow

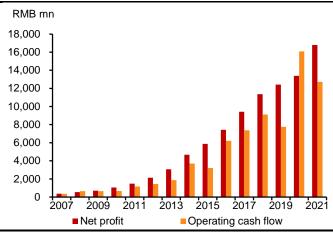
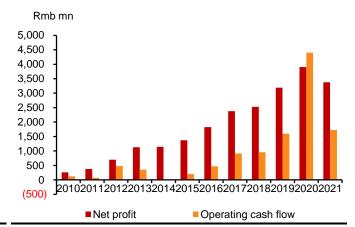


Figure 6: Dahua net profit vs. operating cash flow



Source: Company data

Source: Company data



Hikvision FY3Q22 results review

- **Revenue** was RMB22,464mn (+3% YoY, +8% QoQ), missed our estimate by 5% and consensus by 7%.
- Gross profit was RMB9,219mn (-9% YoY, +4% QoQ), missed our estimate by 8% and consensus by 12%.
- **Gross margin** was 41.0%, (-5.3 pct pts YoY, -1.6 pct pts QoQ), below our estimate by 1.4 pct pts and consensus by 2.3 pct pts.
- Operating profit was RMB3,090mn (-36% YoY, +8% QoQ), missed our estimate by 29% and consensus by 34%.
- Operating margin was 13.8% (-8.5 pct pts YoY, 0 pct pts QoQ), below our estimate by 4.5 pct pts and consensus by 5.6 pct pts.
- Net profit was RMB3,081mn (-31% YoY, -11% QoQ), below our estimate by 29% and consensus by 30%
- **EPS** was RMB0.33 (-32% YoY, -11% QoQ), below our estimate by 29% and consensus by 36%.

Figure 7: FY3Q22 results review

	Sep-21	Jun-22	Sep-22			Sep-22		Sep-22	
	3Q21	2Q22	3Q22			3Q22	versus	3Q22	versus
RMB mn	actual	actual	actual	YoY	QoQ	CMBI	CMBI	consensus	consensus
Revenue	21,727	20,736	22,464	3%	8%	23,705	-5%	24,256	-7%
Gross profit	10,078	8,851	9,219	-9%	4%	10,066	-8%	10,509	-12%
Gross margin	46.4%	42.7%	41.0%	-5.3 pct pts	-1.6 pct pts	42.5%	-1.4 pct pts	43.3%	-2.3 pct pts
Operating profit (adjusted)	4,826	2,855	3,090	-36%	8%	4,334	-29%	4,695	-34%
Operating margin (adjusted)	22.2%	13.8%	13.8%	-8.5 pct pts	0 pct pts	18.3%	-4.5 pct pts	19.4%	-5.6 pct pts
Net non-op	604	1,046	654			593		373	
PBT	5,430	3,901	3,745	-31%	-4%	4,926	-24%	5,068	-26%
Tax	-788	-178	-509			-468		-665	
Minorities	-158	-247	-154			-142			
Net income	4,484	3,475	3,081	-31%	-11%	4,317	-29%	4,402	-30%
EPS RMB	0.48	0.37	0.33	-32%	-11%	0.46	-29%	0.51	-36%

Source: Company data, CMBIGM



Figure 8: Hikvision earnings revision

		2022E			2023E		2024E			
RMB mn	New	Old	%Diff	New	Old	%Diff	New	Old	%Diff	
Sales	86,749	89,344	-3%	95,369	101,006	-6%	113,414	119,965	-5%	
Gross profit	36,283	38,041	-5%	41,009	43,858	-6%	50,481	51,731	-2%	
OP Profit	13,373	16,043	-17%	17,458	19,816	-12%	22,112	23,288	-5%	
PBT	16,161	18,614	-13%	20,663	22,822	-9%	23,706	24,509	-3%	
Net profit	13,770	16,116	-15%	17,661	19,554	-10%	20,306	21,047	-4%	
EPS	1.46	1.71	-15%	1.87	2.07	-10%	2.15	2.23	-4%	
Margins										
GM	41.8%	42.6%	-75 bps	43.0%	43.4%	-42 bps	44.5%	43.1%	139 bps	
OPM	15.4%	18.0%	-254 bps	18.3%	19.6%	-131 bps	19.5%	19.4%	8 bps	
PBT margin	18.6%	20.8%	-221 bps	21.7%	22.6%	-93 bps	20.9%	20.4%	47 bps	
Net margin	15.9%	18.0%	-216 bps	18.5%	19.4%	-84 bps	17.9%	17.5%	36 bps	

Source: Company data, CMBIGM estimates

Figure 9: Hikvision CMBI estimates vs. consensus

		2022E			2023E			2024E	
RMB mn	СМВІ	Street	Diff	СМВІ	Street	Diff	СМВІ	Street	Diff
Sales	86,749	92,377	-6%	95,369	108,809	-12%	113,414	127,770	-11%
Gross profit	36,283	40,260	-10%	41,009	47,783	-14%	50,481	56,328	-10%
OP Profit	13,373	19,649	-32%	17,458	23,825	-27%	22,112	28,319	-22%
PBT	16,161	20,040	-19%	20,663	24,017	-14%	23,706	28,393	-17%
Net profit	13,770	17,761	-22%	17,661	21,219	-17%	20,306	24,995	-19%
EPS	1.46	1.90	-23%	1.87	2.29	-18%	2.15	2.70	-20%
Margins									
GM	41.8%	43.6%	-176 bps	43.0%	43.9%	-91 bps	44.5%	44.1%	43 bps
OPM	15.4%	21.3%	-585 bps	18.3%	21.9%	-359 bps	19.5%	22.2%	-267 bps
PBT margin	18.6%	21.7%	-307 bps	21.7%	22.1%	-41 bps	20.9%	22.2%	-132 bps
Net margin	15.9%	19.2%	-335 bps	18.5%	19.5%	-98 bps	17.9%	19.6%	-166 bps

Source: Company data, CMBIGM estimates, Bloomberg



Figure 10: Hikvision operating model

Revenues	Figure 10: Hikvision opera		2024	20225	20225	20245
Cost of sales (33,958) (45,329) (50,467) (54,359) (62,932) Gross Profit 29,546 36,091 36,283 41,009 50,481 Gross margin 46.5% 44.3% 41,8% 43,09% 44.5% R&D (6,379) (8,252) (10,140) (10,319) (12,640) SG&A (9,168) (10,719) (12,229) (12,611) (15,012) Operating Income 13,583 16,559 13,373 17,458 22,112 Operating margin 21,4% 20,3% 15,4% 18,3% 19,5% Non-Operating Income 1,690 1,909 2,788 3,205 1,594 Profit Before Tax 15,273 18,468 16,161 20,663 23,706 Income tax (expense) gain (1,595) (957) (1,674) (2,066) (2,371) Minorities (293) (710) (716) (935) (1,029) Net Income to Shareholders 13,386 16,800 13,770 17,661	RMB mn	2020	2021	2022E	2023E	2024E
Gross Profit 29,546 36,091 36,283 41,009 50,481 Gross margin 46.5% 44.3% 41.8% 43,0% 44.5% R&D (6,379) (8,252) (10,140) (10,319) (12,640) SG&A (9,168) (10,719) (12,229) (12,611) (15,012) Operating Income 13,883 16,559 13,373 17,458 22,112 Operating margin 21.4% 20.3% 15.4% 18.3% 19.5% Non-Operating Income 1,690 1,909 2,788 3,205 1,594 Profit Before Tax 15,273 18,468 16,161 20,663 23,706 Income tax (expense) gain (1,595) (957) (1,674) (2,066) (2,371) Minorities (293) (710) (716) (935) (1,029) Net margin 21.1% 20.6% 15.9% 18.5% 17.9% EPS (RMB) 1.43 1.80 1.46 1.87 2.15 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td></t<>						
Gross margin 46.5% 44.3% 41.8% 43.0% 44.5% R&D (6,379) (8,252) (10,140) (10,319) (12,640) SG&A (9,168) (10,719) (12,229) (12,611) (15,012) Operating Income 13,583 16,559 13,373 17,458 22,112 Operating margin 21.4% 20.3% 15.4% 18.3% 19.5% Non-Operating Income 1,690 1,909 2,788 3,205 1,594 Profit Before Tax 15,273 18,468 16,161 20,663 23,706 Income tax (expense) gain (1,595) (967) (1,674) (2,066) (2,371) Minorities (293) (710) (716) (935) (1,029) Net margin 21.1% 20.6% 15,94 12,066 (2,371) Minorities (293) (710) (716) (935) (1,029) Net margin 21,149 20.6% 15,94 18,5% 17,9%		(33,958)	, ,			, ,
R&D (6,379) (8,252) (10,140) (10,319) (12,640) SG&A (9,168) (10,719) (12,229) (12,611) (15,012) Operating Income 13,583 16,559 13,373 17,458 22,112 Operating margin 21.4% 20.3% 15.4% 18.3% 19.5% Non-Operating Income 1,690 1,909 2,788 3,205 1,594 Profit Before Tax 15,273 18,468 16,161 20,663 23,706 Income tax (expense) gain (1,595) (957) (1,674) (2,066) (2,371) Minorities (293) (710) (716) (935) (10,229) Net Income to Shareholders 13,386 16,800 13,770 17,661 20,306 Net margin 21.1% 20.6% 15.9% 18.5% 17.9% PS (RMB) 0,70 0.80 0,90 0.74 0.95 PS (RMB) 0,70 0.80 0,90 0.74 0.95 PS (RWB) 0,70 0.80 0,90 0.74 0.95 PS (RWB) 0,70 0.80 0,90 0.74 0.95 PBG 14,724 16,629 SMBG 9,209 13,490 PBG 14,724 16,629 SMBG 9,209 PBG 14,724 16,629 SMBG 9,209 PBG 14,724 16,629 SMBG 9,209 PBG 14,724 16,629 SMBG 14,724 16,629 SMBG 14,724 16,6	Gross Profit	· ·	36,091		41,009	•
SG&A (9,168) (10,719) (12,229) (12,611) (15,012) Operating Income 13,583 16,559 13,373 17,458 22,112 Operating margin 21.4% 20.3% 15.4% 18.3% 19.5% Non-Operating Income 1,690 1,909 2,788 3.205 1,594 Profit Before Tax 15,273 18,468 16,161 20,663 23,706 Income tax (expense) gain (1,595) (957) (1,674) (2,066) (2,371) Minorities (293) (710) (716) (955) (1,029) Net Income to Shareholders 13,386 16,800 13,770 17,661 20,306 Net margin 21.1% 20.6% 15.9% 18.5% 17.9% EPS (RMB) 1.43 1.80 1.46 1.87 2.15 DPS (RMB) 0.70 0.80 0.90 0.74 0.95 Revenue breakdown Core camera solution 55,721 65,146 68,758 </td <td>Gross margin</td> <td>46.5%</td> <td>44.3%</td> <td>41.8%</td> <td>43.0%</td> <td>44.5%</td>	Gross margin	46.5%	44.3%	41.8%	43.0%	44.5%
Operating Income 13,583 16,559 13,373 17,458 22,112 Operating margin 21.4% 20.3% 15.4% 18.3% 19.5% Non-Operating Income 1,690 1,909 2,788 3,205 1,594 Profit Before Tax 15,273 18,468 16,161 20,663 23,706 Income tax (expense) gain (1,595) (957) (1,674) (2,066) (2,371) Minorities (293) (710) (716) (935) (1,029) Net Income to Shareholders 13,386 16,800 13,770 17,661 20,306 Net margin 21.1% 20.6% 15.9% 18.5% 17.9% EPS (RMB) 1.43 1.80 1.46 1.87 2.15 DPS (RMB) 0.70 0.80 0.90 0.74 0.95 Revenue breakdown 20 65,146 68,758 74,491 87,899 Construction 1,614 4,004 3,147 3,482 3,830	R&D	(6,379)	(8,252)	(10,140)	(10,319)	(12,640)
Operating margin 21.4% 20.3% 15.4% 18.3% 19.5% Non-Operating Income 1,690 1,909 2,788 3,205 1,594 Profit Before Tax 15,273 18,468 16,161 20,663 23,706 Income tax (expense) gain (1,595) (957) (1,674) (2,066) (2,371) Minorities (293) (710) (716) (935) (1,029) Net Income to Shareholders 13,386 16,800 13,770 17,661 20,306 Net margin 21.1% 20.6% 15.9% 18.5% 17.9% EPS (RMB) 1.43 1.80 1.46 1.87 2.15 DPS (RMB) 0.70 0.80 0.90 0.74 0.95 Revenue breakdown Core camera solution 55,721 65,146 68,758 74,491 87,899 Construction 1,614 4,004 3,147 3,482 3,830 Innovative business 6,168 12,271 14,844	SG&A	(9,168)	(10,719)	(12,229)	(12,611)	(15,012)
Non-Operating Income 1,690 1,909 2,788 3,205 1,594 Profit Before Tax 15,273 18,468 16,161 20,663 23,706 Income tax (expense) gain (1,595) (957) (1,674) (2,066) (2,371) Minorities (293) (710) (716) (935) (1,029) Net Income to Shareholders 13,386 16,800 13,770 17,661 20,306 Net margin 21.1% 20.6% 15.9% 18.5% 17.9% EPS (RMB) 1.43 1.80 1.46 1.87 2.15 DPS (RMB) 0.70 0.80 0.90 0.74 0.95 Revenue breakdown Core camera solution 55,721 65,146 68,758 74,491 87,899 Construction 1,614 4,004 3,147 3,482 3,830 Innovative business 6,168 12,271 14,844 17,396 21,685 Gross margin breakdown Core camera soluti	Operating Income	13,583	16,559	13,373	17,458	22,112
Profit Before Tax	Operating margin	21.4%	20.3%	15.4%	18.3%	19.5%
Income tax (expense) gain (1,595) (957) (1,674) (2,066) (2,371)	Non-Operating Income	1,690	1,909	2,788	3,205	1,594
Minorities (293) (710) (716) (935) (1,029) Net Income to Shareholders 13,386 16,800 13,770 17,661 20,306 Net margin 21.1% 20.6% 15.9% 18.5% 17.9% EPS (RMB) 1.43 1.80 1.46 1.87 2.15 DPS (RMB) 0.70 0.80 0.90 0.74 0.95 Revenue breakdown Core camera solution 55,721 65,146 68,758 74,491 87,899 Construction 1,614 4,004 3,147 3,482 3,830 Innovative business 6,168 12,271 14,844 17,396 21,685 PBG 15,987 19,161 18	Profit Before Tax	15,273	18,468	16,161	20,663	23,706
Net Income to Shareholders 13,386 16,800 13,770 17,661 20,306 Net margin 21.1% 20.6% 15.9% 18.5% 17.9% EPS (RMB) 1.43 1.80 1.46 1.87 2.15 DPS (RMB) 0.70 0.80 0.90 0.74 0.95 Revenue breakdown Core camera solution 55,721 65,146 68,758 74,491 87,899 Construction 1,614 4,004 3,147 3,482 3,830 Innovative business 6,168 12,271 14,844 17,396 21,685 PBG 15,987 19,161 15,885 19,400	Income tax (expense) gain	(1,595)	(957)	(1,674)	(2,066)	(2,371)
Net margin 21.1% 20.6% 15.9% 18.5% 17.9% EPS (RMB) 1.43 1.80 1.46 1.87 2.15 DPS (RMB) 0.70 0.80 0.90 0.74 0.95 Revenue breakdown Core camera solution 55,721 65,146 68,758 74,491 87,899 Construction 1,614 4,004 3,147 3,482 3,830 Innovative business 6,168 12,271 14,844 17,396 21,685 PBG 15,987 19,161 1,629 1,4724 16,629 1,4724 16,629 1,4724 16,629 1,4724	Minorities	(293)	(710)	(716)	(935)	(1,029)
EPS (RMB) 1.43 1.80 1.46 1.87 2.15 DPS (RMB) 0.70 0.80 0.90 0.74 0.95 Revenue breakdown Core camera solution 55,721 65,146 68,758 74,491 87,899 Construction 1,614 4,004 3,147 3,482 3,830 Innovative business 6,168 12,271 14,844 17,396 21,685 PBG 15,987 19,161 EBG 14,724 16,629 SMBG 9,209 13,490 Domestic 45,807 59,435 Export 17,697 21,985 Gross margin breakdown Core camera solution 48,4% 46,4% 43,1% 44,5% 46,0% Construction 16,2% 23,0% 18,1% 20,7% 20,4% Innovative business 37,3% 40,5% 40,4% 40,9% 42,7% Domestic 44,9% 44,5% 44,0% 40,9% 42,7% Export 50,7% 44,0% 41,0% Growth YoY Revenues 10% 28% 7% 10% 19% Gross profit 11% 22% 1% 13% 23% Operating Income 18% 22% 19% 31% 27%	Net Income to Shareholders	13,386	16,800	13,770	17,661	20,306
Revenue breakdown 55,721 65,146 68,758 74,491 87,899 Core camera solution 55,721 65,146 68,758 74,491 87,899 Construction 1,614 4,004 3,147 3,482 3,830 Innovative business 6,168 12,271 14,844 17,396 21,685 PBG 15,987 19,161 15,887 19,161 15,887 19,161 15,887 19,161 15,887 19,161 15,887 19,161 15,887 19,161 15,887 19,161 15,887 19,161 15,887 19,161 15,887 19,161 15,887 19,161 15,887 19,161 15,887 19,161 15,887 19,161 15,887 10,885	Net margin	21.1%	20.6%	15.9%	18.5%	17.9%
Revenue breakdown Core camera solution 55,721 65,146 68,758 74,491 87,899 Construction 1,614 4,004 3,147 3,482 3,830 Innovative business 6,168 12,271 14,844 17,396 21,685 PBG 15,987 19,161 15,887 19,161 16,629 14,724 16,629 14,724 16,629 14,724 16,629 14,724 16,629 14,724 16,629 14,724 16,629 14,724 16,629 14,724 16,629 14,724 16,629 14,724 16,629 18,72 1,72<	EPS (RMB)	1.43	1.80	1.46	1.87	2.15
Core camera solution 55,721 65,146 68,758 74,491 87,899 Construction 1,614 4,004 3,147 3,482 3,830 Innovative business 6,168 12,271 14,844 17,396 21,685 PBG 15,987 19,161 15,887 19,161 15,887 19,161 15,887 19,161 15,887 19,161 15,887 19,161 15,887 19,161 15,887 19,161 15,887 19,161 15,887 19,161 15,887 19,161 15,887 10,488 <t< td=""><td>DPS (RMB)</td><td>0.70</td><td>0.80</td><td>0.90</td><td>0.74</td><td>0.95</td></t<>	DPS (RMB)	0.70	0.80	0.90	0.74	0.95
Construction 1,614 4,004 3,147 3,482 3,830 Innovative business 6,168 12,271 14,844 17,396 21,685 PBG 15,987 19,161 EBG 14,724 16,629 SMBG 9,209 13,490 Domestic 45,807 59,435 Export 17,697 21,985 Export 48.4% 46.4% 43.1% 44.5% 46.0% Core camera solution 48.4% 46.4% 43.1% 20.7% 20.4% Innovative business 37.3% 40.5% 40.4% 40.9% 42.7% Domestic 44.9% 44.5% 44.0% 40.4% 40.9% 42.7% Export 50.7% 44.0% 44.0% 40.4% 40.4% 40.9% 42.7% Growth YoY Revenues 10% 28% 7% 10% 19% Gross profit 11% 22% 1% 13% 23% Operating Income	Revenue breakdown					
Innovative business 6,168 12,271 14,844 17,396 21,685 PBG	Core camera solution	55,721	65,146	68,758	74,491	87,899
PBG 15,987 19,161 EBG 14,724 16,629 SMBG 9,209 13,490 Domestic 45,807 59,435 Export 17,697 21,985 Gross margin breakdown Core camera solution 48.4% 46.4% 43.1% 44.5% 46.0% Construction 16.2% 23.0% 18.1% 20.7% 20.4% Innovative business 37.3% 40.5% 40.4% 40.9% 42.7% Domestic 44.9% 44.5% Export 50.7% 44.0% Growth YoY Revenues 10% 28% 7% 10% 19% Gross profit 11% 22% 1% 13% 23% Operating Income 18% 22% -19% 31% 27%	Construction	1,614	4,004	3,147	3,482	3,830
EBG 14,724 16,629 SMBG 9,209 13,490 Domestic 45,807 59,435 Export 17,697 21,985 Gross margin breakdown Core camera solution 48.4% 46.4% 43.1% 44.5% 46.0% Construction 16.2% 23.0% 18.1% 20.7% 20.4% Innovative business 37.3% 40.5% 40.4% 40.9% 42.7% Domestic 44.9% 44.5% 44.0% 44	Innovative business	6,168	12,271	14,844	17,396	21,685
SMBG 9,209 13,490 Domestic Export 45,807 59,435 Export 59,435 59,4	PBG	15,987	19,161			
Domestic 45,807 59,435 Export 17,697 21,985	EBG	14,724	16,629			
Export 17,697 21,985 Gross margin breakdown Core camera solution 48.4% 46.4% 43.1% 44.5% 46.0% Construction 16.2% 23.0% 18.1% 20.7% 20.4% Innovative business 37.3% 40.5% 40.4% 40.9% 42.7% Domestic 44.9% 44.5% 44.0	SMBG	9,209	13,490			
Gross margin breakdown Core camera solution 48.4% 46.4% 43.1% 44.5% 46.0% Construction 16.2% 23.0% 18.1% 20.7% 20.4% Innovative business 37.3% 40.5% 40.4% 40.9% 42.7% Domestic 44.9% 44.5% 44.0%	Domestic	45,807	59,435			
Core camera solution 48.4% 46.4% 43.1% 44.5% 46.0% Construction 16.2% 23.0% 18.1% 20.7% 20.4% Innovative business 37.3% 40.5% 40.4% 40.9% 42.7% Domestic 44.9% 44.5% Export 50.7% 44.0% Growth YoY 8 8 7% 10% 19% Gross profit 11% 22% 1% 13% 23% Operating Income 18% 22% -19% 31% 27%	Export	17,697	21,985			
Construction 16.2% 23.0% 18.1% 20.7% 20.4% Innovative business 37.3% 40.5% 40.4% 40.9% 42.7% Domestic 44.9% 44.5% 44.0%<	Gross margin breakdown					
Innovative business 37.3% 40.5% 40.4% 40.9% 42.7% Domestic Export 44.9% 44.5% 44.0% <t< td=""><td>Core camera solution</td><td>48.4%</td><td>46.4%</td><td>43.1%</td><td>44.5%</td><td>46.0%</td></t<>	Core camera solution	48.4%	46.4%	43.1%	44.5%	46.0%
Domestic 44.9% 44.5% Export 50.7% 44.0% Growth YoY Revenues 10% 28% 7% 10% 19% Gross profit 11% 22% 1% 13% 23% Operating Income 18% 22% -19% 31% 27%	Construction	16.2%	23.0%	18.1%	20.7%	20.4%
Export 50.7% 44.0% Growth YoY Revenues 10% 28% 7% 10% 19% Gross profit 11% 22% 1% 13% 23% Operating Income 18% 22% -19% 31% 27%	Innovative business	37.3%	40.5%	40.4%	40.9%	42.7%
Export 50.7% 44.0% Growth YoY Revenues 10% 28% 7% 10% 19% Gross profit 11% 22% 1% 13% 23% Operating Income 18% 22% -19% 31% 27%	Domestic	44.9%	44.5%			
Revenues 10% 28% 7% 10% 19% Gross profit 11% 22% 1% 13% 23% Operating Income 18% 22% -19% 31% 27%						
Revenues 10% 28% 7% 10% 19% Gross profit 11% 22% 1% 13% 23% Operating Income 18% 22% -19% 31% 27%	Growth YoY					
Gross profit 11% 22% 1% 13% 23% Operating Income 18% 22% -19% 31% 27%		10%	28%	7%	10%	19%
Operating Income 18% 22% -19% 31% 27%						
	EPS	8%	26%	-19%	28%	15%

Source: Company data, CMBIGM estimates



Dahua FY3Q22 results review

- Revenue was RMB7,085mn (-11% YoY, -14% QoQ), missed our estimate by 17% and consensus by 18%.
- Gross profit was RMB2,661mn (-15% YoY, -11% QoQ), missed our estimate by 13% and consensus by 17%.
- **Gross margin** was 37.6%, (-1.6 pct pts YoY, +1.1 pct pts QoQ), beat our estimate by 1.7 pct pts and consensus by 0.6 pct pts.
- Operating profit was RMB28mn (-95% YoY, -96% QoQ), missed our estimate by 95% and consensus by 96%.
- Operating margin was 0.4% (-7.2 pct pts YoY, -9.4 pct pts QoQ), below our estimate by 5.6 pct pts and consensus by 8.4 pct pts.
- **Net profit** was RMB173mn (-77% YoY, -85% QoQ), below our estimate by 75% and consensus by 77%
- **EPS** was RMB0.06 (-77% YoY, -85% QoQ), below our estimate by 75%.

Figure 11: FY3Q22 results review

=	Sep-21	Jun-22	Sep-22			Sep-22		Sep-22	
	3Q21	2Q22	3Q22			3Q22	versus	3Q22	versus
RMB mn	actual	actual	actual	YoY	QoQ	CMBI	CMBI	consensus	consensus
Revenue	7,980	8,239	7,085	-11%	-14%	8,535	-17%	8,653	-18%
Gross profit	3,123	3,002	2,661	-15%	-11%	3,064	-13%	3,200	-17%
Gross margin	39.1%	36.4%	37.6%	-1.6 pct pts	1.1 pct pts	35.9%	1.7 pct pts	37.0%	0.6 pct pts
Operating profit (adjusted)	607	806	28	-95%	-96%	516	-95%	758	-96%
Operating margin (adjusted)	7.6%	9.8%	0.4%	-7.2 pct pts	-9.4 pct pts	6.0%	-5.6 pct pts	8.8%	-8.4 pct pts
Net non-op	155	494	116			250		95	
PBT	762	1,300	144	-81%	-89%	766	-81%	853	-83%
Tax	-26	-101	18			-77			
Minorities	20	-35	11			-6			
Net income	756	1,164	173	-77%	-85%	684	-75%	752	-77%
EPS RMB	0.25	0.39	0.06	-77%	-85%	0.23	-75%		

Source: Company data, CMBIGM



Figure 12: Dahua earnings revision

		2022E			2023E		2024E			
RMB mn	New	Old	%Diff	New	Old	%Diff	New	Old	%Diff	
Sales	31,789	35,562	-11%	32,041	39,078	-18%	36,655	45,184	-19%	
Gross profit	11,805	12,927	-9%	12,242	14,622	-16%	14,032	17,066	-18%	
OP Profit	2,465	3,341	-26%	3,557	4,331	-18%	3,923	5,300	-26%	
PBT	3,011	4,076	-26%	3,686	4,729	-22%	3,837	5,602	-32%	
Net profit	2,802	3,695	-24%	3,358	4,238	-21%	3,651	5,178	-29%	
EPS	0.92	1.22	-24%	1.11	1.40	-21%	1.20	1.71	-29%	
Margins										
GM	37.1%	36.4%	78 bps	38.2%	37.4%	79 bps	38.3%	37.8%	51 bps	
OPM	7.8%	9.4%	-164 bps	11.1%	11.1%	2 bps	10.7%	11.7%	-103 bps	
PBT margin	9.5%	11.5%	-199 bps	11.5%	12.1%	-60 bps	10.5%	12.4%	-193 bps	
Net margin	8.8%	10.4%	-157 bps	10.5%	10.8%	-36 bps	10.0%	11.5%	-150 bps	

Source: Company data, CMBIGM estimates

Figure 13: Dahua CMBI estimates vs. consensus

		2022			2023			2024	
RMB mn	СМВІ	Street	СМВІ	Street	СМВІ	Street	СМВІ	Street	Diff
Sales	31,789	36,759	-14%	32,041	42,474	-25%	36,655	49,233	-26%
Gross profit	11,805	14,135	-16%	12,242	16,633	-26%	14,032	19,426	-28%
OP Profit	2,465	3,978	-38%	3,557	4,866	-27%	3,923	5,994	-35%
PBT	3,011	4,207	-28%	3,686	5,047	-27%	3,837	6,237	-38%
Net profit	2,802	3,921	-29%	3,358	4,660	-28%	3,651	5,723	-36%
EPS	0.9	1.3	-29%	1.1	1.5	-28%	1.2	1.9	-37%
Margins									
GM	37.1%	38.5%	-132 bps	38.2%	39.2%	-95 bps	38.3%	39.5%	-118 bps
OPM	7.8%	10.8%	-307 bps	11.1%	11.5%	-35 bps	10.7%	12.2%	-147 bps
PBT margin	9.5%	11.4%	-197 bps	11.5%	11.9%	-38 bps	10.5%	12.7%	-220 bps
Net margin	8.8%	10.7%	-185 bps	10.5%	11.0%	-49 bps	10.0%	11.6%	-166 bps

Source: Company data, Bloomberg, CMBIGM estimates



Valuation

Hikvision (002145 CH, BUY, Trim TP RMB41.46 → RMB37.44)

Maintain BUY with new target price of RMB37.44 (prior RMB41.46). We derived our target price from unchanged 20x FY23E P/E, 1-SD below its three-year mean. We think current valuation has over-reacted to the U.S. new restrictions. Hikvision's continuous R&D and business diversification should drive-re-rating. Also, Hikvision announced share repurchase plan of no less than RMB2-2.5bn in the coming 12 months on 16 Sep. Its technology/ market leadership as well as strong cash flow should provide support to share price amid market fluctuation.

Dahua (002236 CH, HOLD, Trim TP RMB13.97 → RMB11.07)

Maintain HOLD with new target price of RMB11.07 (prior RMB13.97), based on unchanged 10x FY23 P/E, lowest trading multiple in the past three years to reflect heightening macro uncertainties. We are less positive on Dahua as its technology, supply chain management and cash flow are worse than Hikvision. We expect valuation gap between Hikvision and Dahua to widen.

Figure 14: Hikvision 12M forward P/E chart

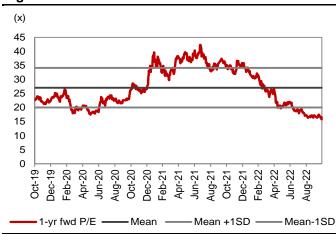
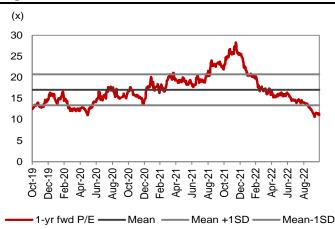


Figure 15: Dahua 12M forward P/E chart



Source: Company data, CMBIGM, Bloomberg

Source: Company data, CMBIGM, Bloomberg

Figure 16: Peers' valuation

			Mkt Cap	Price	TP	P/E	EV/sales	RC	DE	Sales CAGR	EPS CAGR
Company	Ticker	Rating	(US\$ mn)	(LC)	(LC)	FY23E	FY23E	FY22E	FY23E	FY21-24E	FY21-24E
Hikvision	002415 CH	BUY	36,910	28.40	37.44	15.2	2.3	20.6	23.4	12%	6%
Dahua	002236 CH	HOLD	4,969	11.89	11.07	10.7	0.9	11.2	12.2	4%	2%
SenseTime	20 HK	BUY	5,079	1.19	2.10	n.a.	3.5	n.a.	n.a.	18%	n.a.
Alnnovation	2121 HK	NR	1,331	18.68	n.a.	n.a.	3.4	n.a.	n.a.	63%	n.a.
Cambricon Tech	688256 CH	NR	3,579	64.82	n.a.	n.a.	16.3	n.a.	n.a.	44%	n.a.
Arcsoft	688088 CH	NR	1,373	24.54	n.a.	42.9	10.1	5.4	7.9	25%	34%
					Mean	31.2	7.4	11.9	14.2	28%	18%
					Median	29.0	3.5	10.8	12.7	25%	18%

Source: Bloomberg, CMBIGM estimates



Financial Summary - Hikvision (002415 CH)

Income statement						Cash flow summary					
YE 31 Dec (RMB mn)	FY20	FY21	FY22E	FY23E	FY24E	YE 31 Dec (RMB mn)	FY20		FY22E	-	
Revenue	63,503	81,420	86,749	95,369	113,414	Net profit	13,386	16,800	13,765	17,661	20,30
Cost of sales	(33,958)	(45,329)	(50,467)	(54, 359)	(62,932)	Depreciation/amortization	845	892	1,402	1,698	1,919
Gross profit	29,546	36,091	36,283	41,009	50,481	Change in working capital	597	(7,081)	(729)	10,912	(3,118
						Others	1,260	2,097	588	935	1,029
Selling exp	(7,378)	(8,586)	(9,619)	(9,926)	(11,708)	Net cash from operating	16,088	12,709	15,026	31,207	20,137
Admin exp	(1,790)	(2,132)	(2,610)	(2,685)	(3,304)						
R&D exp	(6,379)	(8,252)	(10, 140)	(10,319)	(12,640)	Capex	(2,004)	(3,098)	(3,579)	(3,477)	(3,496
Other operating exp.	(416)	(561)	(541)	(621)	(717)	Other	(551)	(58)	170	0	(
Operating profit	13,583	16,559	13,373	17,458	22,112	Net cash from investing	(2,555)	(3,156)	(3,409)	(3,477)	(3,496)
Finance costs	(396)	133	1,094	1,495	1,699	Net borrowings	2,049	(1,842)	2,876	(2,582)	1,085
Other non-oper exp.	2,086	1,776	1,694	1,710	(104)	Dividend paid	(6,542)	(7,475)	(8,490)	(6,956)	(8,925)
Pre-tax profit	15,273	18,468	16,161	20,663	23,706	Other	(189)	(791)	2,604	(935)	(1,029
•						Net cash from financing	(4,681)	(10,10	(3,010)	(10,47	(8,869
Income tax expense	(1,595)	(957)	(1,674)	(2,066)	(2,371)						
Minority interests	(293)	(710)	(716)	(935)	(1,029)	Net change in cash	8,852	, ,	,	17,257	7,771
Net profit to S/H	13,386	16,800	13,770	17,661	20,306	Cash (beginning of the year)	27,072	35,460	34,722	43,478	60,735
						Exchange difference	(464)	(182)	149	0	(
						Cash (end of the year)	35,460	34,722	43,478	60,735	68,506
Balance sheet	FV00	E)/O4	E)/OOE	EVOCE	EVO 4E	Key ratios	EV/00	EV04	E)/OOE	E)/OOE	E)/04E
YE 31 Dec (RMB mn) Current assets	FY20 74,763	FY21 86,019	FY22E	FY23E	FY24E 137,284	YE 31 Dec Revenue mix	FY20	FY21	FY22E	FY23E	FY24E
Cash & equivalents	35,460	34,722	43,478	60,735	•	Core camera solution	88%	80%	79%	78%	78%
Account receivables	24,098	28,563	32,028	33,695	,	Construction	3%	5%	4%	4%	3%
Inventory	11,478	17,974	16,550	18,290	-	Smart home business	10%	15%	17%	18%	19%
Other current assets	3,727	4,760	4,405	5,024	5,882	Robotics	10 /0	13 /0	17 70	10 /0	1370
Other current assets	3,121	4,700	4,403	3,024	3,002	Other innovative business					
Non-current assets	13,939	17,845	21,293	23,072	24,648	Other innovative business	10%	28%	7%	10%	19%
PPE	7,301	9,019	12,030	13,808	-	Growth (%)	18%	22%	-19%	31%	27%
Intangible assets	1,634	1,665	1,928	1,928	1,928	Revenue	8%	26%	-18%	28%	15%
Other non-current assets	5,003	7,162	7,335	7,335	7,335	Operating profit	8%	26%	-19%	28%	15%
Total assets		,			161,932	EPS	0 /0	20 /0	-1970	20 /0	1370
Current liabilities	31,225	33,292	35,133	48,484	57,587	Margin (%)	46.5%	44.3%	41.8%	43 N%	44.5%
ST borrowings	7,507	4,672	5,584	3,998	•	Gross margin		20.3%			
Account payables	14,631	17,230	17,990	31,562	-	Operating margin		20.5%			
Account payables Accrued expense	6,173	7,888	7,803	8,336		Net profit margin	ZI.I/0	20.0 /0	10.8/0	10.5 /0	11.57
Other current liabilities	2,914	3,502	3,757	4,588		Net pront margin					
Other ourrent habilities	2,014	0,002	0,707	4,000	4,000	Balance sheet ratio	2.39	2.58	2.75	2.43	2.38
Non-current liabilities	2,997	5,178	9,814	8,818	9,451	Current ratio (x)	136	118	127	126	119
LT borrowings	1,961	3,284	5,214	4,218		Receivable turnover days	65	66	73	67	66
Other non-current liabilities	1,036	1,894	4,600	4,600	•	Inventory turnover days	157	139	130	121	121
Total liabilities	34,222	38,470	44,947	57,302		Payable turnover days		net cash			
	, –	, -	,	,		Net debt to equity					
Share capital	9,343	9,336	9,433	9,433	9,433						
Capital surplus	5,179	5,404	9,046	9,046	9,046	Profitability (%)	27.1%	28.7%	20.6%	23.4%	23.4%
Retained earnings	40,479	49,821	55,097	65,802	77,183	ROE	42.7%	44.9%	28.2%	39.2%	52.5%
Other recention	(1,207)	(1,100)	(3,341)	(3,341)	(3,341)	ROIC					
Other reserves	(1,201)	(1,100)	(-, ,	(-, ,	(-,)						

2,573 2,573

DPS (RMB)

BVPS (RMB)

53,794 63,461 70,235 80,940 92,321 Per share data (RMB)

88,702 103,865 117,754 140,814 161,932 EPS (RMB)

Source: Company data, CMBIGM estimates

Minority interest

Total liabilities and

Total equity

685 1,934

2,573

1.43

0.70

5.76

88%

1.80

0.80

6.80

80%

1.46

0.90

7.45

79%

1.87

0.74

8.58

78%

2.15

0.95

9.79

78%



Financial Summary - Dahua (002236 CH)

Income statement						Cash flow summary					
YE 31 Dec (RMB mn)	FY20	FY21	FY22E	FY23E	FY24E	YE 31 Dec (RMB mn)	FY20	FY21	FY22E	FY23E	FY24
Revenue	26,466	32,835	31,789	32,041	36,655	Net profit	3,903	3,378	2,802	3,358	3,65
Cost of sales	(15,164)	(20,059)	(19,984)	(19,799)	(22,623)	Depreciation/amortization	331	393	583	647	657
Gross profit	11,302	12,777	11,805	12,242	14,032	Change in working capital	(186)	(2,128)	(3,852)	453	(2,957
•						Others	354	85	229	(41)	(44
Selling exp	(4,291)	(4,664)	(4,480)	(4.258)	(4,770)	Net cash from operating	4,402	1,728	(239)	4,418	1,306
Admin exp	(785)	(955)	(977)	,	(1,078)	operaning	-,	-,	(===,	.,	,,,,,,,,,
R&D exp	(2,998)	(3,452)	(3,701)	` ,	(4,060)	Capex	(642)	(1,227)	(1,179)	(481)	(550
Other operating exp.	(162)	(183)	(183)	(166)	(201)	Other	452	(627)	739	(401)	(330)
Operating profit	3,066	3,523	2,465	3,557	3,923	Net cash from investing		(1,855)	(440)	(481)	(550)
Operating profit	3,000	3,323	2,403	3,331	3,923	Net cash from livesting	(190)	(1,033)	(440)	(401)	(330)
Finance costs	58	57	544	72	(80)	Net borrowings	715	1,374	1,333	71	91
Other non-oper exp.	1,125	(111)	2	56	(6)	Dividend paid	(399)	(803)	(809)	(671)	(804)
·	,	` ,			3,837	Other	53	` '	72	` ,	(004)
Pre-tax profit	4,249	3,470	3,011	3,686	3,037			(77)		41 (FFO)	
In	(04.4)	(50)	(400)	(200)	(000)	Net cash from financing	369	494	596	(559)	(669)
Income tax expense	(314)	(58)	(198)	(369)	(230)	Not about the sect	4 500		(00)	2 272	
Minority interests	(32)	(33)	(10)	41	44	Net change in cash	4,580	367	(82)	3,378	87
Net profit to shareholders	3,903	3,378	2,802	3,358	3,651	Cash at beginning of the year	3,084	7,472	7,731	7,794	11,173
						Exchange difference	(193)	(107)	146	0	C
						Cash at the end of the year	7,472	7,731	7,794	11,173	11,260
Balance sheet						Key ratios					
YE 31 Dec (RMB mn)	FY20	FY21	FY22E	FY23F	FY24E	YE 31 Dec	FY20	FY21	FY22E	FY23F	FY24F
Current assets	29,112		34,010			Revenue mix	•				– . –
Cash & equivalents	7,472	7,731	7,794	11,173	11,260	Domestic	60%	59%	53%	56%	54%
Account receivables	13,090	15,494	17,686	17,192			40%	41%	47%	44%	46%
Inventory	4,928	6,810	5,818	6,671	7,960	0.1010000	10 70	1170	11 70	1170	1070
Other current assets	3,622	3,469	2,712	2,767	2,867	Growth (%)					
Other durient deserts	0,022	0,400	2,7 12	2,707	2,007	Domestic	-3%	21%	-12%	6%	10%
Non-current assets	7,483	10,551	11,488	11,322	11,215	Overseas	8%	29%	10%	-5%	20%
PPE	2,680	•		•	•	Revenue	1%	24%			
	,	4,180	4,971	5,061	5,221				-3%	1%	14%
Intangible assets	482	673	635	378	112	Gross profit	5%	13%	-8%	4%	15%
Other non-current assets	4,321	5,698	5,882	5,882	5,882	Operating profit	-1%	15%	-30%	44%	10%
Total assets	36,595	44,056	45,498	49,125	54,066	EPS	23%	-13%	-18%	20%	9%
Current liabilities	14,662	17,412	16,886	17,754	19,757	Profit & loss ratio (%)					
ST borrowings	402	1,216	3,111	3,111	3,111	Gross margin	43%	39%	37%	38%	38%
Account payables	9,703		9,309	10,277		Operating margin	11.6%	10.7%	7.8%	11.1%	10.7%
Accrued expense	3,676	3,319	3,109	3,009	3,385	Net profit margin	14.7%	10.3%	8.8%	10.5%	10.0%
Other current liabilities	881	1,074	1,356	1,356	1,356	rec prem mang	,0	. 0.0 70	0.070	. 0.0 70	. 0.0 / 0
	-	.,	.,	.,	.,	Balance sheet ratio					
Non-current liabilities	1,729	2,473	1,859	1,930	2,020		1.99	1.92	2.01	2.13	2.17
LT borrowings	878	1,553	1,054	1,125	1,216	Receivable turnover days	182	159	190	199	189
Other non-current liabilities	851	921	804	804	804	Inventory turnover days	60		72	71	73
Total liabilities	16,391	19,886				Payable turnover days	123	120	121	112	110
างเลา แลมแนเซอ	10,331	13,000	10,744	13,004	21,110	Net debt to equity			net cash		
Share capital	2,996	2,995	3,033	3,033	3,033	Not dept to equity	00011	00011	00011	00011	0001
•	-					Profitability (9/)					
Capital surplus	1,990	2,940	3,860	3,860	3,860	Profitability (%)	22.207	45.007	44.007	10.007	40.004
Retained earnings	15,309	17,885	19,904		-	ROE	22.0%		11.2%	12.2%	12.0%
Other reserve	(521)	(201)	(568)	(568)	(568)	ROIC	24.0%	23.1%	11.5%	14.5%	15.9%
Minority interest	431	553	524	524	524						
Total equity	19,773	•		28,917		• •					
Total liabilities and equity	36,595	44,056	45,498	49,125	54,066	EPS (RMB)	1.30		0.92	1.11	1.20
						DPS (RMB)	0.13	0.27	0.27	0.22	0.26
						DV/DO (DMD)	6.60	7.00	0.65	0.50	40 47

BVPS (RMB)

6.60

7.89

8.65

Source: Company data, CMBIS estimates

9.53 10.47



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