CMB International Securities | Equity Research | Company Update

Dahua (002236 CH)

Gap with Hikvision not narrowed

Dahua FY20 revenue grew at mere 1% YoY to RMB26.5bn as channel sales in China -30% YoY despite +8% YoY in overseas business. GPM and cash flow continued to improve but these might not be sustainable in FY21E as 1) FY20 GPM improvement was due to COVID-19 related thermal camera sales in 1H20 and 2) better cash conversion was driven by longer DPO but not shorter DSO. We maintain our view that Dahua's AI technology gap with Hikvision will result in slower "To B" business growth amid AI deployment.

- GPM increase may not be sustainable in FY21E. Dahua delivered in-line FY4Q20 results with revenue growth of +6% YoY to RMB10,300mn but net profit dropped 18% YoY to RMB1,078mn. Dahua 4Q20 gross margin declined 2.3 pct pts YoY to 39.1% was a negative surprise (last time GPM <40% was in 1Q19). We attribute the margin drag to 1) more testing and delivery work for "To G" projects in 4Q20 and 2) weaker channel sales (FY20 revenue -30% YoY) and margin (GPM -4.4 pct pts to 25.9%). We believe FY20 margin improvement (GPM +1.6 pct pts YoY to 42.7%) was largely due to higher thermal camera sales to overseas market in 1H20 (FY1H20 overseas GPM: 57%) and such increment may not be sustainable in FY21E.</p>
- Cash flow improved but not driven by shorter DSO. Operating cash flow in FY20 increased by 175% YoY to RMB4,402mn, compared to RMB1,600mn in FY19. Cash conversion ratio was at 1.13, the first time exceeding 1 in the past 10 years. However, we noticed that the cash flow improvement is largely driven by extending account payable days (123 in FY20 vs. 109 in FY19) rather than shortening days sales outstanding (182 in FY20 vs. 180 in FY19).
- Increasing R&D to capture AI opportunities. Dahua disclosed revenue and gross margin breakdown by product and customer segment for the first time. Dahua showed a similar pattern as Hikvision that its "To B" segment grew strongly at +24% YoY in FY20 amid COVID-19. This is in-line with our view that AI has led to diversified camera use cases rather than just public security ("To G" business). In FY20, Dahua increased R&D to RMB3bn (+11.3% YoY) and its AI R&D team size has exceeded a thousand people.
- Maintain HOLD. We largely maintained our FY21-22E revenue and net profit forecast. We slightly raised our target price to RMB25.42 (prior RMB25.35) on unchanged 17x FY22E P/E, in-line with its three-year mean.

Earnings Summary

(YE 31 Dec)	FY19	FY20	FY21E	FY22E	FY23E
Revenue (RMB mn)	26,149	26,466	30,473	34,926	38,990
YoY growth (%)	10%	1%	15%	15%	12%
Net profit (RMB mn)	3,188	3,903	3,774	4,480	5,154
EPS (RMB)	1.06	1.30	1.26	1.50	1.72
YoY growth (%)	26%	23%	-3%	19%	15%
Consensus EPS (RMB)	1.06	1.30	1.48	1.77	n.a.
PE (x)	21.6	17.6	18.2	15.3	13.3
PB (x)	4.4	3.5	3.0	2.6	2.2
Dividend Yield (%)	0.23	0.29	0.33	0.38	0.45
ROE (%)	23%	22%	18%	18%	18%
Net debt to equity	net cash				

Source: Company data, Bloomberg, CMBIS estimates



HOLD (Maintain)

Target Price	RMB25.42
(Previous TP	RMB25.35)
Up/Downside	+11.2%
Current Price	RMB22.94

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Stock Data

Mkt Cap (RMB mn)	66,082
Avg 3 mths t/o (RMB mn)	1,381.20
52w High/Low (RMB)	27.26/ 14.61
Total Issued Shares (mn)	2,996
Source: Bloomberg	

Shareholding Structure

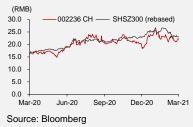
Fu Liquan - Chairman	34.2%
Zhu Jiangming - Director	5.4%

Source: HKEx

Share Performance

	Absolute	Relative
1-mth	-1.3%	9.3%
3-mth	11.9%	9.8%
6-mth	8.8%	-0.2%
Source: Bloomberg	1	

12-mth Price Performance



Auditor: BDO

Related Reports

"China Al surveillance – Ambarella suggested strong Al demand" – 4 Mar 2021

Focus Charts



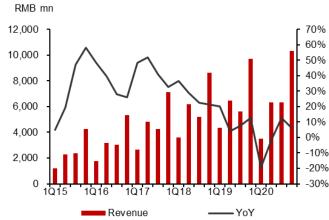
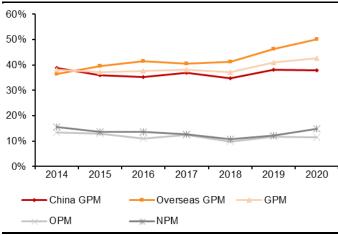


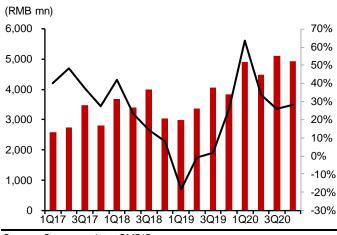


Figure 3: Margins



Source: Company data, CMBIS

Figure 5: Inventory



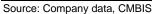
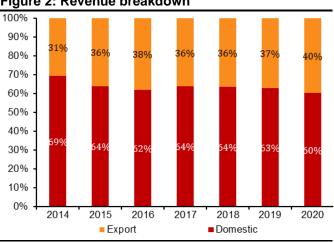


Figure 2: Revenue breakdown



Source: Company data, CMBIS

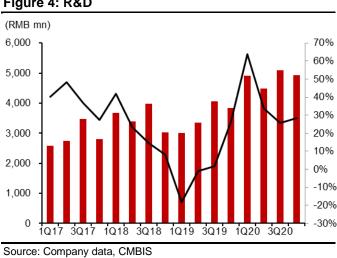


Figure 6: Net profit vs. operating cash flow

2010 2011 2012 2013 2014 2015 2016 2017 2018 2019 2020

Operating cash flow

Figure 4: R&D

Rmb mn

5,000

4,500

4,000 3,500

3,000

2,500

2,000 1,500

1,000

500

(500)

0





FY4Q20 results review

- **Revenue** was at RMB10,300mn (+6% YoY, +63% QoQ), in-line with our estimate but below consensus by 4%.
- **Gross profit** was at RMB4,028mn (+0% YoY, +59% QoQ), below our estimate by 1% and consensus by 5%.
- **Gross margin** was at 39.1%, (-2.3 pct pts YoY, -0.9 pct pts QoQ), below both our and consensus estimates of 39.6%
- **Operating profit** was at RMB1,342mn (-15% YoY, +160% QoQ), below our estimates by 3%
- **Operating margin** was at 13.0% (-3.2 pct pts YoY, +4.9 pct pts QoQ), below our estimates by 0.5 pct pts
- Net profit was at RMB1,078mn (-18% YoY, -26% QoQ), below our estimates by 7% and consensus by 25%
- EPS was at RMB0.36 (-18% YoY, -26% QoQ), below our estimate

Figure 7: FY4Q20 results review

	Dec-19 4Q19	Sep-20 3Q20	Dec-20 4Q20			Dec-20 4Q20	versus	Dec-20 4Q20	versus
RMB mn	actual	actual	actual	ΥοΥ	QoQ	CMBI	CMBI	consensus	consensus
Revenue	9,721	6,328	10,300	6%	63%	10,297	0%	10.683	-4%
Gross profit	4,022	2,534	4,028	0%	59%	4,074	-1%	4,230	-5%
Gross margin	41.4%	40.0%	39.1%	-2.3 pct pts	-0.9 pct pts	39.6%	-0.4 pct pts	39.6%	-0.5 pct pts
Adj. Operating profit	1,575	516	1,342	-15%	160%	1,390	-3%		
Adj. Operating margin	16.2%	8.1%	13.0%	-3.2 pct pts	4.9 pct pts	13.5%	-0.5 pct pts		
Net non-op	-30	954	-103			-95			
PBT	1,545	1,469	1,239	-20%	-16%	1,295	-4%	1,255	-1%
Тах	-215	-22	-122			-143		,	
Minorities	-20	8	-39			3			
Net income	1,311	1,456	1,078	-18%	-26%	1,155	-7%	1,442	-25%
EPS RMB	0.44	0.49	0.36	-18%	-26%	0.39	-7%		

Source: Company data, CMBIS

Figure 8: FY20 results review

	FY	FY		FY		FY	
	2019	2020		2020	versus	2020	versus
RMB mn	actual	actual	YoY	CMBI	CMBI	consensus	consensus
Revenue	26,149	26,466	1%	26,463	0%	26,727	-1%
Gross profit	10,753	11,302	5%	11,347	0%	11,436	-1%
Gross margin	41.1%	42.7%	1.6 pct pts	42.9%	-0.2 pct pts	42.8%	-0.1 pct pts
Adj. Operating profit	3,083	3,066	-1%	3,114	-2%	4,324	-29%
Adj. Operating margin	11.8%	11.6%	-0.2 pct pts	11.8%	-0.2 pct pts	16.2%	-4.6 pct pts
Net non-op	416	1,183		1,191		77	
PBT	3,499	4,249	21%	4,304	-1%	4,401	-3%
Тах	-338	-314		-334			
Minorities	27	-32		10			
Net income	3,188	3,903	22%	3,980	-2%	4,050	-4%
EPS RMB	1.06	1.30	23%	1.33	-2%	1.35	-4%



Earnings revision

Figure 9: Dahua earnings revision

		2021E			2022E	
RMB mn	New	Old	%Diff	New	Old	%Diff
Sales	30,473	30,481	-0%	34,926	34,514	1%
Gross profit	13,024	12,786	2%	15,062	14,619	3%
OP Profit	3,806	3,716	2%	4,655	4,548	2%
PBT	4,183	4,089	2%	5,003	4,918	2%
Net profit	3,774	3,731	1%	4,480	4,468	0%
EPS	1.26	1.25	1%	1.50	1.49	0%
Margins						
GM	42.7%	42.9%	-14 bps	43.1%	41.9%	118 bps
OPM	12.5%	11.8%	72 bps	13.3%	12.2%	114 bps
PBT margin	13.7%	16.3%	-254 bps	14.3%	13.4%	91 bps
Net margin	12.4%	15.0%	-266 bps	12.8%	12.2%	58 bps

Source: Company data, CMBIS

Figure 10: Dahua CMBI estimates vs. consensus

		2021E			2022E	
RMB mn	CMBI	Street	Diff	CMBI	Street	Diff
Sales	30,473	31,914	-5%	34,926	37,442	-7%
Gross profit	13,024	13,501	-4%	15,062	15,901	-5%
OP Profit	3,806	5,066	-25%	4,655	5,971	-22%
PBT	4,183	4,869	-14%	5,003	5,770	-13%
Net profit	3,774	4,431	-15%	4,480	5,246	-15%
EPS	1.3	1.5	-16%	1.5	1.8	-17%
Margins						
GM	42.7%	42.3%	43 bps	43.1%	42.5%	66 bps
OPM	12.5%	15.9%	-338 bps	13.3%	15.9%	-262 bps
PBT margin	13.7%	15.3%	-153 bps	14.3%	15.4%	-108 bps
Net margin	12.4%	13.9%	-150 bps	12.8%	14.0%	-118 bps

Source: Company data, CMBIS, Bloomberg

Operating model

Figure 11: Dahua operating model



Figure 11: Dahua operating m	odel				
RMB mn	2019	2020	2021E	2022E	2023E
Revenues	26,149	26,466	30,473	34,926	38,990
Cost of sales	(15,396)	(15,164)	(17,450)	(19,864)	(21,994)
Gross Profit	10,753	11,302	13,024	15,062	16,996
Gross margin	41.1%	42.7%	42.7%	43.1%	43.6%
R&D	(2,794)	(2,998)	(3,347)	(3,737)	(4,116)
SG&A	(4,694)	(5,076)	(5,651)	(6,423)	(7,223)
Operating Income	3,083	3,066	3,806	4,655	5,380
Operating margin	11.8%	11.6%	12.5%	13.3%	13.8%
Non-Operating Income	416	1,183	376	348	345
Profit Before Tax	3,499	4,249	4,183	5,003	5,725
Income tax (expense) gain	(338)	(314)	(366)	(473)	(514)
Minorities	27	(32)	(43)	(50)	(57)
Net Income to Shareholders	3,188	3,903	3,774	4,480	5,154
Net margin	12.2%	14.7%	12.4%	12.8%	13.2%
EPS (RMB)	1.06	1.30	1.26	1.50	1.72
DPS (RMB)	0.10	0.13	0.27	0.26	0.31
Growth YoY					
Revenues	10%	1%	15%	15%	12%
Gross profit	22%	5%	15%	16%	13%
Operating Income	33%	-1%	24%	22%	16%
EPS	26%	23%	-3%	19%	15%
<u>Revenue mix (By geography)</u>					
Domestic	63%	60%	61%	61%	62%
Overseas	37%	40%	39%	39%	38%
Revenue mix (By product)					
Product	39%	39%			
Solution	49%	48%			
Innovative business	5%	7%			
Others	7%	6%			
Domestic revenue mix			050/	050/	0.494
- To G	36%	36%	35%	35%	34%
- To B	33%	42%	44%	45%	46%
- Others	31%	22%	21%	20%	20%
Gross margin breakdown			44 404	44.00%	44.004
Domestic	38.0%	37.9%	41.4%	41.9%	41.9%
Overseas	46.4%	50.1%	44.9%	45.1%	46.3%
Domestic gross margin breakdown		40 70/			
To G	41.1%	40.7%			
ТоВ	41.7%	41.8%			
Others	30.2%	25.9%			

Figure 12: Dahua quarterly model



DMR mn		0000	0000	1000	10015	00045	00045	10015
RMB mn	1Q20	2Q20	3Q20	4Q20	1Q21E	2Q21E	3Q21E	4Q21E
Revenues	3,502	6,337	6,328	10,300	4,266	7,618	7,009	11,580
Gross Profit	1,724	3,015	2,534	4,028	1,661	3,354	3,052	4,957
Operating profit	177	1,031	516	1,342	214	1,195	472	1,926
Net profit (loss)	318	1,051	1,456	1,078	348	1,070	608	1,747
EPS (RMB)	0.35	0.49	0.36	0.13	0.36	0.20	0.58	0.15
<u>Margins</u>								
Gross margin	49.2%	47.6%	40.0%	39.1%	38.9%	44.0%	43.5%	42.8%
Operating margin	5.1%	16.3%	8.1%	13.0%	5.0%	15.7%	6.7%	16.6%
Net margin	9.1%	16.6%	23.0%	10.5%	8.2%	14.0%	8.7%	15.1%
<u>Growth (QoQ)</u>								
Revenues	-64%	81%	0%	63%	-59%	79%	-8%	65%
Gross Profit	-57%	75%	-16%	59%	-59%	102%	-9%	62%
Operating profit	-89%	482%	-50%	160%	-84%	457%	-61%	308%
Net profit (loss)	-76%	231%	39%	-26%	-68%	207%	-43%	187%
<u>Growth (YoY)</u>								
Revenues	-19%	-2%	13%	6%	22%	20%	11%	12%
Gross Profit	6%	10%	7%	0%	-4%	11%	20%	23%
Operating profit	-31%	13%	51%	-15%	21%	16%	-9%	43%
Net profit (loss)	0%	14%	128%	-18%	10%	2%	-58%	62%



Valuation

Dahua (002236 CH, HOLD, TP RMB25.42)

We slightly raised our target price to RMB25.42 (prior RMB25.35), based on unchanged 17x FY22 P/E, in-line with its 3-year mean. We are less positive on Dahua given weaker R&D in Hikvision. We expect Hikvision valuation gap will continue to widen.

Figure 13: Peers' valuation

			Market Cap	Price	TP	P/	Έ	RC	DE
Company	Ticker	Rating	(US\$ mn)	(LC)	(LC)	FY21E	FY22E	FY21E	FY22E
Dahua	002236 CH	HOLD	10,540	22.94	11.00	15.5	12.9	19.6	19.5
Hikvision	002415 CH	BUY	73,417	51.23	11.00	29.1	24.4	28.4	28.7
China Transinfo	002373 CH	NR	3,885	16.02	N/A	18.9	15.1	11.4	12.7
Thunisoft	300271 CH	NR	2,480	19.50	N/A	20.5	15.3	10.4	12.4
iFlytek	002230 CH	NR	15,325	44.91	N/A	64.2	47.0	11.8	14.0
Cambricon Tech	688256 CH	NR	8,677	141.40	N/A	N/A	N/A	-7.4	-5.0
					Mean	29.6	22.9	12.4	13.7
					Median	20.5	15.3	11.6	13.4

Source: Bloomberg, CMBIS



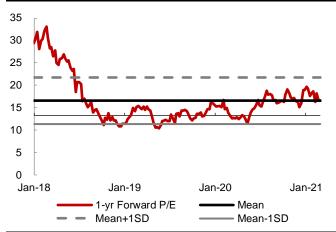
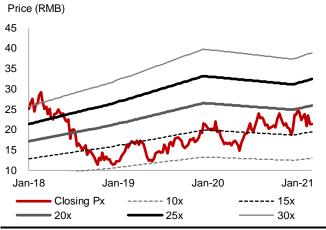


Figure 15: 12M forward P/E band



Source: Company data, CMBIS



Financial Summary

Income statement						Cash flow summary					
YE 31 Dec (RMB mn)	FY19	FY20	FY21E	FY22E	FY23E	YE 31 Dec (RMB mn)	FY19	FY20	FY21E	FY22E	FY23E
Revenue	26,149	26,466	30,473	34,926	38,990	Net profit	3,188	3,903	3,774	4,480	5,154
Cost of sales	(15,396	(15,164	(17,450	(19,864	(21,994	Depreciation/amortization	297	331	662	662	662
Gross profit	10,753	11,302	13,024	15,062	16,996	Change in working capital	(28)	(186)	(6,603)	(2,442)	(714)
						Others	(1,857)	354	43	50	57
Selling exp	(3,953)	(4,291)	(4,807)	(5,460)	(6,133)	Net cash from operating	1,601	4,402	(2,124)	2,750	5,159
Admin exp	(741)	(785)	(844)	(962)	(1,089)						
R&D exp	(2,794)	(2,998)	(3,347)	(3,737)	(4,116)	Capex	(531)	(642)	(457)	(524)	(585)
Other operating exp.	(183)	(162)	(220)	(247)	(277)	Other	(309)	452	0	0	0
Operating profit	3,083	3,066	3,806	4,655	5,380	Net cash from investing	(840)	(190)	(457)	(524)	(585)
Finance costs	33	58	(10)	(19)	(13)	Net borrowings	(1,462)	715	384	113	245
Other non-oper exp.	383	1,125	386	368	359	Dividend paid	(300)	(399)	(803)	(776)	(922)
Pre-tax profit	3,499	4,249	4,183	5,003	5,725	Other	(120)	53	(43)	(50)	(57)
-						Net cash from financing	(1,882)	369	(462)	(713)	(733)
Income tax expense	(338)	(314)	(366)	(473)	(514)	-	• •		. ,		
Minority interests	27	(32)	(43)	(50)	(57)	Net change in cash	(1,121)	4,580	(3,043)	1,512	3,841
Net profit to S/H	3,188	3,903	3,774	4,480	5,154	Cash at beginning of the year	4,160	3,084	7,472	4,428	5,941
						Exchange difference	45	(193)	0	0	0
						Cash at the end of the year	3,084	7,472	4,428	5,941	9,782

Balance sheet						Key ratios					
YE 31 Dec (RMB mn)	FY19	FY20	FY21E	FY22E	FY23E	YE 31 Dec	FY19	FY20	FY21E	FY22E	FY23E
Current assets	22,975	29,112	32,176	37,814	43,442	Revenue mix					
Cash & equivalents	3,084	7,472	4,428	5,941	9,782	Domestic	63%	60%	61%	61%	62%
Account receivables	13,241	13,090	19,035	21,526	22,992	Overseas	37%	40%	39%	39%	38%
Inventory	3,840	4,928	5,517	7,081	7,334						
Other current assets	2,810	3,622	3,194	3,267	3,333	Growth (%)					
						Domestic	9%	-3%	17%	14%	13%
Non-current assets	6,589	7,483	7,278	7,140	7,063	Overseas	13%	8%	12%	15%	10%
PPE	1,958	2,680	2,611	2,610	2,669	Revenue	10%	1%	15%	15%	12%
Intangible assets	492	482	345	209	73	Gross profit	22%	5%	15%	16%	13%
Other non-current assets	4,139	4,321	4,321	4,321	4,321	Operating profit	33%	-1%	24%	22%	16%
Total assets	29,565	36,595	39,454	44,954	50,505	EPS	26%	23%	-3%	19%	15%
Current liabilities	12,531	14,662	14,166	15,850	16,923	Profit & loss ratio (%)					
ST borrowings	427	402	402	402	402	Gross margin	41%	43%	43%	43%	44%
Account payables	8,098	9,703	9,404	10,549	11,584	Operating margin	11.8%	11.6%	12.5%	13.3%	13.8%
Accrued expense	3,935	3,676	3,479	4,019	4,056	Net profit margin	12.2%	14.7%	12.4%	12.8%	13.2%
Other current liabilities	71	881	881	881	881						
						Balance sheet ratio					
Non-current liabilities	1,057	1,729	2,113	2,226	2,471	Current ratio (x)	1.83	1.99	2.27	2.39	2.57
LT borrowings	154	878	1,262	1,375	1,620	Receivable turnover days	180	182	192	212	208
Other non-current liabilities	904	851	851	851	851	Inventory turnover days	48	60	63	66	67
Total liabilities	13,588	16,391	16,279	18,076	19,394	Payable turnover days	109	123	114	104	104
						Net debt to equity	net	net	net	net	net
Share capital	3,004	2,996	2,996	2,996	2,996						
Capital surplus	1,883	1,990	1,990	1,990	1,990	Profitability (%)					
Retained earnings	11,802	15,309	18,280	21,983	26,216	ROE	22.6%	22.0%	17.8%	18.2%	18.0%
Other reserve	(1,045)	(521)	(521)	(521)	(521)	ROIC	26.3%	24.0%	22.3%	21.1%	22.9%
Minority interest	333	431	431	431	431						
Total equity	15,643	19,773	22,744	26,448	30,680	Per share data (RMB)					
Total liabilities and	29,231	36,164	39,023	44,524	50,074	EPS (RMB)	1.06	1.30	1.26	1.50	1.72
						DPS (RMB)	0.10	0.13	0.27	0.26	0.31
						BVPS (RMB)	5.21	6.60	7.59	8.83	10.24

Source: Company data, CMBIS estimates



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