

Company Update



Eunkyung Park Analyst eunkyung44.park@samsung.com 822 2020 7850

Youngho Kim Research Associate youngho52.kim@samsung.com 822 2020 7853

AT A GLANCE



Target price	KRW120,000	(30.4%)
--------------	------------	---------

		KRW92,000						
	021240 KS							
KRW7.1t/USD6.6b								
77,124,796 (65.3%)								
KRW103,500/KRW78,900								
KRW18.27b/ USD16.92m								
1M	6M	12M						
-8.0	+7.6	+15.0						
-10.8	-1.1	+7.6						
	1M -8.0	KRW7.1t/ 77,124,796 KRW103,500/KR KRU USI 1M 6M -8.0 +7.6						

KEY CHANGES

(KRW)	New	Old	Diff (%)
Recommendation	BUY	BUY	
Target price	120,000	120,000	0.0
2015E EPS	3,932	3,864	1.8
2016E EPS	4,205	4,229	-0.6
2017E EPS	4,709	4,785	-1.6

SUMMARY OF 1Q RESULTS

Diff (%)	Diff (%)		
-q) Samsung Cor	nsensus		
1.0 (3.6)	(4.3)		
2.8 0.7	(6.2)		
1.3 5.5	(2.3)		
5.4 7.9	(1.7)		

Coway (021240 KS) In-line 1Q, except overseas sales

WHAT'S THE STORY?

Event: Coway yesterday reported that its sales and operating profit rose a respective 2.5% and 11.1% y-y to KRW548.2b and KRW100.3b in 1Q—with the former missing forecasts by 4%, while the latter met our expectation and just missed the consensus—as its margin improved 1.4%pts y-y to 18.3%. The net profit figure bettered our forecast, but it would have been in line without one-off gains from liquidating its cosmetics operation in China.

Impact: Despite concerns over stiffer competition, the core domestic rental business of Coway saw sales rise 6.2% y-y as its profitability (after stagnating in 2H14) unexpectedly improved to set a post-2010 high. The firm's overseas sales—which should dictate reevaluation of its enterprise value—disappointed, however, thus limiting overall sales growth to just 2.5%. We nevertheless do not view the 1Q results as solid enough to stem a share-price decline caused by rumors of an ownership change.

Action: We only adjust our full-year forecasts on Coway since its 1Q results largely met our expectations, and thus maintain our 12-month target price of KRW120,000 (based on a DCF valuation, which translates to 30.5x 2015 P/E). The stock also remains at BUY from a medium-to-long-term perspective, as: 1) anticipation of cash-flow improvements are intact—since its rental sales remain solid, despite competition concerns; and 2) the 1Q overseas disappointment does warrant pessimism—as the firm strives to improve such sales.

THE QUICK VIEW

Core business sees stable earnings growth in 1Q: Coway yesterday reported that its sales rose just 2.5% y-y to KRW548.2b, which missed our forecast and the consensus by 4%, but rental sales growth of 6% y-y met our aggressive expectations, thanks to: 1) rental accounts rising 5% y-y amid door-to-door marketing improvements—*nb*, mattress rentals surged 64% y-y; and 2) new sales from high-value-added products boosting its ARPU. Product diversification also lifted the company's outright sales (which suffered in 2014), but its overseas sales fell an unexpected 27% y-y as stiffer competition in China's air purifier market hit sales in that nation—although significant quarterly fluctuations there are normal. Meanwhile, the firm's operating profit grew an as-forecast 11% y-y to KRW100.3b in 1Q as robust rental business sales lifted its operating margin by 1.4%pts y-y to a post-2010 high.

Investment points: If Coway maintains solid rental sales growth, we would expect investment sentiment to improve after being hit by stiffening competition concerns and anticipation of a change in major shareholders, which prompted investors to reevaluate its FCF growth. Notably, sales from Himart and home shopping channels are set to improve in 2H, while the stock could rerate if the firm successfully boosts overseas sales, which its seeks via market diversification based on existing ODM partnerships and the addition of new ones.

VALUATION SUMMARY

	2014	2015E	2016E
Multiples (x)			
P/E	28.5	23.4	21.9
P/B	7.1	6.0	5.4
EV/EBITDA	12.1	10.9	10.0
Div yield (%)	1.8	2.7	2.9
EPS growth (%)	0.0	22.0	6.9
ROE (%)	25.2	26.8	25.3
Per-share data (KRW)			
EPS	3,223	3,932	4,205
BVPS	12,934	15,255	17,074
DPS	1,661	2,500	2,700

Coway



Results and forecasts, by segment

Results and forecasts, by s	1Q14	2Q14	3Q14	4Q14	1Q15	2Q15E	3Q15E	4Q1E	2014	2015E	2016E	2017E
Earnings summary												
(KRWb)												
Sales	535.0	556.9	525.5	542.9	548.2	607.1	564.5	583.7	2,160.3	2,303.5	2,454.2	2,580.8
Gross profit	352.7	369.0	357.3	354.7	373.0	400.5	369.7	381.0	1,433.7	1,524.2	1,607.5	1,690.4
Operating profit	90.3	97.2	95.3	81.7	100.3	106.2	108.7	98.3	364.4	413.5	447.1	497.9
Pre-tax profit	88.4	86.5	85.9	71.5	101.1	102.4	104.9	94.5	332.4	402.9	434.3	486.1
Net profit	66.1	66.3	63.9	53.4	77.6	76.2	78.1	70.3	249.7	302.2	325.7	364.6
Margins (%)												
Gross profit	65.9	66.3	68.0	65.3	68.0	66.0	65.5	65.3	66.4	66.2	65.5	65.5
Operating profit	16.9	17.4	18.1	15.1	18.3	17.5	19.2	16.8	16.9	17.9	18.2	19.3
Pre-tax profit	16.5	15.5	16.4	13.2	18.4	16.9	18.6	16.2	15.4	17.5	17.7	18.8
Net profit	12.4	11.9	12.2	9.8	14.2	12.6	13.8	12.0	11.6	13.1	13.3	14.1
Chg (% y-y)												
Sales	5.4	0.1	(0.9)	3.6	2.5	9.0	7.4	7.5	2.0	6.6	6.5	5.2
Gross profit	3.8	1.5	3.2	2.1	5.8	8.5	3.5	7.4	2.6	6.3	5.5	5.2
Operating profit	29.5	18.6	(1.0)	(10.3)	11.1	9.3	14.0	20.3	7.5	13.5	8.1	11.4
Pre-tax profit	17.5	6.8	6.9	(20.9)	14.3	18.4	22.0	32.1	1.6	21.2	7.8	11.9
Net profit	15.2	11.0	6.4	(21.4)	17.4	15.0	22.1	31.8	1.9	21.0	7.8	11.9
Chg (% q-q)				. ,					1			
Sales	2.1	4.1	(5.6)	3.3	1.0	10.7	(7.0)	3.4				
Gross profit	1.5	4.6	(3.2)	(0.7)	5.2	7.4	(7.7)	3.1				
Operating profit	(0.9)	7.6	(1.9)	(14.3)	22.8	5.9	2.3	(9.5)				
Pre-tax profit	(2.2)	(2.2)	(0.6)	(16.8)	41.3	1.3	2.4	(9.9)				
Net profit	(2.7)	0.3	(3.5)	(16.6)	45.4	(1.7)	2.4	(9.9)				
Sales	()		(/	(/		()		(/				
Household electronics	413.8	429.9	431.3	432.4	439.3	457.7	459.0	460.6	1,707.4	1,816.7	1,920.0	2,001.3
Outright sales	27.6	37.4	31.8	26.7	30.0	41.0	33.0	28.1	123.5	132.1	137.8	137.8
Rental	342.4	346.7	352.7	358.8	363.3	371.0	379.1	387.9	1,400.6	1,501.2	1,598.8	1,680.1
Membership	43.9	45.7	46.9	46.9	46.0	45.7	46.9	44.7	183.4	183.4	183.4	183.4
Exports	45.2	55.7	33.0	33.5	33.0	72.5	39.6	39.1	167.4	184.2	202.6	222.8
Cosmetics	21.0	22.3	17.2	20.0	23.1	24.5	18.9	21.9	80.4	88.5	97.3	102.2
Other (water treatment)	14.8	15.4	14.6	13.6	10.6	15.4	14.6	17.8	58.4	58.4	58.4	58.4
Consolidated other	40.2	33.6	29.5	43.4	42.1	37.0	32.4	44.3	146.7	155.8	176.0	196.1
Chg (% y-y)												
Household electronics	1.7	1.7	4.3	4.9	6.2	6.5	6.4	6.5	3.2	6.4	5.7	4.2
Outright sales	(24.7)	(21.8)	(10.4)	(9.1)	8.8	9.6	4.0	5.0	(17.3)	7.0	4.3	0.0
Rental	4.6	4.5	5.3	5.8	6.1	7.0	7.5	8.1	5.0	7.2	6.5	5.1
Membership	2.6	7.0	8.6	7.4	4.9	0.0	0.0	(4.6)	6.4	0.0	0.0	0.0
Exports	43.6	25.1	(13.0)	9.3	(27.0)	30.0	20.0	16.8	15.8	10.0	10.0	10.0
Cosmetics	17.4	0.5	3.6	1.1	10.5	10.0	10.0	9.5	5.3	10.0	10.0	5.0
Other (water treatment)	63.4	98.4	(31.1)	(31.1)	(28.2)	0.0	0.0	30.7	1.1	0.0	0.0	0.0
Consolidated other	(4.7)	(43.5)	(28.7)	4.3	4.7	10.0	10.0	2.1	(20.6)	6.2	12.9	11.5
Portion of total sales (%)												
Household electronics	77.4	77.2	82.1	79.7	80.1	75.4	81.3	78.9	79.0	78.9	78.2	77.5
Outright sales	5.2	6.7	6.0	4.9	5.5	6.8	5.9	4.8	5.7	5.7	5.6	5.3
Rental	64.0	62.3	67.1	66.1	66.3	61.1	67.2	66.4	64.8	65.2	65.1	65.1
Membership	8.2	8.2	8.9	8.6	8.4	7.5	8.3	7.7	8.5	8.0	7.5	7.1
Exports	8.5	10.0	6.3	6.2	6.0	11.9	7.0	6.7	7.7	8.0	8.3	8.6
Cosmetics	3.9	4.0	3.3	3.7	4.2	4.0	3.3	3.8	3.7	3.8	4.0	4.0
Other (water treatment)	2.8	2.8	2.8	2.5	1.9	2.5	2.6	3.0	2.7	2.5	2.4	2.3
	2.0			2.0	1.5	2.5	2.0	0.0	L.1		<u> </u>	

Source: Company data, Samsung Securities estimates



Number of accounts, by type

	1Q14	2Q14	3Q14	4Q14	1Q15	2Q15E	3Q15E	4Q1E	2014	2015E	2016E	2017E
Accounts ('000 units)												
Total	5,469	5,539	5,571	5,617	5,661				5,617	5,801	5,992	6,191
Chg (% y-y)	0.0	1.2	1.8	2.1	3.5				2.1	3.3	3.3	3.3
Outright sales additions	4,455	4,487	4,538	4,601	4,666				4,601	4,785	4,976	5,175
Chg (% y-y)	2.8	2.6	3.4	3.7	4.7				3.7	4.0	4.0	4.0
Rental accounts	1,014	1,052	1,034	1,016	994				1,016	1,016	1,016	1,016
Chg (% y-y)	(10.7)	(4.3)	(5.0)	(4.7)	(2.0)				(4.7)	0.0	0.0	0.0
Rental additions	129	139	130	130	134				528	552	574	597
Chg (% y-y)	0.90	1.04	0.97	0.95	0.97				0.92	1.00	1.00	1.00
Memberships	317	371	311	332	341				1,330	1,330	1,330	1,330
Chg (% y-y)	(0.4)	24.4	20.7	13.5	7.5				14.1	0.0	0.0	0.0
Rental cancellations	40	60	52	32	40				183	150	135	129
Monthly churn (%)	(35.3)	(26.9)	(16.2)	(19.6)	0.1				(25.1)	(18.0)	(10.0)	(5.0)

Source: Company data, Samsung Securities estimates

Annual-forecast revisions

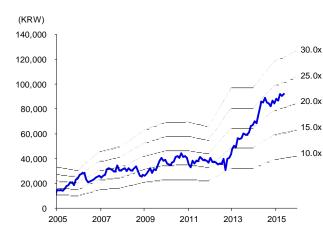
(KRWb)	2014	014 New		OI	d	Chg (%)		
	2015E	2016E	2015E	2016E	2015E	2016E		
Sales	2,160	2,303	2,454	2,308	2,474	(0.2)	(0.8)	
Operating profit	364	413	447	414	451	(0.2)	(0.8)	
Pre-tax profit	332	403	434	399	437	0.9	(0.6)	
Net profit	250	302	326	299	328	0.9	(0.6)	
EBITDA	578	645	694	646	698	(0.1)	(0.5)	
EPS (KRW)	3,223	3,932	4,205	3,864	4,229	1.8	(0.6)	

Source: Company data, Samsung Securities estimates

Valuation summary

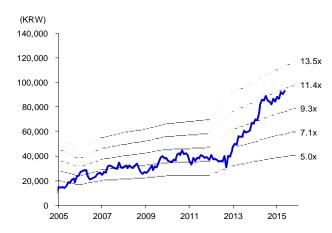
Year-end Dec 31	Sales (KRWb)	Op prof (KRWb)	Pre-tax prof (KRWb)	Net prof (KRWb)	EPS (KRW)	Chg (% y-y)	P/E (x)	Р/В (x)	ROE (%)	EV/EBITDA (x)	Net debt (KRWb)
2012	1,824	235	218	167	2,184	(5.6)	42.1	10.7	22.5	17.8	446
2013	2,118	339	327	245	3,222	47.5	28.6	8.2	28.4	13.0	83
2014	2,160	364	332	250	3,223	0.0	28.5	7.1	25.2	12.1	12
2015E	2,303	413	403	302	3,932	22.0	23.4	6.0	26.8	10.9	(86)
2016E	2,454	447	434	326	4,205	6.9	21.9	5.4	25.3	10.0	(148)
2017E	2,581	498	486	365	4,709	12.0	19.5	4.8	25.3	9.0	(240)

Source: Company data, Samsung Securities estimates



Forward P/E band

Forward EV/EBITDA band



Source: Company data, Samsung Securities estimates

Source: Company data, Samsung Securities estimates

Coway

Income statement

Year-end Dec 31 (KRWb)	2013	2014	2015E	2016E	2017E
Sales	2,118	2,160	2,303	2,454	2,581
Household electronics	1,655	1,707	1,817	1,920	2,001
Exports	145	167	184	203	223
Cosmetics	76	80	88	97	102
Others	58	58	58	58	58
Consolidated others	185	147	156	176	196
Cost of goods sold	721	727	779	847	890
Gross profit	1,397	1,434	1,524	1,607	1,690
Gross margin (%)	66.0	66.4	66.2	65.5	65.5
SG&A expenses	1,058	1,069	1,111	1,160	1,193
Operating profit	339	364	413	447	498
Operating margin (%)	16.0	16.9	17.9	18.2	19.3
Net interest income	(14)	(9)	(4)	(3)	(2)
Net forex-related gains	(4)	(0)	(0)	(0)	(0)
Net equity-method gains	0	0	0	0	0
Other	6	(23)	(6)	(10)	(10)
Pre-tax profit	327	332	403	434	486
Taxes	82	83	101	109	122
Effective tax rate (%)	25.1	24.9	25.0	25.0	25.0
Net profit	245	250	302	326	365
Net margin (%)	11.6	11.6	13.1	13.3	14.1
Operating net profit*	245	250	302	326	365
Operating net margin (%)	248	249	303	324	363
EBITDA	537	578	645	694	760
EBITDA margin (%)	25.4	26.8	28.0	28.3	29.5
Reported EPS (KRW)	3,178	3,237	3,918	4,224	4,727
Adjusted EPS (KRW)**	3,222	3,223	3,932	4,205	4,709
DPS (common, KRW)	1,660	1,661	2,500	2,700	3,050
DPS (preferred, KRW)	0	0	0	0	0
Dividend payout ratio (%)	50.4	49.3	61.4	61.5	62.0

Cash flow statement

Cash now statement					
Year-end Dec 31 (KRWb)	2013	2014	2015E	2016E	2017E
Cash flow from operations	537	537	539	578	636
Net profit	245	250	302	326	365
Depreciation & amortization	198	214	232	247	262
Net forex-translation income	0	0	(2)	(2)	(2)
Net equity-method income	0	0	0	0	0
Gross cash flow	528	490	554	594	649
(-) Change in working capital	9	47	(15)	(16)	(14)
Other	(0)	0	0	(0)	0
Cash flow from investments	(76)	(299)	(318)	(331)	(344)
Capex	(258)	(296)	(318)	(331)	(344)
Free cash flow	195	211	204	228	271
Change in investment assets	(1)	0	0	0	0
Other	183	(3)	0	0	0
Cash flow from financing	(373)	(328)	(121)	(187)	(202)
Change in debt	(260)	(163)	2	(2)	(2)
Change in equity	0	0	0	0	0
Dividends	(78)	(124)	(123)	(185)	(200)
Other	(34)	(42)	0	0	0
Change in cash	86	(91)	100	60	90
Cash at beginning of year	152	239	147	247	307
Cash at end of year	239	147	247	307	397

Note: * Excluding one-off items ** Fully diluted, excluding one-off items *** From companies subject to equity-method valuation Source: Company data, Samsung Securities estimates

SAMSUNG

Balance sheet

Year-end Dec 31 (KRWb)	2013	2014	2015E	2016E	2017E
Current assets	691	597	718	799	906
Cash & equivalents	245	154	254	314	404
Accounts receivable	250	229	244	260	274
Inventories	66	62	66	70	74
Other current assets	131	152	154	154	154
Fixed assets	976	1,025	1,089	1,151	1,210
Investment assets	82	81	81	81	81
Equity in affiliated companies	0	0	0	0	0
Tangible assets	638	675	739	801	860
Intangible assets	177	171	171	171	171
Other long-term assets	80	98	98	98	98
Total assets	1,668	1,622	1,807	1,949	2,116
Current liabilities	677	526	532	534	536
Accounts payable	37	59	63	67	71
Short-term debt	182	164	167	165	163
Other current liabilities	458	303	303	303	303
Long-term liabilities	50	56	56	56	56
Bond & long-term debt	0	1	1	1	1
Other long-term liabilities	50	55	55	55	55
Total liabilities	727	582	588	591	593
Controlling interests' equity	941	1,039	1,218	1,358	1,522
Capital stock	41	41	41	41	41
Capital surplus	126	126	126	126	126
Retained earnings	868	986	1,165	1,305	1,470
Other	(94)	(114)	(114)	(114)	(114)
Non-controlling interests' equity	0	1	1	1	1
Total equity	941	1,039	1,218	1,359	1,523
Net debt	83	12	(86)	(148)	(240)
Book value per share (KRW)	11,242	12,934	15,255	17,074	19,205

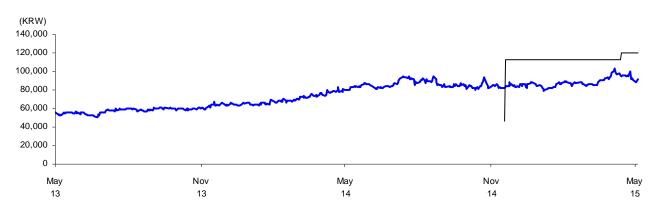
Financial ratios

Year-end Dec 31	2013	2014	2015E	2016E	2017E
Growth (%)					
Sales	6.3	2.0	6.6	6.5	5.2
Operating profit	49.9	7.5	13.5	8.1	11.4
Pre-tax profit	124.4	1.6	21.2	7.8	11.9
Net profit	160.6	1.9	21.0	7.8	11.9
EBITDA	31.1	7.6	11.6	7.6	9.5
Adjusted EPS**	169.1	0.0	22.0	6.9	12.0
Ratios					
ROE (%)	28.4	25.2	26.8	25.3	25.3
ROA (%)	14.3	15.2	17.6	17.3	17.9
ROIC (%)	23.2	22.8	28.4	28.4	29.7
Net debt to equity (%)	8.8	1.1	(7.1)	(10.9)	(15.7)
Interest coverage (x)	18.3	29.6	61.1	65.6	73.9
Receivables turnover (days)	44.1	40.4	37.5	37.5	37.8
Payables turnover (days)	7.1	8.1	9.7	9.7	9.7
Inventory turnover (days)	11.8	10.8	10.1	10.1	10.2
Valuations (x)					
P/E	28.6	28.5	23.4	21.9	19.5
P/B	8.2	7.1	6.0	5.4	4.8
EV/EBITDA	13.0	12.1	10.9	10.0	9.0
EV/EBIT	20.5	20.5	17.2	15.9	14.0
Dividend yield (common, %)	1.8	1.8	2.7	2.9	3.3

Compliance Notice

- During the three months prior to May 6, 2015, Samsung Securities had not participated in any securities issuance (including DRs, CBs, and IPOs) by companies covered in this report.
- As of May 6, 2015, Samsung Securities' holdings of shares and debt instruments convertible into shares of each company covered in this report would not, if such debt instruments were converted, exceed 1% of each company's outstanding shares.
- As of May 6, 2015, the covering analyst(s) did not own any shares, or debt instruments convertible into shares, of any company covered in this report.
- This material has not been distributed to institutional investors or other third parties prior to its publication.
- This report has been prepared without any undue external influence or interference, and accurately reflects the views of the analyst(s) covering the company or companies herein.
- All material presented in this report, unless specifically indicated otherwise, is under copyright to Samsung Securities.
- Neither the material nor its content (including copies) may be altered in any form, or by any means transmitted, copied, or distributed to another party, without prior express written permission from Samsung Securities.
- This memorandum is based upon information available to the public. While we have taken all reasonable care to ensure its reliability, we do not guarantee its accuracy or completeness. This memorandum is not intended to be an offer, or a solicitation of any offer, to buy or sell the securities mentioned herein. Samsung Securities shall not be liable whatsoever for any loss, direct or consequential, arising from the use of this memorandum or its contents. Statements made regarding affiliates of Samsung Securities are also based upon publicly available information and do not necessarily represent the views of management at such affiliates.

■ Target price changes in past two years



Rating changes in past two years

Date	2014/11/19 2015/4/16				
Recommendation	BUY BUY				
Target price (KRW) 113,000 120,000				
Samsung Securiti	es uses the following investment ratings.				
<u>Company</u>					
BUY★★★ BUY HOLD	Expected to increase in value by 30% or more within 12 months and is highly attractive within sector Expected to increase in value by 10% or more within 12 months Expected to increase/decrease in value by less than 10% within 12 months				
SELL SELL★★★	Expected to decrease in value by 10% or more within 12 months Expected to decrease in value by 30% or more within 12 months				
Industry					
OVERWEIGHT NEUTRAL UNDERWEIGHT	Expected to outperform market by 5% or more within 12 months Expected to outperform/underperform market by less than 5% within 12 months Expected to underperform market by 5% or more within 12 months				

SAMSUNG

Global Disclosures & Disclaimers

General

This research report is for information purposes only. It is not and should not be construed as an offer or solicitation of an offer to purchase or sell any securities or other financial instruments or to participate in any trading strategy. This report does not provide individually tailored investment advice. This report does not take into account individual client circumstances, objectives, or needs and is not intended as recommendations of particular securities, financial instruments or strategies to any particular client. The securities and other financial instruments discussed in this report may not be suitable for all investors. The recipient of this report must make its own independent decisions regarding any securities or financial instruments mentioned herein and investors should seek the advice of a financial adviser.

This report may not be altered, reproduced, distributed, transmitted or published in whole or in part for any purpose. References to "Samsung Securities" are references to any company in the Samsung Securities, Co., Ltd. group of companies.

Samsung Securities and/or other affiliated companies, its and their directors, officers, representatives, or employees may have long or short positions in any of the securities or other financial instruments mentioned in this report or of issuers described herein and may purchase and/or sell, or offer to purchase and/or sell, at any time, such securities or other financial instruments in the open market or otherwise, as either a principal or agent. Any pricing of securities or other financial instrument contained herein is as of the close of market for such day, unless otherwise stated. Opinions and estimates contained herein constitute our judgment as of the date of this report and are subject to change without notice.

The information provided in this report is provided "AS IS". Although the information contained herein has been obtained from sources believed to be reliable, no representation or warranty, either expressed or implied, is provided by Samsung Securities in relation to the accuracy, completeness or reliability of such information or that such information was provided for any particular purpose and Samsung Securities expressly disclaims any warranties of merchantability or fitness for a particular purpose. Furthermore, this report is not intended to be a complete statement or summary of the securities, markets or developments referred to herein.

Samsung Securities does not undertake that investors will obtain any profits, nor will it share with investors any investment profits. Samsung Securities, its affiliates, or any of its and their affiliates, directors, officers, employees or agents disclaim any and all responsibility or liability whatsoever for any loss (direct or consequential) or damage arising out of the use of all or any part of this report or its contents or otherwise arising in connection therewith. Information and opinions contained herein are subject to change without notice. Past performance is not indicative of future results. Foreign currency rates of exchange may adversely affect the value, price or income of any security or financial instrument mentioned in this report. For investment advice, trade execution or other enquiries, clients should contact their local sales representative. Any opinions expressed in this report are subject to change without notice and may differ or be contrary to opinions expressed by other business areas or groups of Samsung Securities. Any analysis contained herein is based on numerous assumptions. Different assumptions may result in materially different results. Samsung Securities is under no obligation to update or keep current the information contained herein. Samsung Securities or other flow of information contained in one or more areas or groups within Samsung Securities into other areas or groups of Samsung Securities. Any prices stated in this report are for information purposes only and do not represent valuations for individual securities or other financial instruments. Samsung Securities makes no representation that any transaction can or could have been effected at those prices and any prices contained herein may not reflect Samsung Securities internal books and records or theoretical model-based valuations and may be based on certain assumptions. Different assumptions by Samsung Securities or any other source may yield substantially different results. Additional information is available upon

For reports to be distributed to US:

Securities research is prepared, issued and exclusively distributed by Samsung Securities Co., Ltd., an organization licensed with the Financial Supervisory Service of South Korea. This research may be distributed in the United States only to major institutional investors as defined in Rule 15a-6 of the U.S. Securities Exchange Act of 1934, as amended, and may not be circulated to any other person otherwise. All transactions by U.S. investors involving securities discussed in this report must be effected through Samsung Securities (America) Inc., a broker-dealer registered with the U.S. Securities & Exchange Commission and a member of the Financial Industry Regulatory Authority/SIPC, and not through any non-U.S. affiliate thereof. The analysts listed [on the front of this report] are employees of Samsung Securities Co., Ltd., or a non-U.S. affiliate thereof, and are not registered/qualified as research analysts under applicable U.S. rules and regulations and may not be subject to U.S. restrictions on communications with covered companies, public appearances, and trading securities held by a research analyst account.

For reports to be distributed to UK:

This report is not an invitation nor is it intended to be an inducement to engage in investment activity for the purpose of section 21 of the Financial Services and Markets Act 2000 of the United Kingdom ("FSMA"). To the extent that this report does constitute such an invitation or inducement, it is directed only at (i) persons who are investment professionals within the meaning of Article 19(5) of the Financial Services and Markets Act 2000 (Financial Promotion) Order 2001 (as amended) of the United Kingdom (the "Financial Promotion Order"); (ii) persons who fall within Articles 49(2) (a) to (d) ("high net worth companies, unincorporated associations etc.") of the Financial Promotion Order; and (iii) any other persons to whom this report can, for the purposes of section 21 of FSMA, otherwise lawfully be made (all such persons together being referred to as "relevant persons").

Any investment or investment activity to which this report relates is available only to relevant persons and will be engaged in only with relevant persons. Persons who are not relevant persons must not act or rely on this report.

For reports to be distributed to Korea:

This report is for private circulation only, not for sale, and is issued and distributed only to persons permitted under the laws and regulations of Korea.

For reports to be distributed to Singapore:

This report is provided pursuant to the financial advisory licensing exemption under Regulation 27(1)(e) of the Financial Advisers Regulation of Singapore and accordingly may only be provided to persons in Singapore who are "institutional investors" as defined in Section 4A of the Securities and Futures Act, Chapter 289 of Singapore. This report is intended only for the person to whom Samsung Securities has provided this report and such person may not send, forward or transmit in any way this report or any copy of this report to any other person.

Analyst Certification

The views expressed in this research report accurately reflect the personal views of the analyst(s) about the subject securities or issuers and no part of the compensation of such analyst(s) was, is, or will be directly or indirectly related to the inclusion of specific recommendations or views in this research report. The analyst(s) principally responsible for the preparation of this research report receives compensation based on determination by research management and senior management (not including investment banking), based on the overall revenues, including investment banking revenues of Samsung Securities Co., Ltd. and its related entities and has taken reasonable care to achieve and maintain independence and objectivity in making any recommendations.

Copyright © 2010 Samsung Securities Co., Ltd.. All rights reserved. This report or any portion hereof may not be reprinted, sold or redistributed without the prior written consent of Samsung Securities America Inc.