

# “인고의 세월 뒤 폭풍성장, 새로운 비상”



서울바이오시스(주)의 IR자료 및 재무제표는 인터넷을 통해 다운로드 받으실 수 있습니다.

- 1) IR Book : 서울바이오시스(주) 홈페이지 (<http://www.seoulviosys.com/kr/ir/data/>)
- 2) 재무제표 : 금융감독원 전자공시사이트 (<http://dart.fss.or.kr>)에서 회사명(서울바이오시스) 또는 회사코드(092190)를 입력후 검색버튼 클릭, 재무제표는 분/반기 및 사업보고서를 통해 확인하실 수 있습니다.

- I. 재무성과
- II. 업계 현황 및 전망
- III. 2021년 성장 모멘텀
- IV. Appendix

# I. 재무성과

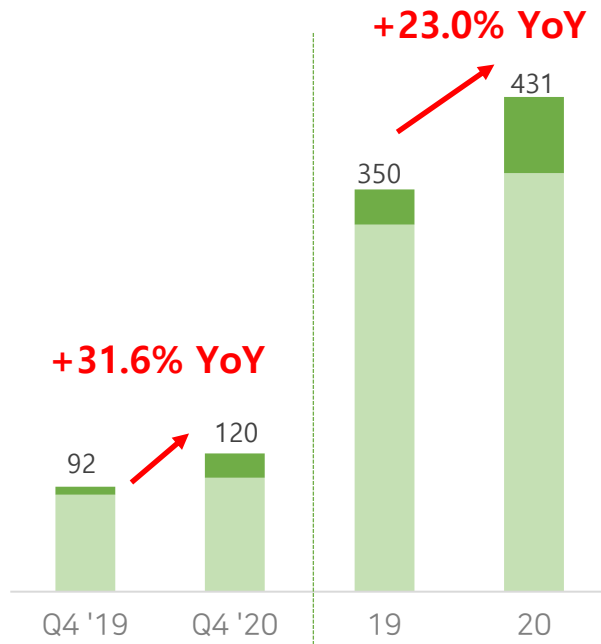
# I. 재무성과 \_ 1) 매출 및 이익율

코로나 상황에도 불구하고, 전년대비 매출액 23%, 영업이익율 5%p 성장

## 매출

Visible Group  
UV Group

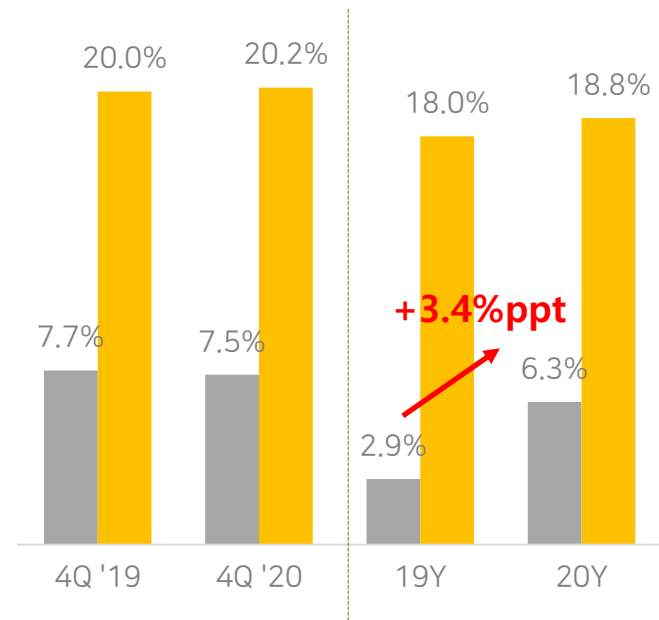
(단위: 십억원, %)



## 영업이익

영업이익율  
EBITDA이익률

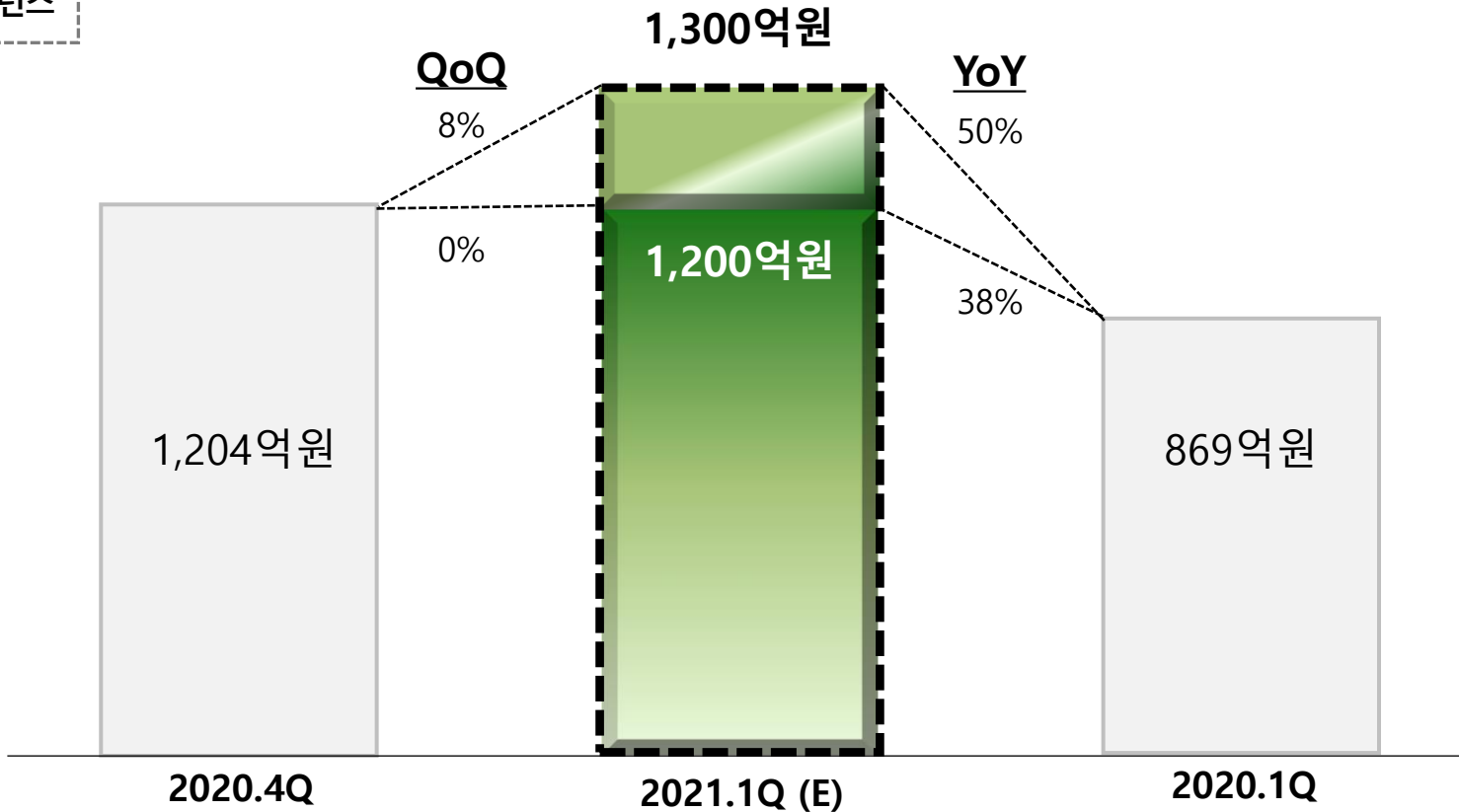
(단위: %)



# I. 재무성과 \_ 2) '21년 1분기 매출 전망

비수기임에도 전년 동기대비 38%~50% 매출성장 전망

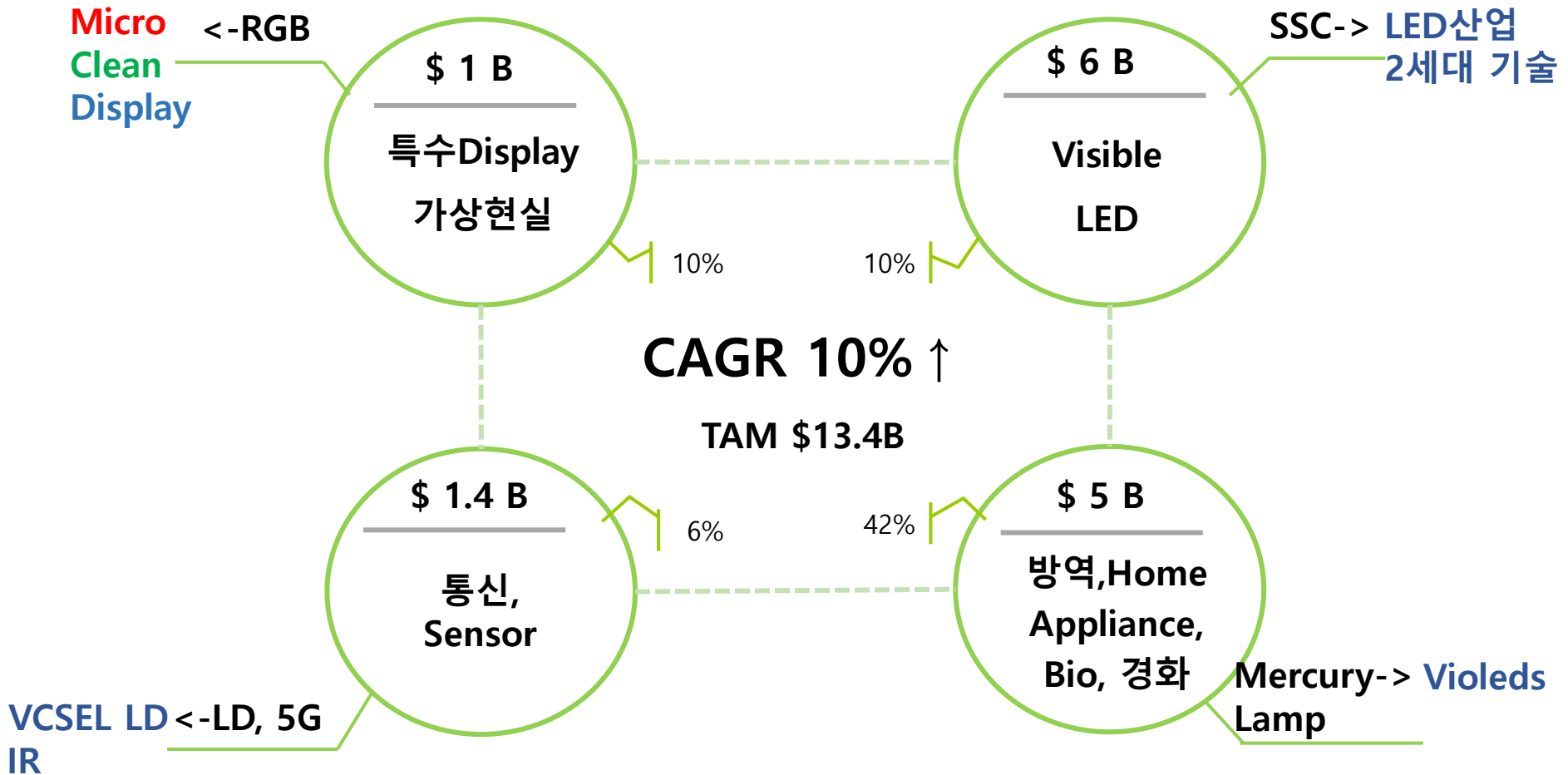
가이드스



## II. 업계 현황 및 전망

## II. 업계현황 및 전망 \_ 1) World No.1 기술 4대 응용분야

IT, Lighting, Automotive 견고한 매출 (\$6B) + 신시장 (\$7.4B) 기회

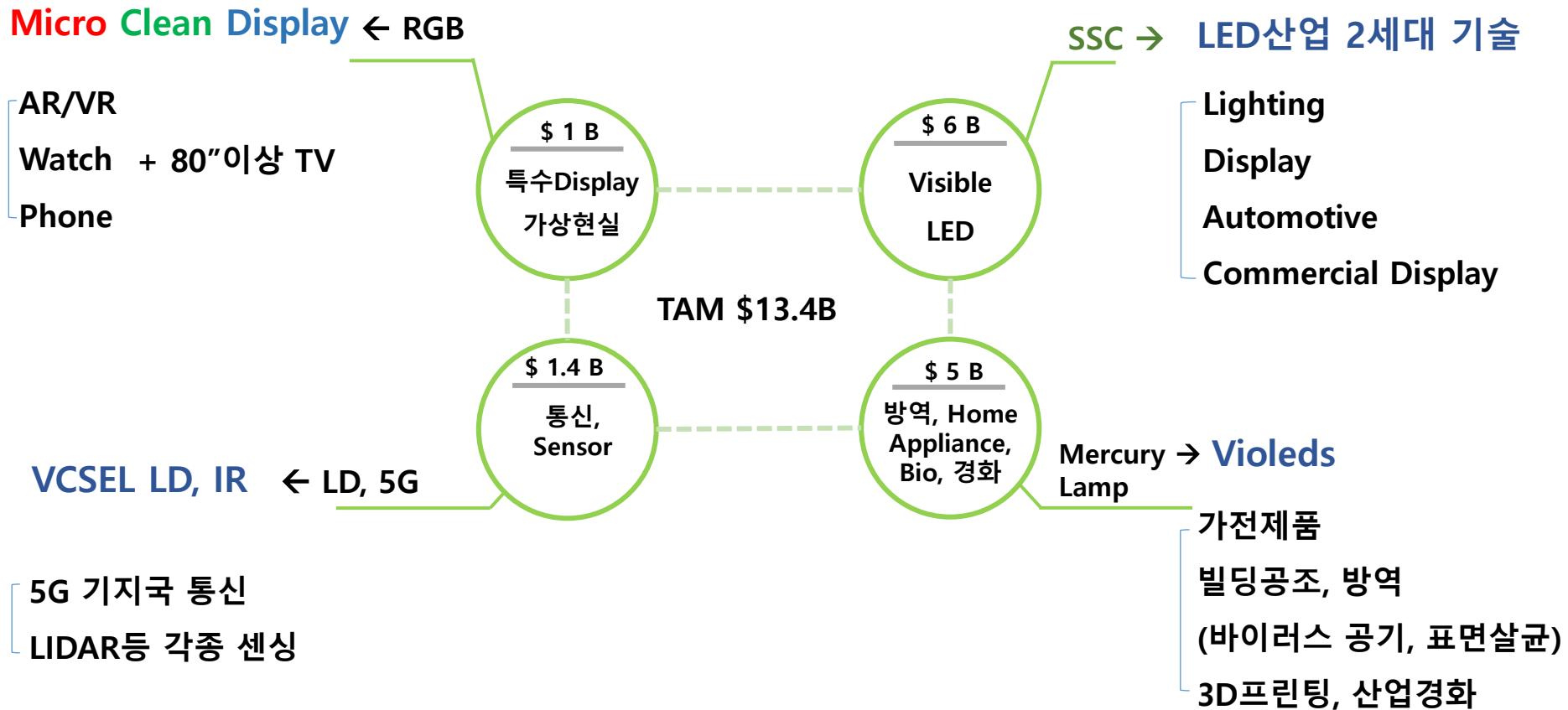


주기 1) 시장규모 2021년 기준  
2) Visible 서울반도체 패키징시장의 40%내외 Chip시장

\* 자료: SU2020, Yole2020, SSC

## II. 업계현황 및 전망 \_ 2) 응용분야별 변화와 우리의 차별화 기술

메가트렌드의 변화는 준비된 차별화 기술로 시장을 선도할 것임



주기 1) 시장규모 2021년 기준  
2) Visible 서울반도체 패키징시장의 40%내외 Chip시장

\* 자료: SU2020, Yole2020, SSC



### III. '21년 성장모멘텀

### III. '21년 성장모멘텀 \_ 1) 응용분야별 성장 모멘텀

세계 최초 2세대 리딩기술과 Clean Technology의 결합, 폭풍 성장 예상

응용분야	'21년 성장 모멘텀	고유기술
<ul style="list-style-type: none"> <li>BIO 바이러스 공기, 표면 살균 &lt;가전, 빌딩공조&gt;</li> <li>3D 프린팅 경화</li> </ul>	BIO와 방역에 필수 세계 최초 반도체 친환경 광기술	Violeds
<ul style="list-style-type: none"> <li>기지국 통신</li> <li>AR/VR</li> </ul>	5G 통신에 고난이도 기술, 레이저 다이오드; VCSEL 양산	VCSEL
<ul style="list-style-type: none"> <li>LCD Backlight Mini로 Display 품질 혁신</li> <li>저전력 고광량필요 AR/VR Watch Phone용 Pixel</li> </ul>	Display 시장에 LCD OLED 대체할 차세대 핵심 특허 기술, 특수 Display	WICOP MINI, Micro Clean Pixel

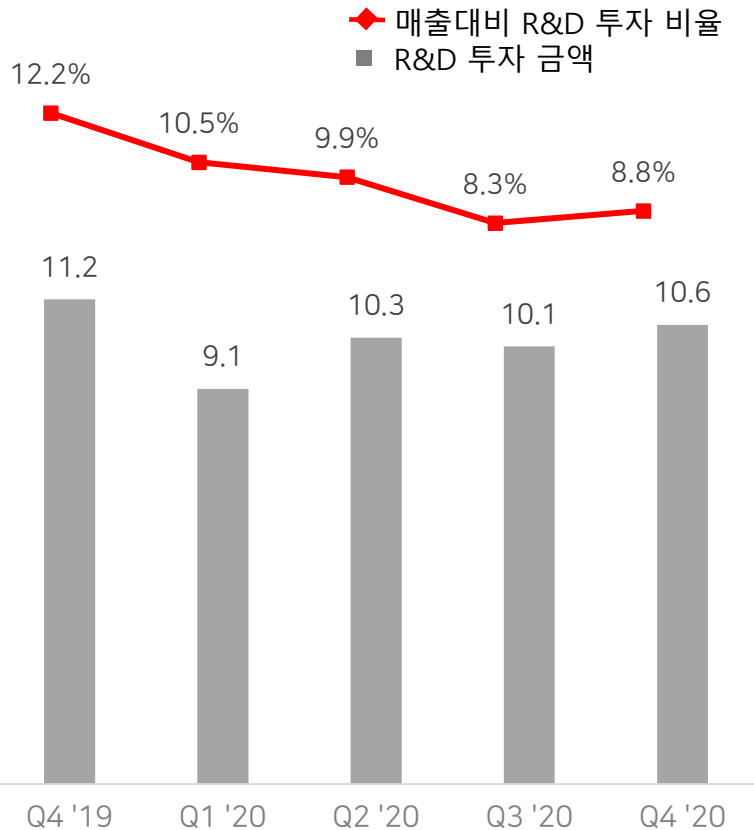
## IV. Appendix

# IV. Appendix \_ 1) 투자 및 비용

매출 증가대비 R&D투자와 판관비 유지하며, 이익상승에 기여

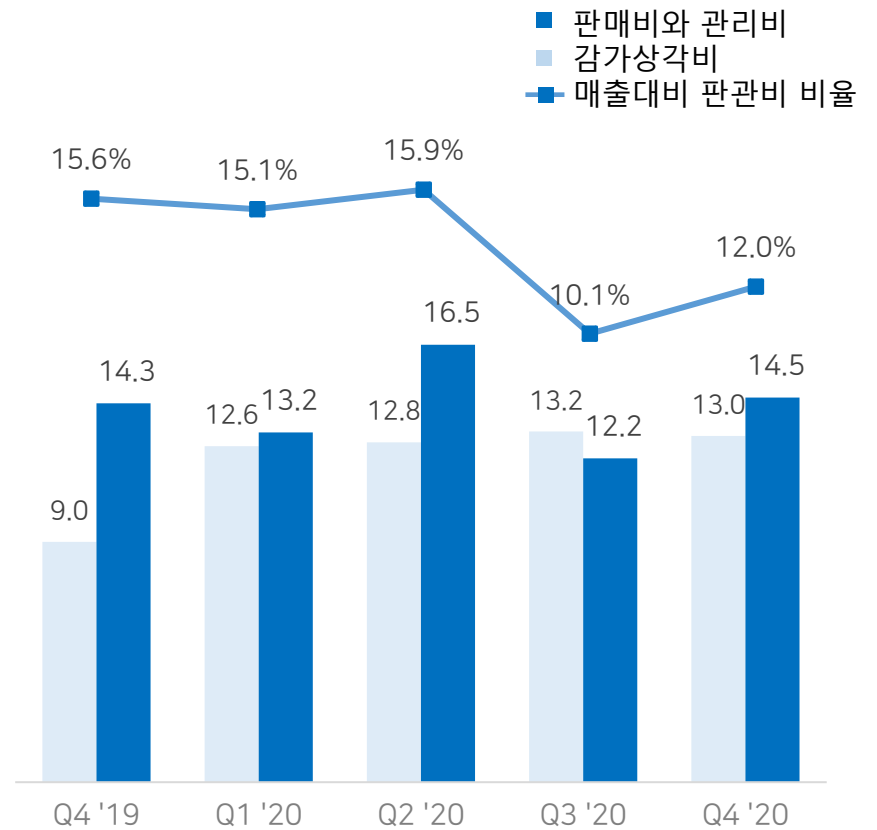
## R&D 투자

단위: 십억원, %



## 비용

단위: 십억원, %



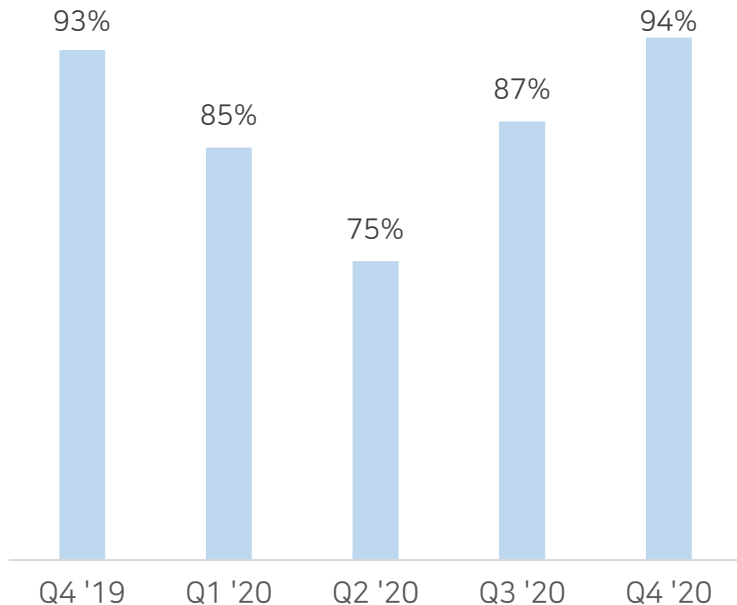
# IV. Appendix \_ 2) 가동율과 CAPEX

가동율 상승 전환, 소규모 밸런스 투자로 캐파 확대하며 수주 대응

가동율

단위: %

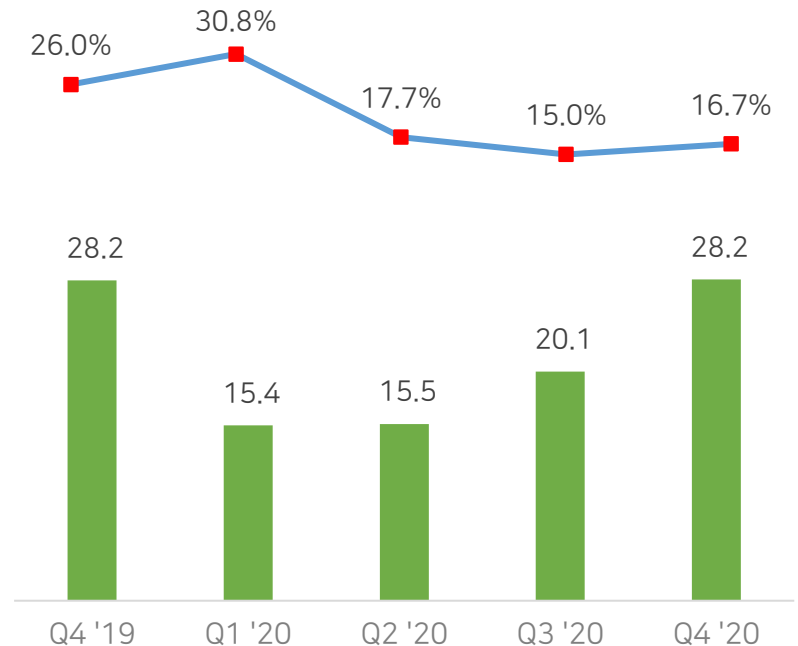
■ 가동율



CAPEX

단위: 십억원, %

■ 매출액대비 CapEx  
■ CapEx

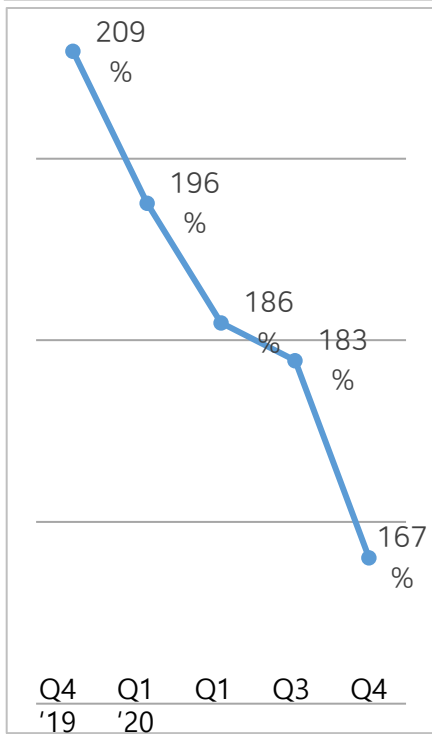


주1) 상기 생산실적 지표는 "해당 분기 월평균" 수치로, 분기말 수치와는 다소 차이가 있습니다.

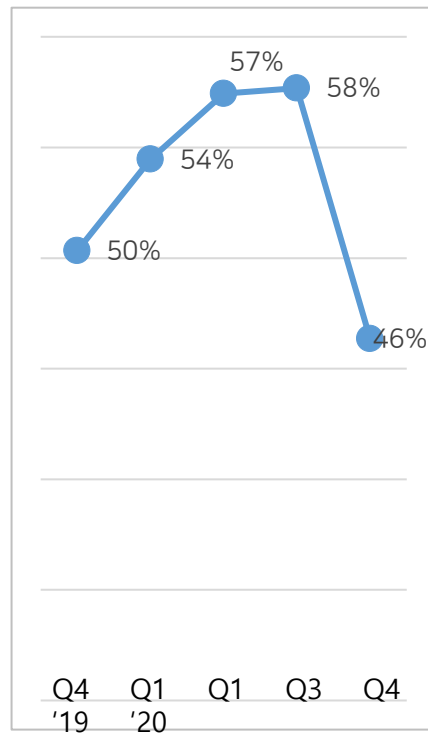
# IV. Appendix \_ 3) 재무 현황

부채비율, 순차입율 감소세 유지, 재고감소와 매출채권 회수 증대로 유동비율 감소

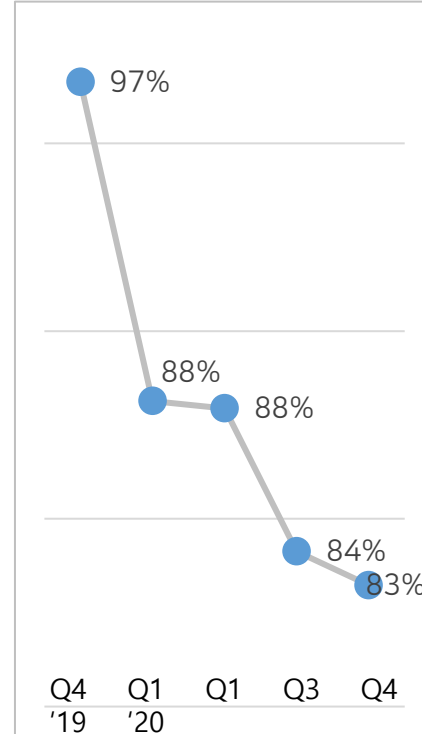
부채 비율 (%)



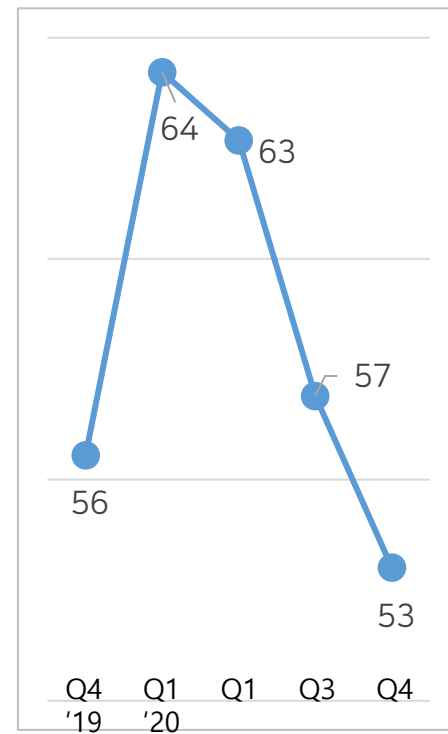
유동 비율 (%)



순차입율 (%)



재고 회전 (일)



업계평균( 재고회전일)  
 Chip업체: 132일  
 PKG업체: 71일

주) IR 잠정발표 이후 재무제표 확정시 변경사항이 수정 반영됩니다.

# IV. Appendix \_ 4) 요약재무제표

(백만원)	2020.Q4	2020.Q3	2020.Q2	2020.Q1	2019.Q4	2019.Q3	2019.Q2	2019.Q1	2020	2019	2018	2017	2016	2015
<b>[손익계산서]</b>														
매출액	120,485	120,661	103,235	86,901	91,548	90,668	89,618	78,805	431,282	350,640	386,412	386,651	278,137	316,983
매출원가	95,962	98,953	80,728	71,061	70,255	72,949	67,080	70,508	346,704	280,792	305,344	315,955	226,818	238,712
매출원가율	79.6%	82.0%	78.2%	81.8%	76.7%	80.5%	74.9%	89.5%	80.4%	80.1%	79.0%	81.7%	81.5%	75.3%
매출총이익	24,523	21,708	22,507	15,840	21,294	17,719	22,538	8,297	84,578	69,848	81,069	70,696	51,319	78,271
매출총이익율	20.4%	18.0%	21.8%	18.2%	23.3%	19.5%	25.1%	10.5%	19.6%	19.9%	21.0%	18.3%	18.5%	24.7%
판관비	15,559	12,180	16,451	13,155	14,254	15,041	14,832	15,465	57,346	59,592	64,370	41,297	39,947	49,977
영업이익	8,964	9,528	6,056	2,685	7,040	2,677	7,707	- 7,168	27,233	10,256	16,699	29,399	11,372	28,294
영업이익율	7.5%	7.9%	5.9%	3.1%	7.7%	3.0%	8.6%	-9.1%	6.31%	2.9%	4.3%	7.6%	4.1%	8.9%
세전이익	3,458	6,297	6,064	935	894	4,197	5,891	- 8,103	16,754	2,879	4,943	16,995	5,501	19,479
당기순이익	6,502	6,423	6,451	152	1,080	3,140	5,992	- 8,759	19,529	1,454	3,601	13,039	4,124	16,807
<b>[대차대조표]</b>														
자산총계	582,822	608,306	602,296	602,907	579,081	555,433	558,368	480,921	582,822	579,081	555,433	558,368	480,921	414,013
유동자산	137,938	159,526	156,271	156,670	137,985	109,376	117,087	85,281	137,938	137,985	109,376	117,087	85,281	77,367
현금 및 현금성 자산	6,947	7,522	3,082	5,298	6,272	9,348	4,378	6,903	6,947	6,272	9,348	4,378	6,903	3,095
재고자산	64,094	74,737	74,495	67,714	54,943	55,620	47,991	44,620	64,094	54,943	55,620	47,991	44,620	42,112
비유동자산	444,884	448,780	446,025	446,237	441,096	446,057	441,281	395,640	444,884	441,096	446,057	441,281	395,640	336,646
부채총계	363,604	393,602	392,026	399,443	391,587	393,176	400,590	329,566	363,604	391,587	393,176	400,590	329,566	253,046
유동부채	297,607	276,521	272,065	287,654	274,105	258,287	291,551	191,144	297,607	274,105	258,287	291,551	191,144	143,753
비유동부채	65,997	117,082	119,961	111,789	117,481	134,889	109,039	138,422	65,997	117,481	134,889	109,039	138,422	109,293
자본총계	219,219	214,703	210,270	203,464	187,494	162,257	157,778	151,354	219,219	187,494	162,257	157,778	151,354	160,967

# IV. Appendix \_ 5) 차세대 기술

## Seoul Semiconductor Obtains Again Permanent Injunctions and an Order for Recall against LED Lighting Products of Philips Brand Lighting Affiliate

## BUSINESS NEWS

The 2 <sup>nd</sup> Generation LED Technologies		
The 2 <sup>nd</sup> Generation Technologies	The World's 1 <sup>st</sup> Technologies of Seoul Semiconductor	Judgment
1 Virus Disinfection	<i>violeds</i> → Disinfect virus and bacteria	Permanent Injunction
2 Lighting That Perfectly Mimics Natural Sunlight	<i>SunLike</i> → Light source for healthy circadian rhythm to match 24-hour body cycles	-
3 Package-Free	<i>Wicap</i> → Light, thin, short and small / Core technology of Mini and Micro LED	Permanent Injunction
4 Classic Design Bulb	<i>Filament</i> → Filament LED with similar design to conventional incandescent bulbs	Permanent Injunction
5 More Than High-Voltage 6V	<i>AcricHMIT</i> → Easily connectable to 220V for home use with less number of LED	Permanent Injunction
6 High Voltage Driver	<i>Acrich Driver</i> → Connectable to 220V for home use and 20% cost reduction	Permanent Injunction
7 Color Rendering of More Than CRI-90	<i>UCD Phosphor</i> → White LED light source with color rendering close to sunlight	Permanent Injunction
8 Long Lifetime	<i>Over 10K hour</i> → Use 5 years available for 5 hours a day (Up to 10 times longer lifespan than incandescent bulbs)	Permanent Injunction
9 Less Electric Consumption	<i>Over 150 lm/W</i> → Electricity cost less than one-tenth compared to conventional incandescent bulbs and one-third of fluorescent lamps	Permanent Injunction

ANSAN, South Korea - Seoul Semiconductor Co., Ltd. ("Seoul") (KOSDAQ 046890), a leading global LED innovator, announced that the German District Court of Düsseldorf has issued "two" permanent injunctions against certain cell phone and lighting products affiliated with Philips brand lighting. The court ordered a permanent injunction against lighting products manufactured by Klite Lighting, a subsidiary of Signify (formerly Philips Lighting), and a recall of those products sold after March 2017 with the destruction of such products in the patent litigation against Leuchtstark Vertriebs GmbH. In other recent litigation against Klite's products, Seoul also obtained a permanent injunction, a recall of infringing products sold after October 2017 and destruction of

those products. This follows on the heels of two other cases in the U.S. where Seoul obtained permanent injunctions against the sales of Philips branded LED TV products. In a separate patent litigation filed against Conrad Electronic, one of European largest electronics retailers, the court ordered permanent injunction and a recall of infringing cell phone products sold after October 2017 because they infringed Seoul's patent. LED industry technology has evolved into second-generation technology, and Seoul is leading the development of second-generation technology by investing over \$1 billion in R&D over the past 20 years. For the past 3 years, Seoul has prevailed in approximately 30 patent litigations across the U.S., U.K., Germany,

Japan, China, and Korea. The above table shows a list of Seoul's patented technology asserted in enforcement actions. "Intellectual property rewards small businesses and entrepreneurs by enabling them to protect their valuable discoveries and inventions, regardless of their class or country of origin," explained one of Seoul's officials. "Seoul believes that technology is the way to improving our world and community. Since the industrial revolution, the infant mortality rate has declined from 43% to 3%, the absolute poverty rate has decreased to less than 10% from 80%, literacy rates have increased, and 85% of the world's population has electricity. We believe that Seoul's groundbreaking green technology will continue helping improve the future for everyone."

\*The Wall Street Journal news organization was not involved in the creation of this content.\*

### The 2<sup>nd</sup> Generation LED Technologies

The 2 <sup>nd</sup> Generation Technologies	The World's 1 <sup>st</sup> Technologies of Seoul Semiconductor	Judgment
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# “인고의 세월 뒤 폭풍성장, 새로운 비상”

“저희는 끊임없는 연구개발과 지적재산권 존중을 통해 얻어진  
우리의 성공 스토리가 꿈을 위해 도전하는 대한민국 젊은이들에게 희망을 줄 수 있는 모델이 되고 싶습니다.”