

Second Quarter FY2021 Financial Results

Ushio Inc.

November 2, 2021

This report contains forward-looking statements, including earnings forecasts, which are based on information currently available to the Company and on certain assumptions deemed to be reasonable. Please be advised that actual results may differ substantially from those forward-looking statements due to various factors.

* All figures in the material have been rounded down to the nearest billion yen.

* FY2021 starts from April 1st, 2021 through March 31st, 2022.

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USHIO
Applying Light to Life



- **Net Sales and Earnings Increased** to YoY for 1H FY2021 (Result)
- **Earnings Increased** to YoY for FY2021 (Full-year Forecast)
- FY2021 Annual Dividend per Share (Plan) : **maintain JPY 26 yen**

- I. Financial Results for 1H FY2021**
- II. Full-year Forecast for FY2021
- III. Supplementary Information

Net Sales : 71.5 billion yen (+19.5 billion yen YoY, +37.6%)

- Optical Equipment: Sales increased by demand increase of Large Field Stepper for latest IC package substrates
- Light Source Business and Imaging Equipment: Sales increased due to recovery trend from COVID-19

Operating Income : 6.5 billion yen (+7.6 billion yen YoY)

- Profit increased by sales increase and SGA reduction effort by structural reforms

**Profit Attribute to Owner of Parent: 6.5 billion yen
(+8.4 billion yen YoY)**

【Extraordinary Income】 - Gain on sales of fixed assets: 1.1 billion yen (FY20_1H : 0.0 billion yen)

【Extraordinary Loss】 - Loss on Temporary Closing and others: 0.1 billion yen (FY20_1H: 0.8 billion yen)

- Restructuring Costs: 0.0 billion yen (FY20_1H: 0.8 billion yen)

Summary of Financial Results

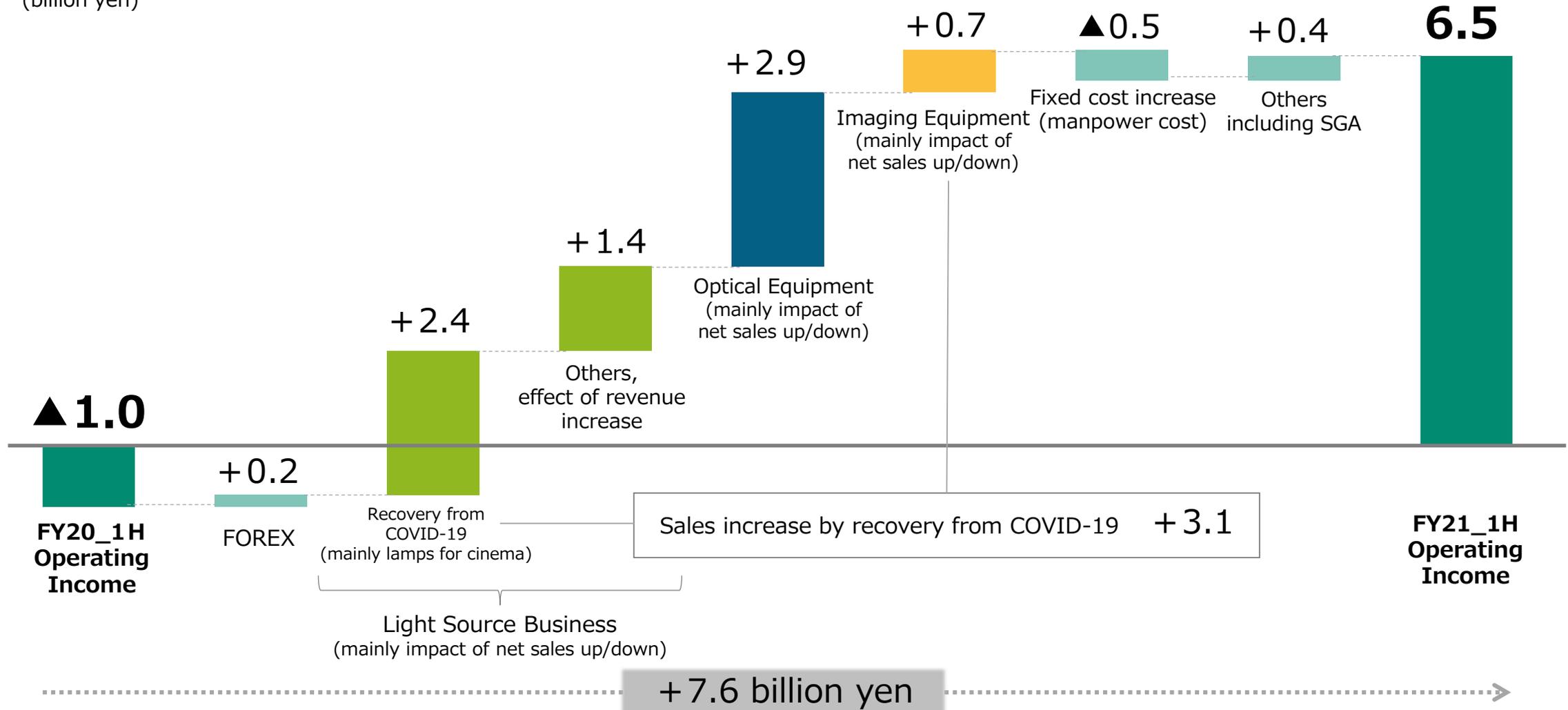
	(billion yen)	FY20	FY21	YoY comparison	
		1H	1H	Changes	%
Net Sales		52.0	71.5	+19.5	+37.6
Operating Income		▲1.0	6.5	+7.6	—
Operating Income (%)		▲2.1	9.2	+11.2P	—
Ordinary Income		0.4	7.6	+7.2	—
Profit Attributable to Owner of Parent		▲1.9	6.5	+8.4	—
EPS (yen)		▲16.36	53.96	+70.32	—
FOREX (yen)	USD	107	110	+3	—
	EUR	121	131	+10	—

FOREX sensitivity: Amount of impact from 1 yen fluctuations (full-year)

	Net Sales	Operating Income
vs USD	Approx. ¥1.0 billion yen	Approx. ¥0.15 billion yen

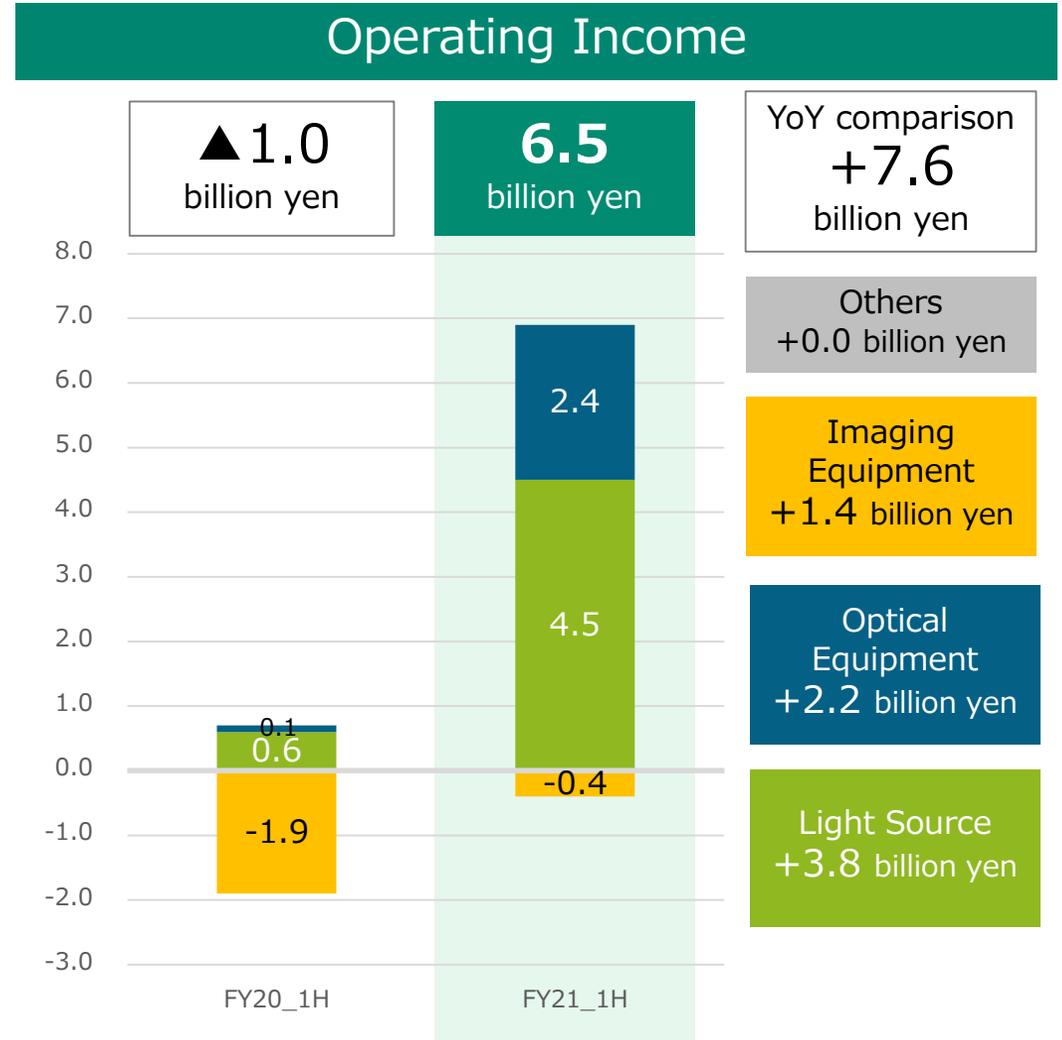
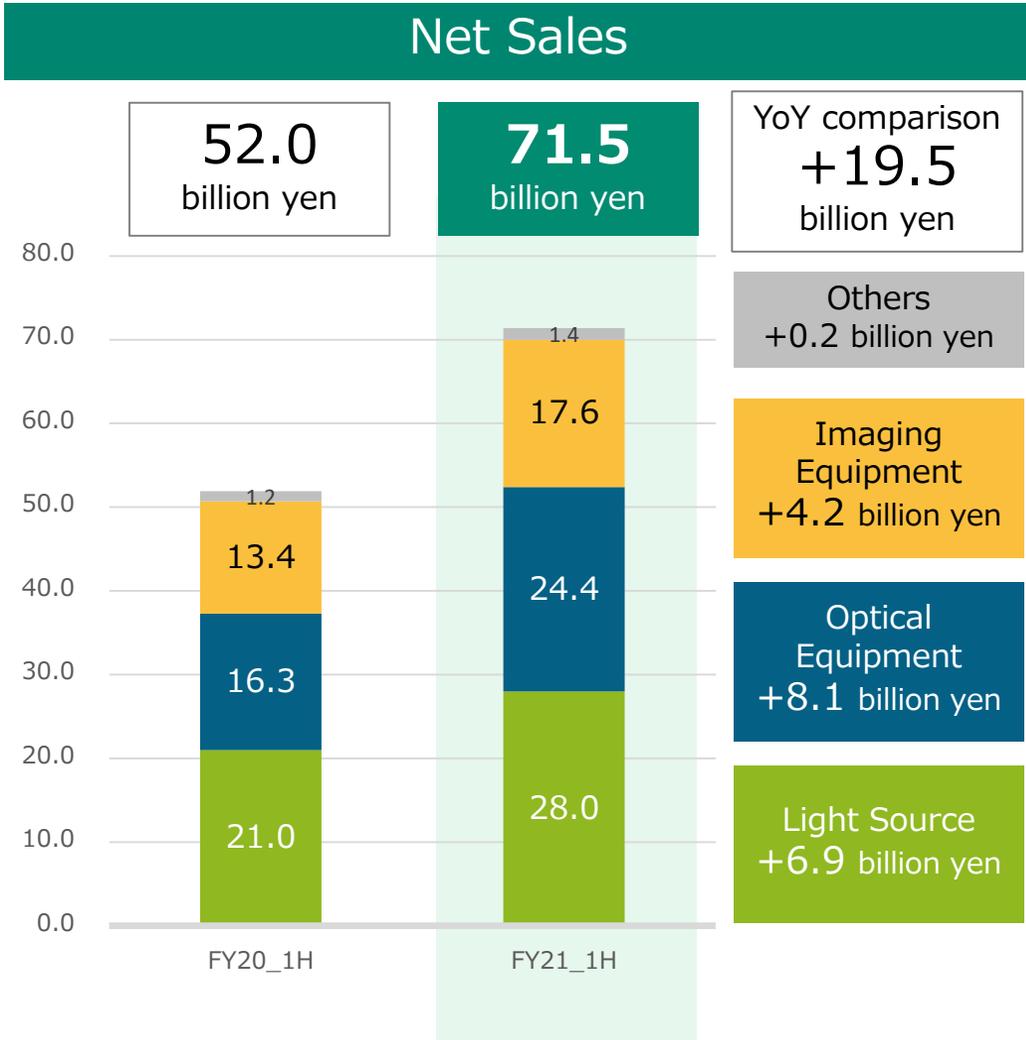
YoY Variation Analysis of Operating Income

(billion yen)



Note: 「Light Source Business (mainly impact of net sales up/down)」 ~ 「Others including SGA」 exclude 「FOREX」

Financial Results by Business Segments



■ Electronics Field

With technology evolution, such as, IoT and 5G, new investments and operations remain strong

- FPD: LCD panel production for mobile devices and monitors remain strong due to stay-at-home demand increase.
From 2H, demand will settle down and adjust to supply-demand balance.
- Semiconductor and PCB: Demand increased due to IoT technological innovation and 5G implementation, investments are increasing and operations remain strong
- While IoT evolution which brought data process capacity increase, latest package market achieves high rate of growth with progress of high speed data processing and low power consumption of semiconductor

■ Visual Imaging Field

Markets are in recovery trend, as economic activities started to resume due to expansion of COVID-19 vaccinations globally

- Cinema : Movie theater operations resumed and operating rate is improving in mainly Europe and the United States
- General imaging: Markets are in recovery trend globally, belated in Europe and the United States
- OA equipment: Demand in in recovery trend in Europe, the United States and Asia.

■ Common

Careful observation on procurement trend of semiconductor and electrical parts and power supply limit in China are continuously required

	FY20	FY21	YoY comparison	
	1 H	1 H	Changes	%
(billion yen)				
Net Sales	21.0	28.0	+6.9	+33.1
UV lamp	13.9	18.8	+4.8	+34.9
Halogen lamp	3.9	5.1	+1.1	+29.9
Solid State light source	3.0	3.9	+0.8	+29.0
Operation Income	0.6	4.5	3.8	+566.4
Operating Income (%)	3.2%	16.1%	+12.9P	-

UV lamp sales comparison to FY2020 (YoY)

- ◇ **UV lamp (+1.1 billion yen, +20%)**
 - Sales increased, as LCD panel production for mobile devices and monitors is strong due to stay-at-home demand increase
 - Demand stayed steady for semiconductor and PCB markets
- ◇ **Lamps for cinema (+2.0 billion yen, +170%)**
 - Sales increased, as movie theaters in Europe and the United States resumed gradually, in addition to ones in China
- ◇ **Lamps for data projector (+0.5 billion yen, +38%)**
 - Sales increased, as projector demand recovered from COVID-19
- ◇ **Lamps for optical equipment (+0.9 billion yen, +39%)**
 - Care222 sales increase contributed mainly, however, lower sales than initially expected

Halogen lamp sales comparison to FY2020 (YoY)

- ◇ **Lamps for OA (+0.3 billion yen, +16%)**
 - Sales increased, as demand for OA equipment recovered from COVID-19
- ◇ **Others (+0.7 billion yen, +64%)**
 - Sales increased of heater lamps for semiconductor market mainly

Solid state light source sales comparison to FY2020 (YoY)

- ◇ **Solid state light source (+0.8 billion yen, +29%)**
 - Sales increased, as sensor- and sorting-related markets recovered from COVID-19

Optical equipment

	FY20	FY21	YoY comparison	
	(billion yen)	1 H	1 H	Changes
Net Sales	16.3	24.4	+8.1	+49.7
Operating income	0.1	2.4	+2.2	-
Operating income (%)	1.0%	9.9%	+9.0P	-

Imaging equipment

	FY20	FY21	YoY comparison	
	(billion yen)	1 H	1 H	Changes
Net Sales	13.4	17.6	+4.2	+31.4
Operating income	▲1.9	▲0.4	+1.4	+76.8
Operating income (%)	▲14.4%	▲2.5%	+11.9P	-

Sales comparison to FY2020 (YoY)

- ◇ **UV equipment (+3.0 billion yen, +31%)**
 - Sales increased of Large field stepper for latest IC package and Direct imaging equipment for printed circuit boards
- ◇ **Cure equipment (+1.1 billion yen, +58%)**
 - Sales increased for LCD-related equipment in China
- ◇ **Others (+3.9 billion yen, +88%)**
 - Sales increased of EUV related products for EUV lithography mask inspection

Sales comparison to FY2020 (YoY)

- ◇ **Cinema (+1.8 billion yen, +32%)**
 - Sales increased of DCP mainly in China due to recovery from COVID-19
- ◇ **General imaging (+2.2 billion yen, +34%)**
 - Sales increased of imaging-related products in China and US

(Operating income) Impact of SGE reduction by structural reform

-
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Summary of Financial Results FY21

Revised upward at each profit level resulted in improved product mix, cost improvement and expense control in light source business and optical equipment business

(billion yen)	FY21 Forecast			FY21		FY20		
	New Revision	Revision on 2021.6.29	Changes	1 H	Achievement rate (%)	Result	Achievement rate (%)	
Net Sales	150.0	150.0	-	71.5	47.7	118.5	+31.4	
Operating Income	11.0	9.0	+2.0	6.5	59.7	0.7	+10.2	
Operating Income (%)	7.3	6.0	+1.3P	9.2	-	0.6	+6.7P	
Ordinary Income	12.5	10.5	+2.0	7.6	61.5	3.4	+9.0	
Profit Attributable to Owner of Parent	10.0	8.0	+2.0	6.5	65.1	▲0.6	+10.6	
EPS (yen)	82.93	66.35	+16.58	53.96	65.1	▲5.70	+88.63	
ROE (%)	4.6	3.8	+0.9P	3.0	-	▲0.3	+5.0	
Dividend per year (yen)	26	26	-	-	-	26	-	
FOREX (yen)	USD	105	105	-	110	-	106	▲1
	EUR	125	125	-	131	-	123	+2

FOREX sensitivity: Amount of impact from 1 yen fluctuations (full-year)

	Net Sales	Operating income
vs USD	Approx. 1.0 billion yen	Approx. 0.15 billion yen

Financial Results by Sub-segment

		FY21 (Full-year Forecast)			FY21	Achieve-ment rate (%)	FY20	Changes
		(billion yen)	New Revision	Revision on 2021.8.3	Changes		1 H	
Light source	Net Sales	58.0	58.0	-	28.0	48.3	45.7	+12.2
	Operating Income	8.0	7.0	+1.0	4.5	56.4	3.2	+4.7
	Operating Income (%)	13.8%	12.1%	+1.7P	16.1%	-	7.1%	+6.7P
Optical equipment	Net Sales	50.0	50.0	-	24.4	48.9	38.9	+11.0
	Operating Income	3.0	2.0	+1.0	2.4	81.1	0.8	+2.1
	Operating Income (%)	6.0%	4.0%	+2.0P	9.9%	-	2.2%	+3.8P
Imaging equipment	Net Sales	39.0	39.0	-	17.6	45.2	31.0	+7.9
	Operating Income	0.0	0.0	-	▲0.4	-	▲3.4	+3.4
	Operating Income (%)	0.0%	0.0%	-	▲2.5%	-	▲11.2%	+11.2P
Others	Net Sales	3.0	3.0	-	1.4	49.5	2.7	+0.2
	Operating Income	0.0	0.0	-	0.0	-	0.0	▲0.0
	Operating Income (%)	0.0%	0.0%	-	1.2%	-	2.1%	▲2.1P
Total	Net Sales	150.0	150.0	-	71.5	47.7	118.5	+31.4
	Operating Income	11.0	9.0	+2.0	6.5	59.7	0.7	+10.2
	Operating Income (%)	7.3%	6.0%	+1.3P	9.2%	-	0.6%	+6.7P

Financial Results by Sub-segment / Comment on after 2H

	(billion yen)	FY21			Comment on after 2H
		New Revision	1H	(ref) 2H	
Light source	Net Sales	58.0	28.0	29.9	<ul style="list-style-type: none"> •UV lamps: Stay-at-home demand (LCD panel) settle down and supply adjustment stage. Semiconductor demand is solid •Lamps for cinema: Demand in recovery trend mainly in Europe and US •Care222: Upward trend in orders and inquiries in 2H compared to 1H. Strengthen PR activities in 2H to expand sales •Lamps for OA: Demand in recovery trend. Monitor the trend of material procurement at customers' side
	Operating Income	8.0	4.5	3.4	
	Operating Income (%)	13.8%	16.1%	11.6%	
Optical equipment	Net Sales	50.0	24.4	25.5	<ul style="list-style-type: none"> •Large field stepper for latest IC package substrates: grow steadily in 2H •Direct imaging equipment: Strong orders for high-definition models mainly •EUV light source for EUV lithograph mask inspection: lower demand in 2H due to postponed projects to next fiscal year •Continued aggressive investment for next-generation exposure equipment (more investment compared to 1H)
	Operating Income	3.0	2.4	0.5	
	Operating Income (%)	6.0%	9.9%	2.2%	
Imaging equipment	Net Sales	39.0	17.6	21.3	<ul style="list-style-type: none"> •Cinema: Recovery trend from COVID-19, however, investment movements recover for real will become full-fledged after FY23 •General imaging: Demand in recover trend mainly in Asia and US
	Operating Income	0.0	▲0.4	0.4	
	Operating Income (%)	0.0%	▲2.5%	2.1%	
Others	Net Sales	3.0	1.4	1.5	
	Operating Income	0.0	0.0	▲0.0	
	Operating Income (%)	0.0%	1.2%	▲1.2%	
Total	Net Sales	150.0	71.5	78.4	
	Operating Income	11.0	6.5	4.4	
	Operating Income (%)	7.3%	9.2%	5.7%	

(as of November 2nd, 2021)

Cinema-related market: Moves toward steady recovery in Europe, the United States and China, but limited in Asia (excluding China)

- Movie theater operations have resumed mainly in Europe and the United States as COVID-19 vaccination expanded and **market is in recovery trend worldwide**

Along with Hollywood blockbusters releases, **movie theater operations will be improved further**

→As of 2Q FY21: Screen operation worldwide × operation rate = **Approximately 60%**

- Movie theaters in South East Asia closed in 2Q due to resurgence of COVID-19 and operations are still limited at this moment but they will be improved in a step-by-step manner

<Operation status in main area>

Main area	Status of movie theater operation and resumption
North America (20%)	• About 80% of movie theaters resumed operation. Operation will be improving along with increase of blockbuster releases towards to the year-end
China (35%)	• Approximately 90% of movie theaters resumed operation. Sales and box-office revenue mainly for domestic movies are favorably recovering
EMEA (20%)	• About 80% of movie theaters resumed operation. Still operations are limited considering profitability but in loosening regulation trend overall

(%) indicates percentage of screen number in worldwide

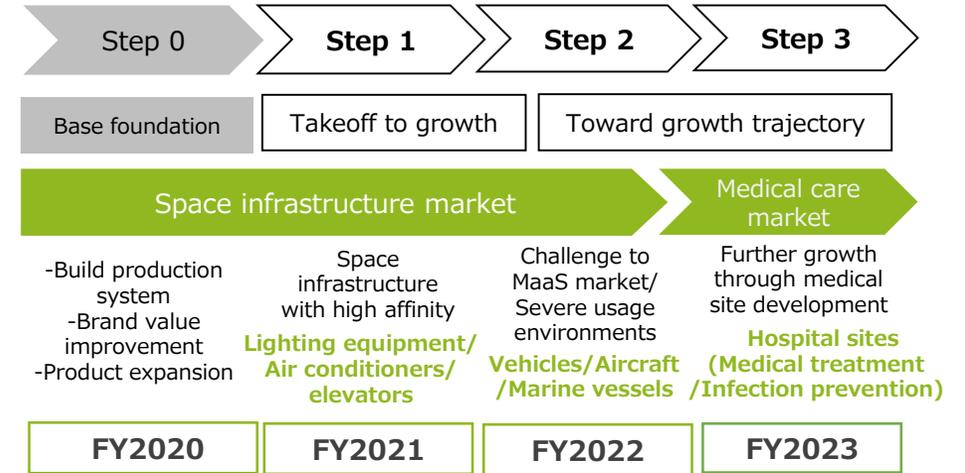
Latest Status of Promising Products: Optical Equipment

Product	Latest Status and Comment after 2H	Sales Forecast																		
<p>Large Field Stepper for latest IC package substrates</p>	<ul style="list-style-type: none"> • Continuous growth of IC package market. Orders and inquiries are promising • Increasing production capacity (1.3 times) will be contributing to sales in FY22 • Investment in development of Next-generation lithography equipment (high productivity X high resolution) 	<p>No change from 1Q</p> <table border="1"> <caption>Sales Forecast Data (Estimated)</caption> <thead> <tr> <th>Fiscal Year</th> <th>Status</th> <th>Sales Trend</th> </tr> </thead> <tbody> <tr> <td>FY2018</td> <td>Result</td> <td>Low</td> </tr> <tr> <td>FY2019</td> <td>Result</td> <td>Medium-Low</td> </tr> <tr> <td>FY2020</td> <td>Result</td> <td>Medium</td> </tr> <tr> <td>FY2021</td> <td>Forecast</td> <td>High</td> </tr> <tr> <td>FY2022</td> <td>Plan</td> <td>Very High</td> </tr> </tbody> </table>	Fiscal Year	Status	Sales Trend	FY2018	Result	Low	FY2019	Result	Medium-Low	FY2020	Result	Medium	FY2021	Forecast	High	FY2022	Plan	Very High
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<p>Direct Imaging Exposure System</p>	<ul style="list-style-type: none"> • With evolution of IoT and 5G, package substrates market and print circuit boards market are growing steady • Sales of high resolution model (2μmL/S) has started and will be contributing to sales in FY22 <p>Target: latest IC package (Fan-out) and organic package substrates markets</p>	<p>No change from 1Q</p> <table border="1"> <caption>Sales Forecast Data (Estimated)</caption> <thead> <tr> <th>Fiscal Year</th> <th>Status</th> <th>Sales Trend</th> </tr> </thead> <tbody> <tr> <td>FY2018</td> <td>Result</td> <td>Medium</td> </tr> <tr> <td>FY2019</td> <td>Result</td> <td>Medium-Low</td> </tr> <tr> <td>FY2020</td> <td>Result</td> <td>Medium</td> </tr> <tr> <td>FY2021</td> <td>Forecast</td> <td>High</td> </tr> <tr> <td>FY2022</td> <td>Plan</td> <td>Very High</td> </tr> </tbody> </table>	Fiscal Year	Status	Sales Trend	FY2018	Result	Medium	FY2019	Result	Medium-Low	FY2020	Result	Medium	FY2021	Forecast	High	FY2022	Plan	Very High
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<p>EUV Light Source for Mask Inspection</p>	<ul style="list-style-type: none"> • As partial sales shifted to FY22 due to customer reasons, Market continues to grow without any market condition changes in medium- to long-term • Maintenance demand increase as planned 	<p>No change from 1Q</p> <table border="1"> <caption>Sales Forecast Data (Estimated)</caption> <thead> <tr> <th>Fiscal Year</th> <th>Status</th> <th>Sales Trend</th> </tr> </thead> <tbody> <tr> <td>FY2018</td> <td>Result</td> <td>Very Low</td> </tr> <tr> <td>FY2019</td> <td>Result</td> <td>Low</td> </tr> <tr> <td>FY2020</td> <td>Result</td> <td>Medium</td> </tr> <tr> <td>FY2021</td> <td>Forecast</td> <td>High</td> </tr> <tr> <td>FY2022</td> <td>Plan</td> <td>Very High</td> </tr> </tbody> </table>	Fiscal Year	Status	Sales Trend	FY2018	Result	Very Low	FY2019	Result	Low	FY2020	Result	Medium	FY2021	Forecast	High	FY2022	Plan	Very High
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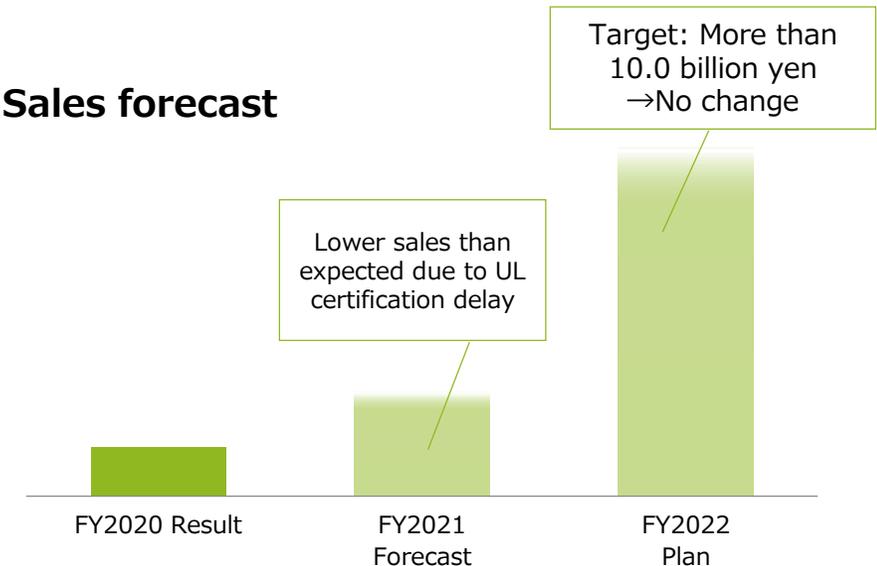
Latest Status of Promising Products: Care222 as disinfection and Virus Inactivation Solution



To DO		Status
STEP0	Build production system	Completed
	Brand value improvement	Challenge to improve further recognition • Opened brand site in July 2021 Strengthen promotion activities, such as <u>Actively participating in exhibitions and advertising</u>
	Product expansion	Promote to safe and secure environment needs continuously • Applying to certification worldwide Despite of delay in UL certification, <u>expect sales to increase after certified</u> Expect ACGIH* revision in 2022 • <u>Collaboration/product development • expanding product lineup</u>
STEP1	Space infrastructure with high affinity	• Phase to expand sales by collaboration with partners
STEP2	Challenge to MaaS market Severe usage environment	• Implementing efforts to signing in vehicles, aircraft and marine vessels



Sales forecast

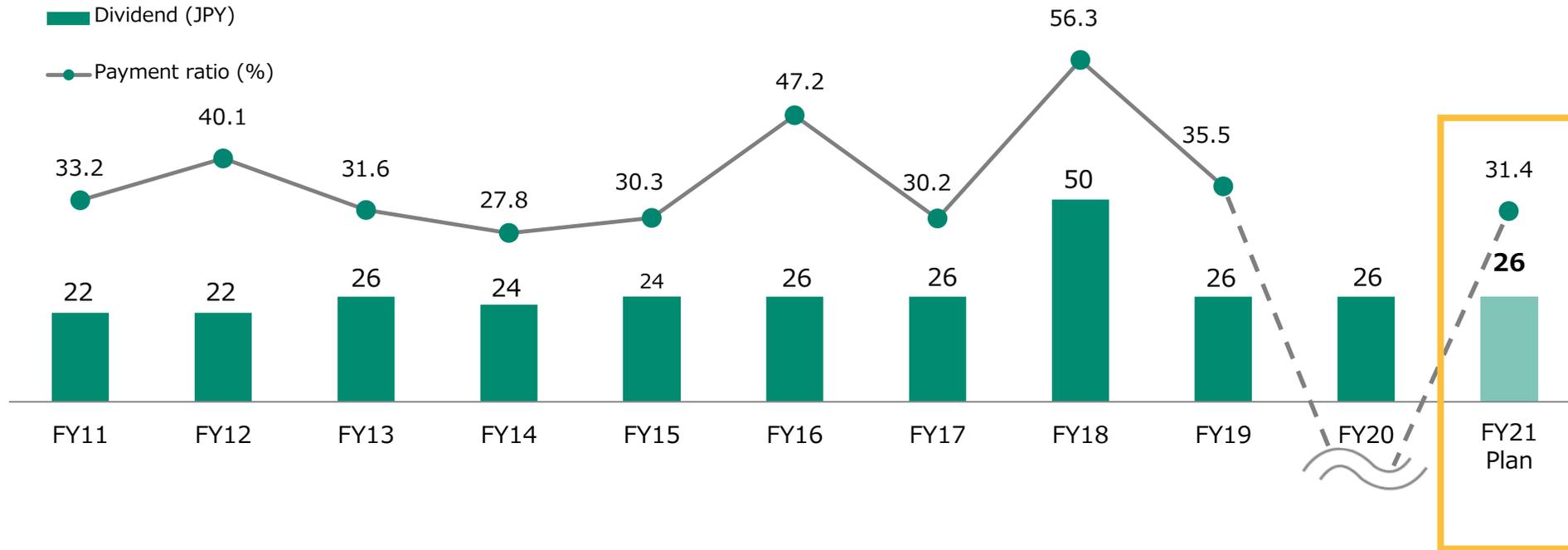


*UL standard: Product safety standard Underwriters Laboratories Inc.: UL defines

*ACGIH: American Conference of Governmental Industrial Hygienists, which prescribes Threshold Limit Values (TLVs)

Dividend per share

FY2021 annual dividend (plan) **will be maintained 26 yen per share** in a stable and consistent manner



Share Buyback

Ushio purchases own treasury shares, taking flexible approach. We retain our treasury shares of approximately 5% of the total numbers of issued shares at maximum and cancel the excess portion of the treasury shares in each year.

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Care222 as Disinfection and Virus Inactivation Solution

FY2022 Press release on Care222

- Acuity Brands Filtered Far-UVC Module with Ushio Care222[®] Technology is the First to be UL Certified

Release announced on August 16, 2021

<https://www.ushio.com/acuity-brands-filtered-far-uv-c-module-with-ushio-care222-technology-is-the-first-to-be-ul-certified/>



- Ushio Taiwan, Inc. concluded long strategic contract with Delta Electronics, Inc. and has started supplying Care222 module.

Release announced on July 22nd, 2021 (only in Japanese) :

<https://clean.ushio.com/jp/news/210722.html>



- Research Confirms Ushio's Care222 Far UV-C Technology Is Effective Against a Variant of SARS-CoV-2, the Virus That Causes COVID-19

Release announced on July 6th, 2021 :

<https://www.ushio.co.jp/en/news/1002/2021-2021/500814.html>



- unDevelopment Corporation to incorporate Ushio Care222 Filtered Far UV-C Module into new unSafelite[™] UV Sanitizing Columns for Elevators

Release announced on June 28th, 2021

<https://www.ushio.com/wp-content/uploads/2021/06/uvdevelopment-ushio-care222-filtered-far-uv-c-uvsafelite-elevator.pdf>



EUV Light Source for Mask Inspection

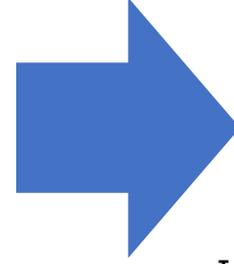
USHIO

EUV light source for next-generation semiconductor mass-production process
 Development, Production, Sales



**Mask Inspection equipment manufacturer/
 Research & development institution**

Next-generation semiconductor mass-production needs with EUV lithography technology evolution



Semiconductor device manufacturers

Increase EUV light source needs for inspection and development

Contribution of Ushio's EUV light source



Expect to expand business opportunities of EUV light source for mask inspection

● Ushio EUV Light Source Development History

- 2000 EUV light source development started
- 2001 Established EUVA*
*Extreme Ultraviolet Lithography System Development Association
- 2013 Withdrew from Lithography related development
- 2016 Delivered EUV light source to TNO
- 2018 Delivered first EUV light source for inspection (for test purpose)
- 2019 Delivered and received first acceptance for mass production process

● Ushio Strength

Long business experience in semiconductor industry

+

Many years of experience in EUV technology

(Compact/High-brightness/High Power)

Sales Expansion of Exposure Equipment for Latest IC Package Substrates



Large Field Stepper (UX-5) Production and sales

- **World wide share:**
Maintain 100%
High-end BGA substrate exposure market
(self-survey)

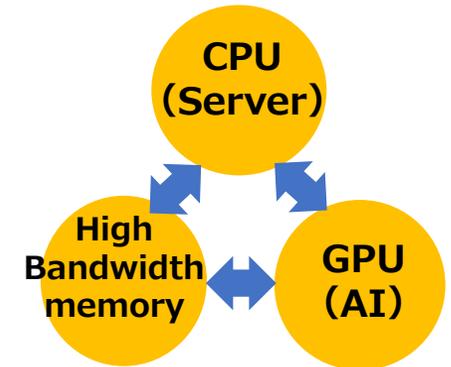


● UX-5 Strength (Feature)

1. Large-area projection
→ **High productivity & low CoO**
2. Non-contact mask work
→ **Yield enhancement**
3. Deep focal depth
→ **Process margin & substrate warping**
4. High Resolution/alignment accuracy
→ **Pitch miniaturization & process margin**

With IoT evolution, demand increased for servers for data centers processing high capacity and high speed data processing

Data center market
>20% growth per year (self-survey)
⇒ Expanding Adoption of next-generation package substrates



Direct Imaging (DI) Exposure System



Direct Imaging Exposure System

Development · Production · Sales

- Refinement
- High Productivity



Print-wired board demand increasing as application innovation

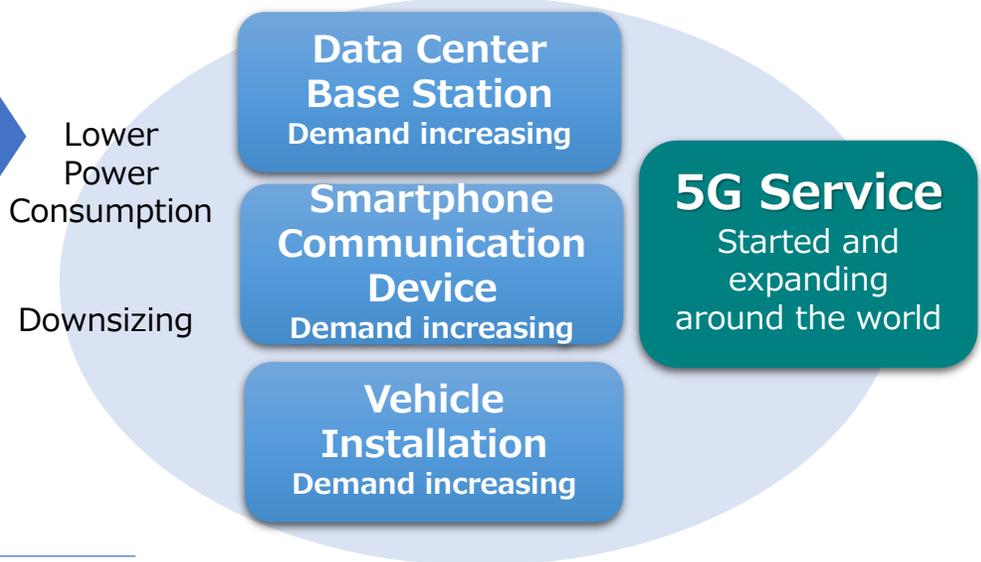


Print-wired board Package substrate manufacturer

- High Density
- Multi-layering



As 5G progressed
Innovation of each application and demand increasing



● Ushio Strength

- High Resolution (High end products)
- World's fastest High Productivity (Middle end products)

+

- World wide share : 20% (self-survey)
- Customer-first maintenance support capability

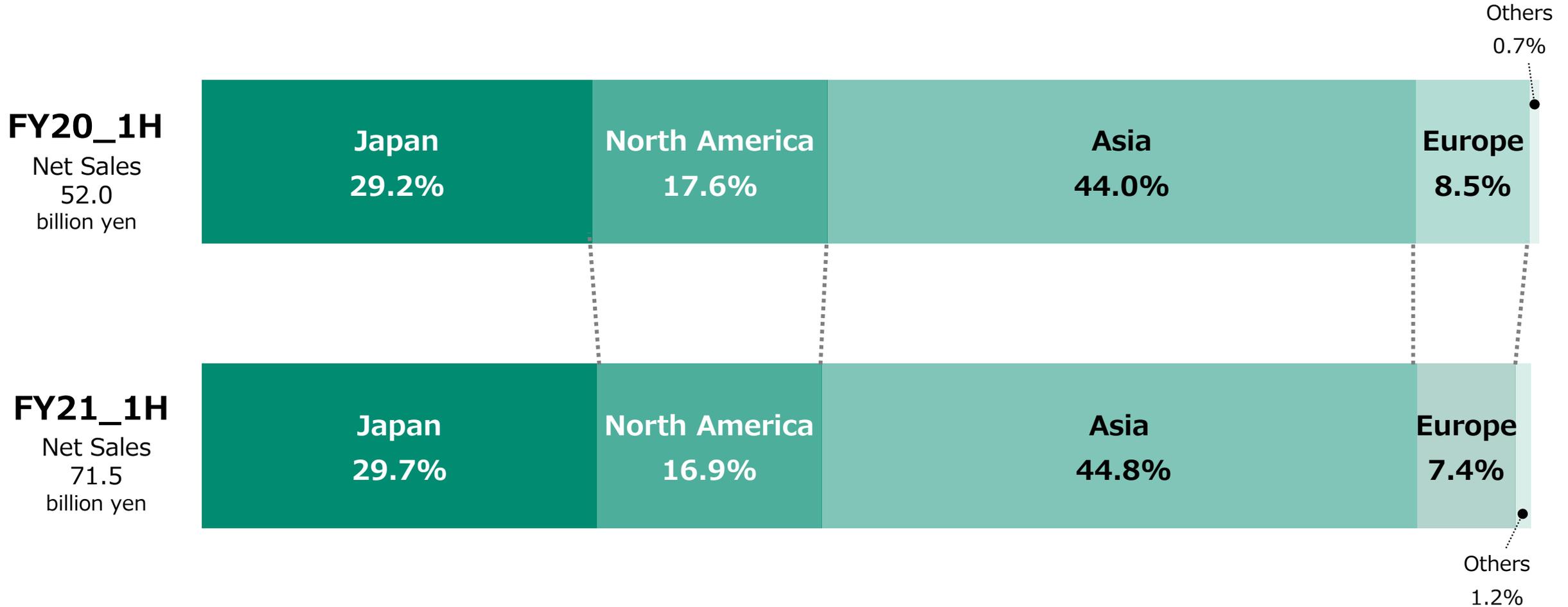
Reference: Summary of Quarterly Financial Results

		FY20				FY21		YoY comparison	
		1Q	2Q	3Q	4Q	1Q	2Q	Changes	%
(billion yen)									
Net Sales		23.6	28.3	30.4	36.1	34.9	36.6	+8.2	+29.2
Operating Income		▲0.7	▲0.3	0.6	1.1	2.5	3.9	+4.3	–
Operating Income (%)		▲3.1	▲1.1	2.2	3.2	7.4	10.9	+12.1P	–
Ordinary Income		0.3	0.0	1.2	1.7	3.3	4.3	+4.2	–
Profit Attributable to Owner of Parent		▲1.0	▲0.9	0.9	0.3	3.3	3.1	+4.0	–
EPS (yen)		▲8.76	▲7.60	7.66	2.99	28.02	25.94	+33.54	–
FOREX (yen)	USD	108	106	105	105	110	110	+4	–
	EUR	118	124	124	128	132	130	+7	–

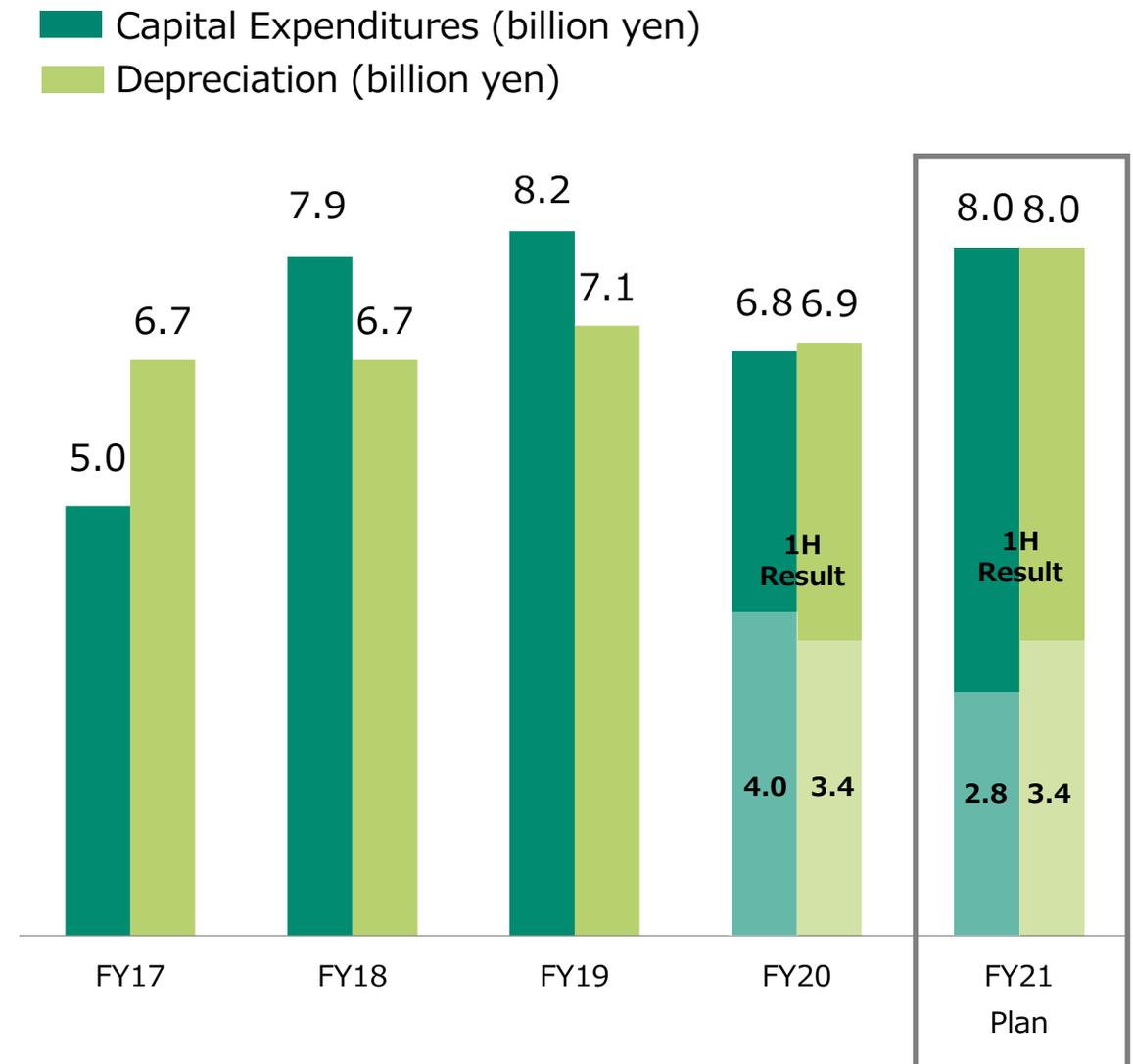
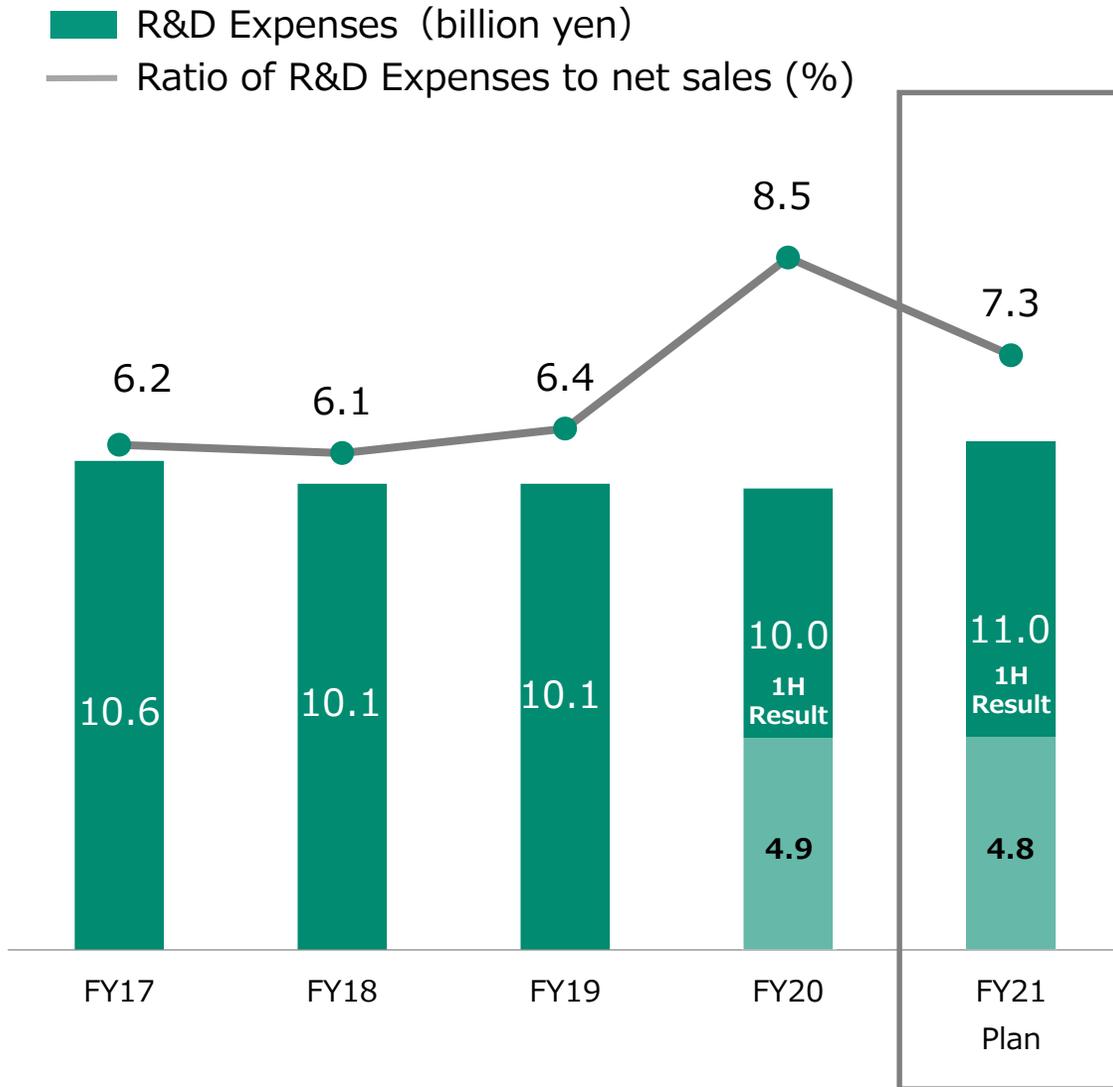
Reference: Summary of Quarterly Financial Results by Business Segments

		FY20				FY21		YoY comparison	
(billion yen)		1Q	2Q	3Q	4Q	1Q	2Q	Changes	%
Light source	Net Sales	10.4	10.5	11.6	13.0	13.6	14.3	+3.7	+35.4
	Operating Income	0.4	0.1	0.7	1.7	1.9	2.5	+2.3	-
	Operating Income (%)	4.6	1.8	6.8	13.5	14.3	17.8	+16.0P	-
Optical equipment	Net Sales	7.1	9.2	9.4	13.1	12.4	12.0	+2.8	+30.5
	Operating Income	0.0	0.0	0.0	0.6	1.0	1.3	+1.2	-
	Operating Income (%)	1.1	0.9	0.8	4.6	8.7	11.3	+10.4P	-
Imaging equipment	Net Sales	5.4	7.9	8.5	9.0	8.2	9.4	+1.4	+17.9
	Operating Income	▲1.2	▲0.6	▲0.2	▲1.2	▲0.4	0.0	+0.6	-
	Operating Income (%)	▲23.9	▲8.0	▲3.3	▲14.1	▲5.8	0.3	+8.3P	-
Others	Net Sales	0.6	0.5	0.7	0.8	0.6	0.8	+0.2	+52.5
	Operating Income	▲0.0	0.0	0.0	0.0	▲0.0	0.0	+0.0	-
	Operating Income (%)	▲3.6	0.1	4.3	6.1	▲0.2	2.2	+2.2P	-
Total	Net Sales	23.6	28.3	30.4	36.1	34.9	36.6	+8.2	+29.2
	Operating Income	▲0.7	▲0.3	0.6	1.1	2.5	3.9	+4.3	-
	Operating Income (%)	▲3.1	▲1.1	2.2	3.2	7.4	10.9	+12.1P	-

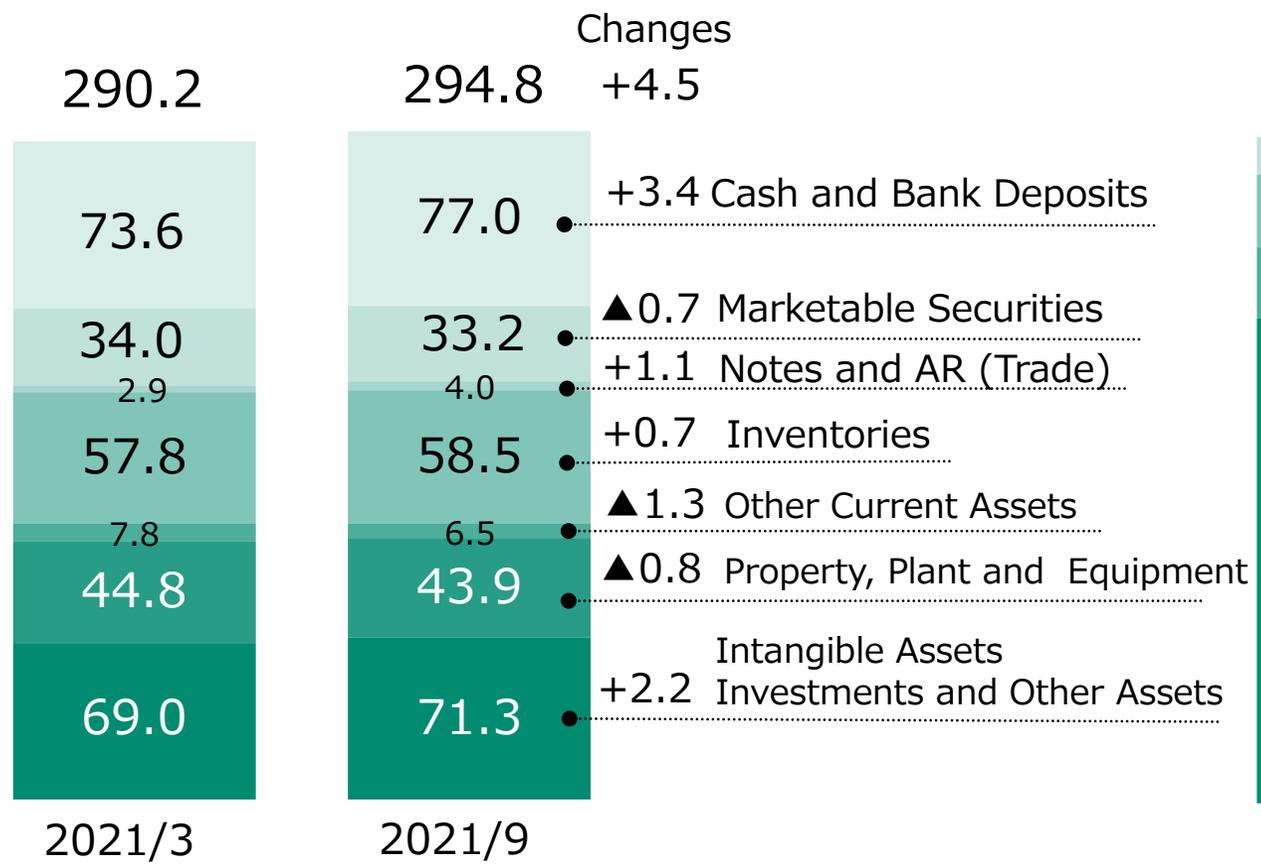
Reference: Sales Ratio by Region



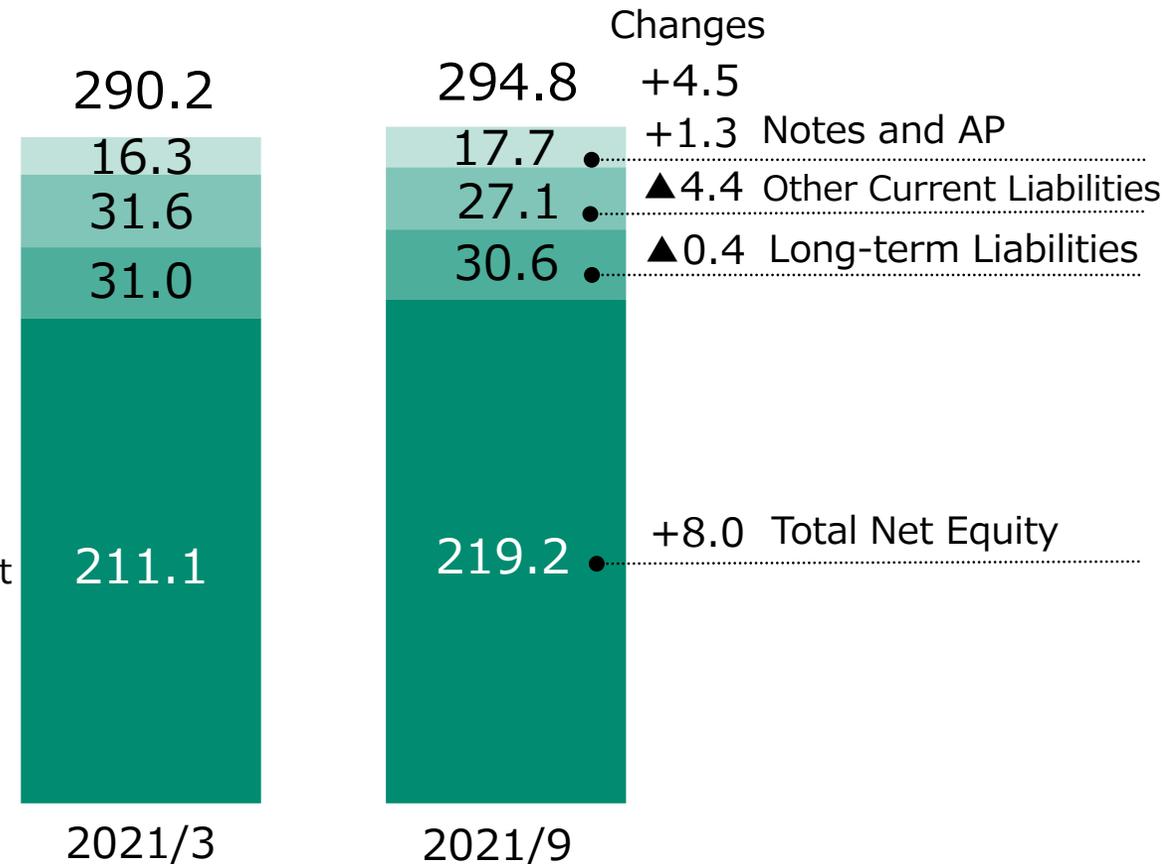
Reference: R&D Expenses/Capital Expenditures and Depreciation



Asset (billion yen)



Liabilities/Total Net Equity (billion yen)

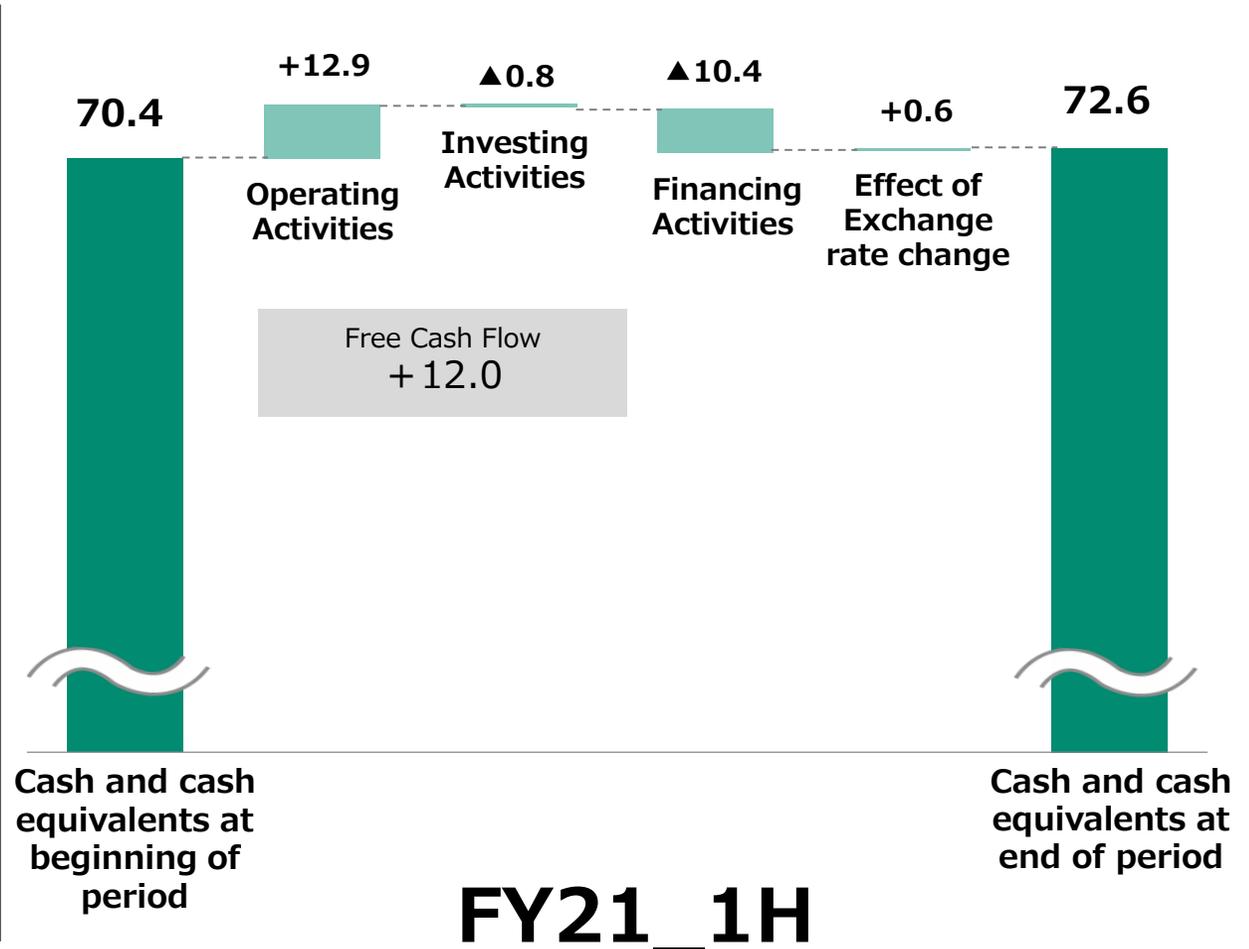
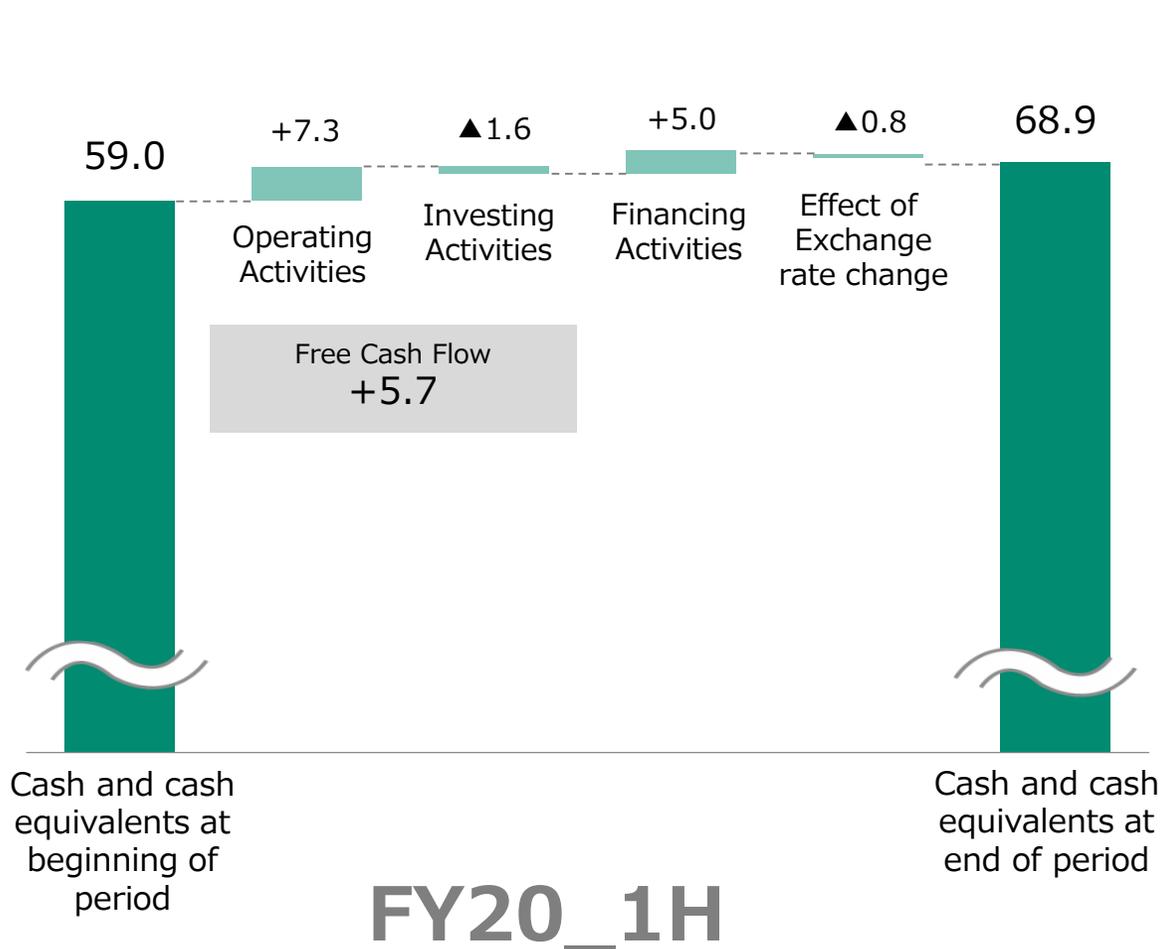


● Turnover (months)	2021/3	2021/9
Receivable-trade	3.8	2.8
Inventories	5.8	4.9

● Equity Ratio (%)	2021/3	2021/9
	72.7	74.3

Reference: Cash Flow

(billion yen)



AI	Artificial Intelligence
BGA	Ball Grid Array
COF	Chip on Film
CoO	Cost of Ownership
CPU	Central Processing Unit
DCP	Digital Cinema Projector
DI	Direct Imaging
EUV	Extreme Ultraviolet Radiation
FPD	Flat Panel Display
GPU	Graphic Processing Unit
IoT	Internet of Things
OA	Office Automation
OLED	Organic Light Emitting Diode
RGB	Red Green Blue
TNO	The Netherlands Organization of Applied Scientific Research
UV	Ultraviolet
5G	5 th Generation

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Contact:
Corporate Planning Department, Ushio Inc.
Email: ir@ushio.co.jp
<https://www.ushio.co.jp/en/>