



Quarterly Financial Results Briefing
Third Quarter of FY2025

QD Laser, Inc.
February 2026

Remarks from Kiyoshi Okubo, President & CEO

We are pleased to present the financial results briefing materials for QD Laser, Inc. for the Third quarter of Fiscal Year 2025 (April to December 2025).

Cumulative results through the third quarter show that, driven by strong sales of high-power lasers and quantum dot lasers for R&D in the Laser Device Business, as well as progress in order intake for retinal projection unit development (NRE) in the Visual Information Device Business, net sales reached JPY 983 million (up 6% year-on-year), and operating loss improved to JPY -224 million (an improvement of JPY 108 million year-on-year). Although the Company remains in a loss position, we will continue to grow our business with the aim of achieving the current fiscal year plan and the major goal of company-wide profitability in the next fiscal year, steadily implementing and accumulating the various initiatives being promoted by both business divisions.

The grant of the SME Growth Acceleration Subsidy has been formally approved, and using this subsidy, we placed an order for a state-of-the-art crystal growth system (MBE system) capable of handling large substrates. Although our manufacturing model is semi-fabless, the crystal growth process is a critical process that we carry out in-house, concentrating our proprietary technologies and know-how. We believe this equipment investment represents an important step toward further growth of the Laser Device Business.

The new facility (Yokohama City, Kanagawa Prefecture) has been completed as scheduled, and the entire company is planned to relocate between March and April this year. We will celebrate the 20th anniversary of our founding in April this year at the new site and will continue to strive for further growth. We sincerely appreciate your continued support of QD Laser.

Kiyoshi Okubo
President & CEO

Mission

Unlocking new possibilities, with semiconductor lasers.

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Our company was the first in the world to successfully mass-produce quantum dot lasers for optical communications—technology once thought impossible.

We don't just make the impossible possible; we also create entirely new possibilities that don't yet exist.

By harnessing laser technology, we aim to achieve groundbreaking advancements in the biomedical field, ultra-precision manufacturing, and information processing. At the same time, we drive the evolution of high-performance visual information devices, continuously challenging ourselves to unlock new human capabilities.

Company Profile

Spin-off venture from Fujitsu.

IPO in February 2021 at TSE Mothers (currently Growth): securities code: 6613

Company Name	QD Laser, Inc.
Foundation	April 24, 2006
Fiscal year-ended	March 31
Representative	Kiyoshi Okubo, President and CEO
Number of Persons *1	49
Location	Headquarters: 1-1 Minamiwarida-cho, Kawasaki-ku, Kawasaki-shi, Kanagawa
Business	<ul style="list-style-type: none">• Semiconductor Laser Device business *2<ul style="list-style-type: none">• Development, manufacturing, and sales of advanced semiconductor lasers for communication, processing, and sensing.• Development, manufacturing, and sales of quantum-dot lasers for silicon photonics and related applications.• Visual Information Device business *3<ul style="list-style-type: none">• Development, manufacturing, and sales of “RETISSA”, the world’s first product utilizing laser retinal projection technology.• Development, manufacturing, and sales of devices and components utilizing retinal projection technology and ‘laser + optics’ optical units.
Licenses	<ul style="list-style-type: none">• Class II Marketing License for Medical Devices• Registration of medical equipment manufacturer• ISO 9001



Kiyoshi Okubo, President & CEO

History of product expansion

Laser Device

Quantum Dot Laser (1300nm etc.)

Commercialize world's first optical communication Quantum dot laser

Start mass production of Quantum dot laser for optical wiring

DFB Laser (1064nm etc.)

Commercialize DFB laser for precision processing and sensors

High-Power Laser (660nm etc.)

Commercialize high-power laser for levels and sensors

Compact Visible Laser (532nm etc.)

Commercialize compact visible laser for biological testing, etc.

Established as a Fujitsu Laboratories spin-off venture

Listed on the TSE Mothers (currently Growth) market

Launch the driver built-in unit "Lantana"

2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018 2019 2020 2021 2022 2023 2024 2025

Visual Information Device

Vision Support

Started shipping the consumer laser retinal projection device "RETISSA® DISPLAY"

Started shipping "Neoviewer"

Vision Health Care

Start of sales of the "MEOCHECK NEO" eye self-check device

Smart Glass

Joint research begins on laser retinal scanning smart glasses

QD LASER | Initiatives Toward Achieving Business Plan

FY2025 Business Plan

90%

Q3 Progress Toward Annual Sales Plan

(Progress is calculated based on "Sales + Order Backlog" as of Q3)

Building a stable business foundation

+ 6.3%

YoY Q1-Q3 Cumulative Company-wide Sales Growth Rate

Laser Device(LD)Division

831 mil yen

Q1-Q3 Cumulative Sales

Strong high-power and quantum dot laser sales, sustaining YoY growth

Visual Information Device(VID)Division

108%

Annual Sales Plan Progress

Business transformation driving early achievement of the annual sales plan

Pursuing growth potential

Steadily advancing initiatives for growth

Laser Device(LD)Division

Decision to introduce a large-scale crystal growth system (MBE) for mass production

Visual Information Device(VID)Division

Progress in joint development of retinal projection units for XR glasses

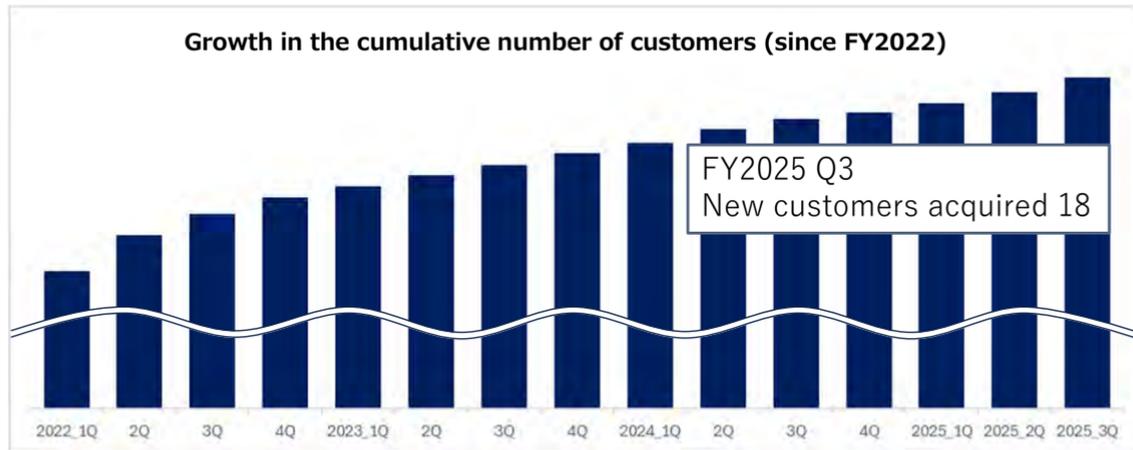
Company-wide Targets

FY2026 Achieve company-wide profitability

Working Toward Company-wide Profitability as stated in the Mid-Term Management Plan

Laser Device(LD) Division | Building a Stable Business Foundation

Q3 cumulative sales grew year-on-year, with customer numbers continuing to rise



FY2025 Q3 Result

Sales 831 mil yen

Certified customers
(as of December)

120

Q3 Initiatives

High-power lasers for lighting and quantum dot lasers for R&D performed strongly. The SME Growth Acceleration Subsidy was formally approved, and a large-scale MBE system was ordered using the subsidy.

Laser Device(LD) Division | Pursuing Growth Potential

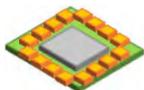
Research on optical interconnects for data centers by semiconductor companies remains active, and demand for quantum dot lasers for R&D purposes continues to be strong.

Use of quantum-dot lasers in semiconductor optical interconnects (CPO)



- ✓ The latest R&D by major semiconductor companies
- ✓ A solution for lowering data center power consumption with high potential demand

Meeting customer R&D needs



- ✓ Providing customer-specified products (for R&D use)
- ✓ Improving quantum-dot laser performance (higher power output, multi-wavelength support)

Accelerating our development speed through facility expansion

Among our key quantum-dot laser customers, those advancing R&D for data centers

Major global semiconductor companies etc.

6 companies (FY2025)

- ✓ Ongoing R&D quantum dot laser orders from multiple customers
 - products tailored to their specifications

Initiatives in the third quarter

Ongoing R&D quantum dot laser orders (Q3 sales at 105% of plan), supporting customers' advanced research

Promoting new initiatives with a view toward FY2026

Retinal projection units for XR glasses and related devices

Continuing Joint Development of Retinal Projection XR Glasses with Domestic Customers (NRE Contracted)

- Conducting joint development of optical units with eye tracking and meta-optics

Discussing the potential application of retinal projection technology to consumer devices



XR Glass

New Retinal projection devices

Advancing efforts to establish a sales scheme for smartphone-mounted retinal projection devices in Japan



left : Retinal Projection Device
right : Lens Unit

Optical unit (laser + MEMS)

Ongoing Proposals for Optical Unit (Laser + Optical System / MEMS) Products

- Expanding customer proposals for 3D scanning, LiDAR, and multi-wavelength modules

Development of New Applications for Retinal Projection

- Discussing joint development specifications for driving assistance with a partner



Laser + MEMS Unit

Ongoing consideration of medical applications and other new initiatives

Exploring Medical Device Applications for Automated Perimeters, Refractometers, etc.

- Initiated studies and partner search for medical device applications using retinal projection and optical technologies



Usage image

Initiatives in the Third Quarter

Ongoing joint development incorporating new technologies for XR glasses.

Establishing a sales scheme in Japan for new retinal projection products.

Expanding customer proposals for industrial applications of optical units (laser + MEMS) used in retinal projection technology.

QD LASER | Growth Initiatives (Relocation & Capacity Expansion)

Relocation to the New Facility (Yokohama, Kanagawa)

- Relocation of headquarters and production facilities to a dedicated building in Yokohama, Kanagawa, scheduled for March–April 2026
 - ✓ Total floor area: 1,529.51 m², three-story building
 - ✓ Consolidation of in-house production equipment (MBE systems, product inspection equipment, etc.)
 - ✓ Capable of accommodating future production capacity expansion, including additional MBE systems



※The VID business division is scheduled to relocate to a separate building near the new facility
※Image partially modified

Installation of a Large-Scale Crystal Growth System (MBE) for Mass Production

- Decision to install Riber's "MBE6000," a large-scale crystal growth system for mass production
 - ✓ A latest-generation large-scale MBE system for mass production, compatible with 6-inch substrates; this installation will expand wafer production capacity to four times the current level
 - ✓ Scheduled for installation at the new facility (Yokohama, Kanagawa), with operations expected to begin around June 2027



※Source: Riber press release

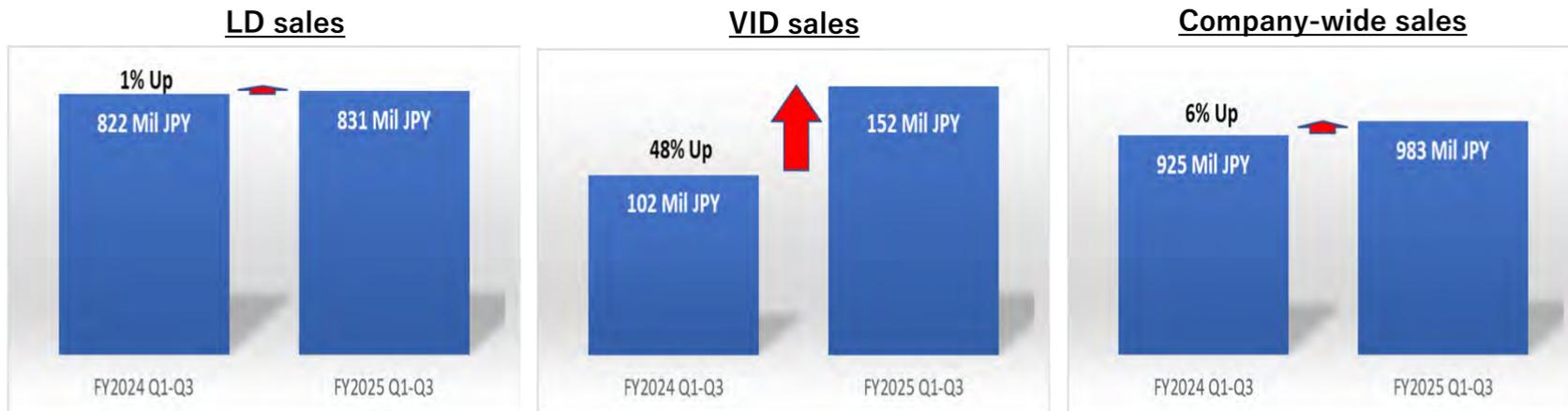
01

Financial Results for FY2025-Q3

Financial Results Highlights for FY2025-Q3 vs FY2024-Q3

- 01 Sales in the LD business amounted to **JPY 831 million, up 1%** year-on-year, while sales in the VID business amounted to **JPY 152 million, up 48%** year-on-year. As a result, company-wide net sales **increased by 6% year-on-year to JPY 983 million.**

Sales in the Laser Device (LD) business increased overall by 1%, as growth in high-power lasers and quantum dot lasers offset declines in DFB lasers and compact visible lasers. Sales in the Visual Information Device (VID) business increased by 48%, driven by growth in development contract revenue.



Financial Results Highlights for FY2025-Q3 vs FY2024-Q3

- 02 The company-wide operating loss improved by JPY 108 million (33%) year-on-year. Operating profit in the LD business decreased by 16% year-on-year to JPY 120 million.

In the LD business, operating profit declined 16% year-on-year to JPY 120 million, despite a slight increase in sales, mainly due to higher SG&A expenses driven by R&D costs.

In the VID business, the absence of prior-year inventory valuation losses, higher sales, and lower SG&A expenses led to an improvement in profitability. The operating loss improved by JPY 169 million year-on-year to JPY 98 million, resulting in an operating profit for the third-quarter period.

As a result, the company-wide operating loss improved by JPY 108 million year-on-year to JPY 224 million.

LD operating income



Company-wide operating loss



- 03 The ordinary loss improved by JPY 119 million (37%) year-on-year, and the quarterly net loss improved by JPY 104 million (32%) year-on-year.

The ordinary loss improved by JPY 119 million (37%) year-on-year to JPY 207 million, reflecting an increase in interest income that exceeded the improvement in operating loss.

The quarterly net loss improved by JPY 104 million (32%) year-on-year to JPY 223 million. The improvement was smaller than that of ordinary loss due to the recording of extraordinary losses related to office relocation expenses.

Ordinary loss



Quarterly net loss



Financial Results Highlights for FY2025-Q3 vs FY2024-Q3

Sales increased and losses improved year-on-year

Sales **increased 1%** year-on-year in the LD business and **48%** YOY in the VID business, resulting in a **6% company-wide increase**. Operating profit in the LD business declined 16% YOY to JPY 120 million, while the VID business recorded a **JPY 169 million improvement**. As a result, the company-wide operating loss **improved by JPY 108 million (33%)** YOY. Despite the YOY decline in LD operating profit, performance exceeded the forecast.

Performance Summary

(Million JPY)	FY2025 Q1-Q2	FY2024 Q1-Q2	YOY	FY2025 Forecast ^{*1}	Full- Year Progress
Sales	983	925	+6% (+58)	1,387	71%
(LD)	831	822	+1%	1,247	67%
(VID)	152	102	+48%	140	108%
Operating Profit or Loss (Δ)	Δ224	Δ333	+108	Δ411	-
(LD)	120	143	Δ23	98	-
(VID)	Δ98	Δ268	+169	Δ195	-
Ordinary Loss (Δ)	Δ207	Δ326	+119	Δ401	-
Net Loss (Δ)	Δ223	Δ328	+104	Δ445	-



Sales by Product Group

(Million JPY)	FY2025 Q1-Q3	FY2024 Q1-Q3	YOY
DFB Laser	344	381	Δ10%
Compact Visible Laser	165	220	Δ25%
High-Power Laser	196	167	+18%
Quantum Dot Laser	125	53	+133%
LD Total	831	822	+1%
Products	0	27	Δ98%
NRE	151	72	+109%
Self Check Service	0	2	Δ100%
VID Total	152	102	+48%
Grand Total	983	925	+6%

Balance Sheet

Current assets decreased by JPY 646 million, mainly due to lower cash and deposits, while non-current assets increased by JPY 370 million due to higher long-term loans receivable, resulting in a JPY 275 million decrease in total assets. Current liabilities declined by JPY 32 million, and non-current liabilities decreased by JPY 24 million, mainly due to the reclassification of asset retirement obligations, resulting in a JPY 57 million decrease in total liabilities. The equity ratio was 95.5%, compared with 94.8%^{*1} at the end of the previous fiscal year.

Balance Sheet

(Million JPY)	End of December 2025	End of March 2025	YOY
Current Assets	3,908	4,554	△646
Fixed Assets	1,321	950	+ 370
Total of Assets	5,229	5,505	△275
Current Liabilities	223	256	△32
Fixed Liabilities	6	30	△24
Total of Liabilities	229	286	△57
Net Assets	5,000	5,219	△218
Total Liabilities and Net Assets	5,229	5,505	△275

Order Status

As of the end of the first quarter, sales and backlog (scheduled sales within the fiscal year) were 90% of the annual sales forecast. Progress at the same level as the previous year.

Net sales for FY2025-Q3 and order backlog as of the end of the FY2025-Q3



DFB Lasers^{*1} : Sales in FY2025-Q3

344 million JPY sales, decreased by 10% year-on-year.

Orders for light sources for measurement (sensor systems) are booming, despite a decline in demand for precision machining.

- **Micromachining: 102 million JPY sales (30%^{*2})**

Sales for EV battery processing equipment in China and for micromachining equipment in the U.S. were sluggish, resulting in sales decreased by 40% YOY.

- **Measurement(Sensor system): 100 million JPY sales (29%^{*2})**

Sales increased by 42% YOY due to strong orders for light sources for sensors in the U.S.

- **Medical equipment: 50 million JPY sales (15%^{*2})**

Sales of light sources for medical and bio-related equipment in Japan and Europe remained steady, reaching the same level as the previous year.

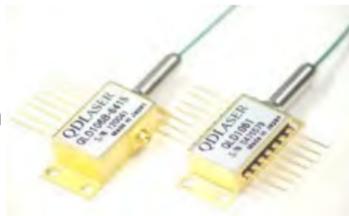
- **Measurement(Semiconductor manufacturing): 60 million JPY sales (18%^{*2})**

Sales grew on resumed orders in Europe (post-inventory adjustment) and start of mass production for wafer-process inspection light sources in Japan.

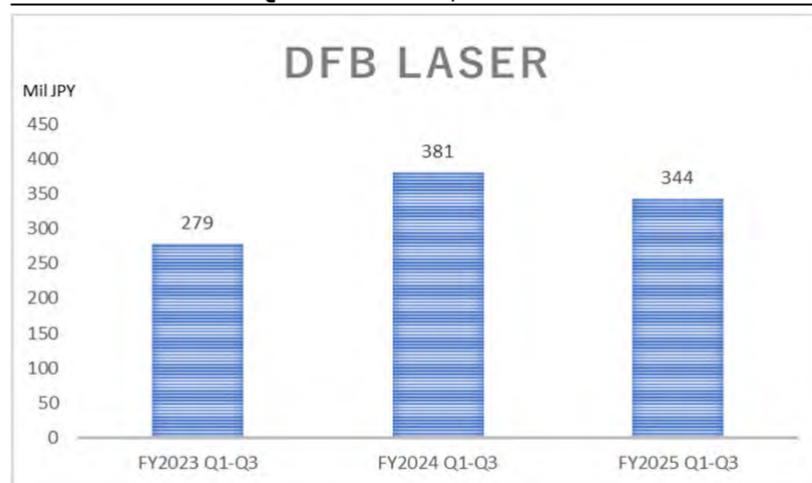
DFB lasers

Left : for 15 ps pulsed operation

Right : for 50 ps pulsed,
ns pulsed, and CW operations



Sales of Q3 in FY2023, 2024 and 2025



Compact Visible Lasers : Sales in FY2025-Q3

165 million JPY sales, decreased by 25% year-on-year.

Demand from Chinese customer (headquartered in the U.S.) decreased. The European market for microscope applications was sluggish.

- **Blood/cell analysis(Flow cytometer/cell sorter^{*1}): 109 million JPY Sales (69%^{*2})**

Sales down 33% YOY due to inventory adjustments for Chinese customer's (headquartered in the U.S.) new products and shipping delays caused by production issues.

- **Microscope: 44 million JPY sales (28%^{*2})**

Sales decreased by 10% YOY. Orders from Japanese customer and European biomedical STED^{*3} microscope manufacturers are strong, but orders from other European microscope manufacturers are sluggish.

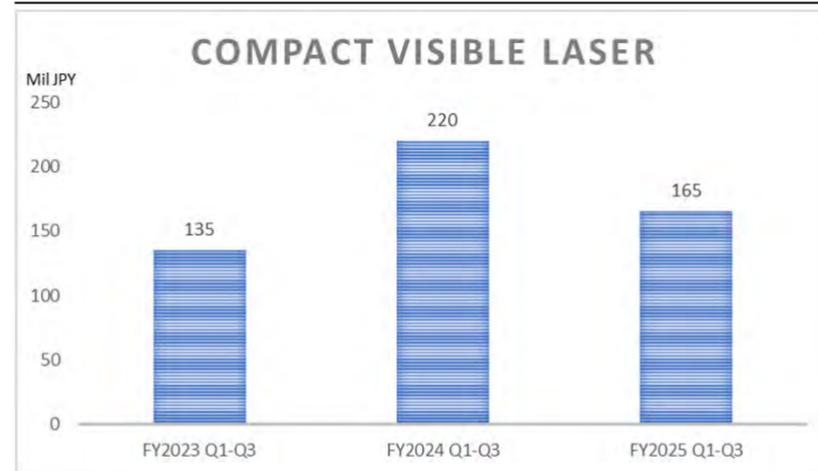
- **LantanaTM*4**

Products released in July.

Compact visible lasers
Left: green
Middle: yellow-green
Right: orange



Sales of Q3 in FY2023, 2024 and 2025



*1 : A type of flow cytometer to separate specific cells.

*2 : Percentage in compact visible laser sales.

*3 : STED: STimulated Emission Depletion microscopy. A type of fluorescence microscope.

*4: All-in-one compact visible laser

High-Power Lasers : Sales in FY2025-Q3

196 million JPY sales, increased by 18% year-on-year.

Sales increase in all categories.

- **Leveler for construction/DIY and sensor: 40 million JPY sales (21%^{*1})**

Sales increased by 132% YOY. Sales of lighting sources in China increased significantly.

- **Sensor in semiconductor factories: 35 million JPY sales (18%^{*1})**

Sales increased by 35% YOY. Strong orders of sensor light sources for wafer transfer machines in Japan.

- **Machine vision and data communication in factories:**

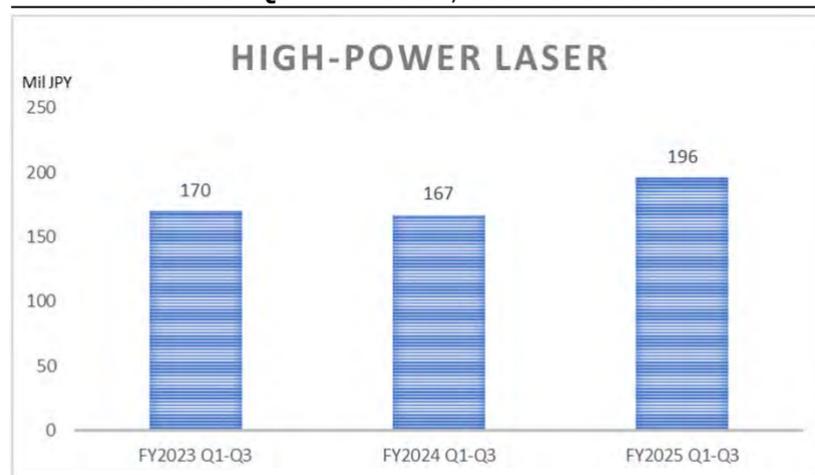
66 million JPY (34%^{*1})

Sales increased by 56% YOY. The start of mass production of light sources for factories in Japan contributed greatly. Demand of light sources for machine vision in North America was stable.



High-power lasers
TO package

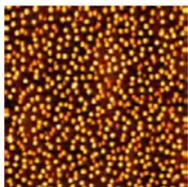
Sales of Q3 in FY2023, 2024 and 2025



Quantum Dot Lasers^{*1} : Sales in FY2025-Q3

125 million JPY sales, increased by 133% year-on-year.

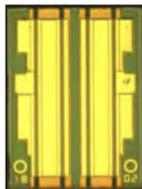
- Various progress in research and development aimed at mass production of quantum dot lasers for incorporation into our customers' final products.
- Working on quantum-dot lasers for silicon photonics with nine customers in Japan, the US, and Europe for applications including optical connector, chip-to-chip communications, LiDAR, and electronics.
- The demand for quantum dot lasers for research and development among our customers is expected to generally remain in line with the previous trend, although some fluctuations are anticipated.
- Shipped quantum dot wafers for optical connector and chip-to-chip communications to industries in the U.S. and Europe.
- Shipped quantum dot wafers for electronics to industry in Europe.



Quantum dot

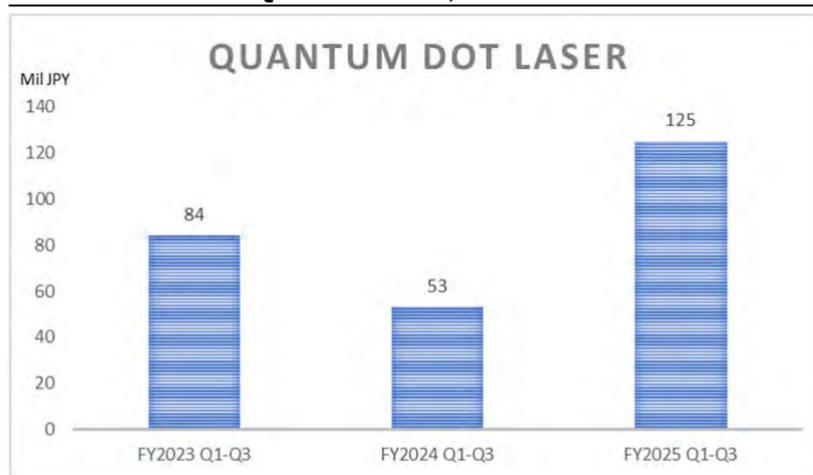


Quantum dot wafer



Quantum dot laser chip

Sales of Q3 in FY2023, 2024 and 2025



Visual Information Device (VID) : Sales and Progress of the Mid-term Business Plan

152 million JPY sales, increased by 48% year-on-year.

- Contract Development (NRE)
 - Ongoing development orders from an existing customer for smart glasses utilizing the retinal projection technology. Eye-tracking and meta-optics development are also in progress.
 - Ongoing discussions with a new customer regarding a new application utilizing the retinal projection technology.
- Product and Service Sales
 - New retinal projection device: Ongoing discussions with a partner regarding the sale in Japan of a new smartphone-mounted device utilizing the retinal projection technology.
 - Supplying RGB lasers and lens units to customers.
 - RETISSA ONHAND – Promotion activities for deployment in public facilities are ongoing through distributors.
- Joint business development in the fields of smart glasses and vision support applications
 - Discussions are ongoing with candidates



XR glass

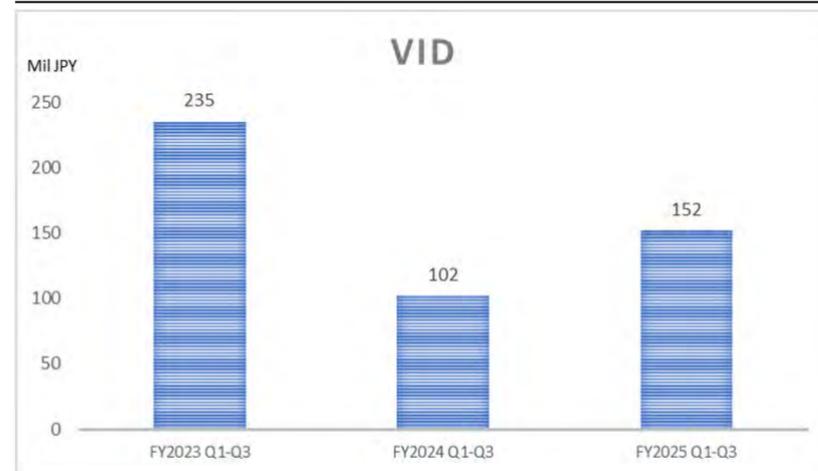


Retinal projection device mounted on smartphone



Lens unit

Sales of Q3 in FY2023, 2024 and 2025



Forecast for the FY2025

Steady growth of the LD business and efforts to restructure the VID business to achieve the mid-term business plan

Laser Device business

Operating profit

consecutive **11** years

Operating profit: 98 million yen*
Sales: 1.24 billion yen (11% increase YOY)
Increased costs for new product development and depreciation *2

Expansion of certified mass production

107⇒**116** products

Expanding customer base for compact visible lasers
Expanding DFB laser applications
New product development and commercialization

Solution product launch^{*3}

The world's smallest
**Compact Visible Laser Unit
Lantana™** Mass production begins

Visual Information business^{*3}

Sales 140 million yen
(-25% YOY)
Operating loss
-195 million yen^{*1}
(116 million yen improve YOY)

**Optical unit and
component business
launch**

Expanding the "laser + optical system" developed through retinal projection equipment products to industrial applications and launching a component business

Reorganization of business for the next fiscal year and beyond^{*4}

**Strengthening
corporate collaboration**

Consideration of joint ventures through collaboration with other companies
Technology licensing, sales of other companies' retinal projection devices

Goals for the FY2026

Laser Device business

Operating profit

consecutive **12** years

Operating profit: 340 million yen (Improve gross profit margin to 45%)
Increase in number of certified products and new customers
Price optimization, reduction in outsourcing costs, and improved yield

Global niche new products:

Sales over **200** million yen

New products in FY2025 will contribute*1
· Compact visible laser "Lantana™"/New wavelength
· DFB laser for semiconductor inspection/precision processing/sensing

Relocation of production base

Establishing a production expansion system

Spring 2026: Relocating to new base in Yokohama.
Increase production capacity by purchasing new equipment and expanding clean rooms and product inspection areas.

Visual Information business

Profitability in FY2026:

Operating profit **0.2** million yen

Aims to achieve profitability in FY2026 by meeting user needs through its low vision aid business, sales of other companies' products, and optical unit and parts business

Expanding optical unit and component business

Aims to expand the component business by applying the "laser + optical system" technology the company has developed for retinal projection device products to industrial applications

Utilizing our own technology and sales know-how

Strengthening corporate collaboration

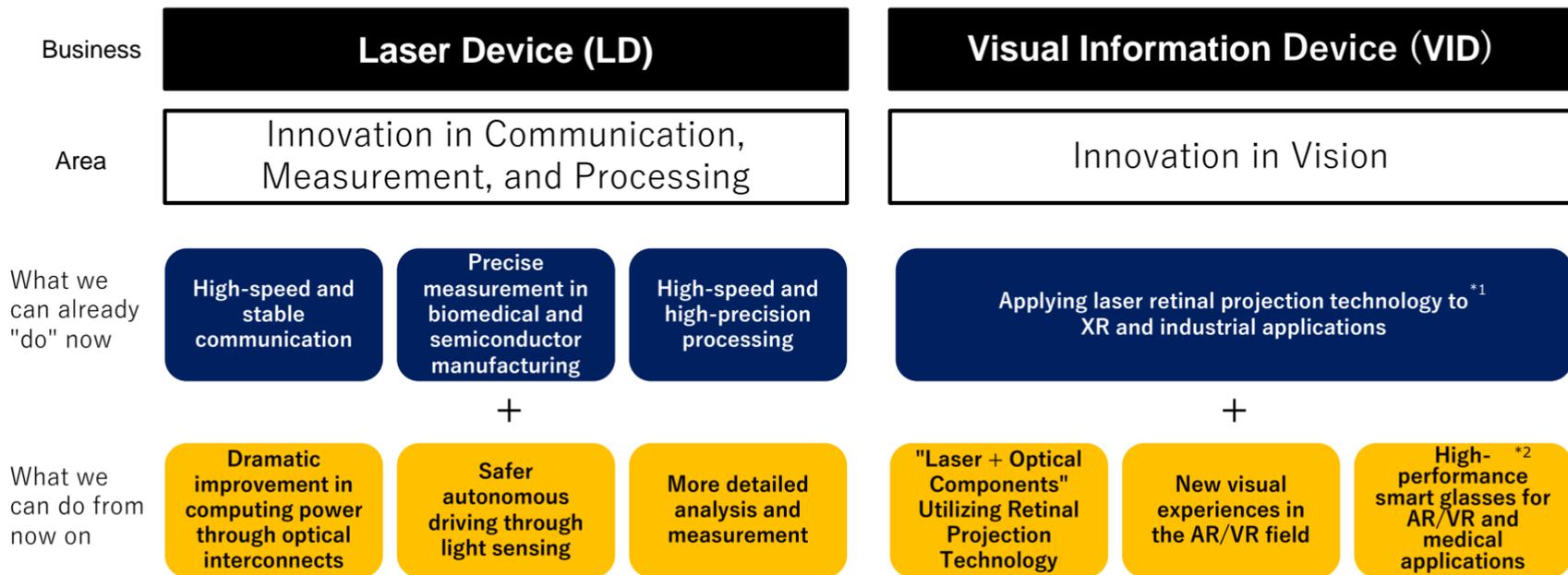
Expand optical licenses and sales of other companies' retinal projection devices

02

Business Summary

Two Businesses to Expand Human Capabilities

Increasing "abilities" with the power of semiconductor lasers, contributing to the improvement of overall human happiness.



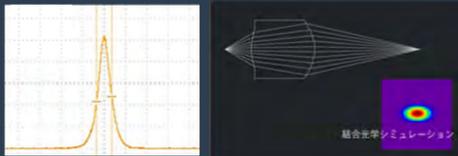
Our Core Technologies and Competitive Advantages

Material Creation, Design, and Control

Cutting Edge Semiconductor Laser Technology with Several Unique Features

Laser Design

A technology to design lasers suitable for each use.
World's fastest (15ps)^{*3} semiconductor laser for precision material processing utilizing optical communication technology,



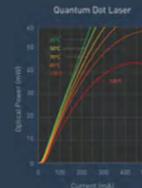
Semiconductor Crystal Growth

Technology to grow each atomic layer of semiconductor crystals on a semiconductor substrate



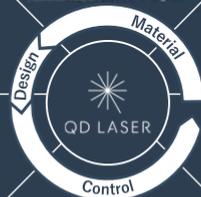
Quantum Dot

Succeeded in the mass production of quantum dot lasers with **world's highest operating temperature**^{*1} and developed **world's smallest silicon-based optical transceiver**^{*2}



Small Module

A technology to make DFB lasers ultra compact.
 Our yellow/orange laser modules led us to become one of the finalists at the Prism Awards 2014.



VISIRIUM Technology

A technology to project images directly on the retina through ultra small laser projectors.
World's First Commercialization^{*4}



Diffraction Grating

Technology to form periodic refractive index change inside the laser enabling arbitrary wavelength control.
World's first^{*5} commercialization of yellow/orange semiconductor laser

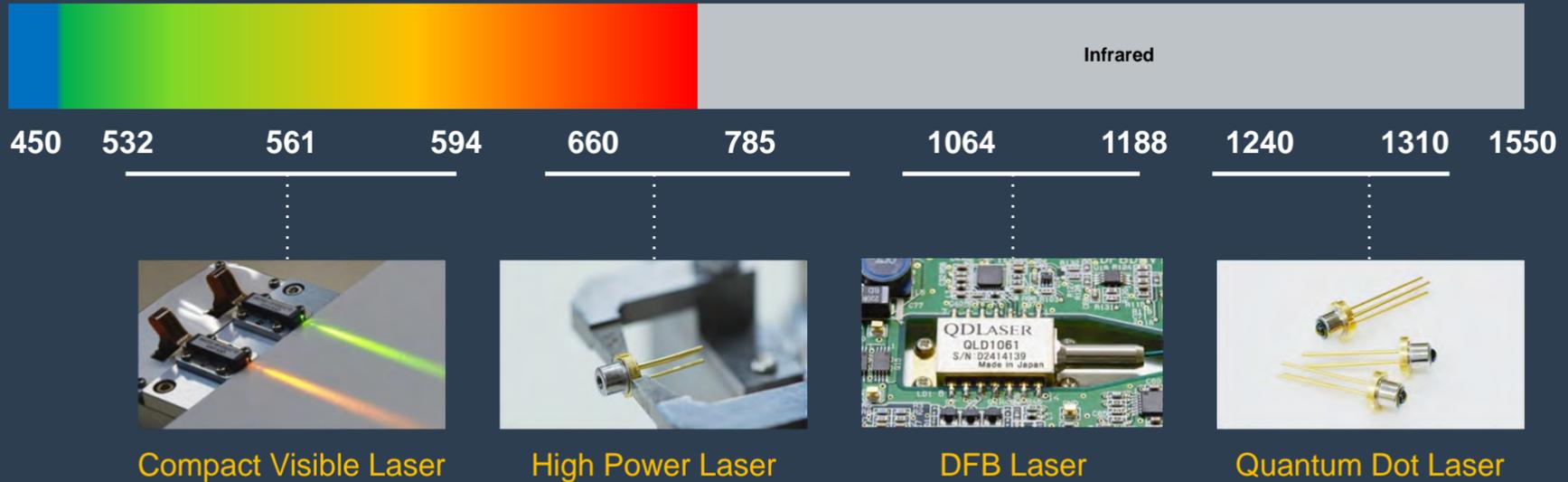


*3:
*4:
*5:

2017 PRISM Award in Industrial Lasers - QD Laser (2nd Feb 2017)
 Prism Awards honour photonic innovations at Photonics West 2019
 Japan/U.S. PATENT JPS362301/US896911

Variations on semiconductor lasers developed and sold by QD Laser

QD Laser provides a wide range of semiconductor lasers with wavelengths suitable for each application



Our Major Laser Device Products, Wavelengths, Features, and Uses

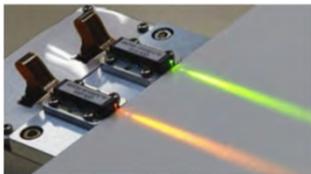
Compact visible lasers

High power laser

DFB laser

Quantum dot laser

Products



Wavelength

532, 561, 594 nm

640-940nm

1030, 1053, 1064, 1080, 1120, 1180nm

1100-1330nm

1020-1120nm provided with 1nm step

Features

- Miniature size, low power consumption, stability, short pulse generation, and high-speed modulation, etc.
- World's first current injection yellow-green and orange lasers

- High power Fabry Perot laser
- Providing products and solutions according to applications.
- Supports various wavelengths, small quantities, and custom production.

- Precise control of wavelength with stable operation under continuous, nanosecond, and picosecond modes.
- High beam quality, small size, lightweight, high electricity-light conversion efficiency, and long life compared to existing solid-state lasers.
- Extensive product lineup that meets the various needs of customers.

- Quantum dots are used for the active layer (light-emitting part) of semiconductor lasers.
- Excellent temperature stability, high-temperature resistance, and low noise performance compared to existing semiconductor lasers.

Use

Measurement

Bio.

Processing

Communication

Silicon photonics



Laser Device (LD) Division: Cases of QD laser product adoption

QD Laser products are integrated into devices that support various industries, contributing to economic activity and the development of various manufacturing industries and businesses that society focuses on.

Biomedical

As a light source for inspection and analysis equipment, Contributing to drug discovery and other medical research



Flow cytometer

An analytical device for counting cells. Adopted as its light source.



Light source size

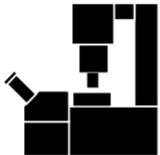
1

3

STED Microscope

A microscope capable of observing much smaller objects than conventional microscopes.

Adopted as its light source.



Spatial resolution

50nm

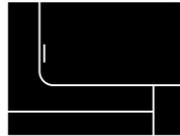
Light source size

1

3

Micromachining

Used in the processing of bodies, electronic board, and substrates of precision electronic devices, contributing to miniaturization and higher functionality of the micromachining apparatus.



Ultrashort-pulse laser processing machine

Capable of fine processing with minimal thermal effects. Adopted as its light source

Maintenance frequency

1

3

Surface roughness

1

4

Throughput

X 2⁺¹

By adopting QD laser products, it becomes possible to create small, high-precision, and high-performance devices

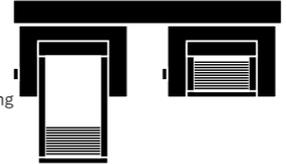
Semiconductor Processing

Incorporated into various manufacturing process equipment, contributing to the entire semiconductor industry



Semiconductor wafer transfer machine

A device for transporting plate-shaped semiconductors. Adopted as a collision prevention sensor



Semiconductor inspection equipment

Inspection equipment to ensure semiconductor quality. Adopted as a sensor to detect abnormalities



Time resolution

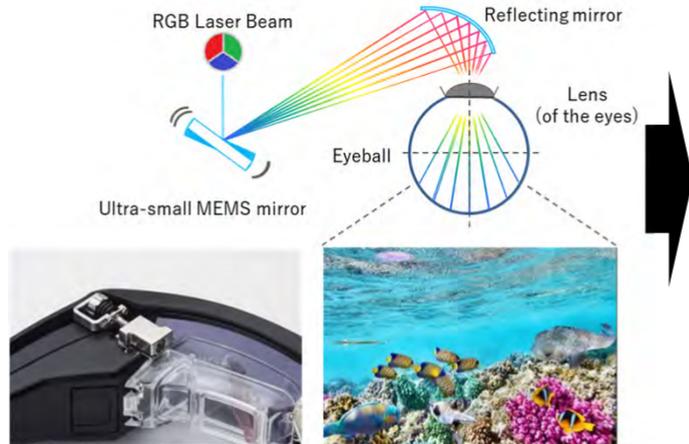
15ps

Visual Information Device (VID) Division: Business Overview

Technology and products that project images directly onto the retina using lasers, bringing innovation to human vision.

World-leading laser retinal projection technology

VISIRIUM TECHNOLOGY®



Three business areas expanding possibilities:

3. Expanding the visible world Augmented Vision	
High-performance smart glasses for AR/VR and medical applications enable an ^{*1} expanded view of the world	
2. Self-check of what you can see Vision Health Care	
Self-check service that allows users to understand the condition of their eyes	
1. Change it to 'see clearly'^{*2} Vision Support	
See clearly and do what you want to do	
	

03

ESG Initiatives

Business Development Directly Linked to Sustainability

Using the power of semiconductor lasers to increase what's possible, contributing to the improvement of well-being for all humanity.

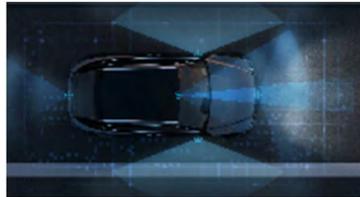
[Laser Device Division]

Advanced Sensing Using Laser Light Sources

New inspection methods using laser light sources

Contribution to innovation through data utilization

Accident reduction in advanced autonomous driving



2024 ————— to —————> 2030

[Visual Information Device Division]

Laser Retinal Projection Technology

Self-check with MEOCHECK NEO

Providing clear vision*¹ through RETISSA ON HAND

Resolving various inconveniences related to vision



2024 ————— to —————> 2030

Contributing to medical examinations and research, extending healthy life expectancy through the development of preventive medicine, and realizing an inclusive society.

The expansion of QD LASER's technology and business directly leads to the realization of a happier society.

04

Terminology

Terminology

Semiconductor laser	A compact device with an approximate length of 1mm that causes laser oscillation by passing an electric current to a semiconductor. In comparison with a solid-state laser or gas laser, more micro-miniature in size; higher speed modulation characteristics up to 10GHz; higher photoelectric conversion efficiency achieving several tens of percent and better controllability of wavelength, among other things. Became widely used in the 1980s as a light source for communication systems and optical recording media, such as CDs and DVDs, etc.
Quantum dot laser (QDL)	A semiconductor laser using a quantum-dot structure comprising nanocrystalline semiconductors in its active layer. QD Laser is the only firm in the world to mass-produce QDLs for optical communications and silicon photonics. In comparison to existing semiconductor lasers, it is superior in temperature stability, high-temperature endurance and low-noise properties.
DFB laser	Distributed Feedback Laser: QD Laser's DFB laser is equipped with a diffraction grating which enables laser oscillation at a single wavelength. It is suitable for applications where the light output needs to be concentrated into a narrow wavelength range, such as the seed light of a fiber laser.
Silicon photonics	A technology which integrates an optical circuit with a silicon electronic circuit that has signal processing and memory functions, thus enabling a breakthrough in the processing capacity limitation of the conventional electronic circuit system (achieving 100 times faster processing speed and lower power consumption) and high-capacity data transmission between LSI chips (10Tb/s).
VISIRIUM technology	A technology that projects images onto the retina using precise optical systems, creating different colors flexibly from the three primary laser light colors - red, green and blue.
Diffraction grating	A technology that freely and precisely controls the wavelength of semiconductor lasers to fit into various applications by forming periodic irregularities inside the laser.
Ultrashort pulse	A laser with a very short pulse width (duration). It is used for microfabrication and other processes as it can prevent shape distortion due to thermal effects.
Compact visible laser	A small module that generates visible light (green, yellow-green, and orange) by combining our unique semiconductor laser and wavelength conversion element.
Retinal projection	To project images onto the retina
Flow cytometer	A device capable of measuring certain properties of cells. By irradiating a cell suspension in a tube with a laser beam, it can measure the number and size of a large volume of cells over a short period of time using fluorescence and scattered light parameters. It is used in various fields including molecular biology, pathology, immunology, plant biology and marine biology.
LIDAR	LIDAR (Light Detection and Ranging) is a technology which irradiates an object and uses a light sensor to detect the reflection to measure the distance. It is expected to be used in autonomous driving systems in the future.

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- The materials and information provided in this presentation include forward-looking statements.
- These statements are based on expectations, forecasts and risk assumptions as of this presentation's publishing, and contain uncertainties that could lead to results that are substantially different from these statements.
- These risks and uncertainties are present in any transaction, and are applicable to general industry and market conditions as well as general domestic and international economic conditions, including fluctuations in interest rates and currency exchange rates.
- Note that QD Laser does not bear any duty to update or revise forward-looking statements provided in this document, even if new information comes to light or future events occur.