

sevensix

iQoM

\$ 9,999 ~



Ultrafast fiber laser

For more Info:



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sevensix

APPLICATIONS



Laser processing



Device Inspection



Communication



5G / 6G



Material Analysis



Bioimaging

✓ Microfabrication

✓ Two-photon polymerization

✓ Wafer defect inspection

✓ Quantum measurement

✓ THz radiation

✓ SC generation

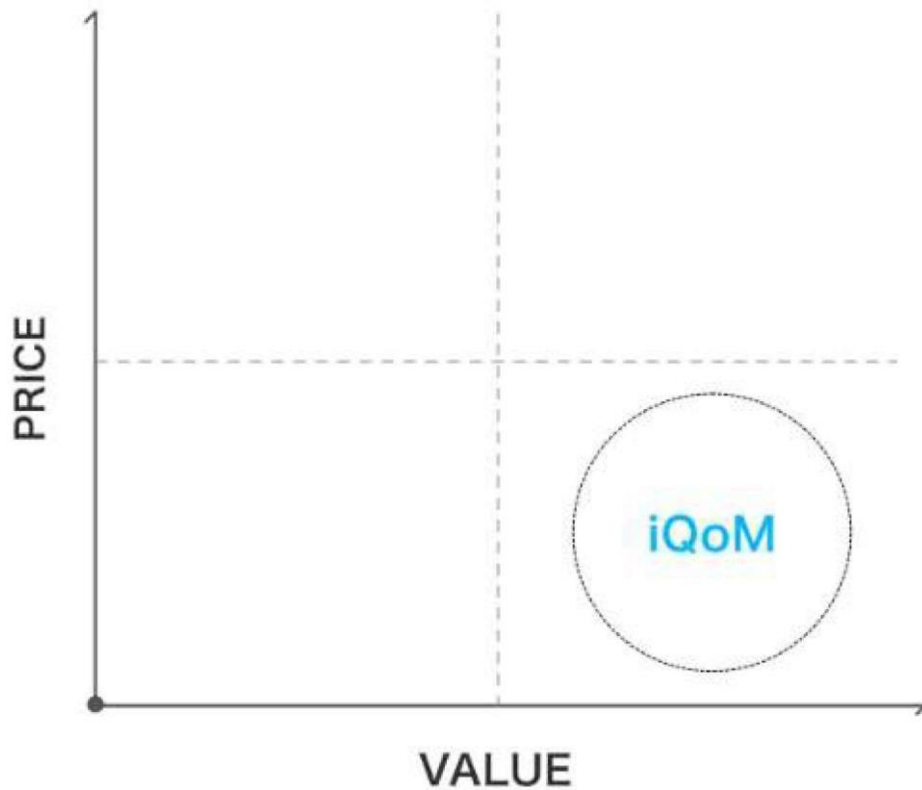
✓ OCT

✓ STED

✓ Ultrafast Spectroscopy

✓ Multiphoton Microscopy

Low price & Immediate delivery



Costs and time at the time of introduction can be drastically cut.

It is ideal as an OEM mass production model or as an entry model for starting R&D.

Point

- ▶ Extreme simplification of the laser's internal configuration
- ▶ Complete elimination of special optical components and electrical controls

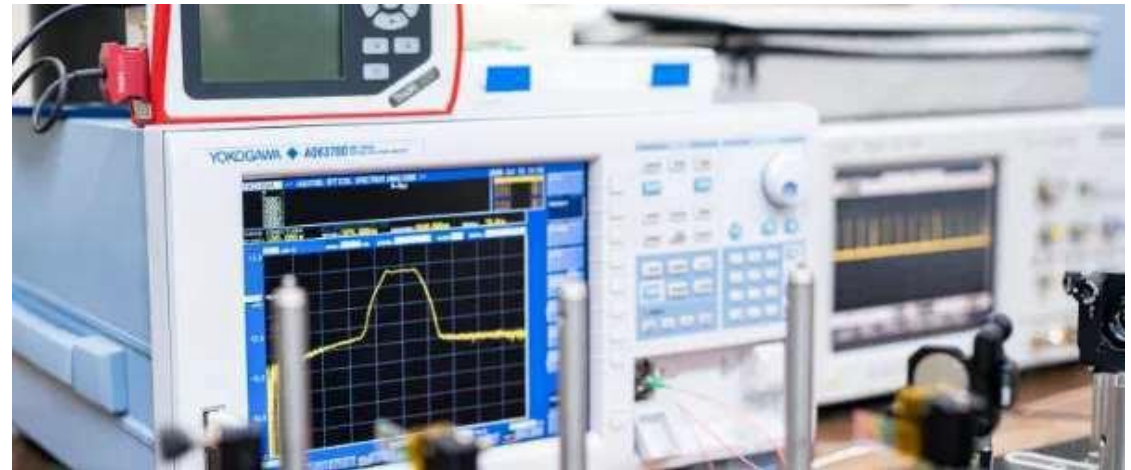
High environmental stability

High environmental stability against vibration and temperature changes is achieved. Excellent reproducibility of spectral and temporal characteristics during laser startup.

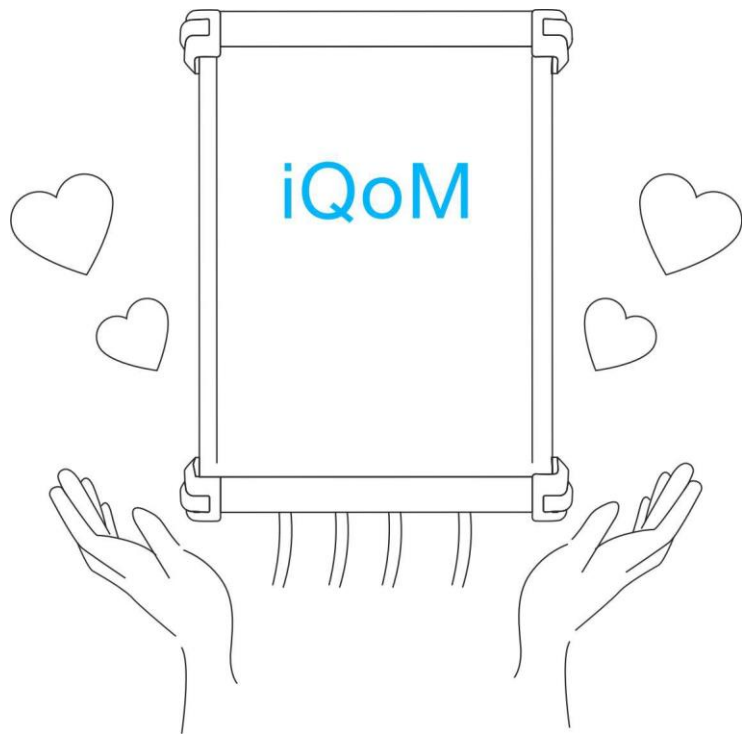
It can be used safely for long-term operation in factories and for long-term observation of biological samples.

Point

- ▶ All polarization-maintaining fiber
- ▶ Reliable and reproducible laser startup (Patented)



“SESAM” Free

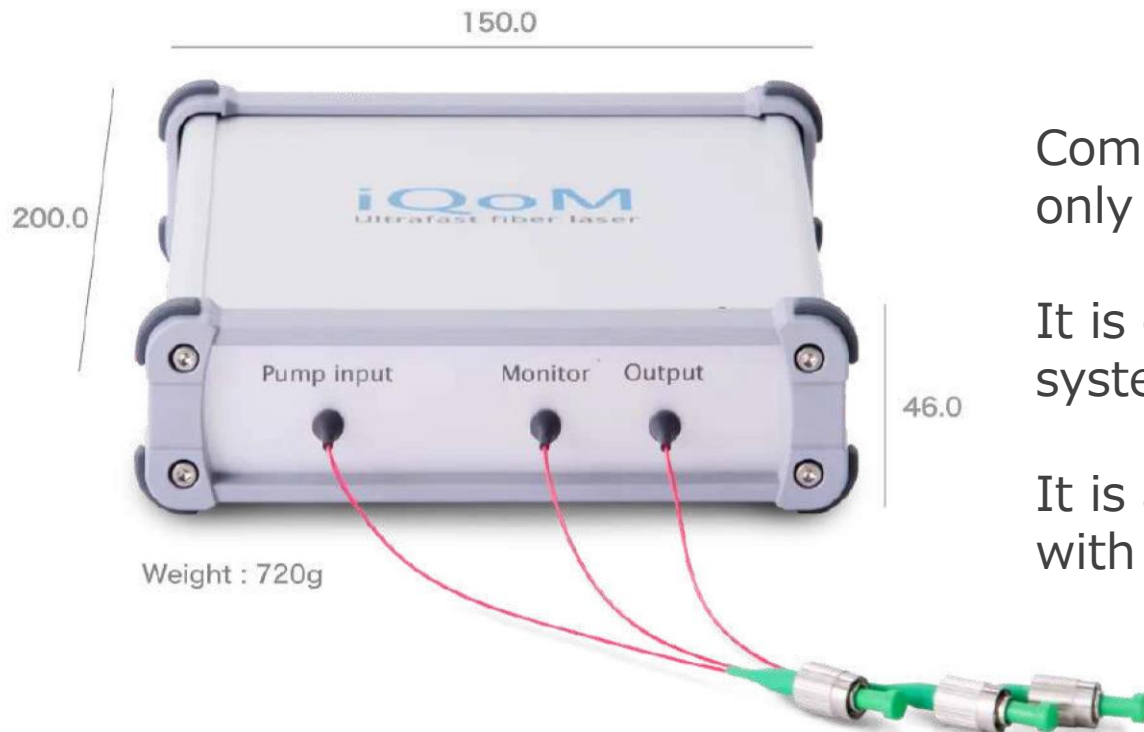


Free of consumable components like saturable absorption mirror (SESAM) has realized an overwhelmingly long service life and high reliability.

Point

- ▶ No deterioration over time
- ▶ No variation in characteristics
- ▶ Composed of highly reliable components

Easy to integrate, expand, and replace



Compact and lightweight module consisting only of optical passive components.

It is easy to integrate into or expand your system.

It is also easy to replace existing oscillators with **iQoM**.

Specification

	1040 <u>iQoM</u>	1040 <u>iQoM+AMP</u>	1064 <u>iQoM</u>	1064 <u>iQoM+AMP</u>
Central wavelength	1040 ± 3 nm		1064 ± 3 nm	
Spectral bandwidth*1	> 2 nm	> 8 nm*3	> 2 nm	> 3 nm
Average power	> 0.5 <u>mW</u>	> 80 <u>mW</u>	> 0.5 <u>mW</u>	> 10 <u>mW</u>
Pulse duration	1 - 5 <u>ps</u>	3 - 15 <u>ps</u>	1 - 5 <u>ps</u>	2 - 8 <u>ps</u>
Repetition rate	20 ± 3 MHz			
Required pump power*2	< 300 <u>mW</u>	< 600 <u>mW</u>	< 300 <u>mW</u>	< 600 <u>mW</u>
Optical connector	FC/APC*4			
Size	200 × 150 × 46 mm			

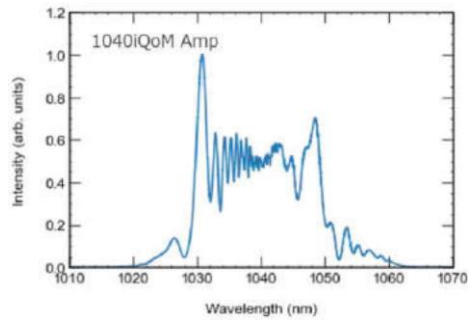
*1) 3dB bandwidth *2) Wavelength 976nm LD

*3) Fourier limited pulse <200fs *4) Custom optical connector

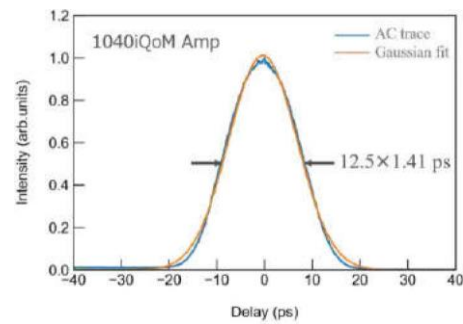
*Specifications are subject to change without notice.

Product Data

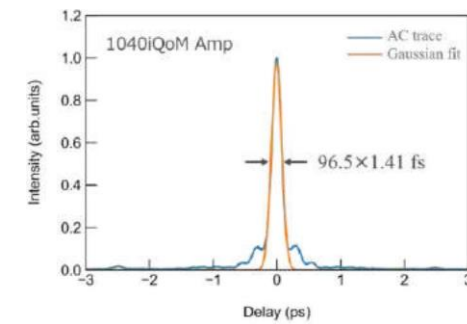
Spectrum



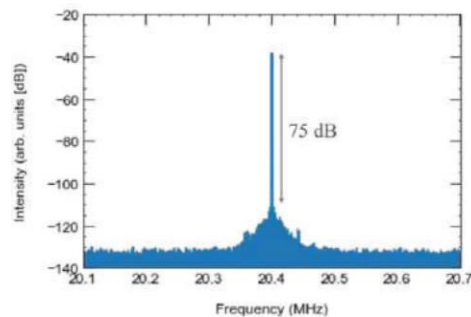
Pulse Characteristics



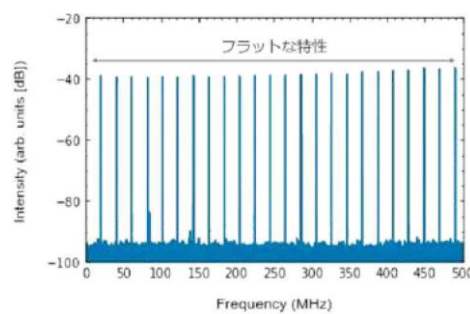
Pulse Compression(ex.)



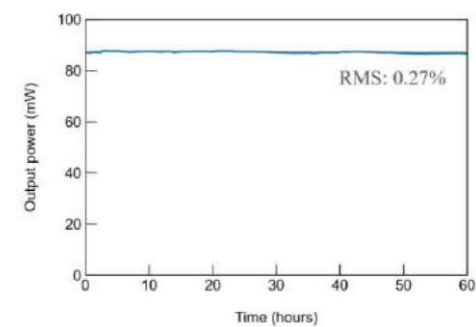
RF spectrum



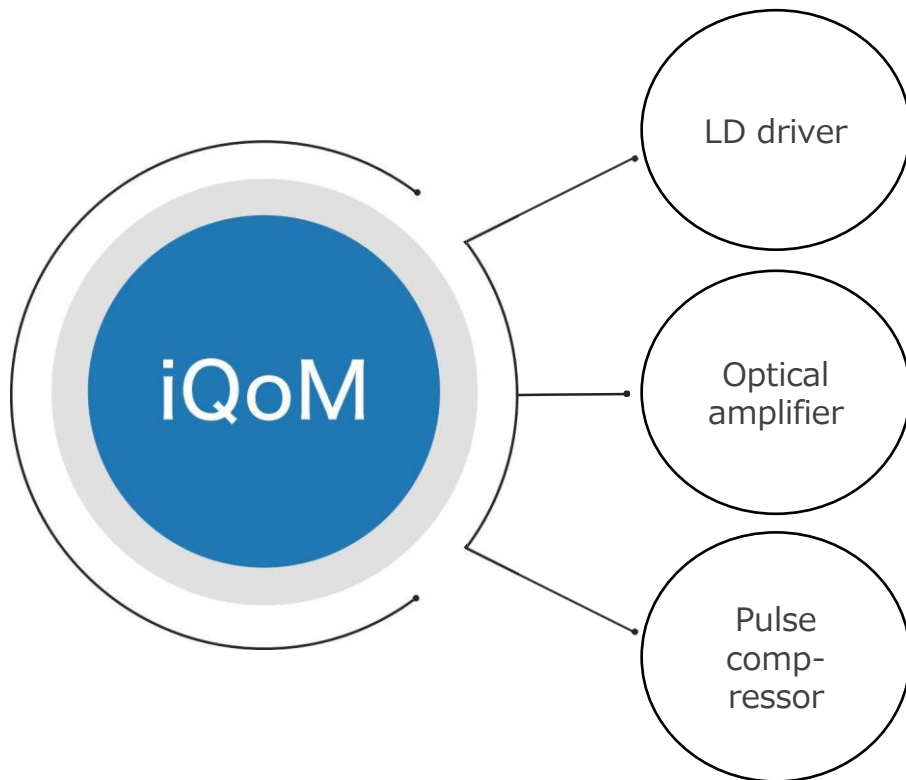
RF spectrum



Long-term stability



Module Configuration



OEM and equipment integration

We can provide the best module configuration for your application, such as high intensity or short pulse.

We are the only manufacturer of ultrafast fiber lasers in Japan.

And also a trading company that handles a wide variety of related products.

Achievements

Awards

4



LSJ

The Laser Society of Japan



公益社団法人

応用物理学会

Papers,
Presentations

22

**SPIE. PHOTONICS
WEST**

OSA Laser Congress

COLLOCATED MEETINGS

Advanced Solid State Lasers Conference
Application of Lasers for Sensing & Free-Space Communication
Laser Applications Conference

Government
subsidy

Bioimaging
Application



Government
subsidy

Laser Processing
Application

公益財団法人
市村清新技术財団

Technical Department Members

Ultrafast Fiber Laser Team



Ryosuke Nakamura

Ph.D. in Science

- Ultrashort pulsed lasers
- Spectroscopy
- Microscopic Imaging



Masanori Nishiura

Ph.D. in Engineering

- Ultrashort pulsed lasers
- Optical Frequency Comb
- Optical tomography



Fumiya Kusa

Ph.D. in Engineering

- Ultrafast Spectroscopy
- Plasmonics
- Semiconductor inspection systems (visible light to EUV)



Ryo Kageyama

Master of Engineering

- Ultrashort pulsed lasers
- Thin Disk Lasers
- Laser processing
- Optical measurement

COMPANY PROFILE



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Business Import, export and sales of superior domestic and foreign optoelectronic products, including laser-related, optical communication-related, semiconductor-related, RF-related and bio-related products.

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Capital 10,000,000 yen

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