

sevensix

# iQoM

9,999 USD



## Ultrafast fiber laser

For more Info:



Email:  
Phone:

[info@sevensix.co.jp](mailto:info@sevensix.co.jp)  
+81-3-6721-1077

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

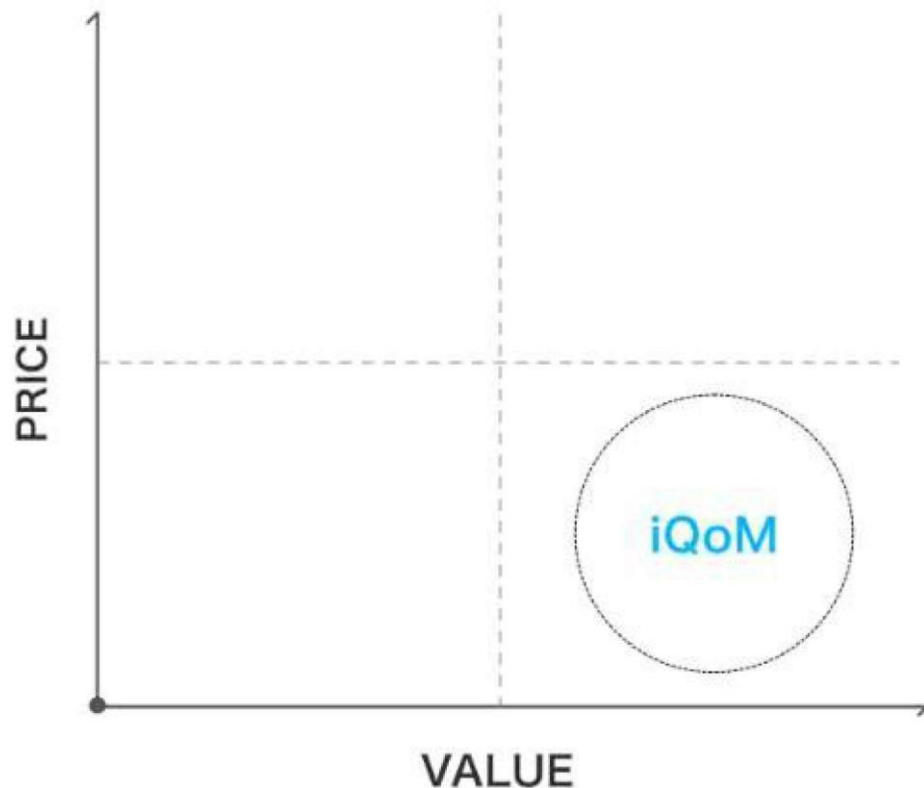
✓ Ultrafast Spectroscopy

✓ Multiphoton Microscopy

# Low-cost & Immediate delivery

---

The iQoM series is ideal for OEM production and R&D.



Point

- ▶ Electronics-free
- ▶ High-quality and standard fiber components
- ▶ In stock

# Excellent stability

---

The iQoM series is ideal for industrial use in factories and for long-term imaging of biological samples.

## Point

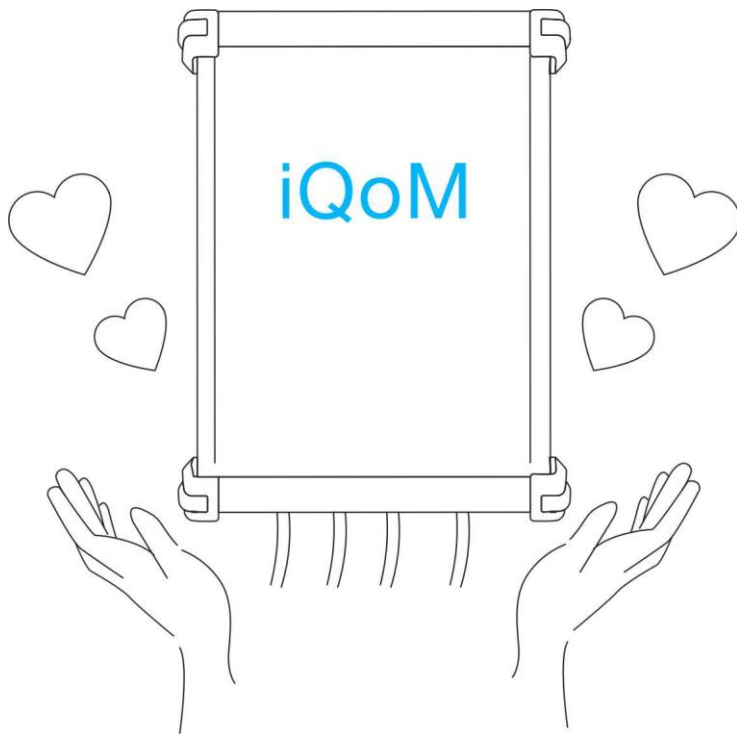
- ▶ All polarization-maintaining fiber
- ▶ Reliable self-starting mode locking (Patent pending)



# Long life

---

The absence of a semiconductor saturable absorber mirror (SESAM) configuration results in long lifetime and high reliability.

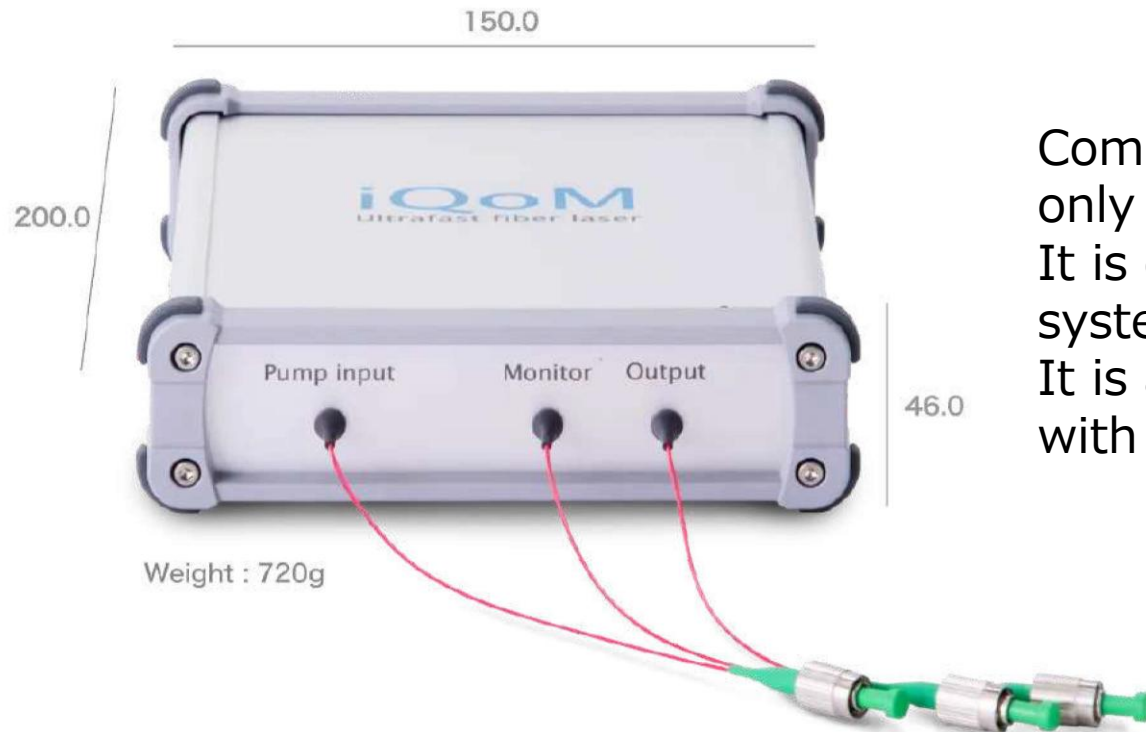


## Point

- ▶ No deterioration over time
- ▶ Slight difference in characteristics

# Easy to integrate, replace and expand specifications

---



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.

# Specifications

	IQOM-1040-OSC	IQOM-1040-AMP	IQOM-1064-OSC	IQOM-1064-AMP
Center wavelength	1040 $\pm$ 3 nm		1064 $\pm$ 3 nm	
Spectral bandwidth (min.) <sup>*1</sup>	2 nm	8 nm <sup>*3</sup>	2 nm	3 nm
Pulse width	1 - 5 ps	3 - 12 ps	1 - 5 ps	2 - 8 ps
Average output power (min.)	0.5 mW	80 mW	0.5 mW	10 mW
LD input power (max.) <sup>*2</sup>	300 mW	600 mW	300 mW	600 mW
Pulse repetition rate	20 $\pm$ 3 MHz			
Polarization	Linear			
Fiber connectors	FC/APC <sup>*4</sup>			
Operating temperature	15 – 30°C			
Size	200 × 150 × 46 mm			

\*1) 3dB bandwidth

\*2) PMF pigtailed FBG-stabilized 976 nm LD

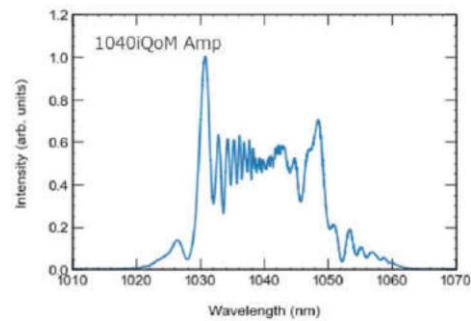
\*3) Transform-limited < 200 fs

\*4) The PMF and connector keys are aligned to the slow axis

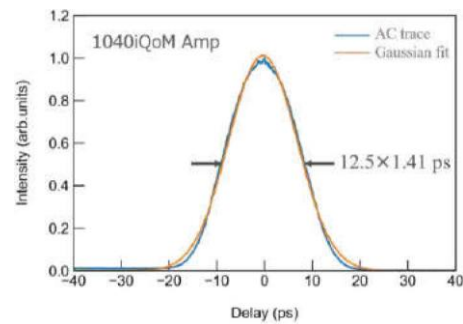
Specifications subject to change without notice.

# Characteristics

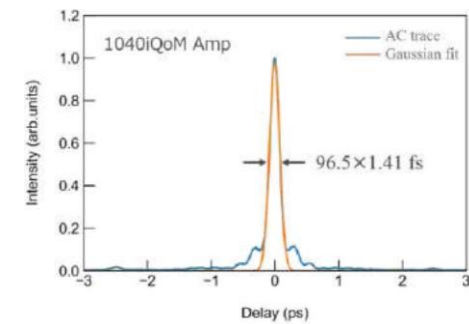
Spectrum



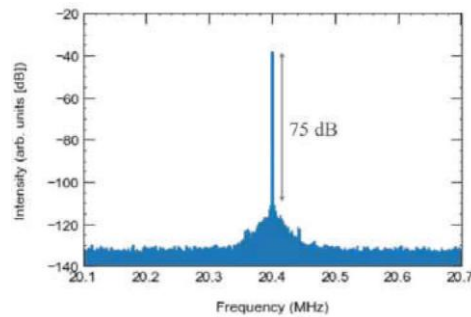
Pulse Characteristics



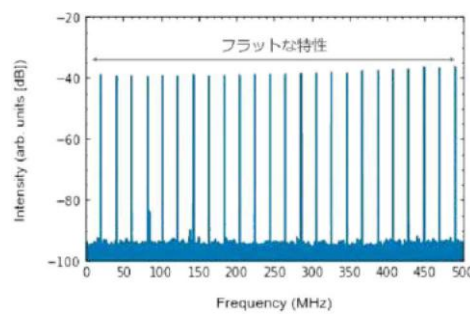
Pulse Compression(ex.)



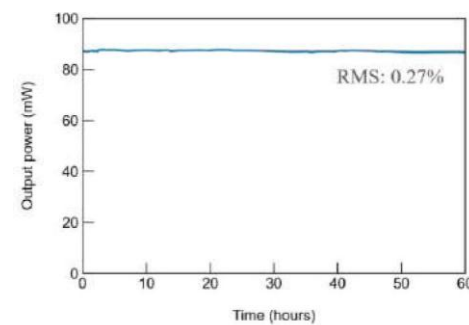
RF spectrum



RF spectrum



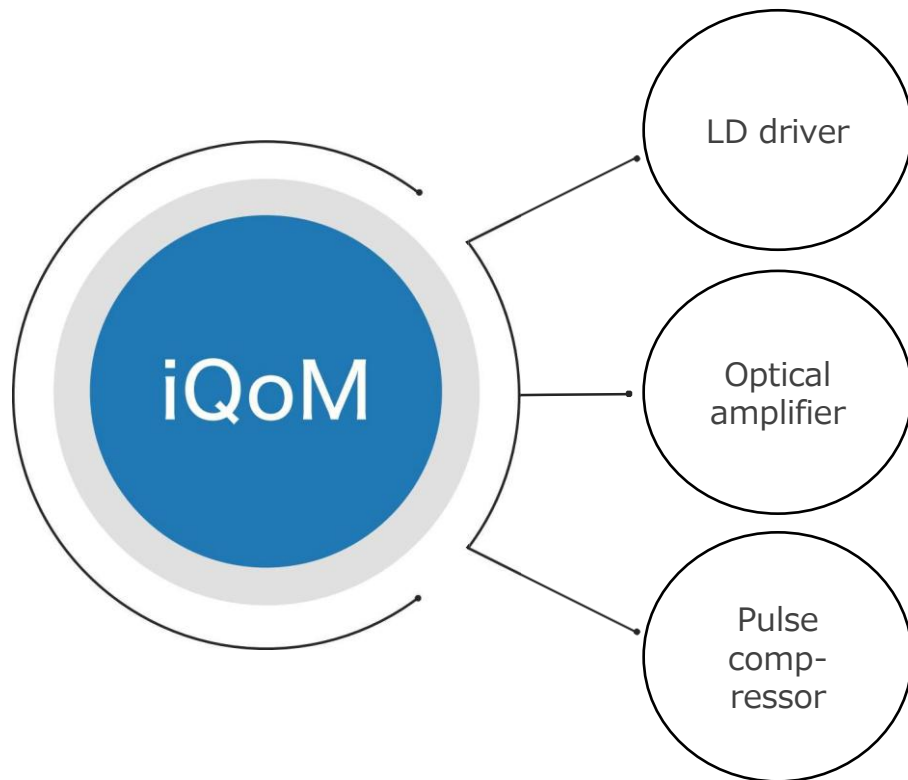
Long-term stability





# For modular design

---



iQoM series is the best solution for building ultrashort pulsed lasers in a modular design.

Your familiar and reliable pump LDs, electrical circuits, amplifiers, and pulse compressors will be compatible with iQoM.

# Achievements

---

Awards

---

4



Papers,  
Presentations

---

22



Grants

---

Bioimaging  
Application



Grants

---

Laser Processing  
Application



# Ultrashort pulse laser team

---



Ryosuke Nakamura

Ph.D. in Science

- Ultrashort pulse lasers
- Spectroscopy
- Microscopic imaging



Masanori Nishiura

Ph.D. in Engineering

- Ultrashort pulse lasers
- Optical frequency comb
- Optical coherence tomography



Fumiya Kusa

Ph.D. in Engineering

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

# Company profile

---



---

Name	Sevensix Inc.
------	---------------

---

CEO	Yosuke Hane
-----	-------------

---

Founded	2007
---------	------

---

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.
----------	--

---

Headquarter	Roppongi Hills Mori Tower 17F, 6-10-1 Roppongi, Minato-ku, Tokyo 106-6117
-------------	---

---

TEL	+81-3-6721-1077
-----	-----------------

---

FAX	+81-3-6721-1078
-----	-----------------

---

URL	<a href="https://www.sevensix.co.jp/">https://www.sevensix.co.jp/</a>
-----	---

---

# Contact information

---



[info@sevensix.co.jp](mailto:info@sevensix.co.jp)



<https://www.sevensix.co.jp/>:



+81-3-6721-1077



Roppongi Hills Mori Tower 17F,  
6-10-1 Roppongi, Minato-ku,  
Tokyo 106-6117