

sevensix

iQoM

9,999 USD



Ultrafast fiber laser

For more Info:



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# APPLICATIONS



Laser processing

✓ Microfabrication

✓ THz radiation



Device Inspection

✓ Two-photon polymerization

✓ SC generation



Communication

✓ OCT

✓ STED



5G / 6G

✓ Wafer defect inspection

✓ Ultrafast Spectroscopy



Material Analysis

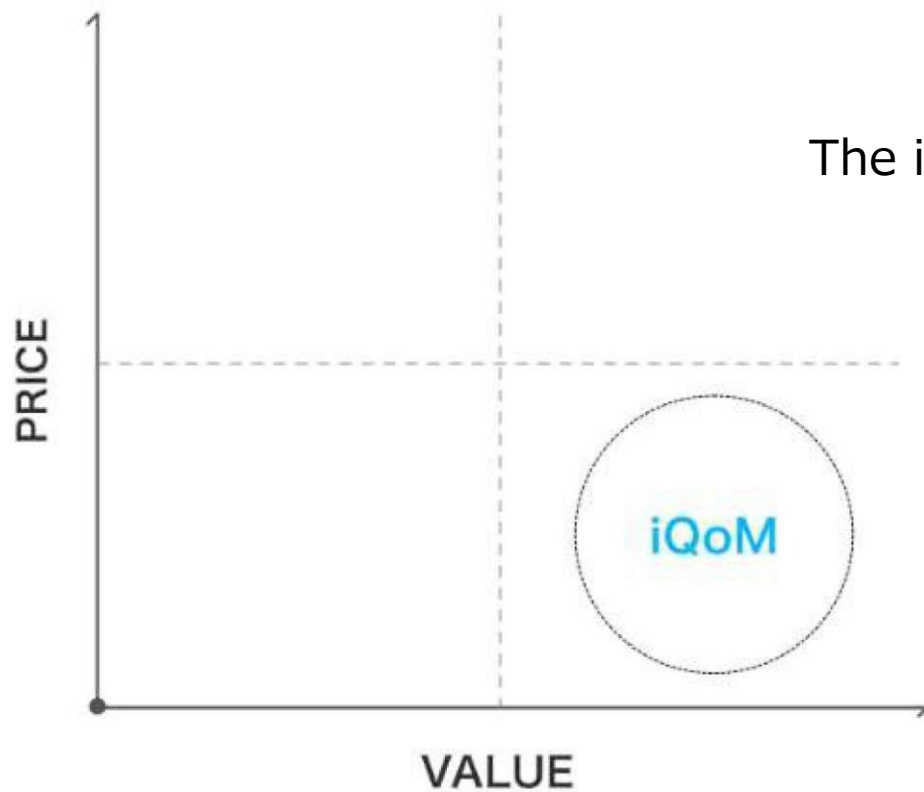


Bioimaging

✓ Quantum measurement

✓ Multiphoton Microscopy

# Low-cost & Immediate delivery



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

Point

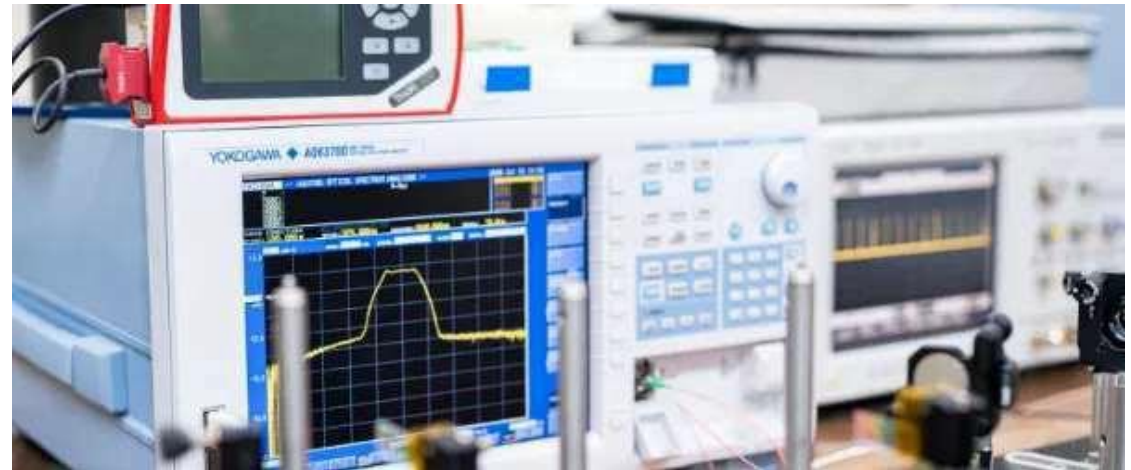
- ▶ Electronics-free
- ▶ High-quality and standard fiber components
- ▶ In stock

# Excellent stability

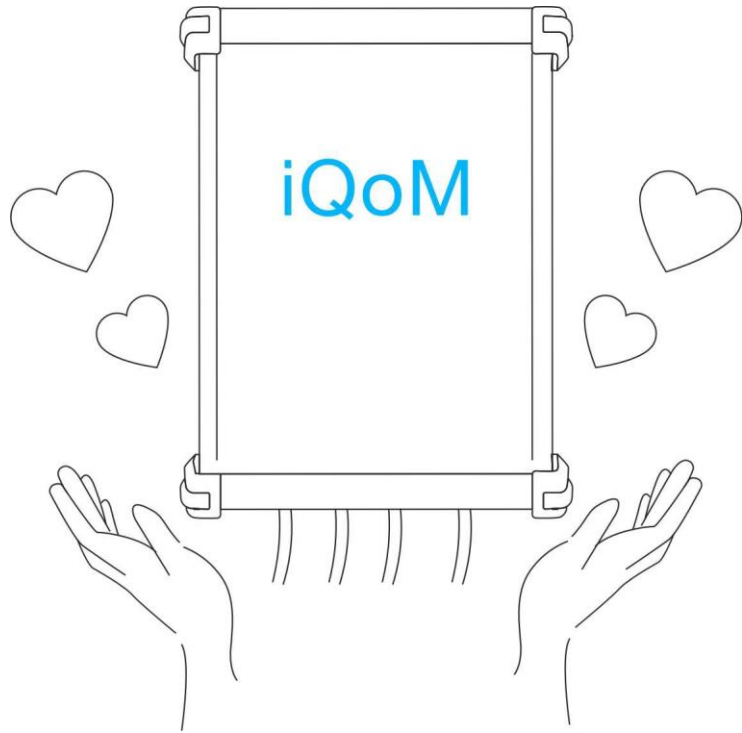
The iQoM series is ideal for industrial use in factories and for long-term imaging of biological samples.

## Point

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



# Long life

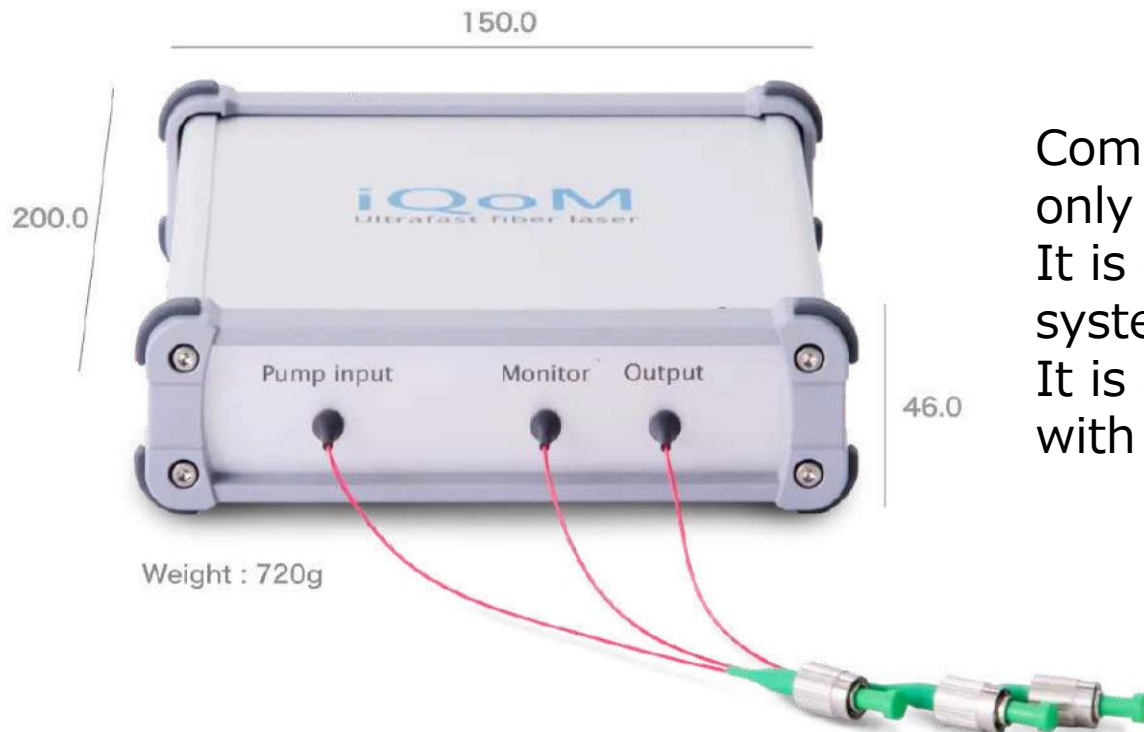


The absence of a semiconductor saturable absorber mirror (SESAM) configuration results in long lifetime and high reliability.

## 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 ± 3 nm		1064 ± 3 nm	
Spectral bandwidth (min.) *1	2 nm	8 nm *3	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.) *2	300 mW	600 mW	300 mW	600 mW
Pulse repetition rate	20 ± 3 MHz			
Polarization	Linear			
Fiber connectors	FC/APC *4			
Operating temperature	15 – 30°C			
Size	200 × 150 × 46 mm			

\*1) 3dB bandwidth

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

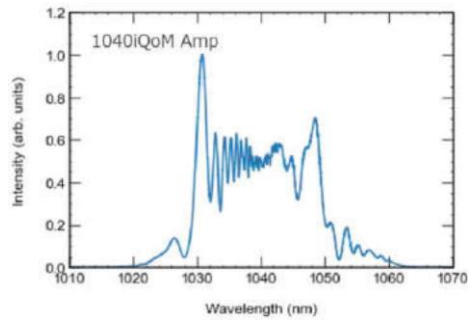
\*3) Transform-limited < 200 fs

\*4) Custom optical fiber connectors available upon request

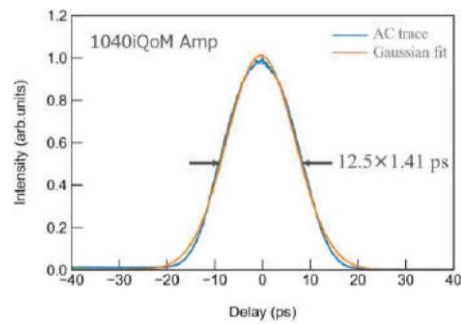
Specifications subject to change without notice.

# Characteristics

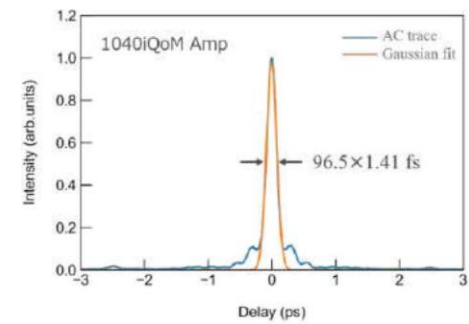
Spectrum



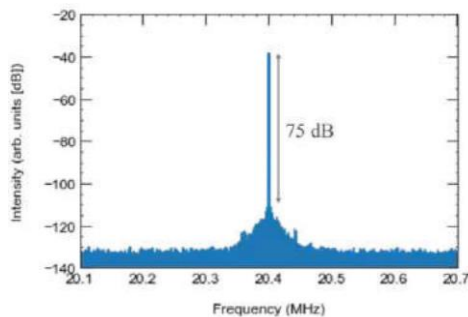
Pulse Characteristics



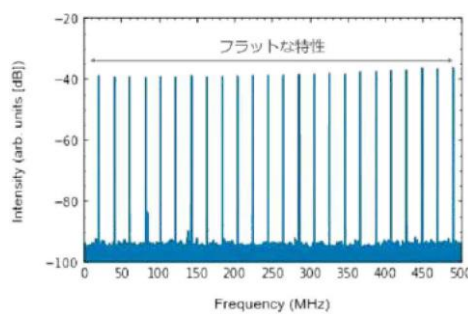
Pulse Compression(ex.)



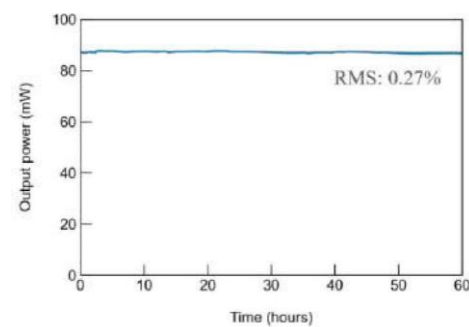
RF spectrum



RF spectrum



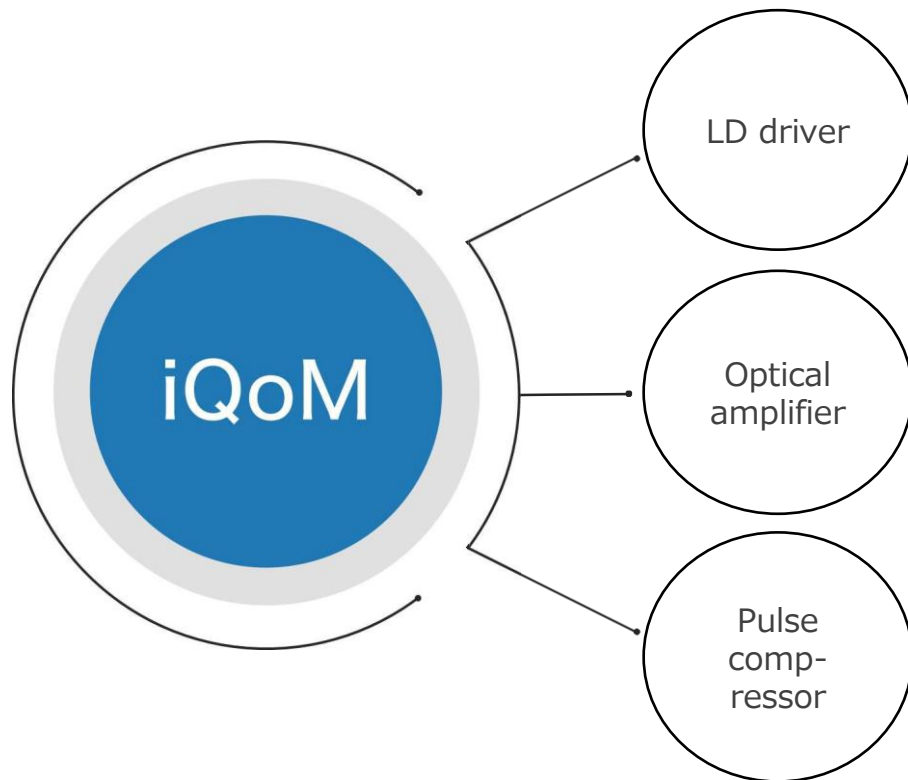
Long-term stability





# For modular design

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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

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Awards

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**LSJ**

The Laser Society of Japan



公益社団法人

応用物理学会

Papers,  
Presentations

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**SPIE. PHOTONICS  
WEST**

**OSA Laser Congress**

COLLOCATED MEETINGS

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

Grants

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Bioimaging  
Application



Grants

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Laser Processing  
Application

公益財団法人  
市村清新技术財団

# Ultrashort pulse laser team

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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)



Ryo Kageyama

Master of Engineering

- Ultrashort pulse lasers
- Thin disk lasers
- Laser processing
- Optical measurement

# Company profile

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Name Sevensix Inc.

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CEO Yosuke Hane

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Founded 2007

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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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# Contact information

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