

# VINCI-1064

## Ultrafast Fiber Laser

# PRODUCT DATASHEET



## DESCRIPTION

TeraXion VINCI series of ultrafast fiber lasers feature a unique combination of very short pulse duration (50 fs typical) and high peak power approaching 1 MW. VINCI-1064 is built from TeraXion two decades of expertise in ultrafast fiber laser components.

## ADVANTAGES

- Low-cost Oscillator Design
- High Peak Power
- Short Pulse Duration (50fs typ.)
- 40 MHz Repetition Rate
- Robust SESAM-free All-fiber Architecture
- Detachable Umbilical Cable

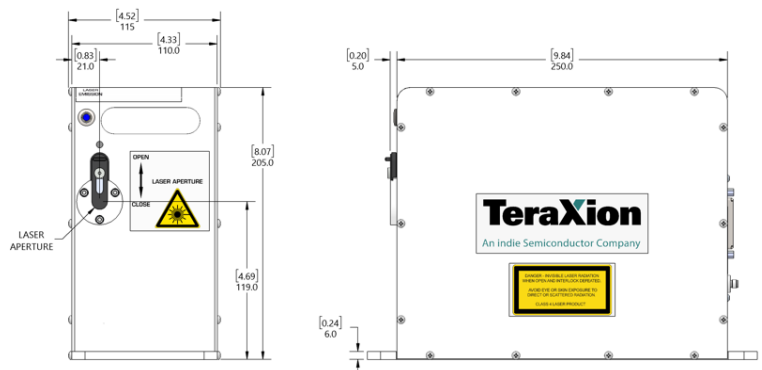
## APPLICATIONS

- THz Generation
- Multiphoton Microscopy
- Two-Photon Polymerization

## SPECIFICATIONS

Specifications	Units	Value
<b>Optical</b>		
Wavelength	nm	1064
Pulse Energy	nJ	> 50
Repetition Rate	MHz	40
Pulse Duration	fs	< 60 (50 typ.)
Average Power	W	> 2
Average Power Stability	% RMS	< ± 1
Beam Quality (M2)		< 1.2
Polarization		Linear
Polarization Extinction Ratio (PER)	dB	> 20
Tunable dispersion pre-compensation	fs <sup>2</sup>	-25000 to 0
Warm-up time	minutes	< 2
<b>Mechanical and Environmental</b>		
Control Head Dimensions	l	< 6
Control Unit Dimensions		19" 2U rackmount
Operating Temperature	°C	15 - 35
Storage Temperature	°C	0 - 40
Operating Humidity (non condensing)	%, relative	10 - 80
<b>Electrical and Control Interfaces</b>		
Voltage Requirement		100-240VAC, 50-60Hz
Power Consumption	W	< 75
Control Interface		USB
SYNC Output		SMA Connector

## DIMENSIONS



FOR MORE INFORMATION :



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**WARNING - INVISIBLE LASER RADIATION**  
 AVOID EYE OR SKIN EXPOSURE TO  
 DIRECT OR SCATTERED RADIATION.  
 CLASS 4 LASER PRODUCT  
 MAX OUTPUT 2.5 W  
 WAVELENGTH 1000-1140nm  
 PULSE DURATION < 60 fs

COMPLIES WITH 21 CFR 1040.10 AND 1040.11  
 EXCEPT FOR CONFORMANCE WITH IEC 60825-1 ED. 3  
 AS DESCRIBED IN LASER NOTICE NO. 56.  
 DATED MAY 8, 2019