Preliminary

Koheras HARMONIK

Frequency doubled, high power, low noise single frequency fiber Laser

- >2.5W at 780nm
- Sub kHz linewidth
- Ultra low frequency and intensity noise
- Wide wavelength tunability
- Excellent beam quality
- PM fiber delivery
- Robust, maintenance free fiber laser system and SHG module
- Simple user operation
- Temperature stabilized

The Koheras HARMONIK is a maintenance-free frequency doubled, single frequency fiber laser with a unique combination of narrow linewidth, excellent beam quality and high output power.

The turn-key 19" rack system includes control electronics and power supply, and is ideal for laboratory work and experimental research.

Model	Standard Wavelength	Output power	PM fiber delivery	RIN	Linewidth	Fast modulation
E7	780 nm	1, 2 or 3W*	Optional	Low	<1kHz	Yes
C7	780 nm	1, 2 or 3W*	Optional	Ultra low	<50kHz	Yes

* Higher powers available upon request

Applications

- Quantum sensing
- Laser cooling and trapping
- Cold atom research
- Optical clocks
- High precision spectroscopy
- OPO pumping

The Koheras HARMONIK offers high power frequency doubling to our popular low noise Koheras fiber lasers. The HARMONIK delivers high power with low noise and excellent beam quality for cutting edge quantum physics projects. Standard powers are 1W, 2W and 3W and if that isn't enough, please ask about our custom power levels.

The HARMONIK comes in two noise flavours; The C7 and E7. If RIN is the most critical parameter for your experiment consider the C7 with exceptional RIN and if phase noise and linewidth are the most critical, consider the E7 with sub kHz linewidth.

The HARMONIK comes with free space output as default and with the option of efficient fiber coupling to our unique PM single mode PCF platform for unprecedented high power single mode fiber delivery.