Ycomb: Ytterbium Fiber Comb

Power scalable, ultra-low noise

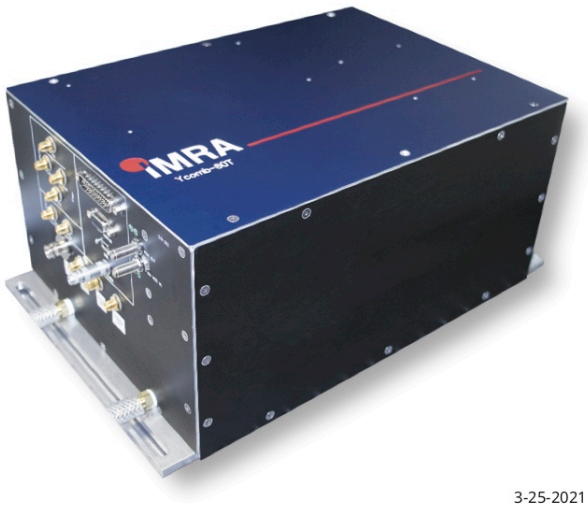
IMRA America offers a frequency comb for easy integration into power hungry applications. The comb features an all-fiber based platform with modulator design, allowing for straight-forward addition of high power amplifiers. It provides ultra-low phase noise and a high level of frequency stability.

Features

- 100 MHz repetition rate
- 200 kHz repetition rate tuning range
- PM fiber-coupled output
- Integrated f_{ceo} detection
- High coherence 650 - 1400 nm continuum
- Vibration and temperature insensitive
- Compatible with IMRA ULC locking electronics
- In-field replaceable pump diodes
- Remote operation via ethernet

Available Extensions

- 100 W Yb comb
- Clock wavelengths selectable from 650 - 1400 nm



IMRA
The Femtosecond Fiber Laser Company

Ycomb-100T Specifications	
Repetition Rate	100 ± 0.5 MHz
Tuning Range	> ± 100 kHz
F_{rep} Control Bandwidth	> 100 kHz
Free-running f_{ceo} SN	> 30 - 35 dB at 100 kHz resolution
Supercontinuum Output	650 - 1400 nm
Outputs via PM FC/APC-coupled Fiber	2.0 meter
Power per Port	> 1 mW
High Power Option 1	> 700 mW with sub 100 fs
High Power Option 2	> 10 W with sub 100 fs
High Power Option 3	> 100 W with sub 200 fs
Center Wavelength per Port	1050 ± 20 nm
Spectral Width per Port	> 10 nm
Monitor Port Power	> 1 mW
System Size	370 x 468 x 160 mm (base comb), size varies vs power
Storage Temperature	-20 °C to +50 °C
Warm-up Time	< 2 hours
Operational Temperature	-20 °C to +50 °C
Power Consumption	< 100 W
Interlock	via Limo connector
Laser On/Off	Via PC

Compatible with IMRA's
Universal Locking Electronics (pictured)

Product Features

- Up to 6 PM fiber-coupled outputs
- Different repeptition rates in range 25 - 125 MHz available
- > 300 kHz f_{ceo} control bandwidth availabe, upon request

IMRA

*Yb-fiber comb is currently not certified to the Laser Product Performance Standard from the U.S. FDA/Center for Devices and Radiological Health (CDRH). U.S. federal regulations require that lasers that are not certfiied to the CDRH standard be sold only to manufacturers of electronic products for use as components in such products.

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