

SETIA - Multi-Wavelength Fiber-Coupled Light Engine

Features

- High-power multi-wavelength output from the same SMA connector
- Individually-addressable wavelength channels
- Detachable fiber, various core diameter options
- Conduction cooled package, designed for use with external TEC
- Built-in thermistor
- Red or green pointing beam
- Power monitor photodiode
- Optical fiber sensor



Benefits

AKELA's multiwavelength modules open a new frontier in inexpensive **solid-state light engines for fluorescence microscopy**. Compact package (50x80x16 mm³) hosts up to six individually addressable different-wavelength high-power channels.

Power levels per channel for multi-wavelength modules

Violet 395nm 50mW

Blue 440nm 50mW

Cyan 470nm 100mW

Green 510nm 100mW

Red 640nm 300mW

Infra-red 730nm 100mW

Examples of wavelength combinations

One wavelength

450nm / 15W
808nm / 50W
980nm / 70W
1060 nm / 100 W
1470 nm / 25 W
1720 nm / 6 W

Two wavelengths

810 nm / 18 W + 940 nm / 30 W
1060 nm / 20 W + 1470 nm / 15 W
1470 nm / 4 W + 1720 nm / 6 W

Three wavelengths

405 nm / 0.2 W + 520 nm / 2 W + 638 nm / 1.0 W
660 nm / 1 W + 810 nm / 10 W + 1060 nm / 10 W
810 nm / 10 W + 980 nm / 10 W + 1370 nm / 12 W
1060 nm / 10 W + 1210 nm / 8 W + 1470 nm / 15 W

Four wavelengths

405 nm / 0.2 W + 488 nm / 0.6 W + 520 nm / 0.8 W + 638 nm / 1.0 W
635 nm / 1 W + 810 nm / 10 W + 915 nm / 10 W + 1060 nm / 10 W
690 nm / 0.25 W + 810 nm / 10 W + 1210 nm / 8 W + 1470 nm / 4 W
940 nm / 10 W + 1060 nm / 8 W + 1210 nm / 8 W + 1470 nm / 8 W

Five wavelengths

395 nm / 0.1 W + 440 nm / 0.1 W + 470 nm / 0.8 W + 520 nm / 0.8 W + 638 nm / 1.0 W
450 nm / 3 W + 650 nm / 1 W + 810 nm / 10 W + 980 nm / 10 W + 1064 nm / 10 W
450 nm / 3 W + 520 nm / 1 W + 635 nm / 0.5 W + 810 nm / 10 W + 980 nm / 10 W
650 nm / 1 W + 810 nm / 10 W + 980 nm / 10 W + 1064 nm / 10 W + 1470 nm / 4 W
650 nm / 1 W + 810 nm / 10 W + 1064 nm / 10 W + 1320 nm / 4 W + 1470 nm / 4 W
650 nm / 1 W + 1320 nm / 4 W + 1470 nm / 4 W + 1550 nm / 4 W + 1720 nm / 1.5 W

[Other wavelengths / wavelength combinations available upon request. Please contact us:](#)

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