

MM fiber output nano-second pulsed LED unit : FOLS-10



FOLS-10 is a palm top size pulsed LED unit including MM output fiber, LED chip, driving circuit and power supply.

FOLS-10 generates high speed optical pulse ($T_r=25\text{ns}$) with external TTL trigger. Pulse width depends on trigger pulse width.

Any color of white, UV, RGB and IR is selectable with fringe-free and speckle-free emission.

Output fiber of 600 μm core or 200 μm core is selectable.

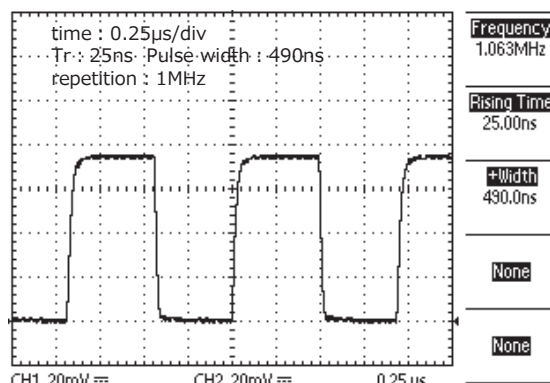
FEATURE

- Easy handling with fiber output
- High speed pulse emission with $T_r=25\text{ns}$
- Palm top size
- Color: UV, RGB, IR
- Fringe-free and speckle-free emission
- Excellent power stability

APPLICATIONS

- Exciting source for fluorescence experiment
- Fringe-free and speckle-free optical measurement
- Lock-in measurement
- Pulse response measurement of photo-detector

PULSE EMISSION



SPECIFICATIONS

color	white	UV	violet	blue	green	yellow	amber	red	deep-red	IR
peak wavelength(nm)	---	365,385	405	449,465,503	520	597	624	640,660	760,780,810	860,950
spectral torelance(nm)	---	± 20								
spectral width(nm)	---	10	20	25	33	18	18	18	25	30
rise time/pulse width	rise time : 25ns, pulse width : min 50ns									
peak power(mW)(600 μm core)	5	5	5	5	3	3	5	5	2	5
peak power(mW)(200 μm core)	0.5	0.5	0.5	0.5	0.3	0.3	0.5	0.5	0.2	0.5
fiber	quartz 600 μm core or 200 μm core NA0.48 length~1m FC connector output									
trigger input	TTL input(active high) max rate~10MHz									
power supply / dimension	AC100-240V 50/60Hz 0.2A 40(W)x24(H)x60(D)mm/ 70g									

Fiber output nano-second pulsed LD source : FOLS-11



FOLS-11 is a fiber output pulsed LD source including output fiber, LD chip, driving circuit and power supply.

FOLS-11 generates high speed optical pulse ($T_r\sim 5\text{ns}$ and max $> 30\text{MHz}$ repetition) with external TTL trigger. Pulse width depends on trigger pulse width.

375nm ~ 1620nm wavelength region can be selected for each application.

LD module inside is temperature stabilized for stable power and wavelength emission.

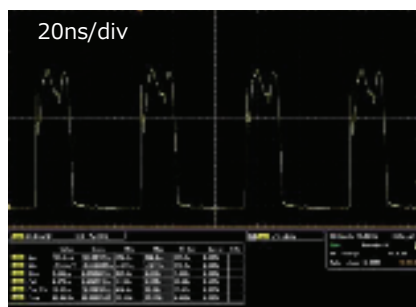
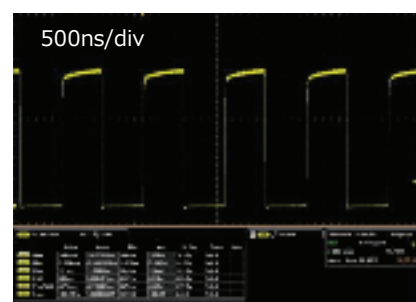
FEATURE

- Easy handling with fiber output
- Pulse emission with external TTL trigger
- High speed $T_r=5\text{ns}$, $> 30\text{MHz}$ repetition
- Wavelength region 375nm~1620nm
- Excellent power and wavelength stability

APPLICATIONS

- Exciting source for fluorescence experiment
- Lock-in measurement
- Digital pattern emission
- Spectral analysis
- Pulse response evaluation of photo-detector

PULSE EMISSION



SPECIFICATIONS

wavelength region	UV	blue	green	red	NIR	IR
peak wavelength(nm)	375	405,450, 473,488	520	640,660	785,808, 850,980, 1060	1310,1550, 1620
wavelength torelance(nm)	± 10					
max peak power	$> 1\text{mW}$ (depending on LD and fiber)					
fiber	SM fiber or SI100 MM fiber, length~1m, FC connector output					
T_r	$\sim 5\text{ns}$					
trigger input	TTL (active high), max rate 30MHz					
power supply / dimension	AC100-240V 50/60Hz 0.3A / 75(W)x30(H)x105(D) mm/250g					

