

Fiber output pico-second pulsed LD source : FOLS-12

FOLS-12 is a fiber output pulsed LD source including output fiber, LD chip, driving circuit and power supply.

FOLS-12 generates high speed optical pulse (pulse width 500ps fixed and max > 50MHz repetition) with external TTL trigger.

375nm ~ 620nm 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
- Optical pulse width ~ 500ps fixed, 50MHz repetition
- Wavelength region 375nm ~ 1620nm
- Excellent power and wavelength stability

APPLICATIONS

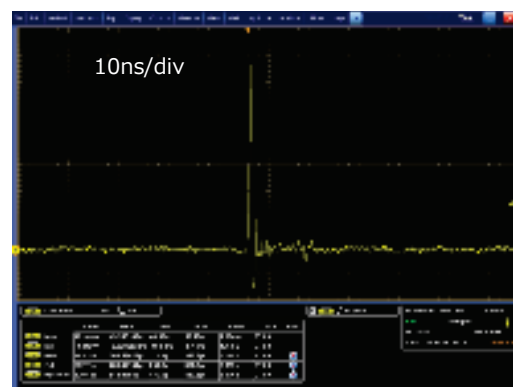
- Exciting source for fluorescence experiment
- Lock-in measurement
- Impulse response measurement of PMT and PD

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, 1620,1770
wavelength tolerance(nm)	±10					
max peak power	> 1mW (depending on LD and fiber)					
fiber	SM fiber or SI100 MM fiber, length ~ 1m, FC connector output					
pulse width	~ 500ps fixed					
Trigger input	TTL (active high), max 50MHz min pulse width > 10ns					
power supply / dimension	AC100-240V 50/60Hz 0.3A / 75(W)x30(H)x105(D)mm / 250g					



PULSE WAVEFORM



ACCESSORIES



FC connector coupled collimator lens

- Wavelength : 350~700nm, 650~1050nm, 1050~1620nm
- Beam waist diameter : ~1mm (SM fiber coupled)
- Beam divergence : 0.04°~0.13° (SM fiber coupled)
- focusing dial included



Monitor photodiode

- Input : FC connector
- Output : 50Ω BNC connector
- Sensitive wavelength : 320nm~1100nm(Si), 900nm~1700nm(InGaAs)
- Tr : < 2ns
- Power supply : 9V battery included



10MHz pulse generator unit : PGU-10M

- Repetition rate : 3 range (10kHz~100kHz, 100kHz~1MHz, 1MHz~10MHz)
- Output : 5V square, Duty 50%(fixed)
- Power supply : +6V AC adapter included



50MHz pulse generator unit : PGU-50M

- Repetition rate :
 - continuous : 1kHz~10kHz, 10kHz~100kHz, 100kHz~1MHz
 - fixed : 2MHz, 5MHz, 10MHz, 20MHz, 50MHz
- Output : 5V square, Duty 50%(fixed)
- Power supply : +6V AC adapter included



100kHz pulse generator unit : PGU-100k

- Repetition rate : 1Hz, 10Hz, 100Hz, 1kHz, 10kHz, 100kHz
- Output : 5V square, Duty 50% fixed
- Power supply : +6V AC adapter included