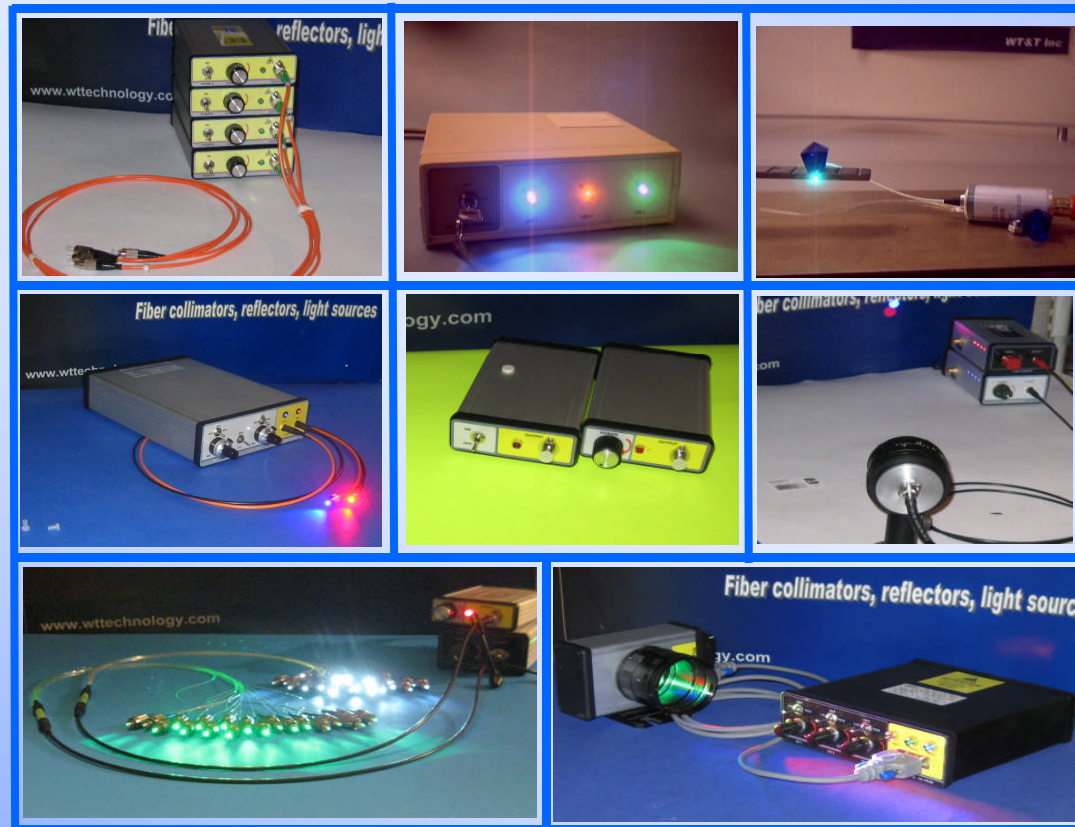


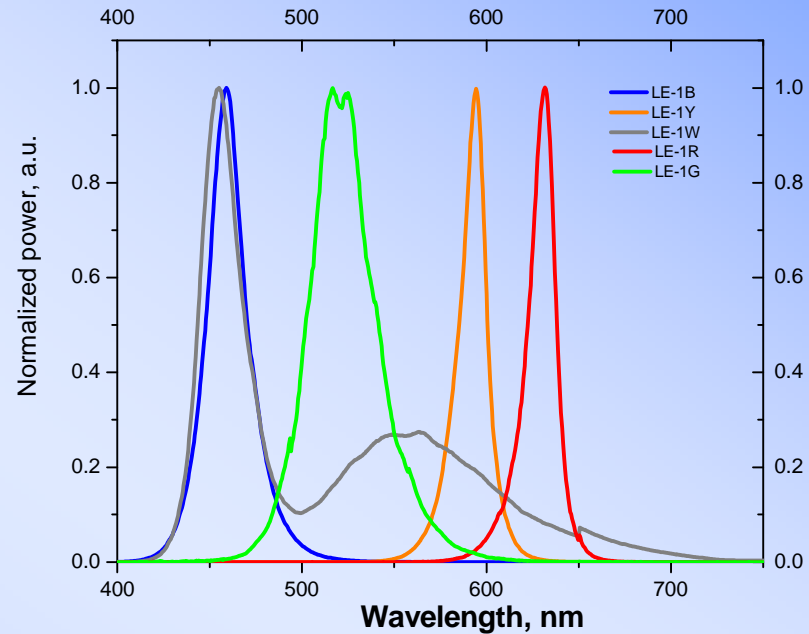
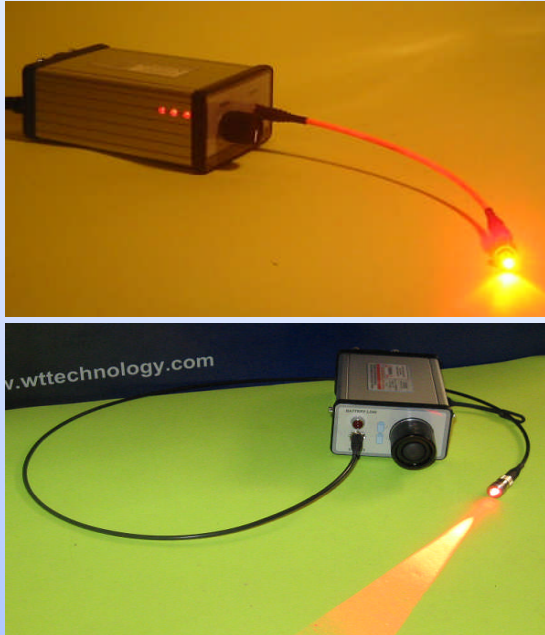
Overview of WT&T LED light sources (fiber-coupled and free-space)



WT&T Inc.

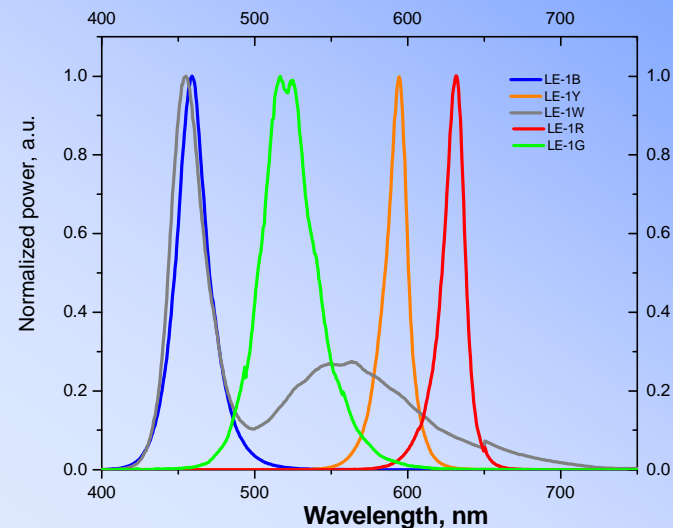
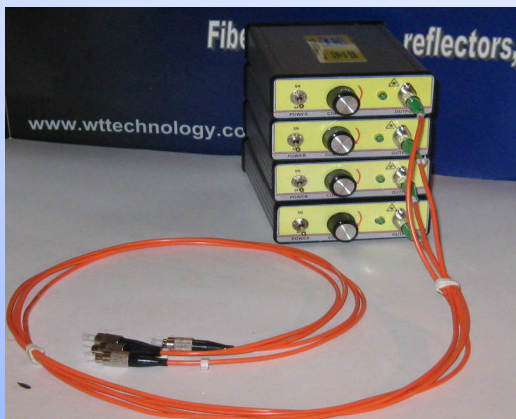
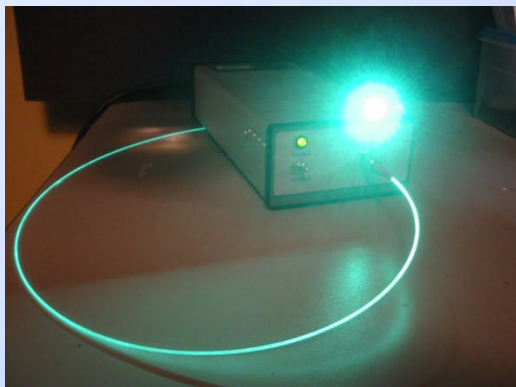
Contact: sales@wttechnology.com

Compact, high power, single channel fiber-coupled LED source



- Model:** LE-1x-C/CE (x- defines operating wavelength, or color)
Wavelengths: “white” (W), ~460 nm (B), 530 nm (G), ~585 nm (Y), ~630 nm (R)
Output power: 15- 50 mW (1 - 1.5 mm core size POF)
Output : FC/PC or SMA905 connectorized pigtail
Output fiber: 3 mm jacketed (core size: 0.98 mm POF)
Size: 160x80x50 mm
Built-in: driver (with power control), TTL “ON/OFF” control port, air-cooling, wall-plug power supply
Note: “Plug and play” device, easy to clean connector, optional analog modulation port.
Battery powered version is available on request

Medium power single channel fiber-coupled LED source



Model:

Wavelengths:

Output power:

Output :

Output fiber:

Size:

Built-in:

Note:

LE-01x (x- defines operating wavelength)

“white” (W), 460 nm (B), 530 nm (G), 585 nm (Y), 630 nm (R)

6-20 mW (1 mm core size POF)

receptacle or POF980 fiber pigtail.

FC/PC connectorized (core size: 1 mm, 0.5 mm,

160x80x50 mm / 230x105x55 mm

driver, active air-cooling

optional : power control, TTL “ON/OFF” control port

Multiple LED fiber-coupled light sources



Model: LE-1xx (2 channel LED source)
Wavelengths: “white” (W), 460 nm (B), 530 nm (G), 585 nm (Y), 630 nm (R)
Output power: up to 25 mW per channel
Modulation: DC / TTL “ON/OFF” control ports
Outputs: FC/PC connectorized pigtailed (POF980 , 3mm jacketed)
Size: 200x180x70 mm
Built-in: drivers, power controls, active air-cooling
Note: optional analog modulation ports (0 to ~1 MHz)

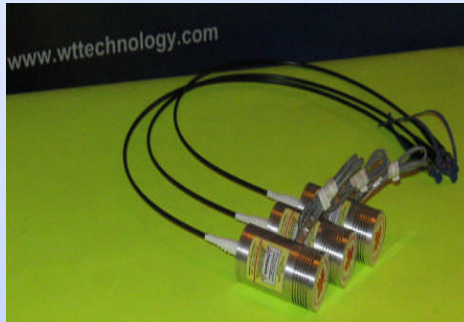


Model: LE-1xxx (3 channel LED source)
Wavelengths: “white” (W), 460 nm (B), 530 nm (G), 585 nm (Y), 630 nm (R)
Output power: up to 20 mW per channel
Modulation: DC / TTL “ON/OFF” control ports
Outputs: FC/PC connectorized POF 980 pigtailed or FC receptacles
Size: 200x180x70 mm
Built-in: drivers, power controls, active air-cooling
Note: optional analog modulation ports (0 to ~1 MHz)

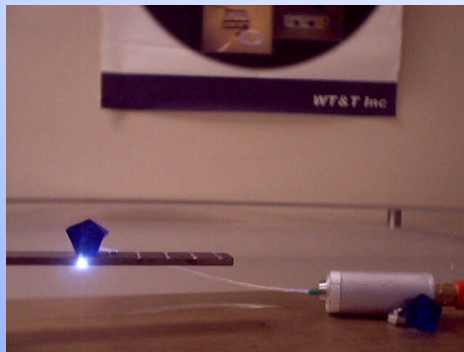
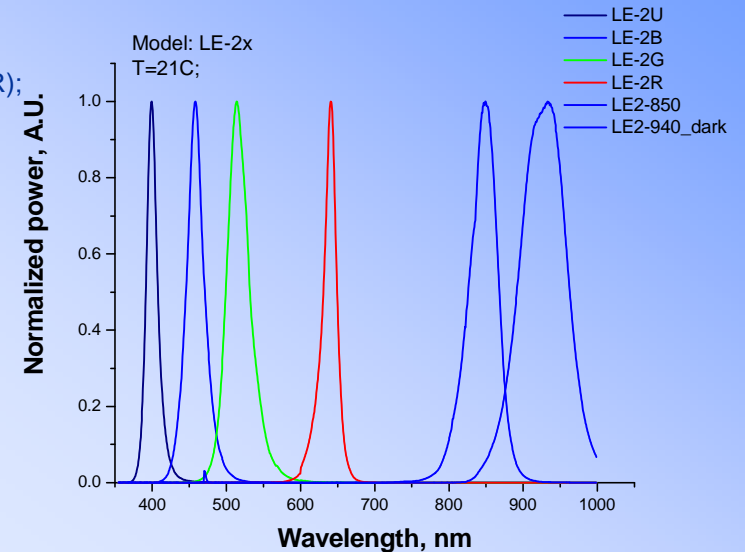


Model: LE-1xxxx (4 channel LED source)
Wavelengths: “white” (W), 460 nm (B), 530 nm (G), 585 nm (Y), 630 nm (R), Other
Output power: up to ~15-20 mW per channel
Modulation: DC / TTL “ON/OFF” control ports
Outputs: FC/PC receptacles (POF980 fiber; other fibers available)
Size: 200x180x70 mm
Built-in: drivers, power controls, active air-cooling
Note: optional analog modulation ports (0 to ~1 MHz)

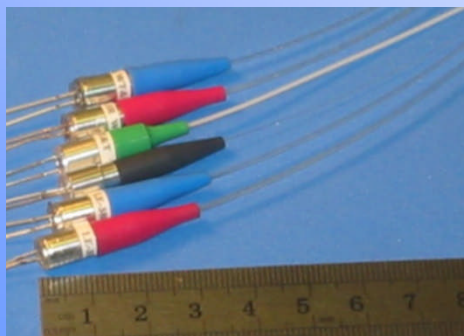
Multi-mode fiber-coupled LED (components)



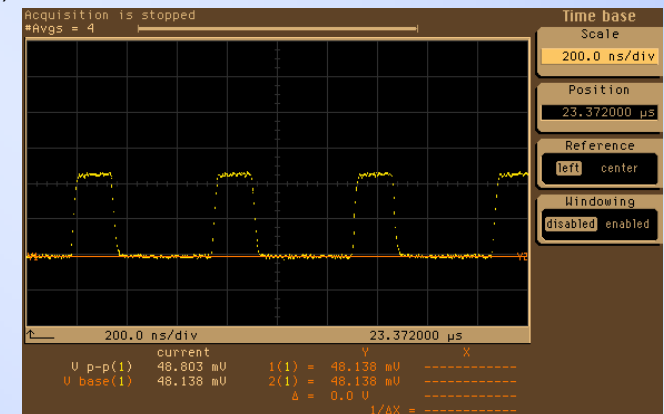
Model: LE-01x-OEM
Wavelengths: ~375 nm (UV1); ~405 nm (UV); ~460 nm (B);
 ~515-530 nm (G); ~590 nm (A); ~660 nm (R);
 ~830 nm (IR); ~940 nm (IR), "white" (W)
Output power: up to 20 mW
Output fiber: POF980, FC/PC or SMA 905 connector
 (other fibers/connectors are optional)
Modulation: up to ~60 MHz
Size: ~Ø 32 x 60 mm



Model: LE-02x (coaxial package LED)
Wavelengths: ~375 nm (UV1); ~405 nm (UV); ~460 nm (B);
 ~515-530 nm (G); ~590 nm (A); ~660 nm (R);
 ~830 nm (IR); ~940 nm (IR), "white" (W)
Output power: 0.01- 5 mW
Output fiber: POF980, FC/PC connector
 (other fibers/connectors are optional)
Modulation: up to 50 MHz (built-in impedance-matching circuit)
El. Conn.: RCA
Size: ~Ø 16 x 50 mm



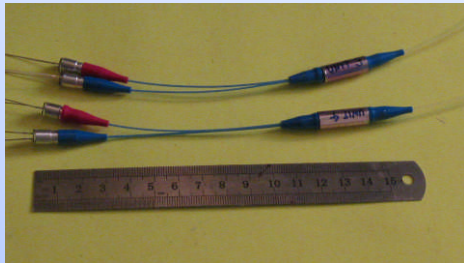
Model: LE-03x/ LE-03x-HP (PCB-mountable LED)
Wavelengths: ~375 nm (UV1); ~405 nm (UV); ~460 nm (B);
 ~515-530 nm (G); ~590 nm (A); ~660 nm (R);
 ~830 nm (IR); ~940 nm (IR), "white" (W)
Output power: 0.01- 1 mW (up to 3 mW for LE-03xHP)
Output fiber: POF980, FC/PC connector
 (other fibers/connectors are optional)
Modulation: up to ~60 MHz
Size: ~Ø 6 x 35 mm



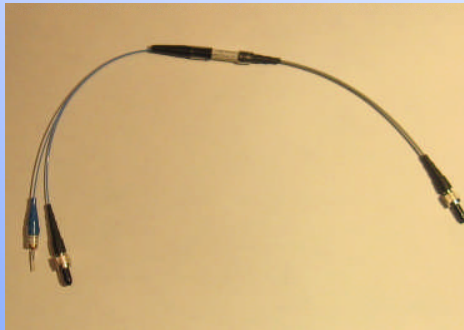
Multiplexed fiber-coupled LED



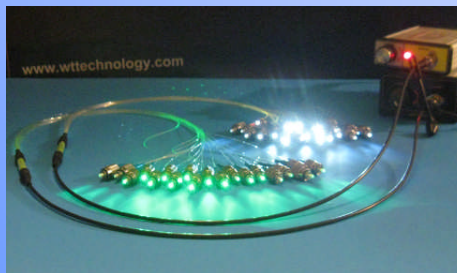
Model: LE-1xxx-MUX (3 channel spectrally-multiplexed LED source)
Wavelengths: “white” (W), 460 nm (B), 530 nm (G), 585 nm (Y), 630 nm (R)
Output power: up to 3-10 mW per wavelength
Modulation: DC / TTL “ON/OFF” control ports
Outputs: FC/PC connectorized pigtail (POF980, 1 m, 3mm jacketed)
Size: 350x170x60 mm
Built-in: drivers, power controls, active air-cooling



Model: LE-3xx-MUX (2 channel spectrally-multiplexed LED)
Wavelengths: “white” (W), 460 nm (B), 530 nm (G), 585 nm (Y), 630 nm (R)
Output power: up to 1-3 mW per wavelength
Outputs: SMA connectorized pigtail (POF980, 0.3 m, 3mm jacketed)
Built-in: drivers, power controls, active air-cooling
Note: Based on LE3-x-HP LEDs, integrated with 2x1 fiber coupler



Model: LE-3x-BF (1 channel LED with reflected power port)
Wavelengths: “white” (W), 460 nm (B), 530 nm (G), 585 nm (Y), 630 nm (R)
Output power: up to 1-3 mW
Outputs: SMA connectorized pigtails (POF980/POF500, ~0.3 m)
Built-in: drivers, power controls, active air-cooling
Size: Based on LE3-x-HP LEDs, integrated with 2x1 fiber coupler



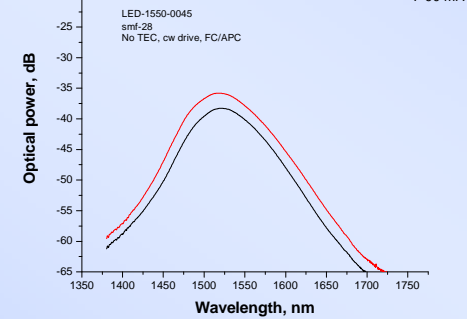
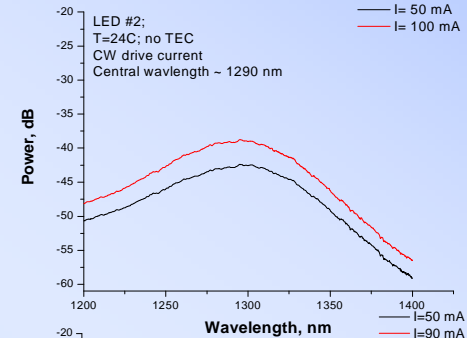
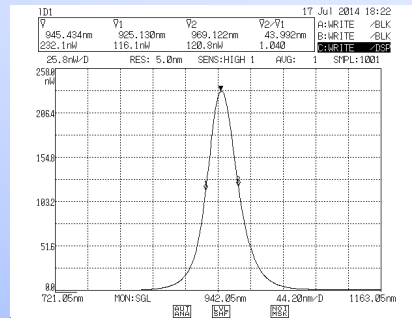
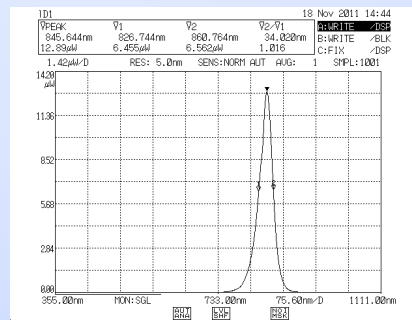
Model: LE-1x-CE_MUX (LED source integrated with with 1x19 coupler)
Wavelengths: “white” (W), 460 nm (B), 530 nm (G), 585 nm (Y), 630 nm (R); 830 nm
Output power: up to 1-3 mW / channel (up to 10 mw / channel- for pulse version)
Outputs: FC or SMA connectorized pigtails (POF980/POF500, ~1 m)
Built-in: drivers, power controls, active air-cooling
Size: Based on LE1x-CE, integrated with 1x19 fiber (POF) coupler

Glass fiber-coupled LED sources

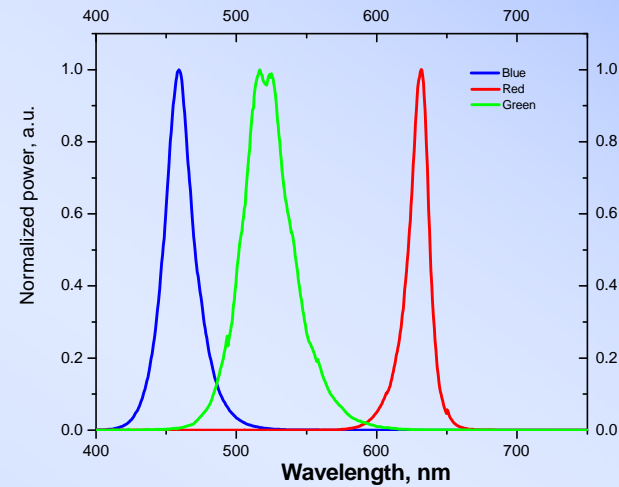


Model:
Central wavelengths
Output power:
Modulation:
Outputs fiber:
Built-in
Size:
Note:

LE-04x (single or 3 LED source)
 ~830 nm; ~940 nm; ~1300 nm; ~1530 nm
 ~50-1000 μ W per channel
 DC
 FC/PC; 10 μ m; 50 μ m; 105 μ m; 200 μ m; 400 μ m; 500 μ m
 drivers, active air cooling, power controls
 160x80x50 mm or 200x180x70 mm
 analog modulation and TTL "ON/OFF" ports are optional



LED sources for microscope illumination



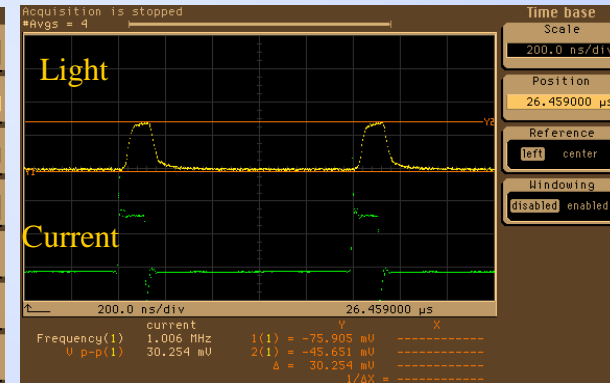
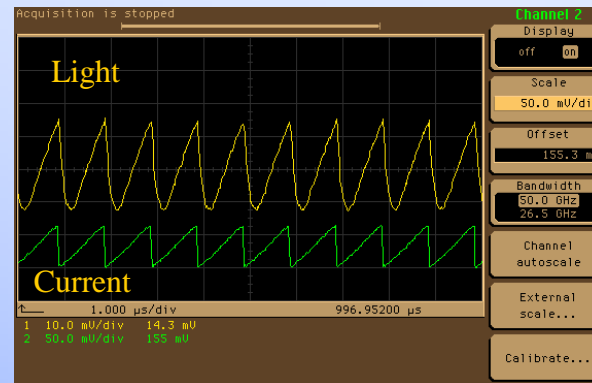
This source comprise 1-4 integrated LEDs, having independent controls to generate different colors over 0.8" illumination area.

Model: LE-06
Wavelengths: "white", ~460 nm, ~530 nm, ~630 nm
Output power: ~ 10-100 mW per channel
Output : 0.8" diameter collimated, color-mixed uniform free space beam

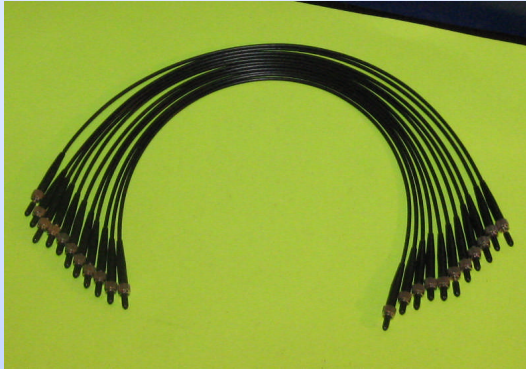
Modulated and Pulsed LED sources



Model: LE-01SC
Number of channels: 1-3
Wavelengths: "white", ~460 nm, ~510 nm, ~630-660 nm ; ~590 nm; ~850nm; ~940 nm
Output power: up to 250 mW per channel.
Pulse width: 100 ns – CW
Output : Fiber coupled or highly uniform optical beam
Driver built-in or external module (200x160x70 mm)
Optical head: can be fitted with single or up to 4 wavelengths LEDs.
Note: Single, two and three output channel versions are available



Accessories for LED sources



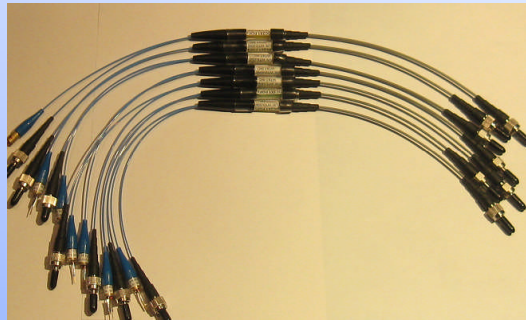
Optical fiber patch-cords:

Fiber core diameter: 4, 6, 9, 50, 62.5, 105, 200, 400, 600 μm (Glass fibers)
(Plastic fibers : 480; 900, 1500 μm)

Optical connectors: FC/PC, FC/APC, SMA905, ST/PC, other

Fiber length: ~ 0.1-20 m

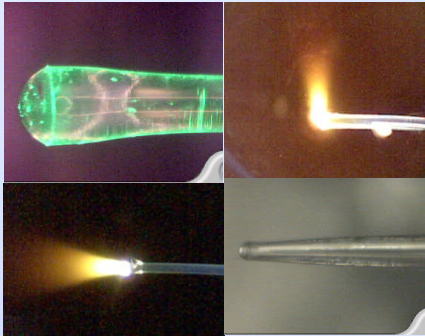
Fiber protection: primary-coated, or 2 mm/3 mm jacketed



- 1x2; 1x3; 1x19 Plastic fiber optical couplers
- Micro-lensed plastic fiber pigtailed
- Plastic fiber reflectors
- Plastic fiber U-bench



- Optical fiber collimators/focusers,
- Micro- objective lenses
- Fiber holders, V-groves
- Magnetic mounting plates
- Mechanical translation platforms



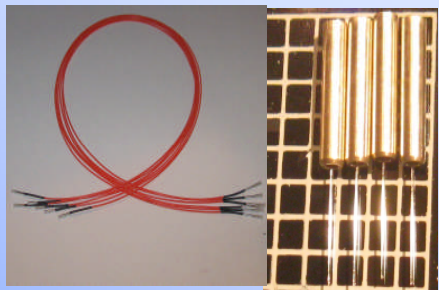
Optical fiber pigtailed, terminated with micro-lensed fiber:

Fiber core diameter: 4, 6, 9, 50, 62.5, 105, 200, 400, 600 um (Glass fibers)
(Plastic fibers : 480; 900, 1500 um)

Optical connectors: FC/PC, FC/APC, SMA905, ST/PC, other

Fiber length: ~ 0.1-1 m

Micro-lenses: cone lens, ball lens, hemispherical lens, tapered cone lens, angle-polished tip, other



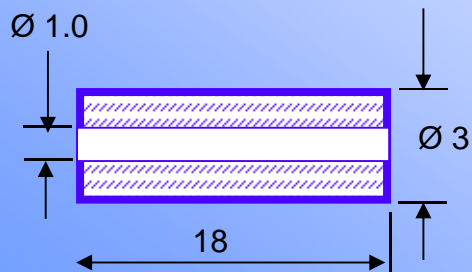
Opto-genetics components: fiber patch-cords, compact LED/laser sources, fiber cannula

Fiber core diameter: 4, 6, 9, 50, 62.5, 105, 200, 400, 600 um (Glass fibers)
(Plastic fibers : 480; 900, 1500 um)

Optical connectors: FC/PC, FC/APC, SMA905, ST/PC, 2.5 mm ferrules, 1.25 mm ferrules, other

Fiber length: ~ 0.01-1 m

Micro-lenses: cone lens, ball lens, hemispherical lens, tapered cone lens, angle-polished tip, other



Capillary joints for plastic optical fiber. For joining 980 um core diameter (POF980/1000), other

For further details please contact us:

www.wttechnology.com

Or call: +1 (514) 804-0822
(e-mail: sales@wttechnology.com)