

Fiber coupled components

Broadband light sources (LEDs, SLEDs)

Fiber-collimators Model-014; -011

Fiber-mirrors

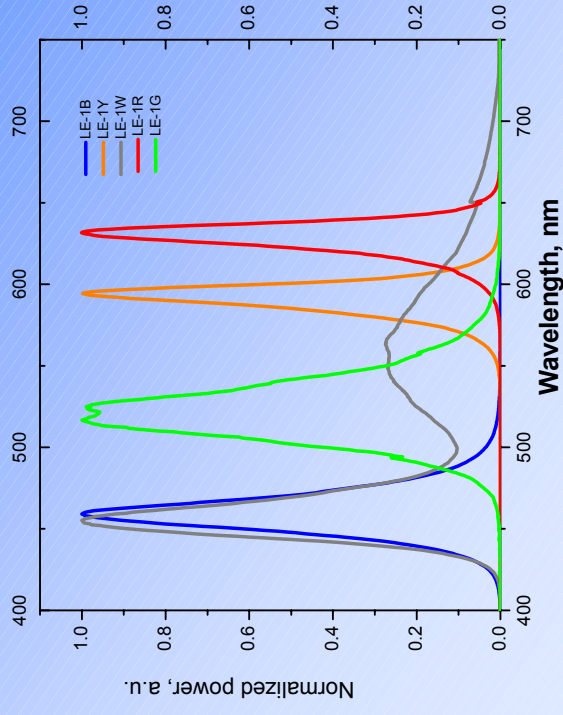
Shaped fibers



WT&T Inc., 3250 Forest Hill, 705, Quebec, CANADA H3V 1C8

www.wttechnology.com

High power fiber-coupled LED source



Model:

LE-01X

Wavelengths:

“white”, 460 nm, 530 nm, 585 nm, 630 nm

Output power:

up to 10 mW

Output :

FC/PC receptacle

Output fiber:

FC/PC connectorized (core size: 1 mm, 0.5 mm, 0.2 mm,
0.1 mm, 0.062 mm, 0.05 mm)

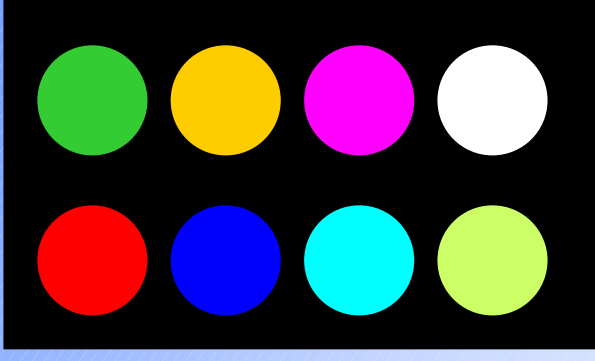
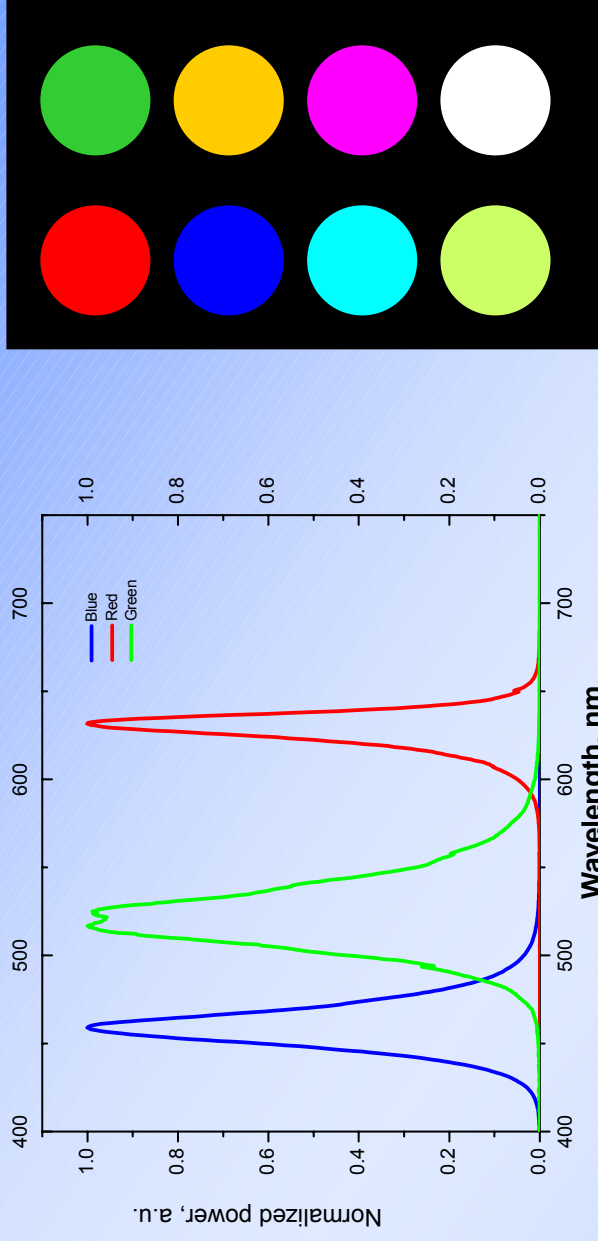
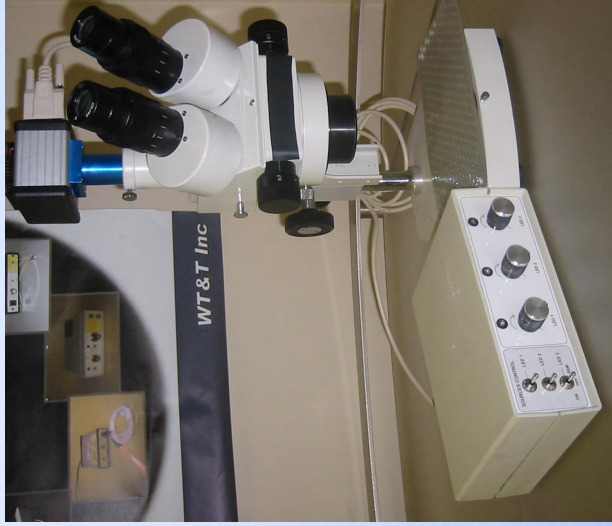
Size:

230x105x55 mm

Built-in:

driver, air-cooling, power supply

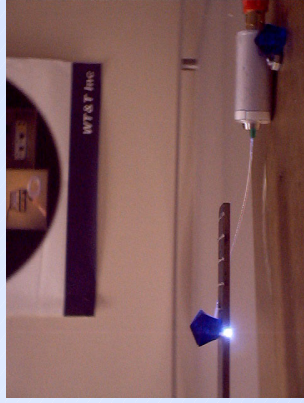
RGB LED source



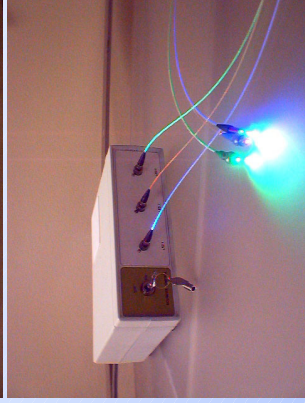
This source comprise three integrated LED sources (RGB), having independent controls to generate different colors over 0.8" circular area.

- | | |
|----------------------|---|
| Model: | LE-01RGG |
| Wavelengths: | "white", 460 nm, 530 nm, 630 nm |
| Output power: | up to 10 mW |
| Output : | 0.8" collimated, color-mixed beam |
| Size: | 60x80x130 mm |
| Optical head | 200x160x70 mm |
| Driver | 3 channel driver, air-cooling, power supply |
| External: | |

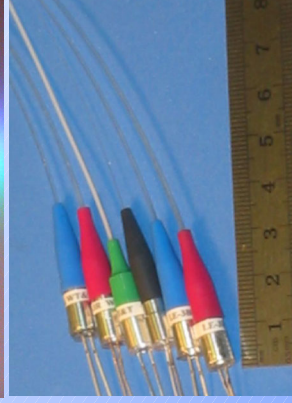
Multi-mode fiber-coupled LED sources



Model: LE-02x (single LED)
Wavelengths: Visible, IR
Output power: 0.01- 2 mW
Output fiber: 1 mm POF, FC/PC connector (other –optional)
Modulation: up to 50 MHz



Model: LE-01xxx (3 LED)
Wavelengths: visible
Output power: 0.01- 6 mW
Modulation: DC (up to 50 MHz optional)
Outputs: FC/PC receptacles



Model: LE-03x (PCB-mountable LED)
Wavelengths: visible
Output power: 0.01- 1 mW
Output fiber: 1 mm POF, FC/PC connector (other –optional)
Modulation: up to 60 MHz



Accessories:

- Fiber, objective holders, V-groves, U-benches
- Magnetic mounting plates, mechanical translation platforms
- Multi-mode fiber connectorized patch-cords
- micro- objective lenses, collimators

Multiple LED fiber-coupled broadband light source



Model:

Central wavelengths

Chan. 1

Chan. 2

Chan. 3

Output power:

Modulation:

Outputs:

Built-in

Size:

LE-04x (3 LED or 2 LED + laser source)

LED ~830 nm or Laser: ~660 nm (50/125 mm fiber)

LED ~1290 nm (50/125 mm fiber)

LED ~1550 nm (smf-28 fiber)

~50 μ W (for LED) and ~25 mW for laser

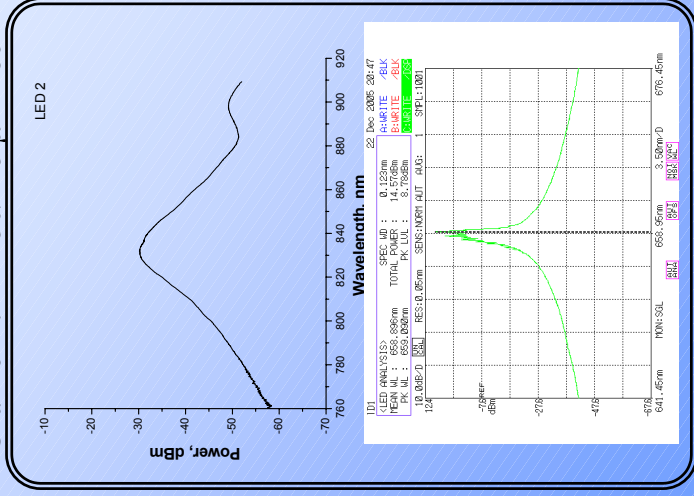
DC

FC/PC receptacles

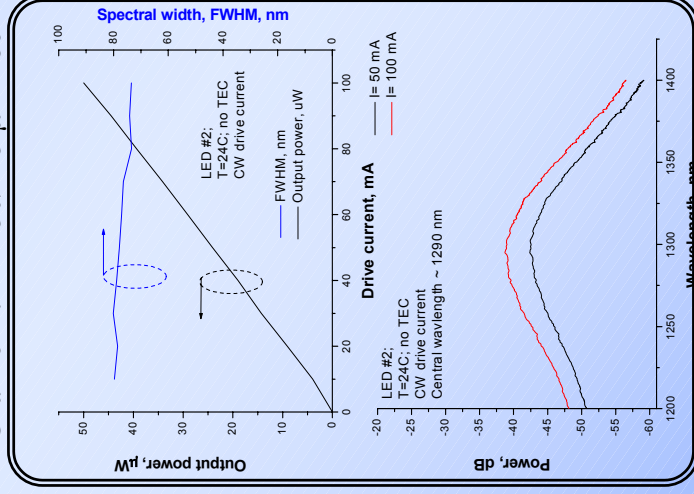
air cooling, TEC, current driver

20x18x7 cm

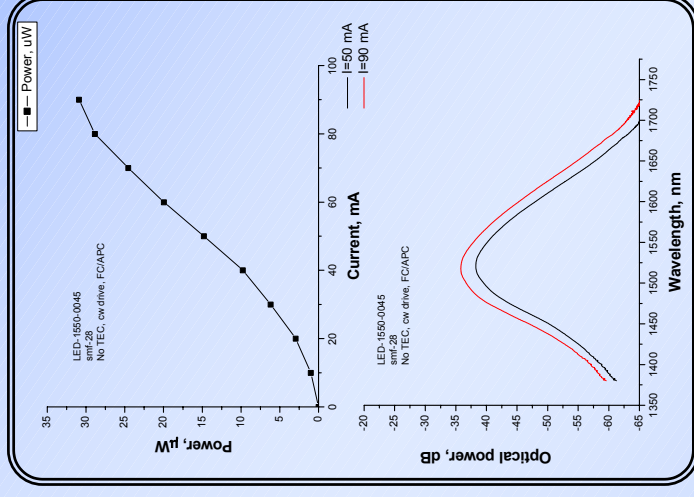
Channel 1: MM 50/125 μ m fiber



Channel 2: MM 50/125 μ m fiber



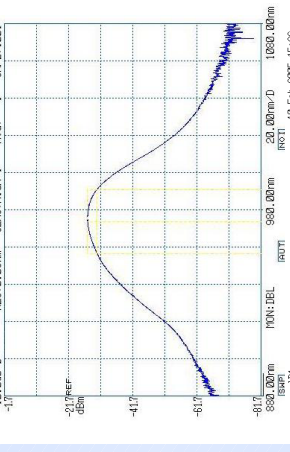
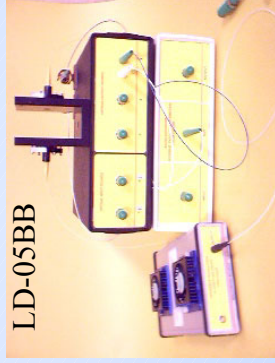
Channel 3: smf-28 fiber



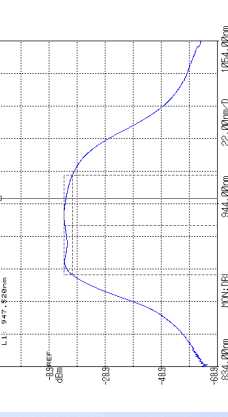
Single-mode fiber-coupled broadband light sources

Preliminary specifications:

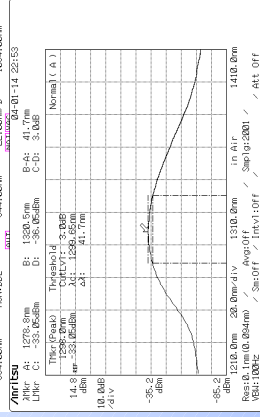
LD-05BB



LD-05BB-S1



LD-02BB



LD-02BB-S2



Central wavelength: 960-960 nm

Output power: ~> 1-2 mW

Wavelength stability: better than ±100 pm

Spectra FWHM: >35 nm

Built-in

Optional modules for reflection/transmission spectra measurements of Volume Bragg Grating and fiber-coupled filters

Central wavelength: 940-960 nm

Output power: ~> 5-8 mW

Wavelength stability: better than ±20 pm

Spectra FWHM: >65 nm

Built-in

air cooling, TEC, current driver

Central wavelength: 1300-1320 nm

Output power: ~> 1-2 mW

Wavelength stability: better than ±100 pm

Spectra FWHM: >40 nm

Built-in

air cooling, TEC, current driver

Central wavelength: 1300-1320 nm

Output power: ~ 20 mW

Wavelength stability: better than ±100 pm

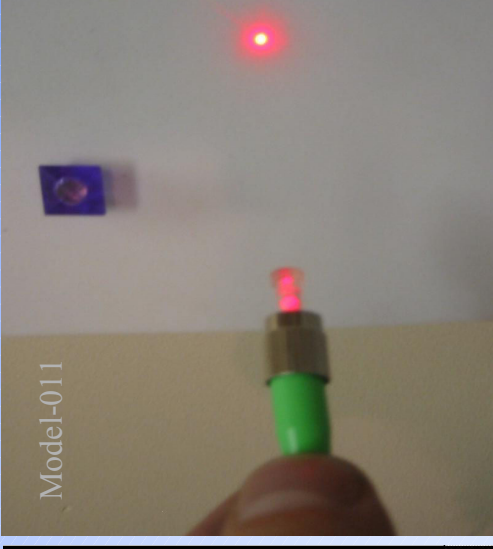
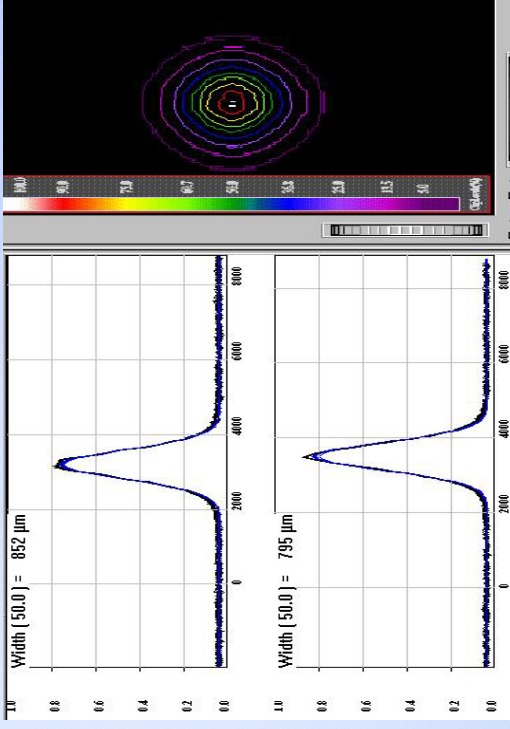
Spectra FWHM: >95nm (up to 160 nm)

Built-in

air cooling, TEC, current drivers

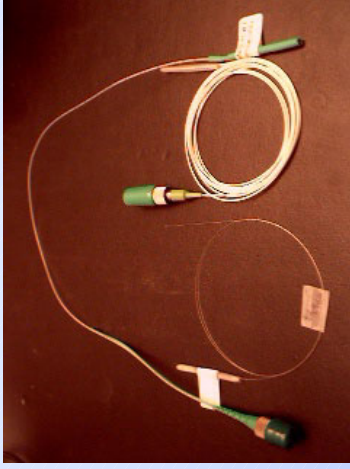
Outputs: TWO

Fiber collimator Model-014 , Model 011



Specifications:	Model-014	Model-011
Size	Ø10 × 28 mm	Ø3 × 5 mm
Input fiber	smf-28, Hi-1060, mmf (core size: 500 μm; 200 μm; 105 μm; 62.5 μm; 50 μm)	
Operating wavelength	400-1600 nm	
Return loss	-35 dB	-30 dB
Spot size	~0.9 mm - 15 μm (FWHM)	0.6 mm - 25 μm (FWHM)

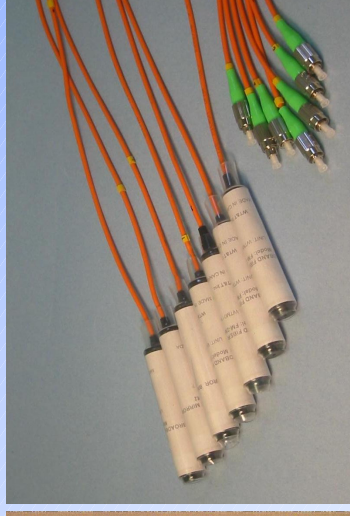
Optical fiber mirrors (broadband fiber-coupled reflector)



Type: FM1x
primary-/secondary coated
single-mode fiber



Type: FM2x
3 mm jacketed
single-mode fiber



Type: FM2Mx
3 mm jacketed
multi-mode fiber

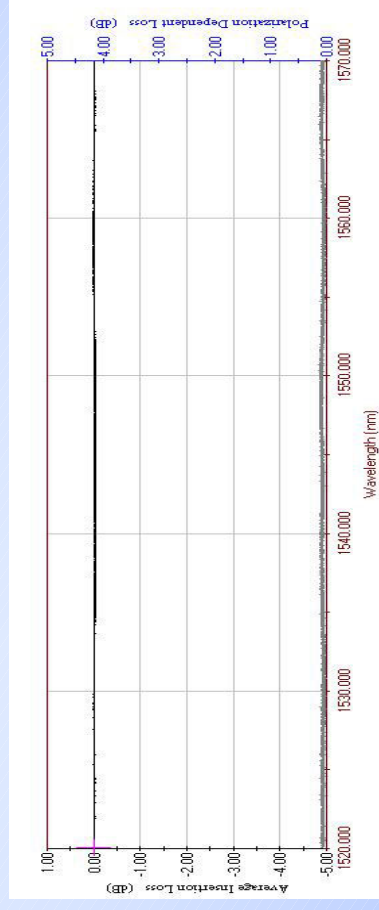


Type: FM1PMx
primary-/secondary coated
pm single-mode fiber

All-fiber calibrated optical mirrors are designed to operate within broad wavelength range: 600-1580 nm (different models)

Fiber mirrors can be produced with 100% and 4% reflectivity
Primary, secondary coated or jacketed fiber with or without optical connectors.

Operating temperature range: -10...+65 °C



Applications: Telecom, fiber lasers, Interferometry, optical sensing

Specialty lensed fibers

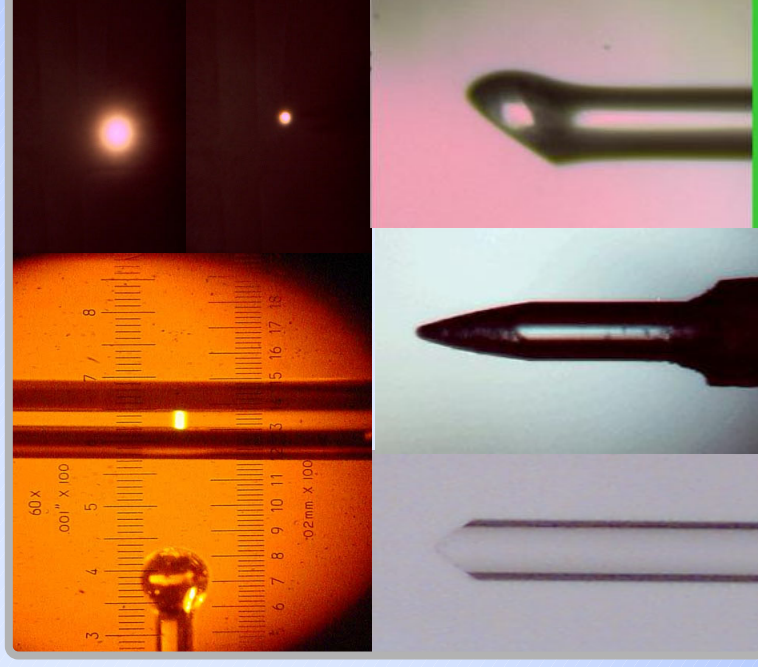
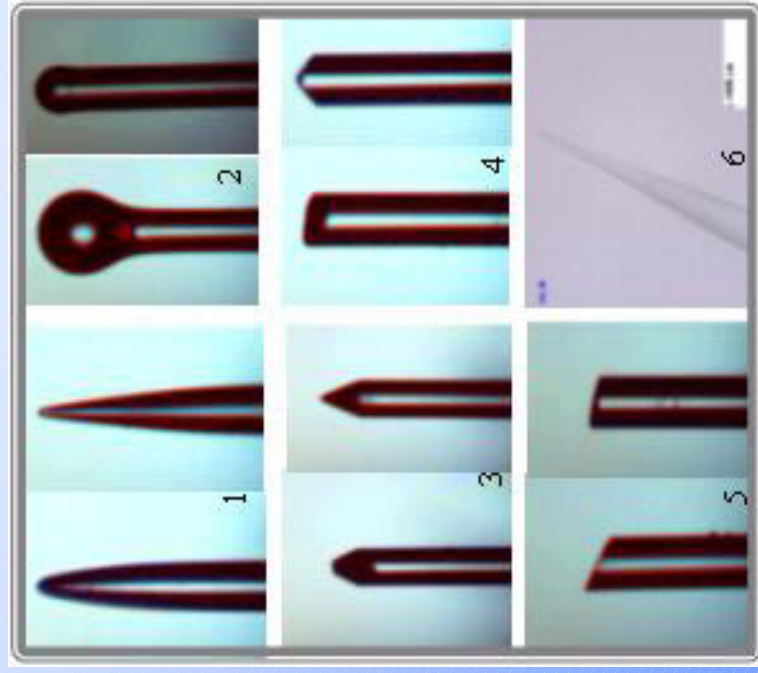
Single or multi-mode fibers, POF with micro-optics for:

- Focusing (cone, wedge fiber)
- Collimation (ball lensed fiber)
- Diffusion (multi-facet fiber ends)
- Deflection (angled fibers)
- Reflection (broadband fiber-mirrors)

Features: Single-mode, multimode, double-clad or PM fibers with/without FC/PC/APC connectors

Shape of the fiber end: cone (1), ball (2), wedge(3), angled tip wedge (4), polished end fiber(5), up to 1mm long tapered cone (6)

Length of the fiber: 0.4-2.0 m



For further details please visit our website:

www.wttechnology.com

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