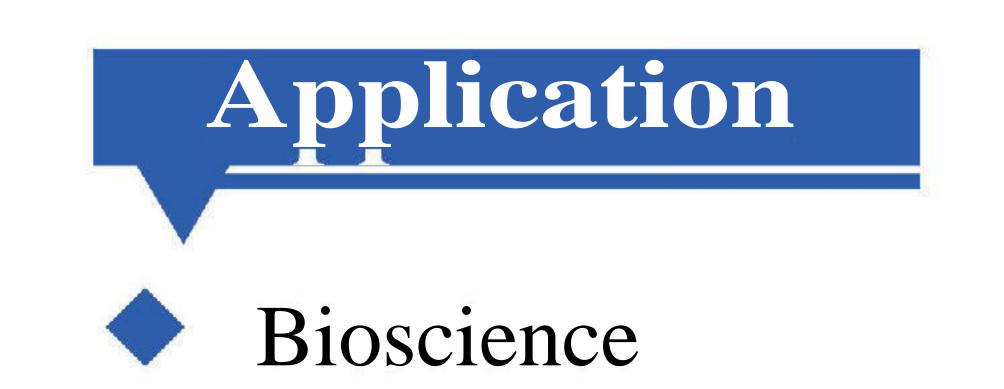


## **Portable Raman Spectrometer DTR3110-633**



Ultra-high sensitivity FFT-CCD TE-cooled;



low noise circuit;

High stable narrow band laser;

Powerful embedded software;

Fluorescent background eliminate;

Peak finding and displaying;

User friendly human-machine interface;

Identify spectrum;

Material science

Pharmaceutical engineering

Forensic analysis

Agriculture and food safety

Gemstones identification

Environmental science

Description

DTR3110-633 portable Raman spectrometer fit to field work. With high reliable measuring accuracy, excellent low stray

light condition, it enables a wide range of application, especially in sectors of biochemical analyzer, public safety,

food safety, pharmaceutical engineering etc. The multi-function software facilitated the spectral analysis process in

application. The remote experiment through internet access makes the test item much easier.

DTR3110-633 built-in excellent algorithm, which can identify substances at ease, meanwhile it can add one's own

spectral data. A user-friendly interface for both technical & non-technical users to make their job easier.

High-quality hardware configuration and robust multivariate algorithms guarantee accurate, uniform and reliable results detected.





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## Parameters

DTR3110 -633 Operation system	
Interface	USB 2.0/LAN
Operate system	Windows
Integration time	lms - 64s
Power voltage	DC 5V(+/-5%)

<b>Operate temp.</b>	-5~40 °C	
<b>Operate humidity</b>	< 95%	
Size (L*W*H)	33x25.6x16.5 cm3	
Weight	5.2Kg	
Reliability		
Spectral stability	o/p < 0.5% (COT 8 hours)	
Temp, stability	<1 cm-1 (5-40 °C)	
Spectral intensity shift (in5~40 °C)	<±5%	
<b>Optical parameters</b>	Optical parameters	
Spectral range	200-3700 cm-1	
Resolution	12cm-1	
SNR	>1500:1	
Incident slit	50pm	
Optical path	f/4 C-T	
Focus distance	98 mm for incidence and output	
Detector		
Model	Ultra-high sensitivity TE-cooled CCD	
Effective pixels	2048	
Dynamic range	50000:1	
Pixel size	14pmx200pm	
Full well capacity	<b>300 Ke-</b>	
Sensitivity	25 pV/e-	
Laser		
Central wavelength	633nm (±0.5nm)	
FWHM	<0.1 nm	
Power output	<50 mW	
Power stability	o/p <±0.5%	
Raman probe		

Working distance	6 min
<b>Rayleigh scattering resistance</b>	<b>OD&gt;8</b>
Numerical aperture	0.3
Light through aperture	<b>7mm</b>



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