

UV and VISIBLE Tunable Laser Source (OETLS-500-UV-VIS)

Description

The new Tunable Laser Source is a turn-key solution under the model number **OETLS-500-UV-VIS** available from O/E land Inc. It is a turnkey solution and has operating wavelength from ultra-violet to visual spectrum (400-700 nm). The peak wavelength of the emission light of the laser can be tuned up to 10 nm. Output power is up to 60 mW in CW or pulse operation. Output can be free space collimated beam or fiber pigtailed.



Figure 1. OETLS-500-UV-VIS

Features

- Turn key solution
- Peak emission wavelength in the UV-VIS range (400-700 nm)
- Output power up to 60 mW
- Fiber-coupled or collimated beam free space output
- CW or pulsed operation
- Operating temperature range from -10°C to +40°C

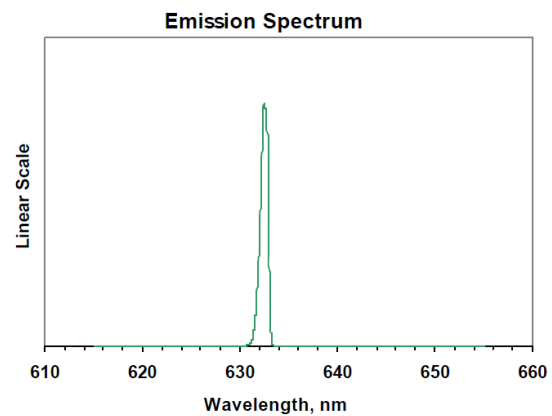
Applications

- Water vapor spectroscopy
- Raman spectroscopy
- Seed laser for second-harmonic generation
- Optical Sensor
- Biomedical Application

Specifications

Available UV and Visible Tunable Laser Source

Center Wavelength [nm]	Free-space power [mW]	Laser type	Spectral width [nm]	Tuning range [nm]
400-410	20	FP	1.0	10
440-460	10	FP	1.0	10
485-492	20	FP	1.0	10
510-530	10	FP	1.0	10
631-636	40	FP	1.0	10
633-642	40	FP	1.0	10
650-670	10	FP	1.0	10
655-670	20	FP	1.0	10
655-670	60	FP	1.0	10
695-710	20	FP	1.0	10



Optical and Electrical Parameters (T=25 °C) (for sample 633 nm Tunable Laser Diode)

Parameter	Min	Typical	Max	Unit
Optical power from pigtail	35	40		mW
Wavelength	631	633	636	nm
Wavelength v/s temperature coefficient		0.2		nm/°C
Spectral linewidth (FWHM)		0.5	1.5	nm
Forward current		180	250	mA
Threshold current		70		mA
Forward voltage		2.7	2.9	V
Rise time in pulse mode		0.5		ns
Monitor current @ V _{FPD} =5V	0.07			mA
TEC current			0.5	A
Thermistor resistance @ 25°C	9.5	10.0	10.5	KOhm
Storage temperature	-40		70	°C
Operating case temperature	0		60	°C
PD reverse voltage			20	V

All specifications are subject to change without notice.