

# NORTH PHOTONICS

[OETLS-500]

## Tunable FP Laser Sources (UV-VIS)

### Features:

- Peak emission wavelength in the UV-VIS range
- Turn-key solution
- Output power up to 60 mW
- Fiber-coupled or collimated beam free space output
- CW or pulsed operation

### Applications:

- Biomedical applications
- Water vapor spectroscopy
- Raman spectroscopy
- Seed laser for second-harmonic generation
- Optical Sensors



OETLS-500

### Product description:

Tunable FP Laser Source is a Fabry-Perot laser operating in the range of ultra-violet to visual spectrum (400-700 nm) in CW or pulsed mode. The peak wavelength of the light emission can be tuned up to 10 nm. Output power is up to 60 mW. Output can be free space collimated beam or fiber pigtailed.

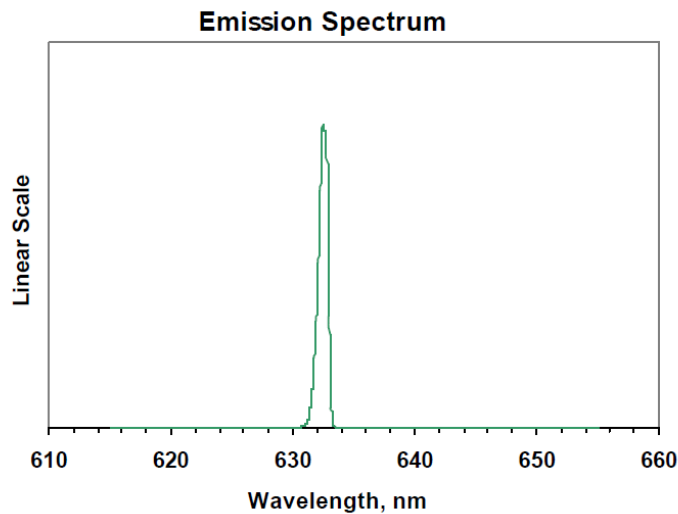
### Optical and electrical parameters for a typical laser diode at 633 nm:

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

# NORTH PHOTONICS

## Available UV and Visible Tunable FP Laser Sources:

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



Output spectrum of OETLS-500 at 632 nm

- All specifications are subject to change without notice.

## Ordering number:

<b>OETLS-500-WL-P:</b>	WL	P
	400-710	Power(mW)
Example:	OETLS-500-633-30	