

# T&D-scan

Multi-Spectral CW Laser System with Narrow Line and Computer Control



1

**NARROW LINEWIDTH**

3

**BUILT-IN WAVELENGTH METER**

2

**SUPER-BROAD SPECTRAL RANGE**

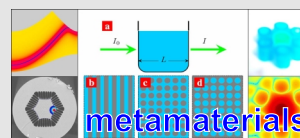
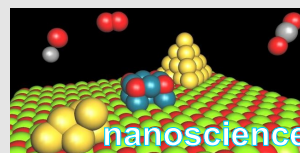
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**AUTOMATED WAVELENGTH SETTING**

Tekhnoscan unveils a unique fully computer-controlled powerful broadly tunable laser system for research studies and applications demanding fine spectral resolution and high spectral density of CW radiation within UV-VIS-NIR spectral ranges.

Our automated laser system based on Tekhnoscan's CW narrow-line lasers comes as a perfect embodiment of modern ideas and technology innovation in the field of scientific- and high-tech-oriented smart tunable laser spectrometers. Novel advanced design of the fundamental laser component implements efficient intra-cavity frequency doubling as well as provides a state-of-the-art combined ultra-wide-tunable Ti:Sapphire & Dye laser covering a super-broad spectral region between 275 and 1100 nm.

The T&D-scan laser system includes, as its base, a CW ultra-wide-tunable narrow-line laser, high-precision wavelength meter, an electronic control unit driven through USB interface as well as a software package. The laser system is controllable through a user-friendly computer interface that offers a variety of modes for setting and scanning of the radiation wavelength as well as different modes of data acquisition and recording.



## Features

- ✓ Continuous tuneability in ultra-wide spectral range of 275-1100 nm
- ✓ Advanced flexible architecture, intracavity frequency doubling, two high-effective spectral selectors
- ✓ User-friendly computer interface, LabView™ based software
- ✓ Wavelength accuracy 0.001 nm
- ✓ Training by highly skilled engineers

## Applications

- ✓ Nanoscience
- ✓ Studies of new materials
- ✓ Quality control
- ✓ Calibration of imaging spectrometers
- ✓ Remote sensing
- ✓ Pollution monitoring

## Contacts

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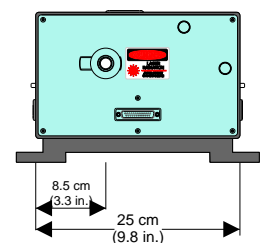
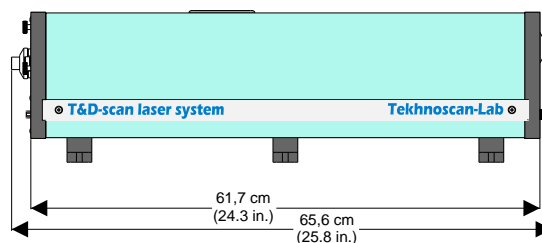
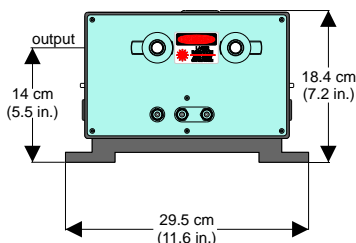
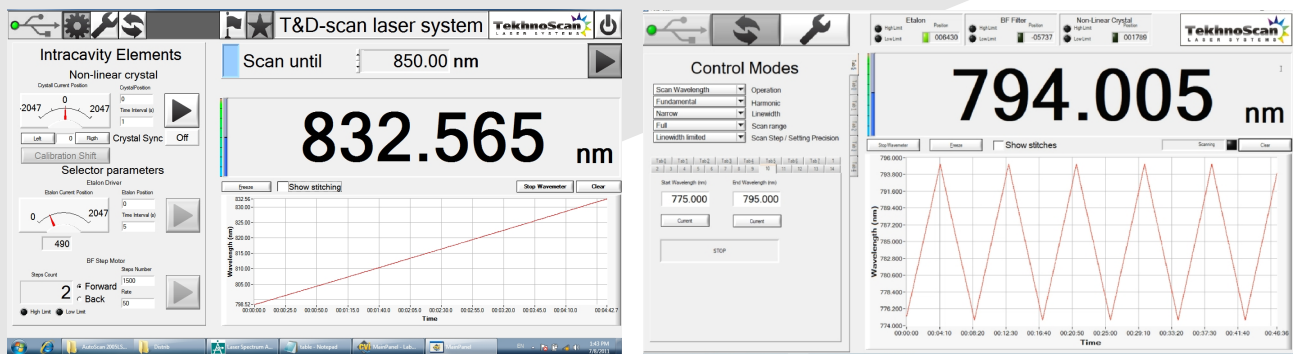
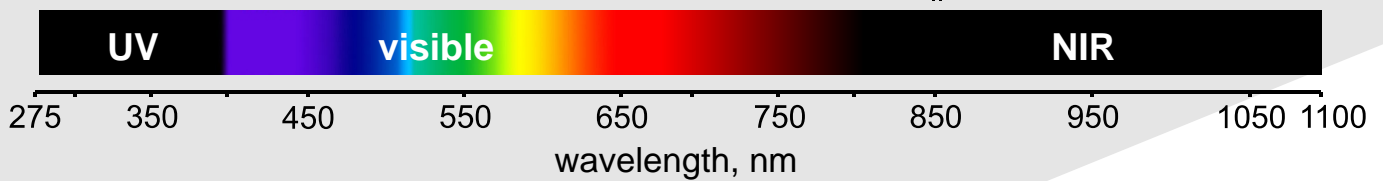
## Laser Specifications

Wavelength range **275-1100 nm**  
(275-350 nm / 350-550 nm / 550-700 nm / 700-1100 nm)

Linewidth **1-6 GHz** (depends on spectral range)

Scanning modes smooth scanning / step-scan / scanning with stitching

Output power **up to 4,5 W in the range 550-1100 nm**  
**up to 500 mW in the range 275-550 nm**



Information and specifications contained herein are deemed to be reliable and accurate as of the publication date. Tekhnoscan reserves the right to change these specifications at any time without notice.

