

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

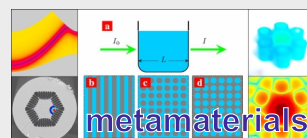
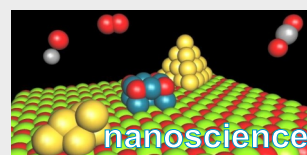
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AUTOMATED WAVELENGTH SETTING

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, intra-cavity 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

Tekhnoscan-Lab
Inzhenernaia Str., 26,
Novosibirsk, 630090 Russia

Technology Park of Novosibirsk
Akademgorogok

☎ +7 383 214-00-09
+7 383 363-69-12(14)
☎ +7 383 363-69-13
✉ mail@tekhnoscan.com
www.tekhnoscan.com

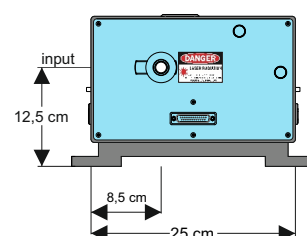
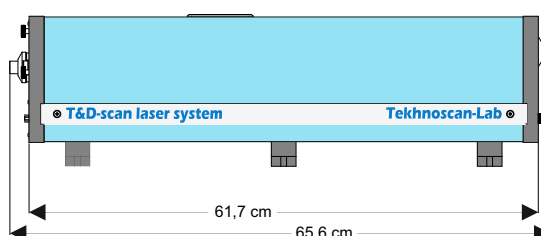
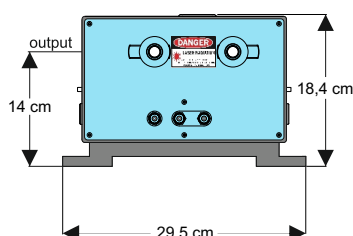
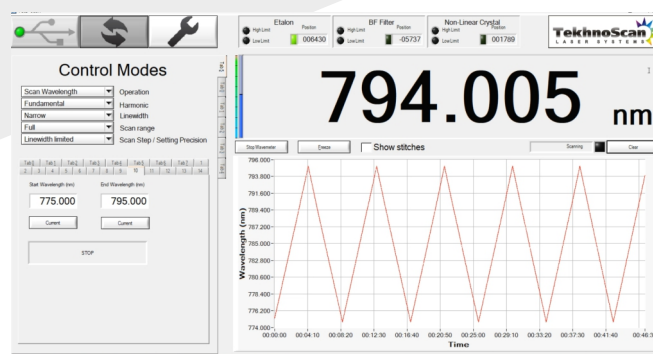
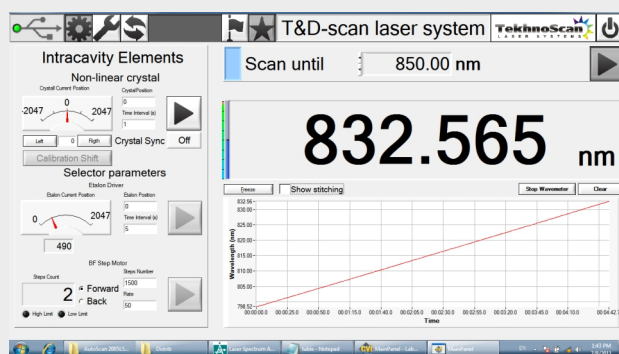
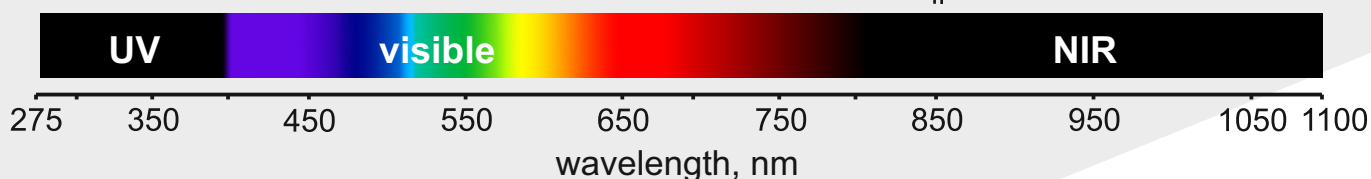
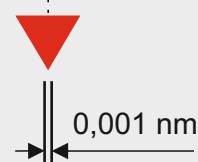
Laser Specifications

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.

