

L411

System for spectral tests of laser pointers/illuminators

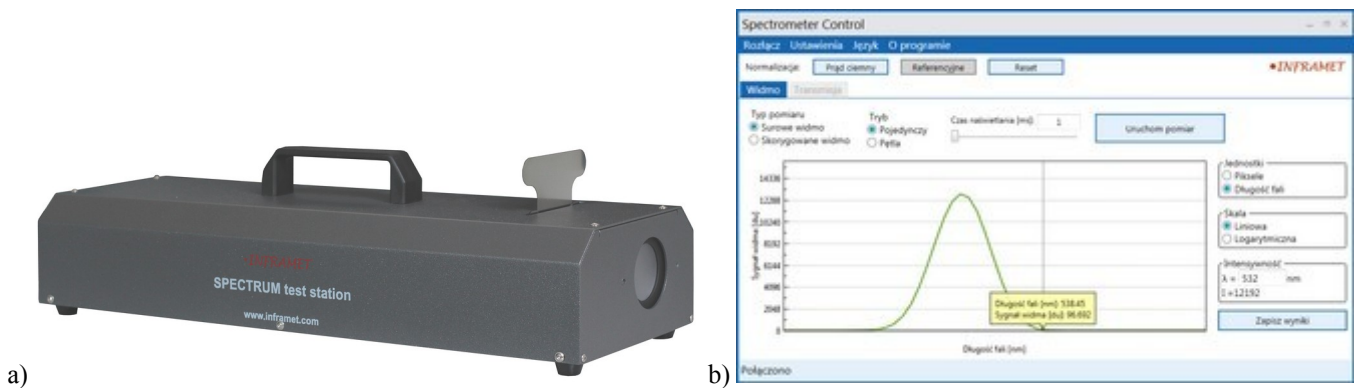


Fig. 1. L411 system: a)photo, b)SPEC software

1 What is L411?

Laser pointers/illuminators are laser systems that are used in big numbers in both military and civilian applications. Laser pointers/illuminators are typically low power CW or multi pulse lasers that emit light at 530nm, 650nm, 830nm, 850nm wavelengths. However, there are sometimes exceptions from these rules and these laser systems can emit at different wavelengths. In addition, there are cases when the manufacturer has not specified the emission spectral band. Therefore ability to determine spectrum of light emitted by pointers/illuminators is interesting for many users of these laser systems.

L411 is a system for spectral tests of pointers/illuminators that operate in VIS-NIR spectral band (virtually all lasers of such types). In detail, L411 enables precision measurement of spectral intensity of light emitted by these lasers at variable wavelength in range from 400nm to 1100nm (virtually all laser pointers/illuminators).

It should be noted that L411 system is not optimized to test laser weapons (high power directional weapons) or high power pulsed lasers used in long range LRF/designators. These laser emits beam of too high average power or pulses of too high peak power.

2. How is built?

L411 is built in form of three blocks: 1)RES411 receiver, 2)laptop, 3)SPEC software. The first block incorporates such modules like: VIS-NIR spectrometer, integration optics, set of attenuators, power supply.

3. How to operate?

It is easy to use L411 test set. User is expected only to put tested laser opposite input optics of the L411 and to shoot. The software shall present measured spectrum of the tested laser pointer/illuminator.

4. Specifications

Parametr	Value
Type of tested lasers	pointers/illuminators
Spectral band	400-1100nm
Measurement resolution	1nm
Input aperture	40mm
Range of min/max mean power of tested lasers	From about 0.1mW to over 10W
Max peak power od tested LRF	100W
Power	USB (from laptop)
Dimensions	About 350x130x150mm
Mass	About 3 kg

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