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Spectroscopic specifications

Spectral range	1450 – 2450 nm
Spectral resolution	1 % of wavelength, e.g. 15 nm at 1500 nm
Wavelength reproducibility ¹ :	+/- 0.20 nm
Wavelength repeatability ² :	< 0.05 nm
Signal to Noise Ratio	>5.000 per spectral resolution element
Optical Components	
Detector	256 pixel PbS line array detector
Lamp Module	6 Tungsten halogen lamps
	Lifetime > 100.000 scans (typically)
	Replaceable by user
Sample interface	Scratch resistant sapphire window
Physical specifications	
Dimensions	152 mm x 84 mm x 42mm
Weight	570 g
IP class	IP65 dust- and waterproof (splash and jet water)
Environmental conditions	

Environmental conditions

Storage temperature	-20 °C – 60 °C
Operating temperature	0°C – 40°C 0°C – 30°C for charging

¹ Determined with 50 devices. Value is standard deviation of distribution, determined at 1760 nm wavelength.

² Determined with 50 devices. Value is standard deviation for all individual devices. Valid for covered spectral range.

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trinamiX NIR Spectroscopy Solution Model SYS-IR-R-P



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Air humidity (non-condensing)	20 % – 80 % (operation) / 20 % – 90 % (storage).
Height above sea level	≤2000 m
Type of use	Indoor and outdoor (operation), indoor (charging)

Electrical specifications

Power Input (for charging)	USB PD with 15 VDC, max. 2.75 A via USB type C connector
USB-Connection (for stationary use)	USB 2.0 communication via USB Type C connector
Wireless connection (for handheld use)	Wireless low energy via integrated antenna

Battery

Туре	Rechargeable lithium-ion battery
Number of scans per battery charge	> 6.000
Nominal voltage	11.1 V
Nominal capacity	2600 mAh
Charging current	1300 mA
Transport classification	UN class: 9
	UN number: 3480, Lithium-Ion Battery
	Energy of battery: <100 Wh

Radio Frequency Module

The device contains the following radio frequency (RF) module:

Туре	Würth Proteus-I AMB2621 / 2608011024000
Frequency range	2.44 GHz
Max. output power	Typ2 dBm, max. 0 dBm

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