

N I R e

Polispec NIRe is a spectrophotometer with extended spectral range, robust and compact, which integrates reflection measurement optics (also configurable for transmission or contactless applications). Designed for both manual use and for in-process installation, it is made with special technological devices such as to make it highly performing in terms of sensitivity, operating dynamics and signal cleaning.

These qualities make Polispec NIRe suitable for analysing very varied matrices, from the most reflective to the most absorbent, without the need to have different versions of the instrument for each application area.



Dim. 21.6 x 21.3 x 8.5 cm (l x h x w)

Weight 3.3 kg

Material Anodised aluminium
(standard)

IP degree IP68 (standard)
IP6X + IPX9K (on request)



Sensor dual-chip sensor, 512 pixels,
cooled with double Peltier stage

Feedback cooling control system Feedback,
stability $T < 0.03$ K

Spectrum range 930-2180 nm

Average numerical resolution 2.4 nm

Average optical resolution HWHM 4 nm

Optical signal collection Direct optical coupling

Supply 12 Vdc power supply with power supply provided,
interchangeable rechargeable battery

Maximum absorbed power 24 W



Commands and signals

Hardware button dedicated to the acquisition of references.
Hardware button dedicated to the measurement acquisition.
Light and acoustic signalling of the acquisition status.



Type of measurements Reflectance/transmittance *
* may require external accessories

Measurement geometry Diffuse / 0°

Measurement references Internal and automatic

Communication channels ** Standard WiFi + RS422 / RS485
** also available in WiFi + Ethernet configuration

Source type *** Replaceable halogen lamp
*** internal back-up lamp option available



Software

poliDATA Data acquisition and chemometric prediction
software compatible with the SensoLogic and UCal
Chemometric suites.

poliPROCESS Process analysis software compatible
with the SensoLogic and UCal Chemometric suites, interface
available for ISObus and PLC systems (modbus over TCP/IP
or S7).

polispecNIRe



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