OMNIS NIR Analyzer Liquid/Solid

2.1072.0010

Near-infrared spectrometer for liquid, solid, and viscous samples.

Developed and produced in accordance with Swiss quality standards, the OMNIS NIR Analyzer is the near-infrared spectroscopy (NIRS) solution for routine analysis along the entire production chain. Its application of the latest technologies and its integration in the modern OMNIS Software are reflected in its speed, operability and flexible utilization of this NIR spectrometer.

Overview of the advantages of the OMNIS NIR Analyzer Liquid/Solid:

– Measurements of fluid, solid, and viscous samples in less than 10 seconds
– Fast sequential measurement of liquid and solid samples without conversion of the system
– Simple integration in an automation system or link with additional analysis technologies (titration)
– Supports numerous sample vessels

Highlights of measurements of liquids:

– Temperature control on the sample from 25–80 °C
– Automatic detection of the sample

Highlights of measurements of solids:

– Automated multi-position measurements for reproducible results, even with nonhomogeneous samples

Below, the accessories are grouped into Scope of delivery and Optional accessories.
Please keep this printout at hand for ordering replacement material.
These lists may be subject to change.

Scope of delivery 2.1072.0010

Order Number	Description	Quantity
1.1072.0010	**OMNIS NIR Analyzer Liquid/Solid** Near-infrared spectrometer for liquid, solid, and viscous samples. Developed and produced in accordance with Swiss quality standards, the OMNIS NIR Analyzer is the near-infrared spectroscopy (NIRS) solution for routine analysis along the entire production chain. Its application of the latest technologies and its integration in the modern OMNIS Software are reflected in its speed, operability, and flexible utilization of this NIR spectrometer. Overview of the advantages of the OMNIS NIR Analyzer Liquid/Solid: – Measurements of fluid, solid, and viscous samples in less than 10 seconds – Fast sequential measurement of liquid and solid samples without conversion of the system – Simple integration in an automation system or link with additional analysis technologies (titration) – Supports numerous sample vessels Highlights of measurements of liquids: – Temperature control on the sample from 25–80 °C – Automatic detection of the sample Highlights of measurements of solids: – Automated multi-position measurements for reproducible results, even with nonhomogeneous samples	1 PCS

6.06008.001

Function license OMNIS NIR Analyzer 1 PCS

Function license for the measurement and evaluation of NIR spectra with an OMNIS NIR Analyzer.

OMNIS
A WHOLE NEW LEVEL OF PERFORMANCE

6.2164.020

Power supply unit 100-240 V / 24 V DC 1 PCS

Power supply unit for OMNIS NIR Analyzer.

Optional accessories

6.06008.005
Pre-calibration, isocyanate, liquid

OMNIS pre-calibration for determination of the NCO number in isocyanates using NIR spectroscopy.

6.06008.006
Pre-calibration, polyol, liquid

OMNIS Pre-calibration for determination of the hydroxyl number in polyols by means of NIR spectroscopy.

6.06008.007
Pre-calibration, CPO, liquid

OMNIS pre-calibration for determination of iodine number, moisture, and free fatty acids in crude palm oil using NIR spectroscopy.

6.06008.008
Pre-calibration, gasoline, liquid

OMNIS pre-calibration for determination of octane number, AKI, and density, along with the benzene, aromatic compounds, olefins, and oxygenates content in gasoline using NIR spectroscopy.

6.06008.009
Pre-calibration, diesel, liquid

OMNIS pre-calibration for determination of the cetane index, cetane number, density, flash point, T95 and viscosity in diesel oil using NIR spectroscopy.

6.06008.011
Pre-calibration, RBD palm oil, liquid

OMNIS pre-calibration for determination of iodine number, moisture, free fatty acids and peroxide value in RBD palm oil using NIR spectroscopy.

6.06008.012
Pre-calibration, CPKO, liquid

OMNIS pre-calibration for determination of iodine number, moisture, and free fatty acids in crude palm kernel oil using NIR spectroscopy.

6.06008.013
Pre-calibration, PET, solid

OMNIS pre-calibration for determination of intrinsic viscosity, diethylene glycol content, and isophthalic acid content in poly (ethylene terephthalate) (PET) using NIR spectroscopy.

6.06008.014
Pre-calibration, PE, solid

OMNIS pre-calibration for determination of intrinsic viscosity and density in polyethylene using NIR spectroscopy.

6.06008.015
Pre-calibration, PP, solid

OMNIS pre-calibration for determination of the melt flow index in polypropylene using NIR spectroscopy.

6.06008.016
Pre-calibration, PA6, solid

OMNIS pre-calibration for determination of relative viscosity, carboxyl end-group content, and amine end-group content in polyamides (PA 6) using NIR spectroscopy.

6.06008.017
Pre-calibration, coffee, solid

OMNIS pre-calibration for determination of moisture and caffeine content in roasted coffee using NIR spectroscopy.

6.06008.018
Pre-calibration, edible oil, liquid

OMNIS pre-calibration for determination of the iodine value, refractive index, free fatty acid content, and fatty acid content of C16:0, C18:0, C18:1, C18:2, C18:3, induction time and peroxide value in soy oil, sesame oil, sunflower oil, and rapeseed oil using NIR spectroscopy.

6.07401.010
Holder OMNIS NIR, cuvette, 1 mm

Cuvette holder for the OMNIS NIR Analyzer for 1 mm quartz cuvettes (6.7401.200).

6.07401.020
Holder OMNIS NIR, cuvette, 2 mm

Cuvette holder for the OMNIS NIR Analyzer for 2 mm quartz cuvettes (6.7401.210).

6.07401.030
Holder OMNIS NIR, cuvette, 5 mm

Cuvette holder for the OMNIS NIR Analyzer for 5 mm quartz cuvettes (6.7401.220).

6.07401.040
Holder OMNIS NIR, cuvette, 10 mm

Cuvette holder for the OMNIS NIR Analyzer for 10 mm quartz cuvettes (6.7401.230).

6.07401.050
Holder OMNIS NIR, vial, 2 mm

Vial Holder for the OMNIS NIR Analyzer for 2 mm disposable vials (6.7402.070).

6.07401.060
Holder OMNIS NIR, vial, 4 mm

Vial Holder for the OMNIS NIR Analyzer for 4 mm disposable vials (6.7402.250).

6.07401.070
Holder OMNIS NIR, vial, 8 mm

Vial Holder for the OMNIS NIR Analyzer for 8 mm disposable vials (6.7402.240).

6.07401.100
Holder OMNIS NIR, flow-through cells

Cuvette holder for the OMNIS NIR Analyzer for flow-through cells (6.7401.300; 6.7401.310; 6.7401.320; 6.7401.330; 6.7401.340).

6.07401.110
Flow-through connector set, 1 /8"

Connection set for flow-through cells with an OMNIS Sample Robot.
Contains flangeless sleeve 1/8", 10 pcs.,
Flangeless fitting with nut, 1/8", 10 pcs.
and FEP tubings 1/8" x 1.59 mm, 4 pcs.

6.7401.300
Flow-through cell, 0.5 mm

Flow quartz cuvettes with quartz glass window and an optical path length of 0.5 mm suitable for near-infrared spectroscopy (NIRS) analyses.
Compatible with:
– Holder OMNIS NIR, flow-through cell (**6.070401.100**)
– DS2500 holder for flow cells (**6.7493.000**)

6.7401.310
Flow-through cell, 1 mm

Flow quartz cuvettes with an optical path length of 1.0 mm suitable for near-infrared spectroscopy (NIRS) analyses.
Compatible with:
– Holder OMNIS NIR, flow-through cell (**6.07401.100**)
– DS2500 holder for flow cells (**6.7493.000**)

6.07401.320
Flow-through cell, 2 mm

Flow quartz cuvettes with an optical path length of 2.0 mm suitable for near-infrared spectroscopy (NIRS) analyses.
Compatible with:
– Holder OMNIS NIR, flow-through cell (**6.070401.100**)

6.07401.330

Flow-through cell, 2.5 and 5 mm

Flow quartz cuvettes with quartz glass window and two optical path lengths (2.5 mm or 5.0 mm) suitable for near-infrared spectroscopy (NIRS) analyses.

Compatible with:

Holder OMNIS NIR, flow-through cell (**6.070401.100**)

6.07401.340

Flow-through cell, 5 and 10 mm

Flow quartz cuvettes with quartz glass window and two optical path lengths (5.0 mm or 10.0 mm) suitable for near-infrared spectroscopy (NIRS) analyses.

Compatible with:

– Holder OMNIS NIR, flow-through cell (**6.070401.100**)

6.7401.200

Quartz cuvette, 1 mm

Quartz glass cuvette with a window made of quartz glass of maximum purity and homogeneity. The cuvettes have a transmission of more than 80% in the wavelength range of 200–2500 nm.

Compatible with:

– NIRS Spacer for set of 12.5 mm cuvettes (**6.7403.180**)

– DS2500 holder for 1 mm cuvette (**6.7492.100**)

– Holder OMNIS NIR, cuvette, 1 mm (**6.07401.010**)

6.7401.210

Quartz cuvette, 2 mm

Quartz glass cuvette with a window made of quartz glass of maximum purity and homogeneity. The cuvettes have a transmission of more than 80% in the wavelength range of 200–2,500 nm.

Compatible with:

– NIRS Spacer for set of 12.5 mm cuvettes (**6.7403.180**)

– DS2500 holder for 2 mm cuvette (**6.7492.110**)

– Holder OMNIS NIR, cuvette, 1 mm (**6.07401.010**)

6.7401.220

Quartz cuvette, 5 mm

Quartz glass cuvette with a window made of quartz glass of maximum purity and homogeneity. The cuvettes have a transmission of more than 80% in the wavelength range of 200–2500 nm.

Compatible with:

– NIRS Spacer for set of 12.5 mm cuvettes (**6.7403.180**)

– DS2500 holder for 5 mm cuvette (**6.7492.120**)

– Holder OMNIS NIR, cuvette, 5 mm (**6.07401.030**)

6.7401.230

Quarzküvette, 10 mm

Quarzglasküvette mit einem Fenster aus Quarzglas in höchster Reinheit und Homogenität. Die Küvetten haben eine Transmission von über 80% im Wellenlängenbereich von 200 nm - 2500 nm.

Kompatibel mit:

– NIRS Spacer für 12.5 mm Küvettenset (**6.7403.180**)

– DS2500 Halter für 10 mm Küvette (**6.7492.130**)

– Halter OMNIS NIR, Küvette, 10 mm (**6.07401.040**)

6.7402.070
Disposable vials, 2 mm diameter, transmission

200 lockable disposable glass vials (borosilicate) with a diameter of 2 mm for analyses of liquids in transmission mode.
Compatible with:
– Holder OMNIS NIR, vial, 2 mm (**6.07401.050**)
– DS2500 holder for flow cells (**6.7492.000**)

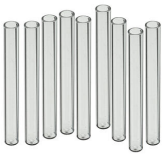
6.7402.100
Disposable vials, 10 mm diameter, transmission

195 lockable disposable glass vials (borosilicate) with a diameter of 10 mm for analyses of liquids in transmission.
Compatible with:
– Holder OMNIS NIR, vial, 10 mm (**6.07401.080**)
– DS2500 holder for 4 mm disposable vials (**6.7492.030**)

6.7402.240
Disposable vial, 8 mm, transmission, qty. 100

100 disposable glass vials (borosilicate) with an optical path length of 8 mm for analyses of liquids in transmission. The disposable vials are supplied with the associated stoppers (number of pieces = 100).
Compatible with:
– Holder OMNIS NIR, vial, 8 mm (**6.07401.070**)
– DS2500 holder for 8 mm disposable vials (**6.7492.020**)

6.7402.250
Disposable vial, 4 mm, transmission, qty. 200



200 disposable glass vials (borosilicate) with an optical path length of 4 mm for analyses of liquids in transmission.
Compatible with:
– Holder OMNIS NIR, vial, 4 mm (**6.07401.060**)
– DS2500 holder for 4 mm disposable vials (**6.7492.010**)

6.07402.100
Large holder OMNIS NIR, 100 mm

Large holder for large sample vessel OMNIS NIR, 100 mm (**6.07402.110**).
Permits unambiguous positioning of the sample vessel and the rotation of the sample vessel.

6.07402.110
Large cup OMNIS NIR, 100 mm

Large sample vessel for the spectra acquisition of powders and granulates in reflection at various sample positions.
The glass bottom is made of resistant Gorilla® Glass.
Compatible with:
– Large holder OMNIS NIR, 100 mm (**6.07402.100**)

6.07402.120
Large lid OMNIS NIR, black, 100 mm

Large lid (black) for large sample vessel OMNIS NIR, 100 mm (**6.07402.110**) for the reduction of stray light and slight compression of the sample.

6.07402.150
Petri dish, Duroplan, 100 mm, qty. 1

Petri dish of Duroplan glass with a diameter of 100 mm.
Compatible with:
– Large holder OMNIS NIR, 100 mm (**6.07402.100**).

6.07402.200
Small holder OMNIS NIR, 60 mm

Small holder for small sample vessel OMNIS NIR, 60 mm (**6.07402.210**).
Permits unambiguous positioning of the sample vessel and the rotation of the sample vessel.

6.07402.210
Small cup OMNIS NIR, 60 mm

Small sample vessel for the spectra acquisition of powders and granulates in reflection at various sample positions.
The glass bottom is made of resistant Gorilla® Glass.
Compatible with:
– Small holder OMNIS NIR, 60 mm (**6.07402.200**)

6.07402.220
Small lid OMNIS NIR, black, 60 mm

Small lid (black) for small sample vessel OMNIS NIR, 60 mm (**6.07402.210**) for the reduction of stray light and slight compression of the sample.

6.07402.240
Petri dishes, PS, 60 mm, qty. 100

Disposable petri dishes of polystyrene with a diameter of 60 mm.
Compatible with:
– Small holder OMNIS NIR, 60 mm (**6.07402.200**).

6.07402.250
Petri dish, Duroplan, 60 mm, qty. 1

Petri dish of Duroplan glass with a diameter of 60 mm.
Compatible with:
– Small holder OMNIS NIR, 60 mm (**6.07402.200**).

6.07402.260
Transflection vessel OMNIS NIR, 60 mm

Optically flat transflection vessel for the spectral measurement of liquids.

6.07402.300
Flexible holder OMNIS NIR

Flexible holder with a variable diameter of up to 30 mm for the examination of samples in vials in reflection.

6.07402.910
Small reflector OMNIS NIR, 1 mm

Reflector with a gap size of 1 mm (optical path length of 2 mm) for the transflection measurement of liquids.
Suitable for disposable 28 mm reflection vials (**6.7402.140**).

6.07402.920
Small reflector OMNIS NIR, 2 mm

Reflector with a gap size of 2 mm (optical path length of 4 mm) for the transflection measurement of liquids.
Suitable for disposable 28 mm reflection vials (**6.7402.140**).

6.07402.930
Small reflector OMNIS NIR, 4 mm

Reflector with a gap size of 4 mm (optical path length of 8 mm) for the transflection measurement of liquids.
Suitable for disposable 28 mm reflection vials (**6.7402.140**).

6.07402.940
Large reflector OMNIS NIR, 1 mm

Reflector with a gap size of 1 mm (optical path length of 2 mm) for the transflection measurement of liquids.
Suitable for transflection vessels (**6.07402.260** and **6.7401.000**).

6.07402.950
Large reflector OMNIS NIR, 2 mm

Reflector with a gap size of 2 mm (optical path length of 4 mm) for the transflection measurement of liquids.
Suitable for transflection vessels (**6.07402.260** and **6.7401.000**).

6.07402.960
Large reflector OMNIS NIR, 4 mm

Reflector with a gap size of 4 mm (optical path length of 8 mm) for the transflection measurement of liquids.
Suitable for transflection vessels (**6.07402.260** and **6.7401.000**).

6.7402.110
Disposable vials, 15 mm, reflection

123 lockable disposable glass vials with a diameter of 15 mm for analyses of solids in reflection. Suitable for NIRS RapidContent (Solid) Analyzers of the XDS, DS2500 and OMNIS product families.

6.7402.120
Disposable vials, 19 mm, reflection

225 lockable disposable glass vials with a diameter of 19 mm for analyses of solids in reflection. Suitable for NIRS RapidContent (Solid) Analyzers of the XDS, DS2500 and OMNIS product families.

6.7402.130
Disposable vials, 22 mm, reflection

172 lockable disposable glass vials with a diameter of 22 mm for analyses of solids in reflection. Suitable for NIRS RapidContent (Solid) Analyzers of the XDS, DS2500 and OMNIS product families.

6.7402.140
Disposable vials, 28 mm, reflection

216 lockable disposable glass vials with a diameter of 28 mm for analyses of solids in reflection. Suitable for the following analyzers:
– NIRS DS2500 Analyzer
– NIRS XDS RapidContent (Solid) Analyzer
– NIRS XDS MultiVial Analyzer
– NIRS XDS MasterLab Analyzer

6.7402.200
Stopper for 6.7402.110

123 stoppers for 15 mm Reflection disposable vials.

6.7402.210
Stopper for 6.7402.120

225 stoppers for 19 mm Reflection disposable vials.

6.7402.220
Stopper for 6.7402.130

172 stoppers for 22 mm Reflection disposable vials.

6.7402.230
Stopper for 6.7402.140

216 stoppers for 28 mm Reflection disposable vials.

6.07401.080
Holder OMNIS NIR, vial, 10 mm

Vial Holder for the OMNIS NIR Analyzer for 10 mm disposable vials (6.7402.100).

6.07402.140
Petri dishes, PS, 100 mm, qty. 100

Disposable petri dishes of polystyrene with a diameter of 100 mm.
Compatible with:
– Large holder OMNIS NIR, 100 mm (**6.07402.100**).

6.07410.000
OMNIS NIR Lamp

Spare lamp for 2060 The NIR Analyzer and OMNIS NIR Analyzer with built-in hour counter.

6.7402.260
Stopper for disposable vial, 4 mm, qty. 100

100 stoppers for 4 mm transmission disposable vials (6.7402.250).

6.07410.010
Dust protection cover OMNIS NIR

Dust protection cover for the OMNIS NIR Analyzer. Protects the Analyzer against dust and dirt for prolonged periods when not in use.

6.06008.019
Pre-calibration, wheat flour, solid

OMNIS pre-calibration for determination of moisture and of protein and ash content in wheat flour using NIR spectroscopy.

6.07402.970
Small reflector OMNIS NIR, 0.5 mm

Reflector with a gap size of 0.5 mm (optical path length of 1 mm) for the transflection measurement of liquids.
Suitable for disposable vials 28 mm reflection (6.7402.140).

6.07410.030
External standards OMNIS NIR, reflection

Set of 5 reflection standards and 1 wavelength standard for checking the wavelength accuracy, the photometric linearity, and the noise characteristics of the OMNIS NIR Analyzer in reflection mode.

6.07410.040
External standards OMNIS NIR, transmission

Set of 5 transmission standards and 1 wavelength standard for checking the wavelength accuracy, the photometric linearity, and the noise characteristics of the OMNIS NIR Analyzer in transmission mode.

6.2164.020

Power supply unit 100-240 V / 24 V DC

Power supply unit for OMNIS NIR Analyzer.