



DS2500 Solid Analyzer

2.922.0010

Robust near-infrared spectroscopy for quality control, not only in laboratories but also in production environments.

The DS2500 Analyzer is the tried and tested, flexible solution for routine analysis of solids, creams, and optionally also liquids along the entire production chain. Its robust design makes the DS2500 Analyzer resistant to dust, moisture, vibrations, and temperature fluctuations, which means that it is eminently suited for use in harsh production environments.

The DS2500 covers the full spectral range from 400 to 2500 nm and delivers accurate, reproducible results in less than one minute. The DS2500 Analyzer meets the demands of the pharmaceutical industry and supports users in their day-to-day routine tasks thanks to its simple operation.

Thanks to accessories tailored perfectly to the instrument, optimum results are achieved with every sample type, no matter how challenging it is, e.g. coarse-grained solids such as granulates or semi-solid samples such as creams. The MultiSample Cup can help improve productivity when measuring solids, as it enables automated measurements of series containing up to 9 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 2.922.0010

Qt.	Order no.	Description
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1 PCS	1.922.0010	NIRS DS2500 Analyzer
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Robust near-infrared spectroscopy for routine analysis in the production environment

The NIRS DS2500 Analyzer is the tried and tested, low-cost solution for the routine analysis of both solid and liquid samples along the entire production chain. Its robust design makes the NIRS DS2500 Analyzer resistant to dust, moisture, vibrations, and temperature fluctuations, which means that it is eminently suited for use in harsh production environments.

The NIRS DS2500 Analyzer covers the entire spectral range from 400 to 2,500 nm and delivers accurate, reproducible results in under a minute. The NIRS DS2500 Analyzer meets the demands of the pharmaceutical industry and supports the users in their day-to-day tasks thanks to its simple operation.



1 PCS	6.7430.040	DS2500 Holder
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Holder for use with:

- Small sample vessels (6.7402.030)
- DS2500 Iris (6.7425.100)



Optional accessories

Order no.	Description
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6.6072.207 Vision Air 2.0 Network Complete

Vision Air - Universal spectroscopy software.

Vision Air Network is a modern and simple-to-operate software solution. The network version enables the structuring of a global server-client network with a central database.



Overview of the advantages of Vision Air:

- Individual software applications with adapted user interfaces ensure intuitive and simple operation
- Centralized data and instrument management
- Simple configuration and updating of several devices in just a few steps

The Vision Air Network Complete version (66072207) contains all applications for quality assurance using Vis-NIR spectroscopy:

- Application for a global instrument and data management
- Application for method development
- Application for routine analysis

Vision Air - Universal spectroscopy software.

Vision Air Complete is a modern and simple-to-operate software solution for use in a regulated environment.



Overview of the advantages of Vision Air:

- Individual software applications with adapted user interfaces ensure intuitive and simple operation
- Simple creation and maintenance of operating procedures
- SQL database for secure and simple data management

The Vision Air Complete version (66072208) includes all applications for quality assurance using Vis-NIR spectroscopy:

- Application for instrument and data management
- Application for method development
- Application for routine analysis

Additional Vision Air Complete solutions:

- 66072207 (Vision Air Network Complete)
- 66072209 (Vision Air Pharma Complete)
- 66072210 (Vision Air Pharma Network Complete)

Vision Air - Universal spectroscopy software.

Vision Air Pharma Complete is a modern and simple-to-operate software solution for use in regulated environments.



Overview of the advantages of Vision Air:

- Individual software applications with adapted user interfaces ensure intuitive and simple operation
- Simple creation and maintenance of operating procedures
- SQL database for safe and simple data management
- In compliance with all requirements pursuant to Title 21 CFR Part 11

The Vision Air Pharma Complete version (66072209) contains all applications for quality assurance using Vis-NIR spectroscopy:

- Application for instrument and data management
- Application for method development
- Application for routine analysis

Vision Air - Universal spectroscopy software.

Vision Air Pharma Network Complete is a modern and simple-to-operate software solution. The network version enables the setup of a global server-client network with a central database.



Overview of the advantages of Vision Air:

- Individual software applications with adapted user interfaces ensure intuitive and simple operation
- Centralized data and instrument management
- Simple configuration and updating of several instruments in just a few steps
- In compliance with all requirements pursuant to Title 21 CFR Part 11

The Vision Air Pharma Network Complete version (66072210) contains all applications for quality assurance using Vis-NIR spectroscopy:

- Application for a global instrument and data management
- Application for method development
- Application for routine analysis

Pre-calibration for the determination of the kappa number and density as well as breaking, tensile and buckling strength in wood pulp by means of NIR spectroscopy.



6.6072.308 Pre-calibration for polyethylene (PE)

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



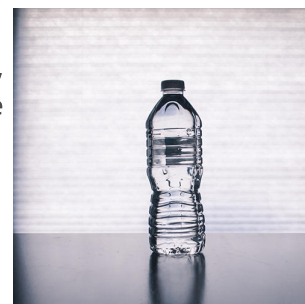
6.6072.309 Pre-calibration for polypropylene (PP)

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



6.6072.310 Pre-calibration for PET

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



6.6072.311 Pre-calibration for polyamide (PA 6)

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



6.6072.313 Pre-calibration for cannabis

Pre-calibration for the determination of the THC, CBD, CBG and water content of mortared and dried cannabis flowers using NIR spectroscopy.



6.6072.314 Pre-calibration for human feces

Pre-calibration for the determination of the dry mass of the fat content, the nitrogen content, the water content, and the calorie content using NIR spectroscopy



6.7400.010 NIRS Liquid Sample Kit Transflection

The NIRS Liquid Sample Kit Transflection supplements the following instruments with the function of the transflection measurement of liquids:

- NIRS DS2500 Analyzer (order number: 2.922.0010)
- NIRS XDS MasterLab Analyzer (order number: 2.921.1310)
- NIRS XDS MultiVial Analyzer (order number: 2.921.1120)
- NIRS XDS RapidContent Analyzer (order number: 2.921.1110)
- NIRS XDS RapidContent Analyzer - Solids (order number: 2.921.1210)



6.7401.000

NIRS transfection vessel, optically flat

Optically flat transfection vessel for the spectral measurement of liquids.
Can be used in combination with the following instruments:



- NIRS DS2500 Analyzer (order number: 2.922.0010)
- NIRS XDS MasterLab Analyzer (order number: 2.921.1310)
- NIRS XDS MultiVial Analyzer (order number: 2.921.1120)
- NIRS XDS RapidContent Analyzer (order number: 2.921.1110)
- NIRS XDS RapidContent Analyzer - Solids (order number: 2.921.1210)

6.7402.020

NIRS disposable backs for 6.7402.030, 100 pcs.

The disposable backs are used for the secure sealing of the mini sample cups. The sample cups are used in the following:



- NIRS DS2500 Analyzer (order number: 2.922.0010)
- NIRS XDS MasterLab Analyzer (order number: 2.921.1310)
- NIRS XDS RCA Analyzer (order number: 2.921.1110)
- NIRS XDS MultiVial Analyzer (order number: 2.921.1210)

The package is comprised of 100 disposable backs.

6.7402.030

NIRS mini sample cups, 10 pcs. including 100 disposable backs

Mini sample cup for the spectral recording of powders and granulates in reflection. The sample cup can be sealed with disposable backs in order to avoid sample loss and for the uniform distribution of the powder or granulate in the sample cup.



The sample cups are used with the following instruments:

- NIRS DS2500 Analyzer (order number: 2.922.0010)
- NIRS XDS MasterLab Analyzer (order number: 2.921.1310)
- NIRS XDS MultiVial Analyzer (order number: 2.921.1120)
- NIRS XDS RapidContent Analyzer (order number: 2.921.1110)
- NIRS XDS RapidContent Analyzer - Solids (order number: 2.921.1210)

6.7402.050 DS2500 large sample cup

Large sample cup for the spectral recording of powders and granulates in reflection at various sample positions using the NIRS DS2500 Analyzer.



6.7402.060 NIRS DS2500 large sample cup, 5 pcs.

Set of five large sample cups for the spectral measurement of powders and granulates in reflection using the NIRS DS2500 Analyzer.



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



6.7402.150 DS2500 lid for large sample cup

Lid for the large sample vessel for the DS2500 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.



6.7420.000 NIRS gold diffuse reflector, 1 mm total pathlength

Gold diffuse reflector for the transfection measurement of liquids. Can be used in combination with the following instruments:

- NIRS DS2500 Analyzer (order number: 2.922.0010)
- NIRS XDS MasterLab Analyzer (order number: 2.921.1310)
- NIRS XDS MultiVial Analyzer (order number: 2.921.1120)
- NIRS XDS RapidContent Analyzer (order number: 2.921.1110)
- NIRS XDS RapidContent Analyzer - Solids (order number: 2.921.1210)



6.7420.010 NIRS gold diffuse reflector, 2 mm total pathlength

Gold diffuse reflector for the transfection measurement of liquids. Can be used in combination with the following instruments:

- NIRS DS2500 Analyzer (order number: 2.922.0010)
- NIRS XDS MasterLab Analyzer (order number: 2.921.1310)
- NIRS XDS MultiVial Analyzer (order number: 2.921.1120)
- NIRS XDS RapidContent Analyzer (order number: 2.921.1110)
- NIRS XDS RapidContent Analyzer - Solids (order number: 2.921.1210)



6.7420.020 NIRS gold diffuse reflector, 4 mm total pathlength

Gold diffuse reflector for the transfection measurement of liquids. Can be used in combination with the following instruments:

- NIRS DS2500 Analyzer (order number: 2.922.0010)
- NIRS XDS MasterLab Analyzer (order number: 2.921.1310)
- NIRS XDS MultiVial Analyzer (order number: 2.921.1120)
- NIRS XDS RapidContent Analyzer (order number: 2.921.1110)
- NIRS XDS RapidContent Analyzer - Solids (order number: 2.921.1210)



6.7425.100 DS2500 Iris

The iris for the DS2500 with a variably adjustable diameter of up to 36 mm enables you to perform flexible reflection measurement investigations of samples in vials.

The iris for the DS2500 is used in the holder for small sample vessels.
Order number: 6.7430.040



6.7430.050 Spare lamp for NIRS DS2500

Spare lamp with 12.0 V and 35 W for NIRS DS2500 Analyzer



6.7430.060 Micro Fiber Cleaning Cloth

Cleaning cloth for monitors and optics.



6.7450.000 NIRS reflection standard, set of 2

Set of wavelength standard and 80% reflection standard for the calibration of an NIRS XDS MasterLab Analyzer, NIRS XDS RCA Analyzer, NIRS XDS MultiVial Analyzer, NIRS XDS SmartProbe Analyzer, NIRS XDS Interactance OptiProbe Analyzer and NIRS DS2500 Analyzer.



6.7450.010 NIRS reflection standard, set of 7

Set comprised of six reflection standards and one wavelength standard for the calibration of an NIRS XDS MasterLab Analyzer, NIRS XDS RCA Analyzer, NIRS XDS MultiVial Analyzer, NIRS XDS SmartProbe Analyzer, NIRS XDS Interactance OptiProbe Analyzer and NIRS DS2500 Analyzer in regulated environments.



6.7490.430 DS2500 Slurry Cup

The Slurry Cup is the ideal sample cup for analyzing high-viscosity substances with the DS2500. The positioning of pastes and creams in the Slurry Cup is made simple by its open design, which also permits rapid and effective cleaning.

In combination with the Liquid Kit (6.7400.010), clear viscous samples can also be investigated.



6.7490.440 DS2500 MultiSample Cup 15 mm

DS2500 MultiSample Cup for nine 15 mm vials.



6.7490.450 DS2500 MultiSample Cup 19 mm

DS2500 MultiSample Cup for eight 19 mm vials.



6.7490.460 DS2500 MultiSample Cup 22 mm

DS2500 MultiSample Cup for seven 22 mm vials.



6.7490.470 DS2500 MultiSample Cup 28 mm

DS2500 MultiSample Cup for six 28 mm vials.



6.7490.480

Lid for large sample cup (black)

Lid (black) for the large sample cup for the DS2500 Analyzer.

