DOUBLE BEAM
SPECTROPHOTOMETER

UV-42 SCAN
UV-52 SCAN

ADVANCED SPECTROPHOTOMETRIC ANALYSIS IN THE BIOLOGICAL, PHARMACEUTICAL, INDUSTRIAL AND FOOD SCIENCE FIELDS

FUNCTIONS

PHOTOMETRY
Measures Absorbance (Abs) Transmittance (%T) and Reflectance (%R)

MULTI Wavelength
Photometric measurement of up to 20 different wavelengths

TIME SCANNING
Measurement of change in photometric value over time

KINETIC
Measurement of change in Absorbance/ Transmittance or rate of change over time

QUANTITATIVE ANALYSIS
Create a curve to measure the concentration of an unknown sample

BIOLOGICAL METHODS
Measurement of the concentration of DNA/RNA and Protein

SPECTRUM SCAN
Obtaining spectra of Absorbance (Abs) or Transmittance (%T) in a desired wavelength range, for precise and accurate qualitative analysis

CUSTOM METHODS
Users can add calculation methods for special applications or specific studies, according to their needs

DOUBLE BEAM TECHNOLOGY:
precision, stability, white change detection and background noise reduction

FIXED BANDWIDTH 1 nm (UV-42 SCAN) – 5 selectable (UV-52 SCAN)

10,1" **LCD TOUCH SCREEN**, 1280 x 1280

DIFFERENT LEVELS OF CONNECTIVITY
(USB, Ethernet, HDMI, printer)

ONDA STUDIO GLP/GMP APPLICATION
compliant with FDA CFR 21 Part 11 (optional)

Different levels of user, traceability and **DATA PROTECTION**

Comprehensive and versatile range of **ACCESSORIES** (cuvette holders, Sipper/Peltier systems)

DATA SHEET

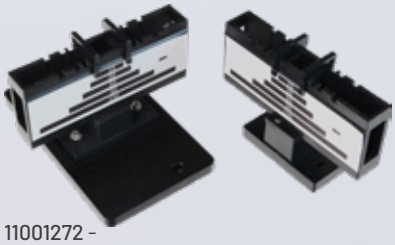
	UV-42 SCAN	UV-52 SCAN
Functions	Photometry, Quantitative, Multi WL, Spectrum Scan, Time Scan, Kinetic, DNA/Protein, Custom Methods, file and system Management, Performance Verification	
Wavelength accuracy	± 0,3 nm	
Wavelength repeatability	≤ 0,2 nm	
Wavelength resolution	0,1 nm	
Photometric range (%T)	0 - 400 %T	
Photometric range (Abs)	-4,0 - +4,0 Abs	
Concentration range	0 - 9999,9 Conc	
Photometric accuracy	± 0,002 Abs (0,0 - 0,5 Abs) ± 0,004 Abs (0,5 - 1,0 Abs) ± 0,3 %T (0,0 - 100,0 %T)	
Photometric repeatability	≤ 0,001 Abs (0,0 - 0,5 Abs) ≤ 0,002 Abs (0,5 - 1,0 Abs) ≤ 0,15 %T (0 - 100 %T)	
Photometric resolution	0,001	
Stray light	≤ 0,03 %T @ 220 e 360 nm	
Stability	≤ 0,0005 Abs/h @500 nm, after 2 hours of warm-up	
Noise	≤ 0,0002 Abs (a 0,0 Abs) @ 500 nm ≤ 0,0004 Abs (a 1,0 Abs) @ 500 nm ≤ 0,0008 Abs (a 2,0 Abs) @ 500 nm	
Drift Baseline	± 0,0005 Abs	
Rotation speed	6000 nm/min	
Scanning speed	20 - 3200 nm/min	
Optical system	Double beam	
Measuring range (UV/Visible)	190 - 1100 nm	
Bandwidth	1	0,5 - 1 - 2 - 4 - 5 nm, selectable
Sources	Tungsten-Halogen / Deuterium	
Detector	Silicon Photodiodes	
Display	color LCD touch screen 10.1", 1280 x 1280	
Connection	USB-A / USB-B / RS-232 / Ethernet	
Memory	64 GB (internal) expandable with USB stick and SD card	
Languages	IT - EN - CHN - ESP - DEU - FRA - POR - RUS	
Standard cell support	1 Fixed position, cuvettes o.p. 10 mm	
Performance verification	Yes	
Power supply	100 - 240 V	
Frequency	50/60 Hz	
Wattage	140 W	
Dimensions (L xPxA)	456 x 420 x 235 mm	
Weight	17,0 Kg	18,0 Kg
P/N	**11000102**	**11000112**

SUPPORTS and ACCESSORIES

11000232	Support for microcells (beam height: 15 mm)
11000412	Supp. for 5° reflectance measurements (20x20x4mm)
11001102	Support for 4 cuvettes optical path up to 100 mm
11001112	Supp. 1 position "water-jacketed" 10 mm
11001132	"Sled" for 4-position cuvette support
11001142	ONDA Studio GLP/GMP Software
11001162	Cuvette adapter optical path 1-3 mm
11001202	Support for 4 cuvettes, optical path up to 50 mm
11001212	Supp. 1 position for solid samples
11001222	AUTOMATIC support 5 positions, o.p. up to 100 mm
11001232	AUTOMATIC support 8 positions, o.p. 10 mm
11001242	Sipper System A-1100
11001252	Sipper System A-1200
11001262	Sipper/Peltier Combo System A-1000
11001272	Supp. 1 position, o.p. up to 100 mm

11001222 -
AUTOMATIC SUPPORT **5 POSITIONS**, O.P. UP TO 100 MM

11001232 -
AUTOMATIC SUPPORT **8 POSITIONS**, O.P. 10 MM



11001272 -
SUPPORT **1 POSITION**, O.P. UP TO 100 MM

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