

ONDA

DOUBLE BEAM SPECTROPHOTOMETER

UV-42 UV-52

SCAN
SCAN

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

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)

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	$\pm 0,3$ nm	
Wavelength repeatability	$\leq 0,2$ 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	$\pm 0,002$ Abs(0,0 - 0,5 Abs) $\pm 0,004$ Abs(0,5 - 1,0 Abs) $\pm 0,3$ %T(0,0 - 100,0 %T)	
Photometric repeatability	$\leq 0,001$ Abs(0,0 - 0,5 Abs) $\leq 0,002$ Abs(0,5 - 1,0 Abs) $\leq 0,15$ %T(0 - 100 %T)	
Photometric resolution	0,001	
Stray light	$\leq 0,03$ %T @ 220 e 360 nm	
Stability	$\leq 0,0005$ Abs/h @500 nm, after 2 hours of warm-up	
Noise	$\leq 0,0002$ Abs(a 0,0 Abs) @ 500 nm $\leq 0,0004$ Abs(a 1,0 Abs) @ 500 nm $\leq 0,0008$ Abs(a 2,0 Abs) @ 500 nm	
Drift Baseline	$\pm 0,0005$ 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

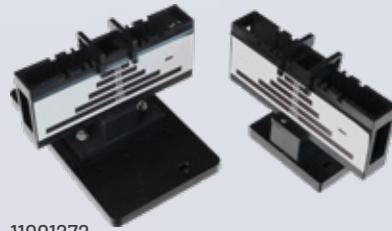
11000232	Support for microcells (beam height: 15 mm)
11000412	Supp. for 5° reflectance measurements (20x20x4mm)
11001102	Support for 4 cuvettes optical path up to 100 mm
11001112	Supp. 1 position "water-jacketed" 10 mm
11001132	"Sled" for 4-position cuvette support
11001142	ONDA Studio GLP/GMP Software
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



WARRANTY
2
YEARS

GUARANTEED BY

