

VIS AND UV/VIS SPECTROPHOTOMETERS



ANALYTICAL INSTRUMENTS

New generation of VIS and UV/Vis spectrophotometers color touch screen display, spectrum scan on-board¹, USB flash drive recovery

PASSION - EXPERIENCE - PERFORMANCE - COMFORT - CONVENIENCE



Smart design

A modern design, simple, compact, with all the most common features available directly on the interface. ONDA Touch Series is the perfect instrument for your lab bench top in term of space and solidity



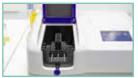
Touchscreen

A 5" TFT high definition color display for a new level of experience Easy interface, build-in features (photometry, quantitation, spectrum scan¹) In addition to File management, System Utility and Performance verification



Connectivity and Storage

USB Flash drive connection for data and methods recovery PC remote control², RS-232 port for micro printer connection, Internal memory to save your methods and data



Easy access, easy maintenance

Removable front panel, anticorrosive material holder, leaky hole inside sample compartment: all designed to protect the instrument from accidental spills, time wear and damage



Lamp room

Removing the top panel for easier and faster access to the source compartment, allows directly control, check of alignment and lamp replacement



Multi language

Select the language of your preference and improve your experience with Onda Touch instruments English, German, Spanish, French, Italian, Portuguese

Spectrum feature available only on SCAN models ² optional software required



Brewery



Process water



Waste water



Bacterial cell number





Food&Beverage



Sugar industry

Bottled water



THE NEXT GENERATION OF VIS AND UV/VIS SPECTROPHOTOMETERS

New User Interface

With the new user interface the ONDA Touch series spectrophotometers are ideal for laboratory routine guality control, excellent for applications in education. Work with these innovative instruments as with your smartphone or tablet and enjoy the intuitive, icon-based menu.





Photometry Basic photometric measure: Absorbance Transmittance Energy



Quantitation Creation of calibration curve from standard solutions Comfortable calibration of customized methods



File Management

Save, delete or copy data and methods on internal memory and USB flash drive. Import/export to CSV and TXT files



System utility System calibration, lamp management, date/ time, memory, multi-language



Spectrum Scans¹ High-precision live scans

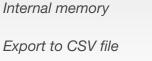
Analysis and automatic peak detection



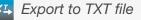
Performance verification

Regularly check the instrument functionality for the quality assurance of your results









Calibration Curve





Calibration Report

All Onda Spectrophotometers are supplied with a Calibration Report executed according to ISO 17025 requirements, for measuring with traceability.

On the **Calibration Report** are reported:

- Wavelength accuracy
- Photometric accuracy •
- Stray light test
- Measurement uncertainty
- Traceability statement

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UV-31 SCAN

UV/Visible Spectrophotometer 190 – 1100 nm 2 nm bandwidth Scan speed 4200nm/min





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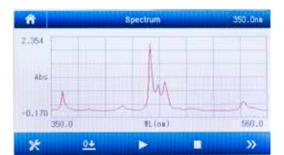
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Abs

UV-31 Scan is the complete scanning UV-Vis spectrophotometer, ideal for high level educational, the best choice in precision for your qualitative and quantitative analysis. High level of accuracy for sensible detections.

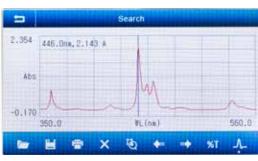
- Low level of stray light for high linearity performance
- Photometry, quantitation, spectrum scan
- Self-calibration system at each switching on
- Preheating countdown
- USB flash drive for data and methods recovery





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Spectrum scan and detection of peaks

Part No.	Description
11000082	ONDA TOUCH UV-31 SCAN Spectrophotometer, TOUCH SCREEN color display , range 190 - 1100 nm, bandwi- dth 2 nm, single beam, flash memory USB port, multilanguage OS. Functions: photometric, quantitation, SPECTRUM scan, file management. Including 4 optical glass cells, 2 quarz cells , 10mm 4-cell holder, power cable, dust cover, USB flash drive and Calibration Report



V-11 SCAN

Visible Spectrophotometer 320 – 1100 nm 4 nm bandwidth Scan speed 4200nm/min





V-11 Scan is the scanning Visible spectrophotometer, ideal for high level colorimetric analysis, quantitative detections and qualitative control in the visible range.

- Photometry, quantitation, spectrum scan
- Self-calibration system at each switching on
- Preheating countdown
- USB flash drive for data and methods recovery









Easy calibration with the online instructions

Part No.	Description
11000062	ONDA TOUCH V-11 SCAN Spectrophotometer, TOUCH SCREEN color display , range 320 - 1100 nm, bandwidth 4 nm, single beam, flash memory USB port, multilanguage OS. Functions: photometric, quantitation, SPECTRUM <i>scan</i> , file management. Including 4 optical glass cells , 10mm 4-cell holder, power cable, dust cover, USB flash drive and Calibration Report



UV-21

UV/Visible Spectrophotometer 195 – 1050 nm 4 nm bandwidth





UV-21 is the UV-Vis spectrophotometer, ideal for routine analysis and quantitative detections. The functionality of *basic photometry* and *quantitation* make it the perfect instruments for fast and accurate analysis in many application fields.



Part No.	Description
11000072	ONDA TOUCH UV-21 Spectrophotometer, TOUCH SCREEN color display , range 195 - 1050 nm, bandwidth 4 nm, single beam, flash memory USB port, multilanguage OS. Functions: photometric, quantitation, file management. Including <i>4 optical glass cells, 2 quarz cells,</i> 10mm 4-cell holder, power cable, dust cover, USB flash drive and <i>Calibration Report</i>



Visible Spectrophotometer 325 – 1000 nm 4 nm bandwidth



V-10 Plus



V-10 Plus is the Visible spectrophotometer for colorimetric application and routine measurements, widely used in basic photometry, *OD600* in microbiological application and wine color analysis. Solid design and high quality components ensures excellent performance.

ONDA V-10 Plus is supplied with **Basic Software for PC** (Windows based OS) for the remote control of the device; the application range is expanded to **kinetic** measurement, improving data analysis and file management. In combination with the optional **ONDA ProWine Color Software for PC** it is the best aid for fast and accurate color analysis of wine **(Chromatic Characteristics OIV-MA-AS2-07B)**

Part No.	Description
11000052	ONDA V-10 Plus Spectrophotometer, including: 4 optical glass cells, 4-position cell holder, power cable with EU plug, Basic PC software, dust cover, Calibration Report

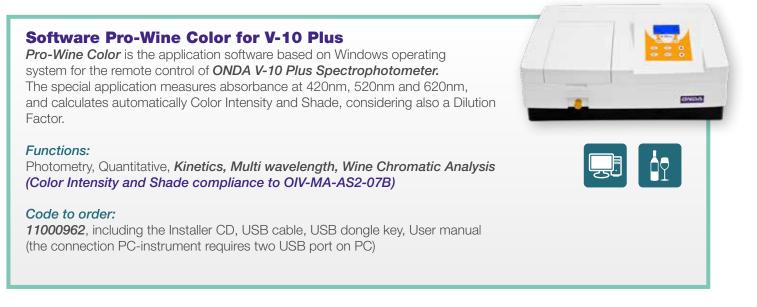
Cuvettes

Optical glass 335 – 2500 nm						
Path length (mm)	1	10	20	30	50	100
External dimension WxLxH (mm)	12.5x3.5x45	12.5x12.5x45	12.5x22.5x45	12.5x32.5x45	12.5x52.5x45	12.5x102.5x45
Volume (ml)	0.4	3.5	7.0	10.5	17.5	35.0
Polished windows	2	2	2	2	2	2
Teflon lid	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
Number of cells	2	4	4	4	4	4
Part number	11000382	11000252	11000262	11000272	11000282	11000292

Quartz 190 – 2700 nm						
Path length (mm)	1	10	20	30	50	100
External dimension WxLxH (mm)	12.5x3.5x45	12.5x12.5x45	12.5x22.5x45	12.5x32.5x45	12.5x52.5x45	12.5x102.5x45
Volume (ml)	0.4	3.5	7.0	10.5	17.5	35.0
Polished windows	2	2	2	2	2	2
Teflon lid	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
Number of cells	1	2	2	2	2	2
Part number	11000522	11000302	11000312	11000322	11000332	11000342

Special cells						
Path length (mm)	10	10	10	10	10	10
External dimension WxLxH (mm)	12.5x12.5x45	12.5x12.5x45	12.5x12.5x45	12.5x12.5x45	12.5x12.5x45	12.5x12.5x45
Beam height (mm)	15	15	15	15	15	15
Volume (µl)	100	200	500	1000 (1ml)	700	700
Material	Quartz	Quartz	Quartz	Quartz	Optical glass	Quartz
Range (nm)	190 -2700	190 -2700	190 -2700	190 -2700	335 -2500	190 -2700
Flowing flux	_	_	_	_	\checkmark	\checkmark
Polished windows	2	2	2	2	2	2
Teflon lid	\checkmark	\checkmark	\checkmark	\checkmark	_	_
Number of cells	1	1	1	1	1	1
Part number	11000352	11000362	11000372	11000392	11000492	11000502

In the following pages useful guide for choice of holder and accessories suitable for your spectrophotometer is provided.



	4 position for up to 50mm path	4 position for up to 100mm path	Single micro cell, 10mm path	Single test tube ø 8-24mm (max height 110mm)	5° Reflectance measurement	Solid sample (50x30x2mm)	8 position, automatic, 10mm path	5 position automatic Up to 100mm path	Test tube ø 16 mm
	T		and the second s						-
UV-31 SCAN									
	\checkmark	\checkmark	\checkmark	-	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
UV-21									
	\checkmark	\checkmark	\checkmark	-	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
V-11 SCAN									
2.	\checkmark	\checkmark	\checkmark	-	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
V-10 PLUS	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	-	_	-
Part number	11000212	11000222	11000232	11000402	11000412	11000422	11000242	11000432	11000532

8

Software Easy UV for ONDA TOUCH Series

Easy UV is the application software based on Windows operating system for the remote control of **ONDA Touch Series instruments.** The application range, data analysis and file management function are greatly expanded, for example to clinical application (hemoglobin oxygen saturation) and basic biotechnology research (range DNA 0.2-70 µg/ml).

Functions:

Photometry, Quantitative, *Kinetics, Multi wavelength,* Spectrum scan, *DNA/ protein* (UV methods)

Code to order:

11000972, including the Installer CD, USB cable, USB dongle key, User manual (the connection PC-instrument requires two USB port on PC)

A-101 Sipper (flowing system)	A-102 Peltier (Thermostatic system)	A-100 Sipper/ Peltier (Thermostat flowing	Micro Printer (normal paper)	Thermal Printer	PC Software Pro-Wine Color	PC Software ONDA Touch Easy UV	IQ-OQ Paper Manual	Tungsten- Halogen Iamp (VIS)	Deuterium Iamp (UV)
<u> </u>		system)	6143					-	
\checkmark	\checkmark	\checkmark	\checkmark	-	_	\checkmark	\checkmark	\checkmark	\checkmark
\checkmark	\checkmark	\checkmark	\checkmark	_	_	\checkmark	\checkmark	\checkmark	\checkmark
\checkmark	\checkmark	\checkmark	\checkmark	-	_	\checkmark	\checkmark	\checkmark	-
\checkmark	-	-	_	\checkmark	\checkmark	_	\checkmark	\checkmark	-
11000462	11000472	11000482	11000442	11000452	11000962	11000972	11000192	11000912	11000922

In the following pages useful guide for choice of the appropriate holder suitable for different applications.

		4 position for up to 10mm path (standard)	4 position for up to 50mm path	4 position for up to 100mm path	Single micro cell, 10mm path
				•	
1mm path, 12.5x3.5x45mm		\checkmark	_	_	-
10mm path, 12.5x12.5x45mm		\checkmark	\checkmark	\checkmark	-
20mm path, 12.5x22.5x45mm		_	\checkmark	\checkmark	-
30mm path, 12.5x32.5x45mm		-	\checkmark	\checkmark	-
50mm path, 12.5x52.5x45mm		-	\checkmark	\checkmark	-
100mm path, 12.5x102.5x45mm		-	-	\checkmark	-
Test tube ø16mm, 90mm height	₽• ■	-	-	-	-
Solid sample 50x30x2mm		-	-	-	-
Solid sample 20x20x4mm		_	-	_	-
Micro-cell 12.5x12.5x45mm		-	-	-	\checkmark
Flow-cell 12.5x12.5x45mm		_	_	_	\checkmark
Part Number		11000202	11000212	11000222	11000232

 Single test tube ø 8-24mm (max height 110mm)	Test tube ø 16 mm	5° Reflectance attachement	Solid sample (50x30x2mm	8 position, auto- matic, 10mm path	5 position, automatic, up to 100mm path
	٠				
-	-	-	-	\checkmark	-
-	_	-	_	\checkmark	\checkmark
-	-	-	-	-	\checkmark
-	-	-	-	-	\checkmark
-	-	-	-	-	\checkmark
-	-	-	-	-	\checkmark
\checkmark	\checkmark	-	-	-	-
-	-	-	\checkmark	-	-
-	_	\checkmark	-	-	-
-	-	-	-	_	-
_	_	_	-	-	_
11000402	11000532	11000412	11000422	11000242	11000432

Technical Specification	UV-31 SCAN	UV-21	V-11 SCAN	V-10 PLUS	
Spectrophotometer	UV-VIS			VIS	
Optical system	Single beam				
Light source	Tungsten-Halogen / Deuterium Lamps Tungste			ten-Halogen	
Detector	Silicon photodiode				
Spectral bandwidth (nm)	2	4	4	4	
Wavelenght range (nm)	190 - 1100	195 – 1050	320 – 1100	325 - 1000	
Wavelenght accuracy (nm)	±0.8	±1.0	±1.0	±2	
Wavelenght repeatability (nm)	±0.2	±0.4	±0.2	±0.8	
Wavelenght resolution (nm)	0.1	0.1	0.1	0.1	
Photometric range	-0.3 to 3 Abs / 0 to 200 %T / 0 to 9999.9 Conc				
Photometric accuracy	±0.5 %T at 0 – 100 %T				
Photometric repeatability	±0.2 %T at 0 – 100 %T ±0.3 %T at 0 – 100 %			±0.3 %T at 0 – 100 %T	
Photometric resolution (Abs)	0.001				
Stability	±0.002 Abs/hr (at 500nm after 2hours warmup)				
Stray light	<0.1 %T	<0.2 %T	<0.1 %T	<0.3 %T	
Display	5 inches color touchscreen display, fixed, 480x272 px			LCD display 128x64 px	
Keypad	touchscreen			Membrane keypad	
Standard cell holder	4 positions,10mm path square cells, manual holder				
Sample compartment	Accessible from top and front			Accessible from top	
Basic photometry	\checkmark	\checkmark	\checkmark	\checkmark	
Quantitation	\checkmark	\checkmark	\checkmark	\checkmark	
Spectrum scan	\checkmark	-	\checkmark	-	
File management	\checkmark	\checkmark	\checkmark	-	
System management	\checkmark	\checkmark	\checkmark	-	
Performance verification	\checkmark	\checkmark	\checkmark	-	
Connectivity	USB-A (flash drive) USB-B (PC connection) ¹ RS-232 (printer) ²			USB-B (PC connection) Serial port (printer) ²	
Memory	236 kB (internal memory) expandable with USB flash drive ³			200 raw of data	
Languages	English, Spanish, French, German, Italian, Portuguese			English	
Dimensions WxDxH (mm)	456 x 360 x 185			490 x 360 x 210	
Weigth (kg)	10.7 10.5		12		
Power supply	100 – 240 V AC, 50/60 Hz				
Power consumption (W)	120 75				
Warranty		2 years ⁴			
Part number	11000082	11000072	11000062	11000052	

¹ Optional PC software required

² Optional thermal printer required

³ USB flash drive included with ONDA Touch series

⁴ On electronic and optical part (light source excluded)

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