# 3-in-1 Spectrophotometer

# Compact, Versatile and Efficient



### Measurement versatility

Conventional spectrophotometry, color measurements, and water analyses can be performed using one instrument. This saves bench space and reduces your investment in equipment and service. Exchangeable XPathHolders™ allow you to shift quickly between seven different path lengths to suit a wide application and concentration range.



EasyPlus UV/VIS



## **Efficient accuracy**

Data management

Photometric data is automatically calculated using pre-programmed methods so you obtain results quickly (e.g. concentration or tristimulus values). Methods that are compliant to standards such as ASTM, DIN, ISO, and EPA eliminate the need for post-measurement calculation and data transcription to achieve accurate results efficiently.

# You

Your basic, compact all-rounders



Data acquisition, storage, and display are efficiently performed by EasyDirect™ UV/VIS PC software. Result data can also be automatically exported to a memory stick or integrated into an external centralized data management system (e.g. LIMS).

Easy UV and Easy VIS instruments both offer 3-in-1 functionality and are designed to greatly facilitate routine spectroscopic workflows. The instruments are simple and easy-to-use and assure accurate, repeatable measurements. Built-in methods also eliminate calculation and transcription errors. These versatile instruments help you:

# MOTHER TOLEDO

## Verified, up-to-date methods

Software updates, competent application support, and verified methods allow you to update the instrument to support new analytical needs. EasyDirect™ customers receive an automated notification when a new update is available for download.

- Save space. The compact design similiar to an A4 paper reduces clutter on your lab bench
- Enjoy fast, compliant color measurement. Includes 30 color scales (e.g. CIELAB, APHA, Gardner, etc.)
- Avoid errors. PathDetect<sup>™</sup> securely checks the path length so your results are accurate
- Test water quickly. The SQKitReader<sup>™</sup> accessory unlocks over 150 Spectroquant<sup>®</sup> water test kit methods
- Access methods easily. Built-in features such as a favorite list and LongClick™ speed up routine analyses
- Clean up quickly thanks to a washable drip tray



The intuitive user interface with workflow guidance and integrated tutorials allow you to simply plug-and-measure.

Additional functions such as closing the SmartLid™ to automatically start the measurement, increase productivity, and avoid time-consuming task repetition.





# **Technical Specifications and Functionalities**

Mode	EasyPlus UV/VIS		Easy UV	Easy VIS
Detail System   Dual silicon photodiodes   Dual beam with reference defector   Dual beam with reference defector   Spectral bandwidth (SBW) [mm]   3 3 4   4	Model		UV/Vis	Vis
Dual beam with reference detector	Light source		Xenon flash lamp	Tungsten lamp
Spectrol bandwidth (GSMV) [rm]	Detector		Dual silicon photodiodes	
Photometric display range [A]	Optical system		Dual beam with reference detector	
Photometric accuracy [A]	Spectral bandwidth (SBW) [nm]		3	4
Photometric accuracy [A]   at 1.0 A   ± 0.005   ± 0.005     ct 12.0 A   ± 0.005   ± 0.001     Photometric repealability at 1 A (neutral density filler) [A]   ≤ 0.001     Wavelength range [m]   190 - 1,000   330 - 1,000     Wavelength range [m]   190 - 1,000   330 - 1,000     Wavelength accuracy (holmium oxide) [mm]   ± 1.5     Wavelength accuracy (holmium oxide) [mm]   ≤ 0.5   −	Photometric display range [A]		-3.0 +5.0	
Photometric accuracy (A)		at 0.5 A	± 0.002	
dr 2.0 A	Photometric accuracy [A]	at 1.0 A	± 0.005	
Photometric repeatability at 1 A (neutral density filler) [A]		at 2.0 A	± 0.005	
Vavelength range [nm]   190-1,000   330		at 2.5 A	± 0.010	
Wavelength accuracy (nolmium oxide) [nm]         ± 1.5           Wavelength repeatability (nolmium oxide) [nm]         ≤ 0.5           Applications and methods and methods and methods and method upgrade         ≤ 0.1         ≤ 0.1           Stray light [%T]         at 340 nm (sodium nitrite)         ≤ 0.5         −           Scanning speed [nm/min]         mox 2,000         mox 2,800           Noise [A]         at 1 A         ≤ 0.002           Applications and methods [A]         ± 0.002           Baseline flatness [A]         ± 0.003           Applications and methods in flovorite ist         80           Number of user-defined methods in flovorite ist         10           Firmware and method upgrade         Free and available on METILER TOLEDO website           Automatic path length detection         Enabled           PC software <sup>30</sup> Automatic export to USB (csv file)         Enabled           Cuvefte dimensions supported by the XPathHolders**         10, 16, 20, 30, 40, 50 mm and 1 inch           Display         4.3* capacitive touchscreen           Curefte dimensions supported by the XPathHolders**         10, 16, 20, 30, 40, 50 mm and 1 inch           Languages         10 1, 12 (Sply)Tieder** PC software)           Enabled         10 1, 12 (Sply)Tieder** PC software)           USB-A         × 3	Photometric repeatability at 1 A (neutral density filter) [A]			
Variable (Variable (Var	, , , , , , , , , , , , , , , , , , , ,		190–1,000	330–1,000
Stray light [%T]			± 1.5	
Stray light [%T]         at 220 nm (sodium iodide) at 198 nm (potassium chloride)         ≤ 0.5         −           Scanning speed [nm/min]         at 0 A         ≤ 0.001         max 2,000         max 2,800           Noise [A]         at 1 A         ≤ 0.002         √         √         √         √         √         √         √         √         √         √         √         √         √         √         ✓	Wavelength repeatability (holmium oxide)	[nm]	≤ 0.5	
Sconning speed [nm/min]		at 340 nm (sodium nitrite)	≤ 0.1	≤ 0.1
Scanning speed [nm/min]	Stray light [%T]	at 220 nm (sodium iodide)	≤ 0.5	_
Noise [A]		at 198 nm (potassium chloride)	≤ 2.5	-
Noise [A]         at 1 A a c 0.002           Orift [A/h]         ≤ 0.004           Busine flatness [A]         ± 0.003           Applications and methods         80           Applications and methods of user-defined methods in favoritle list         80           Number of user-defined methods in favoritle list         10           Firmware and method upgrade         Free and available on METILER TOLEDO websitle           Automatic path length detection         Enabled           PC software ³)         Enabled           Result         Automatic export to USB (.csv file)         Enabled           Cuvette dimensions supported by the XPathHolders**         10, 16, 20, 30, 40, 50 mm and 1 inch           Display         4.3" capacitive touchscreen           Connectivity         4.3" capacitive touchscreen           USB-A         × 3 (keyboard, mouse, barcode reader, printer)           USB-B         × 1 (EasyDirect** PC software)           Poor pop Pin         × 1 (SQKiffReader** for water testing methods)           Bushas a Indonesia, Chinese, English, French, German, Italian, Japanese, Korean, Polish, Portuguses, Spanish, Thai, Turkish           Dimensions (width × depth × height mm)         201 × 362 × 176 (7.9 × 14.2 × 6.9 inches)           Weight (kg)         4.25	Scanning speed [nm/min]		max 2,000	max 2,800
Drift [A/h]   Saseline flatness [A]   \$0.002     Applications and methods   Built-in color scales (e.g. CIELAB)   30   25     Spectroquant® 1) Water Testing Methods 2)   Covers all test kits (>150 methods)     Number of user-defined methods in favorite list   10     Firmware and method upgrade   Free and available on METTLER TOLEDO website     Automatic path length detection   Easybirect w UV/VIS     Result   Automatic export to USB (csv file)   Enabled     Cuverte dimensions supported by the XPathHolders   10, 16, 20, 30, 40, 50 mm and 1 inch     Display   USB-A   3 (keyboard, mouse, barcade reader, printer)     USB-B   X 1 (EasyDirect or water testing methods)     Languages   Driven (and the sport to Water testing methods)     Dimensions (width x depth x height mm)   201 x 362 x 176 (7.9 x 14.2 x 6.9 inches)     Weight (kg)   4.25		at O A	≤ 0.001	
Drift [A/h]   Square   Squar	Noise [A]	at 1 A	≤ 0.002	
Baseline flatness [A]		at 2 A	≤ 0.004	
Applications and methods    Max. user-defined methods   Built-in color scales (e.g. CIELAB)   30   25	Drift [A/h]		≤ 0.002	
Builf-in color scales (e.g. CIELAB)   30   25     Spectroquant® 1) Water Testing Methods 2   Covers all test kits (>150 methods)   Number of user-defined methods in favorite list   10     Fireware and method upgrade   Free and available on METTLER TOLEDO website     Automatic path length detection   Enabled     PC software 3)   EasyDirect™ UV/VIS     Result   Automatic export to USB (.csv file)   Enabled     Automatic export to EasyDirect (xml file)   Enabled     Cuvette dimensions supported by the XPathHolders™   10, 16, 20, 30, 40, 50 mm and 1 inch     Display   4.3° capacitive touchscreen     Connectivity   USB-A   × 3 (keyboard, mouse, barcode reader, printer)     USB-B   × 1 (EasyDirect™ PC software)     Pogo Pin   × 1 (SQKiffReader™ for water testing methods)     Languages   Bahasa Indonesia, Chinese, English, French, German, Italian, Japanese, Korean, Polish, Portuguese, Spanish, Thai, Turkish     Dimensions (width × depth × height mm)   201 × 362 × 176 (7.9 × 14.2 × 6.9 inches)     Weight (kg)   4.25	Baseline flatness [A]		± 0.003	
Spectroquant® 1) Water Testing Methods 2) Covers all test kits (>150 methods)   Number of user-defined methods in favorite list   10     Firmware and method upgrade   Free and available on METTLER TOLEDO website     Automatic path length detection   Enabled     PC software 3)   EasyDirect** UV/VIS     Result   Automatic export to USB (.csv file)   Enabled     Automatic export to EasyDirect (.xml file)   Enabled     Cuvette dimensions supported by the XPathHolders**   10, 16, 20, 30, 40, 50 mm and 1 inch     Display   4.3" capacitive touchscreen     Connectivity   USB-A   × 3 (keyboard, mouse, barcode reader, printer)     Connectivity   USB-B   × 1 (EasyDirect** PC software)     Pogo Pin   × 1 (SQKifReader** for water testing methods)     Languages   Bahasa Indonesia, Chinese, English, French, German, Italian, Japanese, Korean, Polish, Portuguese, Spanish, Thai, Turkish     Dimensions (width × depth × height mm)   201 × 362 × 176 (7.9 × 14.2 × 6.9 inches)     Weight (kg)   4.25		Max. user-defined methods	80	
Number of user-defined methods in favorite list Firmware and method upgrade  Automatic path length detection PC software ³)  Result  Automatic export to USB (.csv file) Automatic export to EasyDirect (xml file) Enabled  Cuvette dimensions supported by the XPathHolders™  Cunettivity  USB-A  USB-A  V 3 (keyboard, mouse, barcode reader, printer)  USB-B  V 1 (EasyDirect™ PC software) Pogo Pin  X 1 (SQKiffReader™ for water testing methods)  Bahasa Indonesia, Chinese, English, French, German, Italian, Japanese, Korean, Polish, Portuguese, Spanish, Thai, Turkish  Dimensions (width × depth × height mm)  Weight (kg)  Free and available on METTLER TOLEDO website Free and available on METTLER TOLEDO vebsite Free and available on METTLER TOLEDO Free and available on METTLER Tolegatom Free and available on METLER Tolegatom Free and available on METLER Tolegatom Free and available on METLE	Applications and methods		30	25
Firmware and method upgrade  Automatic path length detection  PC software ③  Result  Automatic export to USB (.csv file) Automatic export to EasyDirect (.xml file)  Cuvette dimensions supported by the XPathHolders™  10, 16, 20, 30, 40, 50 mm and 1 inch  Display  4.3" capacitive touchscreen  USB-A  V 3 (keyboard, mouse, barcode reader, printer)  USB-B  Pogo Pin  X 1 (SQKitReader™ for water testing methods)  Bahasa Indonesia, Chinese, English, French, German, Italian, Japanese, Korean, Polish, Portuguese, Spanish, Thai, Turkish  Dimensions (width × depth × height mm)  Weight (kg)  Free and available on METTLER TOLEDO website  Enabled  Enabled  10, 16, 20, 30, 40, 50 mm and 1 inch  10, 16, 20, 30, 40, 50 mm a		Spectroquant® 1) Water Testing Methods 2)	Covers all test kits (>150 methods)	
Automatic path length detection  PC software 3)  Result  Automatic export to USB (.csv file) Automatic export to EasyDirect (.xml file)  Enabled  Cuvette dimensions supported by the XPathHolders 10, 16, 20, 30, 40, 50 mm and 1 inch  Display  4.3" capacitive touchscreen  USB-A  V 3 (keyboard, mouse, barcode reader, printer)  USB-B  V 1 (EasyDirect PC software)  Pogo Pin  X 1 (SQKitReader for water testing methods)  Bahasa Indonesia, Chinese, English, French, German, Italian, Japanese, Korean, Polish, Portuguese, Spanish, Thai, Turkish  Dimensions (width × depth × height mm)  Weight (kg)  4.25	Number of user-defined methods in favorite list		10	
PC software <sup>3)</sup> Result  Automatic export to USB (.csv file) Automatic export to EasyDirect (.xml file)  Cuvette dimensions supported by the XPathHolders™  Cuvette dimensions supported by the XPathHolders™  Display  4.3" capacitive touchscreen  USB-A  × 3 (keyboard, mouse, barcode reader, printer)  USB-B  × 1 (EasyDirect™ PC software)  Pogo Pin  x 1 (SQKitReader™ for water testing methods)  Languages  Bahasa Indonesia, Chinese, English, French, German, Italian, Japanese, Korean, Polish, Portuguese, Spanish, Thai, Turkish  Dimensions (width × depth × height mm)  Weight (kg)  4.25	Firmware and method upgrade		Free and available on METTLER TOLEDO website	
Result       Automatic export to USB (.csv file)       Enabled         Cuvette dimensions supported by the XPathHolders™       10, 16, 20, 30, 40, 50 mm and 1 inch         Display       4.3" capacitive touchscreen         Connectivity       USB-A       × 3 (keyboard, mouse, barcode reader, printer)         USB-B       × 1 (EasyDirect™ PC software)         Pogo Pin       × 1 (SQKitlReader™ for water testing methods)         Languages       Bahasa Indonesia, Chinese, English, French, German, Italian, Japanese, Korean, Polish, Portuguese, Spanish, Thai, Turkish         Dimensions (width × depth × height mm)       201 × 362 × 176 (7.9 × 14.2 × 6.9 inches)         Weight (kg)       4.25	Automatic path length detection		Enabled	
Automatic export to EasyDirect (xml file)  Cuvette dimensions supported by the XPathHolders™  Cuvette dimensions supported by the XPathHolders™  10, 16, 20, 30, 40, 50 mm and 1 inch  4.3" capacitive touchscreen  USB-A  × 3 (keyboard, mouse, barcode reader, printer)  USB-B  × 1 (EasyDirect™ PC software)  Pogo Pin  × 1 (SQKitReader™ for water testing methods)  Bahasa Indonesia, Chinese, English, French, German, Italian, Japanese, Korean, Polish, Portuguese, Spanish, Thoi, Turkish  Dimensions (width × depth × height mm)  Weight (kg)  4.25	PC software 3)		EasyDirect™ UV/VIS	
Automatic export to EasyDirect (xml file)   Enabled	Result	Automatic export to USB (.csv file)	Enabled	
Display 4.3" capacitive touchscreen  WSB-A × 3 (keyboard, mouse, barcode reader, printer)  USB-B × 1 (EasyDirect <sup>TM</sup> PC software)  Pogo Pin × 1 (SQKitReader <sup>TM</sup> for water testing methods)  Languages  Bahasa Indonesia, Chinese, English, French, German, Italian, Japanese, Korean, Polish, Portuguese, Spanish, Thai, Turkish  Dimensions (width × depth × height mm)  Weight (kg)  4.3" capacitive touchscreen  × 3 (keyboard, mouse, barcode reader, printer)  × 1 (EasyDirect <sup>TM</sup> PC software)  × 1 (SQKitReader <sup>TM</sup> for water testing methods)  8 Bahasa Indonesia, Chinese, English, French, German, Italian, Japanese, Korean, Polish, Portuguese, Spanish, Thai, Turkish  4.25		Automatic export to EasyDirect (.xml file)	Enabled	
USB-A × 3 (keyboard, mouse, barcode reader, printer)  VSB-B × 1 (EasyDirect™ PC software)  Pogo Pin × 1 (SQKitReader™ for water testing methods)  Languages  Bahasa Indonesia, Chinese, English, French, German, Italian, Japanese, Korean, Polish, Portuguese, Spanish, Thai, Turkish  Dimensions (width × depth × height mm)  Weight (kg)  4.25	Cuvette dimensions supported by the XPathHolders™		10, 16, 20, 30, 40, 50 mm and 1 inch	
Connectivity  USB-B Pogo Pin  × 1 (EasyDirect™ PC software) × 1 (SQKitReader™ for water testing methods)  Languages  Bahasa Indonesia, Chinese, English, French, German, Italian, Japanese, Korean, Polish, Portuguese, Spanish, Thai, Turkish  Dimensions (width × depth × height mm)  Weight (kg)  4.25	Display		4.3" capacitive touchscreen	
Pogo Pin × 1 (SQKitReader™ for water testing methods)  Languages Bahasa Indonesia, Chinese, English, French, German, Italian, Japanese, Korean, Polish, Portuguese, Spanish, Thai, Turkish  Dimensions (width × depth × height mm) 201 × 362 × 176 (7.9 × 14.2 × 6.9 inches)  Weight (kg) 4.25	Connectivity	USB-A	× 3 (keyboard, mouse, barcode reader, printer)	
LanguagesBahasa Indonesia, Chinese, English, French, German, Italian, Japanese, Korean, Polish, Portuguese, Spanish, Thai, TurkishDimensions (width x depth x height mm) $201 \times 362 \times 176 \ (7.9 \times 14.2 \times 6.9 \ inches)$ Weight (kg) $4.25$		USB-B		
Portuguese, Spanish, Thai, Turkish  Dimensions (width × depth × height mm)  Weight (kg)  Portuguese, Spanish, Thai, Turkish  201 × 362 × 176 (7.9 × 14.2 × 6.9 inches)  4.25		Pogo Pin	× 1 (SQKitReader™ for water testing methods)	
Weight (kg) 4.25	Languages		Portuguese, Spanish, Thai, Turkish	
	Dimensions (width $\times$ depth $\times$ height mm)		201 × 362 × 176 (7.9 × 14.2 × 6.9 inches)	
Power requirements AC to DC converter included, 100–240 V, 50–60 Hz	Weight (kg)		4.25	
	Power requirements		AC to DC converter included, 100–240 V, 50–60 Hz	

## Instruments, Accessories and Consumables

Material Description	Order Number
Spectrophotometer Easy UV	30705169
Spectrophotometer Easy VIS	30705170
SQKitReader™ for Spectroquant® 1) water testing	30705183
EasyDirect™ UV/VIS PC software 3) (license for 1 instrument)	30657871
EasyDirect™ UV/VIS PC software <sup>3)</sup> (license for 5 instruments)	30657877
USB transfer cable EasyDirect™ UV/VIS PC Software	51191926
Handheld barcode scanner	21901297
USB cable for handheld barcode scanner	21901309
Printer USB-P25	30702998

Material Description	Order Number
Cuvette carousel XPathHolder 10/16 mm	30705122
Cuvette carousel XPathHolder 20/30 mm	30705123
Cuvette carousel XPathHolder 40/50 mm/1"	30705124
Cuvette standard O optical glass 10 mm, matched pair	30675053
Cuvette standard O optical glass 50 mm, matched pair	30675054
Cuvette standard Q quartz glass 10 mm, matched pair	30675051
Cuvette standard Q quartz glass 50 mm, matched pair	30675052
Tungsten Lamp Set Easy VIS	30705148
Drip Tray EasyPlus UV/VIS	30705156

# **METTLER TOLEDO Group**

Analytical Instruments

Local contact: www.mt.com/contacts

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For more information

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 <sup>&</sup>lt;sup>1)</sup> Spectroquant® is a trademark of Merck KGaA, Darmstadt, Germany.
 <sup>2)</sup> SQKitReader™ is required and needs to be purchased separately.
 <sup>3)</sup> Only supported by instrument firmware version 1.1.00 or later.