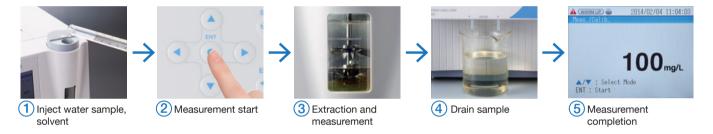






OCMA-500 to measure concentration of oil contained in drainage and environmental water. After injecting the water sample and solvent, all you have to do is press the start button, and the system will automatically conduct the monitoring operation from oil extraction to sample measurement and draining. With no more troublesome operations like opening/closing the drainage valve, monitoring is speeded up. In addition, the color graphic LCD and the backlit extraction tank have improved operability.



Feature

■Backlit extraction tank

The extraction tank is equipped with LEDs. Illuminating the tank makes it easy to check the phase separation between sample and solvent and set the extraction time.



*The color depends on the sample.

■ Reduction of environmental impact and running cost

The OCMA-500 cuts solvent consumption by 20% compared with our previous products, reducing environmental impact. It also reduces the running



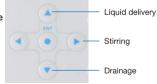
■Measurement mode

Measurement can be switched automatically or manually.

Stirring, measurement and draining are automatically conducted after injection of the sample.

Manual You can conduct measurement operation at any timing while checking the extraction state

Example of manual mode



Fully used in various applications



For monitoring final discharge water



For monitoring discharge from ships



For monitoring water quality in surrounding areas



Water quality survey based on environmental standard. For monitoring final discharge from petroleum refinery plant. For oil dispersion research at time of an accident.

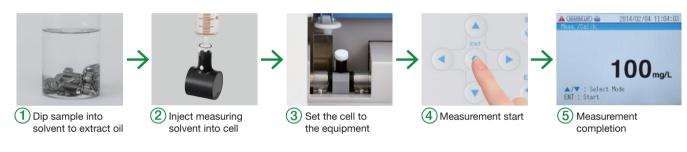


OCMA-550 to measure residual oil on components and concentrations of oil adhered on solids such as soil.

Measurement can be easily made only by injecting the extracted water sample into the attached cell and setting it to the equipment.

This model features a simple design which allows opening/closing of the door to setting of cell with just one hand.

This is best for measurement of extracted samples such as evaluation of residual oil on components and measurement of oil contained in food.



Feature

■Cell is easily detachable with just one hand

Simple design which allows opening/closing of door and detachment of cell with just one hand. Measurement operation becomes smoother.







■Timer function

A timer function to display a measurement value in a certain amount of time is equipped. This saves work and time required for measurement.

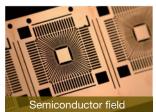




For quality control of components



To prevent reduction of cooling function



For evaluation of degreasing capacity



Useful for soil (environmental pollution), food (health hazard) and gas (quality deterioration)

Automatic operation with one switch

Compact oil content analyzer OCMA-500 series.

Operability is significantly improved while user-friendly features of the conventional products are maintained as they are.

This machine is easy for anyone to use because all you have to do is press a button.

This can be utilized across wide variety of applications such as drain monitoring and quality control for components.

Easy and speedy measurement for approx. 3 minutes*1

Measurement can be easily made in a short time only by pressing the start button. Measurement time can be significantly reduced in comparison with the n-hexane extraction method.

*Excluding time for warming and calibration.



- *1 Shortest time. Measurement time depends on quality of sample.
- *2 In case of OCMA-500. Put extracted sample into the cell to set in case of OCMA-550.

Any oil with low boiling point can be measured

The n-hexane extraction method needs to evaporate solvent and any oil with a low boiling point (toluene, gasoline, etc.) is evaporated along with solvent. The OCMA-500 series does not need to evaporate solvent, preventing evaporation of these kinds of oil.



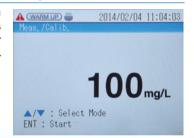
■ What is the n-hexane extraction method?

Testing method used to measure oil components. Because oil of a low-boiling component such as gasoline or toluene is volatilized, an error may occur if they are included. It is necessary to take note of them when making evaluations.

Improvement of operability

■Color graphic liquid crystal

It is easier to see menu and measurement results because a 3.5 inch color graphic (LCD) is employed.



■USB data output port

It is easy to control data in a personal computer by saving data in a USB memory. *HORIBA recommended USB is available.



Date	Value	Unit	Value(Raw)			Memo
2014/08/01 10:00	0	mg/L	0	mg/L	2	sample01
2014/08/01 15:10	3.5	mg/L	3.5	mg/L	0	sample02
2014/08/01 15:20	0.8	mg/k	0.8	mg/L	0	sample03
2014/08/01 15:30	0.9	mg/g	0.9	mg/L	0	ample04
2014/08/03 15:00	0.9	mg/L	0.9	mg/L	0	sample05
2014/08/03 15:10	5.4	mg/L	5.4	mg/L	0	sample06
2014/08/03 15:20	5.2	mg/L	5.2	mg/L	0	sample07
2014/08/08 15:30	4.9	mg/L	4.9	mg/L	0	sample08
2014/08/09 16:00	2.1	mg/L	2.1	mg/L	0	sample09
2014/08/10 18:00	1.7	mg/L	1.7	mg/L	0	sample10
2014/08/10 18:00	1.8	mg/L	1.8	mg/L	0	sample11
2014/08/10 18:00	1.7	mg/L	1.7	mg/L	0	sample12
2014/08/10 18:00	2.7	ma/L	2.7	ma/L	0	sample13

Output data (reference)

■Unit conversion function

Indication unit (mg/L, mg/kg, mg/g, mg/PC, Abs (OCMA-550)) can be changed according to the purpose by inputting the measurement conditions.

■Multi-language function

Japanese, English and Russian languages are available. Each language can be selected from the screen menu.









How to measure by OCMA

The OCMA-500 series extracts the oil components contained in a measurement sample into solvent (S-316) to measure the oil content with an IR analyzer.

*Carry out pre-washing for correct measurement.







Water sample Solvent with oil components resolved

Agitate it thoroughly

Oil components extracted into solvent



Oil Content Analyzer OCMA-500

■Standard Accessory

Filter element	For water filter, diameter 40 mm, including 5 elements	
Dropper	Made of polyethylene, 2.5 mL	
Code set	Power supply cable (for domestic use)	
B heavy oil	10 mL	
Instruction manual	OCMA-500	
Water absorptive sheet	Liquid tray from extraction tank	

■ Option

	Oil extracted solvent	S-316	
	Measuring Syringe set (Simple type)	Micro Syringe 25 μL Measuring Syringe (For Sample) 20 mL Measuring Syringe (For Solvent) 10 mL	
	Measuring Syringe set (Standard type*)	Micro Syringe 25 μL Measuring Syringe (For Sample) 20 mL Measuring Syringe (For Solvent) 20 mL	
	Packing	For water filter For extraction tank	
	Solvent Reclaimer	SR-305	
ı			

^{*}Measuring is easy because with stopper.

Oil Content Analyzer OCMA-550

Cell cap

■Standard Accessory

100mm	
Table on the	

Dropper	Made of polyethylene, 2.5 mL	
Code set	Power supply cable (for domestic use)	
B heavy oil	10 mL	
Instruction manual	OCMA-550	
Cell	Quartz (20 mm): 1 piece	

Cap for cell: 1 cap

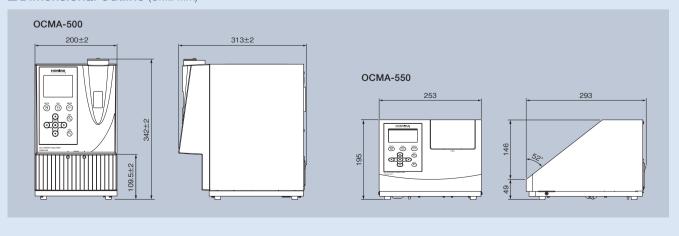
■ Option

Oil extracted solvent	S-316	
Measuring Syringe set (Simple type)	Micro Syringe 25 μL Measuring Syringe (For cell injection) 10 mL	
Solvent Reclaimer	SR-305	

For the first purchase customer In order to measure oil content with OCMA-500 series, you need the following products. If you don't have these products, please purchase from optional list.

Must items for measurement		Recommended options (Not including maintenance parts)		
Standard Set	Solvent	Measuring Syringe set	Solvent Reclaimer	
+ Standard Accessory OCMA-550 + Standard Accessory	S-316	*Choose from standard type or simple type Simple type	Desigened especially for recycling S-316 solvent, it features a 2- layer column of activated carbon and alminum	

■ Dimensional Outline (Unit: mm)



■Specifications

■ Specifications					
	OCMA-500	OCMA-550			
Measurement method	Solvent extraction – non-dispersive infrared absorption analysis method				
Measured objects	ng infrared absorption near a wavelength from 3.4 μm to 3.5 μm				
Measurement range	0 mg/L to	0 mg/L to 200 mg/L			
Resolution	For mg/L 0 to 99.9: 0.1, 100 to 200: 1				
Repeatability	0 mg/L to 9.9 mg/L: \pm 0.2 mg/L \pm 1 dig. 10.0 mg/L to 99.9 mg/L: \pm 2.0 mg/L \pm 1 dig. 100 mg/L to 200 mg/L: \pm 4 mg/L \pm 1 dig. *For standard liquids at constant temperature	0 mg/L to 9.9 mg/L: \pm 0.4 mg/L \pm 1 dig. 10.0 mg/L to 99.9 mg/L: \pm 2.0 mg/L \pm 1 dig. 100 mg/L to 200 mg/L: \pm 4 mg/L \pm 1 dig. *For standard liquids at constant temperature			
Display method	3.5 inches 320×240 dots E	Backlight color graphic LCD			
Calibration method	Select each optionally zero ca	Select each optionally zero calibration and span calibration.			
Amount of test sample required	2:1 (Sample water : Solvent)	_			
Extraction solvent	S-316 *Do not use any o	S-316 *Do not use any other solvent than S-316.			
Amount of extraction solvent required	8 mL (possible to measure even at 10mL)	Approx. 6.5 mL (Amount of extraction solvent required)			
Extraction method	Built-in extractor	Using the extraction solvent, and extracted manually outside the product			
Ambient operating temperature 0°C to 40		o condensation)			
Power supply	AC 100 V to 240 \	AC 100 V to 240 V ±10%, 50/60 Hz			
Power consumption	AC 100 V: Approx. 60 VA, AC 240 V: Approx. 90 VA	AC 100 V - 240 V: Approx. 60 VA			
External dimensions	342 (H) X 200 (W) X 313 (D) mm	195 (H) X 253 (W) X 293 (D) mm			
Mass	Approx. 7 kg	Approx. 5 kg			
External output Output to an		SB memory stick			
Measurement flow	Automatic measurement (automatic switching sequence) and manual measurement after injection of liquid	_			
Cell length	_	20 mm			
Cell material —		Quartz			
Functions	300-item data memory (measurement history) Self-error determination Stabilized measurement value display Clock function With backlight for stirred batch tank Unit conversion function	300-item data memory (measurement history) Self-error determination Stabilized measurement value display Clock function Unit conversion function			



Please read the operation manual before using this product to assure safe and proper handling of the product.





- ●The specifications, appearance or other aspects of products in this catalog are subject to change without notice.
- •Please contact us with enquiries concerning further details on the products in this catalog.
- ●The color of the actual products may differ from the color pictured in this catalog due to printing limitations.

India

A-3430 Tulln,

- •It is strictly forbidden to copy the content of this catalog in part or in full.
- The screen displays shown on products in this catalog have been inserted into the photographs through compositing.
- •All brand names, product names and service names in this catalog are trademarks or registered trademarks of their respective companies.

http://www.horiba.com e-mail: info@horiba.co.jp

Tokyo Sales Office

●HORIBA, Ltd. Head Office

Head Office 2 Miyanohigashi, Kisshoin Minami-ku, Kyoto, Japan Phone: 81 (75) 313-8121 Fax: 81 (75) 321-5725

●PT HORIBA Indonesia Jl. Jalur Sutera Blok 20A, No.16-17, Kel. Kunciran, K

Pinang Tangerang - 15144, Indonesia

Kanda-Awaji-cho Nichome Building 2-6, Awaji-cho, Kanda, Chiyoda-ku, Tokyo, Japan

Phone: 81 (3) 6206-4721 Fax: 81 (3) 6206-4730

HORIBA (Thailand) Ltd. 393, 395, 397, 399, 401, Kec. 403, Latya Road, .403, Latya Road, Somdetchaopraya, Klongsan, Bangkok 10600, Thailand Phone: 66 (0) 2 861 5995 ext.123 Fax: 66 (0) 2 861 5200

Phone: 62 (21) 3044-8525 Fax:62 (21) 3044-8521

●HORIBA Instruments Brasil, Ltda. Rua:Presbitero Plinio Alves

Nud.-riesbildo Hillio Alves de Souza, 645, Loteamento Polo Multivias Barirro Medeiros - Jundiai Sao Paulo CFP 13.212-181 Brazil Phone: 55 (11) 2923-54 Fax: 55 (11) 2923-5490

HORIBA UK Limited Northampton Office Kyoto Close

● HORIBA (China) Trading Co., Ltd. Shanghai Office Beijing Unit D, 1F, Building A, Synnex International Park, 1068 Haidian West Tianshan Road, Shanghai, 200335 China Phone: 86 (21) 6289-6060 Fax: 86 (21) 6289-5553

Phone: 91 (11) 4646-5000 Fax: 91 (11) 4646-5020

A-3430 Tulili, Austria Phone: 43 (2272) 65225 Fax: 43 (2272) 65230

Beijing Office, 12F, Metropolis Tower, No.2, Haidian Dong 3 Street, Beijing, 100080, China Phone: 86 (10) 8567-9966 Fax: 86 (10) 8567-9066

● HORIBA India Private Limited - Pune 246, Okhla Industrial Estate, Phase 3 New Delhi - 110020, Plaza Pune Office 502, 5th Floor, Purushottam Plaza, Baner Road, Baner, Bangalore Office Kamadhenu, No.17/1 - 32, Bannerghatta Road, Audugodi 560030 Bangalore India Phone: 91 (80) 22210071 Pune - 411045 India Phone: 91 (20) 4076-6000 Fax: 91 (20) 4076-6010

● HORIBA (Austria) GmbH ●HORIBA Europe GmbH **Head Office** Hans-Mess-Str 6

Julius-kronenberg Str.9 D-61440 Oberursel Germany Phone: 49 (6172) 1396-0 Fax: 49 (6172) 1373-85 D-42799 Leichlingen Germany Phone: 49 (2175) 8978-0 Fax: 49 (2175) 8978-50

●HORIBA Korea Ltd.

10, Dogok-Ro, 6-Gil, Gangnam-Gu, Seoul-Si, 135-860, Korea Phone: 82 (2) 753-7911 Fax: 82 (2) 756-4972

Leichlingen Office

● HORIBA Instruments (Singapore) Pte Ltd. Head Office Hanoi Office

Prumyslova 1306/7, CZ-10200, Praha 10, Czech Republic Phone: 420 (2) 460-392-65

HORIBA Czech

10, Ubi Crescent #05-12 Lobby B Ubi Techpark Singapore 408564 Phone: 65 (6) 745-8300 Fax: 65 (6) 745-8155

●HORIBA Instruments Incorporated Irvine Office Alvin, TX Office 9755 Research Drive, Irvine, CA 92618, U.S. A. TX77511, U.S. A. Phone: 1 (949) 250-4811 Phone: 1 (281) 482-4334 Fax: 1 (949) 250-0924 Fax: 1 (281) 614-0303

Hanoi, Vietnam

Unit 10, 4 Floor, CMC tower, Duy Tan Street, Dich Vong Hau Ward, Cau Giay district,

Phone: 84 (4) 3795-8552 Fax: 84 (4) 3795-8553

● HORIBA France Sarl 12. Av des Tropiques Hightec Sud, F-91955 Les Ulis, France Phone: 33 (1) 69-29-96-23 Fax: 33 (1) 69-29-95-77

Printed in Japan TS-TF(SK)33 Bulletin:HRE-1941B

