



MARINE CARE

CARETECH SPECTROSCAN UV-VIS SMARTLOG

**User friendly, robust UV-vis spectrophotometer,
for wall wash testing and wash water analysis.**

DESCRIPTION

The new Caretech Spectroscan UV-Vis SmartLog is the leading analysis unit for wall wash testing and wash water analysis in the maritime market. At Marine Care R&D Centre, we have combined all knowledge and experience in spectrometry, tank cleaning and customers info into this development. Featuring a modern and high resolution touch screen for clear graphics and navigation that ensures easy operation. **Multiple curves are simultaneously displayed in one single graph for simple comparison of the executed UV scans.**

PRE-PROGRAMMED TEST METHODS

The Caretech Spectroscan UV-Vis Smartlog comes with the below stated Wall Wash test methods for tank cleaning operations, pre-installed and easy accessible via the touchscreen display. On customer request other test methods can be developed and pre-programmed.

Quantitative test methods

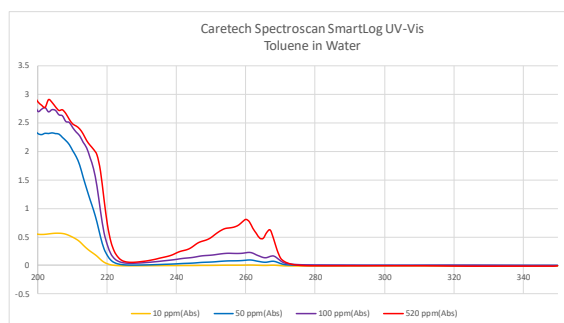
- APHA Color Test 0 - 500
- Chloride in methanol 0 - 10 ppm
- Chloride in water 0 - 10 ppm
- HydroCarbon low range 0 - 10 ftu
- HydroCarbon high range 10 - 150 ftu
- TBC 0 - 100 ppm

Single- and multiwavelength test methods

- HMD 277 nm
- PTT 525 nm
- APHA 500 430 - 455 - 480 - 510 nm
- UV IMPCA 220 - 250 - 268,5 - 300 nm

UV scans, absorbance and transmittance (For wall wash testing and flush/wash water analysis)

- UV scan absorbance 200 - 350 nm
- UV scan absorbance 220 - 350 nm
- UV scan absorbance 200 - 1000 nm
- UV scan transmittance 200 - 350 nm
- UV scan transmittance 220 - 350 nm
- UV scan transmittance 200 - 1000 nm



- Clear display of multiple curves for simple comparison
- Easy data export in csv and jpg format
- Accurate double beam technology
- Top of the market
 - Repeatability
 - Accuracy
 - Baseline Flatness
- Pre-programmed Wall Wash Test methods and 100 ppm graphs for Wash Water Test
- Advised by latest CDI report



MARINE CARE BV
Oude Maasweg 35
Port number 4005
3197 KJ Rotterdam
The Netherlands
T. +31 (0)10 2950342
F. +31 (0)10 2950345
E. supply@marinecare.nl
W. www.marinecare.nl



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WASH WATER ANALYSIS SUPPORT

For support of wash water analysis, a database with 100ppm graphs of the most common cargoes is pre-installed. These graphs can be used as template to create overlays with the actual scans of the wash water, making interpretation for crew easy and fast. On request additional 100ppm graphs can be produced.

TECHNICAL SPECIFICATIONS

- Optical design Dual Beam - Internal reference detector
- Spectral Bandwidth 2,0 nm
- Light source Xenon Flash Lamp
- Detector Dual Silicon Photodiodes
- Wavelength:
 - range 190 -1100 nm
 - accuracy $\pm 0,5$ nm
 - Repeatability $\pm 0,2$ nm
 - Data interval 0,2; 0,5; 1,0; 2,0; 5,0
- Photometric:
 - Linear range - 2 A to 3,5 A
 - Display - 3 A to + 5 A
 - Accuracy $\pm 0,002$ A at 0,5 A; $\pm 0,004$ A at 1,0 A, $\pm 0,008$ A at 2,0 A
 - Drift $< 0,0005$ A/hour (at 500 nm, after 1 hour warmup)
- Stray Light $< 1,00\%$ T at 198 nm, $< 0.05\%$ at 220 nm (NAI), $< 0,03\%$ T at 340 nm (NaNO₂)
- Display 7" color touch screen, fixed, HD 800 x 1280 pixels
- Keypad Touch screen
- Connectivity Single USB A port for USB memory drive/stick
Double USB A port for PC/printer connection or memory
Ethernet port for network printer
- Dimensions 38,5 x 35,5 x 19,5 cm (W x D x H)
- Weight 7,5 kg
- Power supply 100 - 240 VAC; 50 - 60 Hz to 12V adapter

Measured data:

- Direct printer output
- Data storage on USB stick in *.csv and/or JPG format

Supplied with:

- Robust case
- Marine Care firmware including updates of 100 ppm graphs
- 10 mm Cuvette holder
- 50 mm Cuvette holder
- 1 x pair of matching quartz 10 mm cuvettes
- 1 x pair of matching quartz 50 mm cuvettes
- 1 x stainless steel desk cuvette stand (for 10 and 50 mm cuvettes)
- 50 x disposable 50 mm cuvettes
- 20 x disposable 10 mm cuvettes
- Wall wash test methods, pre-programmed
- Wall wash test methods, hard copy
- Marine Care USB Stick containing:
 - Wall wash test methods for Caretech Spectroscan UV-Vis SmartLog
 - 8 GB USB drive for data transfer

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