



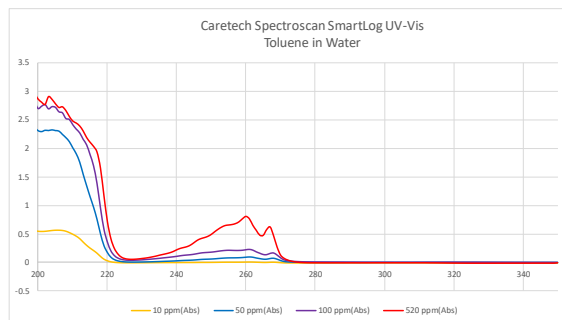
# MARINE CARE

## CARETECH SPECTROSCAN UV-VIS SMARTLOG

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

### 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 we have translated all knowledge and experience of previous units and customers into this version. Featuring a modern and high resolution touch screen for clear graphics and navigation that ensures easy operation. **Multiple analysis graphs are automatically displayed on top of each other, so differences in curves can easily be spotted.**



### PRE-PROGRAMMED TEST METHODS

The Caretech Spectroscan UV-Vis Smartlog comes with the below test methods for tank cleaning operations, already pre-installed and accessible via quick buttons. Also other methods can be pre-programmed and included in the start up menu On customer request.

#### 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 on top of each other
- Reliable split (dual) beam technology
- Quick start touch screen
- Pre-programmed test methods



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# MARINE CARE

CARECTECH  
SPECTROSCAN UV-Vis  
SMARTLOG

## 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 (NaNO<sub>2</sub>)
- 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  
Wi-Fi adapter 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 RC7 firmware
- 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
- 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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