

Application

Senova's PhotoMeter are portable robust batteryoperated pocked size photometers. They are suitable for the quantitative read out of 3D-Immunofiltration Assays, ABICAP® Mikrocolumn assays or standard photometric assays. They can be operated in laboratory environments as well as in field situations. Calibration data and measurement data can be transferred and stored via the built-in chip card reader.

Concept

Optimized for different tracers, Senova offers two types of photometers:

- **Type "Green"** utilizes a green light emitting diode (LED, 505nm) suitable for the quantification of microcolumn and other assays with DSC-Red or Poly-HRP/TMB detection.
- **Type "Yellow"** with a yellow LED (590nm) is optimized for the read-out of microcolumn and other assays with Poly-HRP/TMB detection. Compared to type "Green" type "Yellow" offers a approx. 30% increase in assay sensitivity and is best suited for ultrahigh sensitivity immunoassays.

Both photmeters are sturdy and robust, designed for in the field operation. Handling is easy and self explaining.

Advantages

Easy Handling e.g. for ABICAP® Assays:

- Switch the photometer on
- Insert lotspecific chipcard
- Insert ABICAP® Mikrocolumn
- Read, store or print the result

Multifunctional for

- ABICAP® Mikrocolumns
- 3D-Immunofiltration columns
- Standard round cuvettes

Portable and robust

- simple sturdy LED Optics
- solid housing
- Battery operation
- Standard interface

For ultra sensitive immunoassays

- Type "yellow" offering increased sensitivity optimized for Poly-HRP/TMB detection



Specification

Detector:	Silizium Photodiode
Cuvettes:	ABICAP® Microcolumns, Round Cuvettes Ø 8mm, length 47mm
Light Source, Wavelength:	Type "Green", LED, 505nm Type "Yellow", LED, 590nm
Measuring modes:	Integration time 5 sec. – 30sec.
Battery:	4 x 1,5 VDC AA Batteries for approx. 8h portable operation time
Power supply:	Plug-in Powersupply 100VAC-264VAC /12V/0.8ADC for steady operation
Interfaces:	1x RS232, 3-pin, I2C-chipkard reader 32/64 kBit
Display:	LCD-Display, 2 lines x16 characters, backlit
Keypad:	Keys for "measure", "print", "calibrate", "transfer data", numeric keyboard, "On/Off"-switch
Printer:	Regular via RS232
Measures:	180mm x 200mm x 40mm (wxdxh)
Weight:	Approx. 300g
Operating conditions:	Temperature +10°C to +30 °C, relative humidity 5% rH-80% rH
Certificate :	CE

Ordering Information:

Cat.Nr.: 301 00 001 RDR	Portable Photometer Type Green with green LED for DSC Red and Poly-HRP/TMB measurment from ABICAP® Microcolumns or Ø 8mm round cuvettes, with key pad, incl. chip card reader, battery, smart card reader, RS232 interface, instructions.
Cat.Nr.: 301 00 002 RDR	Portable Photometer Type Yellow with yellow LED for ultrasensitive PolyHRP/TMB measurment from ABICAP® Microcolumns or Ø 8mm round cuvettes, with key pad, incl. chip card reader, battery, smart card reader, RS232 interface, instructions.
Cat.Nr.: 301 00 010 RDR	Aluminum transport case for Photomete
Cat.Nr.: 301 00 011 RDR	Plug-in power supply for portable photometer (recommended for stationary operation)
Cat.Nr.: 301 00 012 RDR	RS232 Computer cable for portable photometer
Cat.Nr.: 301 00 013 RDR	Chip card 32/64 bit for data storage