Compact Visible Spectrophotometers
PRIM Light and PRIM Advanced

PRIM Light & PRIM Advanced spectrophotometers combine a high level of performance with a simple and intuitive user interface. Compact and light, these new spectrophotometers are ideal for standard applications in education or in the laboratory.

Internal Applications
All applications, basic or standard, are included as standard and are immediately available on each spectrophotometer.

50 User Methods
All PRIM spectrophotometers can store up to 50 methods in memory. Stored applications can be recalled at any time without re-programming the method parameters. Prior to running a method, it is possible to check the stored parameters using only one button from the navigator keys.

Real-time Display
The display of absorbance and transmission is processed in real-time with any measurement mode.

1 Key = 1 Function
The keyboard is clearly arranged with each button corresponding to one specific single function.
Operation is therefore simpler and faster.

Safety – Low Voltage Power Supply
Mandatory for the area of education and safeness of trainees and of course also applicable for any laboratory.

Compact
Light at only 2.5 kg and compact A4 size footprint, PRIM can be handled very easily.

Internal Calibration Filter
In order to certify accurate and repeatable results, the spectrophotometer calibrates itself automatically at each start-up using the internal didymium filter; a complete report is automatically printed on the external printer if connected.

Advantages PRIM

Choose between 2 PRIM units:

PRIM Light:

Basic internal software including standard spectrophotometric applications in absorbance, transmission and single standard concentration.

PRIM Advanced:

Advanced applications for absorbance, transmission, multi-standard concentration, kinetics, multi-wavelength and spectrum scanning.

A wide choice of measuring modes

Kinetics

- Analysis of absorbance variation as a function of the time.
- Program to include lag time and reaction time.
- Automatic calculation of absorbance variation during each segment of time or the total time.

Spectrum Scan*)

- A curve of absorbance values as a function of the wavelength with detection of absorbance maxima and minima.
- User-definable scan mode using the entire or partial visible range: 330 to 900 nm, in 1 nm steps, with automatic recording of the baseline.

Multi-Wavelenght Mode

- Measure of ratio and difference of absorbance at 2 wavelengths.
- Simultaneous display of calculation results as well as individual absorbance values at each wavelength

*) on optional external printer.

Accessories

A complete range of accessories:

Printer, tube-holder, manual aspiration system, thermostatted cuvette holder are available on option.

Technical Specifications	PRIM Light	PRIM Advanced
Spectral range	330 – 990 nm	
Bandwidth	10 nm	
Accuracy	±1.5 %	
Precision	±1 nm	
Photometric range	–0.3 … 2.5 Abs, 0 … 200 %T	
Accuracy	±2 %	
Drift	< 0.003 A/h @ 500 nm	
Stray Light	0.5 %T @ 340 & 400 nm	
Display	Alphanumeric, LCD, back-lit, 2 lines, height 8 mm, 16 characters	
Zero	Automatic	
Light source	Halogen	
Detector	Silicon diode	
Interface	Serial RS232C	
Cell holder	1 cuvette 10 mm	
Power	115/230V … 50/60Hz	
H x W x D, Weight	180 x 280 x 220 mm, 2.5 kg	
Software equipment		
Absorbance	■	■
% Transmission	■	■
Concentration with factor	■	■
Concentration with 1 standard	■	■
Concentration with 1 to 8 standards		■
Kinetics		■
Multi-wavelengths		■
Spectrum scanning		■
Peaks and valleys detection		■
Multi-language	■	■
Automatic stand-by	■	■

Type no.	Order no.	Product	Description
PRIM Light	285600190	Spectrophotometer	VIS Spectrophotometer with 10 mm cell holder
PRIM Advanced	285600200	Spectrophotometer	VIS Spectrophotometer with 10 mm cell holder