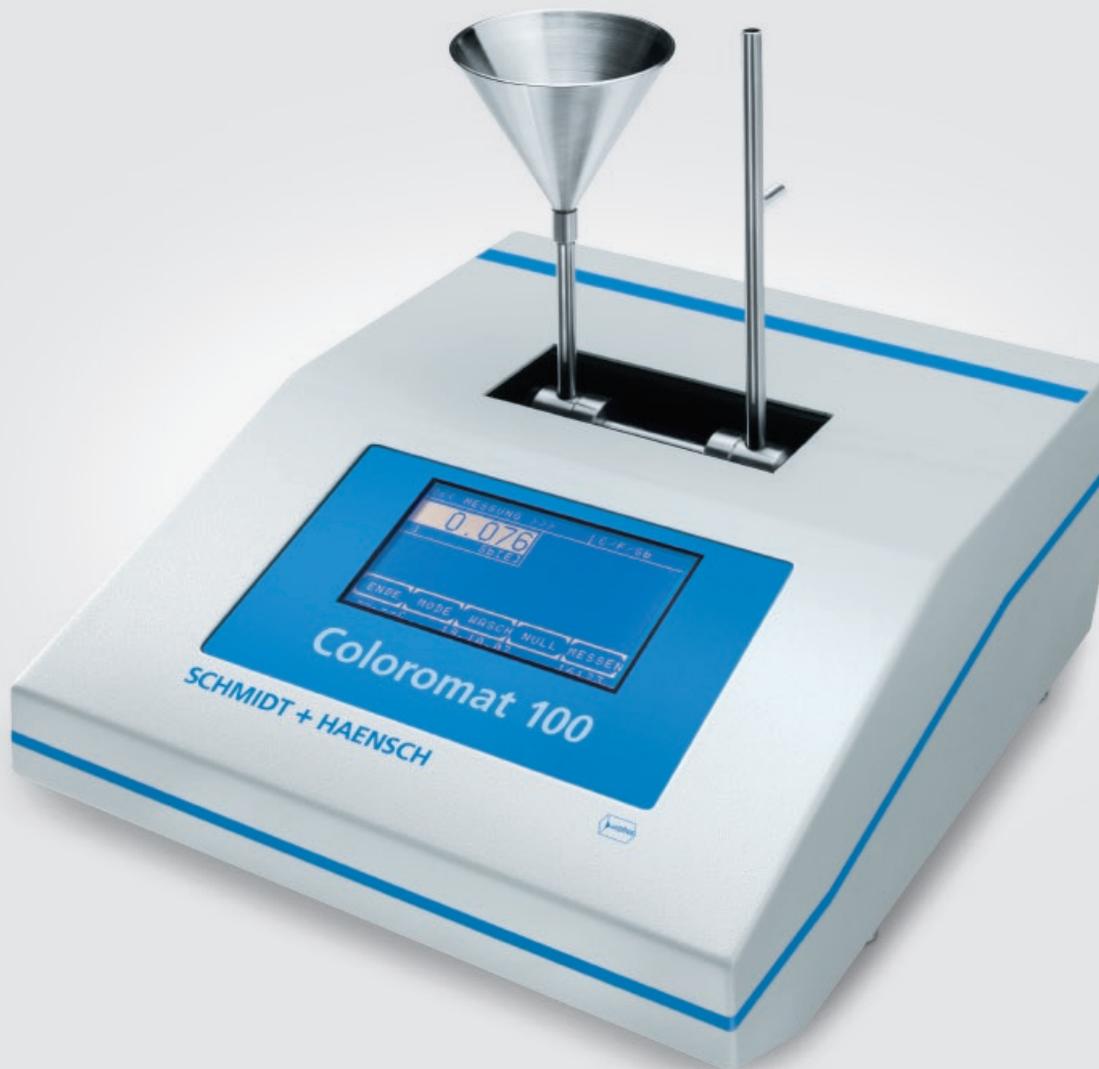


# Coloromat 100

**NEW**



## Digital single beam photometer for the determination of liquid color

- Objektive and repeatable measurements
- 3 fixed wavelengths 340, 420 and 720 nm
- Optional 6 further wavelengths (in the range 340 - 900 nm)
- Automatic wavelength setting
- Polarimeter cells up to 100 mm usable as well as rectangle cuvettes
- Single or flow through measurements
- Remote control via PC
- Data output to PC or direct connected printer
- Up to 250 methods programmable
- Internal data storage of results
- GLP / GMP conform documentation

**SCHMIDT + HAENSCH**

Opto-electronic measuring device since 1864

## Digital single beam photometer for the determination of liquid color

The new designed Coloromat 100 allows easy measurement of transmission, extinction and colour units at the recommended wavelengths in the range between 340 and 900 nm.



The **touch screen** is used for soft key functions and alpha-numerical inputs which allows easy handling for example batch name, user etc.. The wavelengths are selected via the touch screen. **Three wavelengths** are pre-installed as standards, optional the Coloromat 100 can be equipped with **six further** customized **wavelengths**. This opens a wide range of applications.

Due to the generous dimensions of the sample chamber the use of polarimeter **flow through tubes** up to 100 mm as standard cuvettes allows easy filling and a high through-put.

The sample compartment is open to the top and the bottom avoiding spillage to enter the unit. Due to its unique optical design the Coloromat 100 is not affected by stray light.

The Coloromat 100 is equipped with a **continuous measuring mode** with free configurable sampling rate for monitoring color changes in product streams as a function of time.

The general operating software contained in the FLASH MEMORY can be updated by PC (data file downloaded from Internet or CD ROM) and has a capacity for **250 pre-programmed tests**. Up to 230 tests can be stored in the RAM. The import of data by touch screen or PC are possible. Additionally up to 2970 results of max. 99 samples can be managed in the memory.

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## Applications

- Color measurement of liquid cristal sugar (ICUMSA)
- Color index determination of soft drinks and wine
- Determination of the color of extracts (coffee a.o.)
- Color index determination via APHA-number
- Color measurement of beer and wort (EBC color number)
- Bicromate measurements
- Multi standard methods
- Simple extinction measurements
- Monitoring of color changes as a function of time
- Enzymatic determination (e.g. NAD(P))- and NAD(P)H-methods

## Technical data

<b>Optics:</b>	Single beam photometer
<b>Wavelength range:</b>	340 - 900 nm
<b>Pre-installed filters:</b>	340, 420, 720 nm
<b>Wavelength section:</b>	Via touch screen
<b>Resolution extinction:</b>	0.001
<b>Measuring accuracy:</b>	± 0.020 extinction at 420 nm ± 0.010 extinction at 340 + 720 nm ± 0.020 extinction at optional filters

### Basic method ICUMSA

**Measuring range:** 0 - 16000 ICUMSA Units (IU)

**Resolution:** 1 IU

**Accuracy:** ±10% for colors < 20 IU

± 5% for colors > 20 IU

**Light source:** Halogen lamp, 12 V, 20 W  
with protected function  
for halogen lamp

**Operator interface:** Touch screen for direct functions  
and alphanumeric inputs

**Data presentation:** Graphic display

**Data output:** RS 232 C interface

**Operating temperature:** 10 - 40°C

**Languages:** English and German, switchable  
Indonesian, Russian, Spanish  
on request

