Colo Science
Laboratory & Scientific Equipment

COLO.SCIENCE · TECHNICAL SPECIFICATION

VISIBLE LIGHT TRANSMITTANCE, UV AND IR REJECTION · GLASS AND FILM

CH1010

Light Transmittance Meter · UV · VIS 380–760 nm · IR 940 nm · 0.5 s · samples up to 47 mm · USB-C

CH1010 Light Transmittance Meter is a compact instrument for the light transmittance of glass, window film and other transparent materials. It measures Visible light transmittance (VLT), UV rejection, IR rejection (940 nm) in about 0.5 s — a quick check of tinted glass and film in workshops, sales and incoming control.

Visible light transmittance | UV rejection | IR 940 nm | Glass and film | Resolution 0.1 % | Accuracy ±1.5 % | 0.5 s | Samples up to 47 mm | 3.5" colour screen | USB-C power

Document type: **Technical Specification Sheet**
Product: **CH1010 Light Transmittance Meter**
Format: Print layout · A4 landscape

CH1010 product page | Spectroscopy & Color — overview | Spectroscopy & Color catalogue

Request quote



CH1010 · light transmittance meter

MEASURED	VLT · UV · IR
RESOLUTION	0.1 %
ACCURACY	±1.5 %
TIME	≈ 0.5 s

MODEL
CH1010

ADDRESS / HQ
Polje ob Sotli 4
SI-3255, Slovenia

CONTACT
sales@colo.si
+386 70 713 437

CH1010 · product overview

VLT, UV and 940 nm IR

CORE TECHNOLOGY

Uv, visible and infrared 940 nm — visible, UV and near-infrared transmittance in one step.

Silicon photodiode sensors — fast and stable response; result in about 0.5 s.

Automatic calibration at switch-on — one-key measurement, no setup.

Slot for samples up to 47 mm — thin film, laminated and insulated glass.

Resolution 0.1 %, accuracy better than ±1.5 % — on colourless uniform translucent samples.

VLT, UV and IR (940 nm) rejection — the three values customers ask about tinted glass and film.

Compact and light — 515 g, powered over USB-C from adapter or power bank.

3.5" colour screen, USB data output.

PRODUCT HIGHLIGHTS



Clear readout
VLT and rejection values shown together on the 3.5" screen.



Slot for flat samples
Glass, film or sheet up to 47 mm thick slides into the gap.



Window film
Check of tinted and solar-control film before and after fitting.



Quick check
Switch on, automatic calibration, insert the sample — result in 0.5 s.

APPLICATIONS



Window & automotive film



Architectural glass



Plastic sheets & film



Incoming control

CH1010 · technical parameters

UV · VIS 380–760 nm · IR 940 nm · 0.5 s · samples up to 47 mm · USB-C

TECHNICAL PARAMETERS

Light sources	UV, visible and infrared 940 nm
Sensor	Silicon photodiodes
Wavelength range	Visible 380–760 nm; infrared peak 940 nm
Measured values	Visible light transmittance (VLT), UV rejection, IR rejection (940 nm)
Resolution	0.1 %
Measuring time	Approx. 0.5 s
Accuracy	Better than ±1.5 % (colourless uniform translucent sample); better than ±1 % on factory standard samples
Sample thickness	Up to 47 mm
Calibration	Automatic at switch-on

Display	3.5" TFT colour
Interface	USB
Power	5 V DC, USB-C
Lamp life	More than 3 million measurements in 5 years
Dimensions, weight	203 × 120 × 29 mm (L × W × H), 515 g
Instrument languages	English, Chinese
Environment	Operation 0–40 °C, 0–85 % RH non-condensing, altitude up to 2000 m; storage −20–50 °C

CH1010 · what it measures and which model

Light transmittance, UV and IR rejection of glass and film

UNDERSTANDING THE VALUES AND CHOOSING THE MODEL

What the instrument measures

VLT (visible light transmittance) — how much daylight passes the glass or film, in %.

UV rejection — share of ultraviolet radiation blocked; protects interiors and skin.

IR rejection — share of infrared (heat) blocked; 940 nm.

Haze meter or transmittance meter? For haze, clarity or colour of plastics and films use the CH1100–CH1810 haze meters.

Light transmittance meters — which model?

Model	CH1010	CH1020
VLT, UV rejection	✔	✓
IR 940 nm	✔	✓
IR 1400 nm, full-band IR	—	✓
SHGC, TSER	—	✓

CH1010 for visible, UV and 940 nm infrared values; CH1020 adds 1400 nm and full-band infrared, SHGC and TSER for solar-control film. For haze, clarity and colour of transparent materials see the CH1100–CH1810 haze meters.

Standard delivery

Instrument	CH1010 light transmittance meter
Power and data	Power adapter, data cable
Other	User guide

Options

Service	Calibration check on request

Typical samples

Window film installers: VLT and heat rejection before and after fitting.

Glass processing: tinted, coated and laminated glass.

Automotive: glazing and film checks.

Plastics: transparent sheets and covers.

CH1010 · configuration and support

Ordering information, configuration checklist and contact

CONFIGURATION AND SUPPORT



CH1010 · measuring a film sample in the slot

Ordering information

Model	CH1010 Light Transmittance Meter
Measured values	Visible light transmittance (VLT), UV rejection, IR rejection (940 nm)
Sample	Up to 47 mm thick
Interface	USB, USB-C power

Configuration checklist

Samples: glass, film or sheet and its thickness (up to 47 mm).

Values: VLT and UV only, or also IR, SHGC and TSER for solar-control film.

Use: laboratory, incoming control or on-site checks.

SUPPLIER AND SUPPORT

COLO Lab Experts
Polje ob Sotli 4, SI-3255, Slovenia

Selection guidance: send the material, thickness and the values you report — we confirm the model and delivery time with the quotation.

QUICK CONTACT

colo.si
sales@colo.si
+386 70 713 437

COLO.SCIENCE · COLOUR AND APPEARANCE MEASUREMENT

Checking glass or window film?

Send the material and the values you need — we propose the model and confirm it with the quotation.

Request quotation | sales@colo.si | +386 70 713 437

Specifications are subject to change without notice. Values refer to standard laboratory conditions.