

mahlo

trendsetting technology, worldwide.



MAHLO COLOR-GUIDE CGD

Colour measurement

Measurement

Control

Automation

MAHLO COLOR-GUIDE CGD

Colour measurement by hand

Dyeing processes are a vital link in the textile finishing chain.

Colorscan CIS-12 which consistently spots and faithfully records at the perching stage any variations in colour, both across the web and lengthways.

There is in addition the MAHLO COLOR-GUIDE hand-held spectrophotometer.

MAHLO COLOR-GUIDE A handy spectrophotometer

The meter is exceedingly small and light, and can take up to 10.000 measurements before the batteries need recharging. Because of its modest size and weight (it can be held in one hand), the lengthy charge and discharge cycle of its batteries, it can be used virtually everywhere. The stability of the lighting has a decisive influence on how often it needs to be calibrated. This is normally required only after renewal of the batteries.

A single measurement is obtained in a matter of seconds. The built-in programs are menu-driven via the simple expedient of cursor keys.

Measured data is analysed internally by all currently available colour systems, scales, and indices. The result of each analysis is clearly indicated on the meter's LCD, and measurement-related data can be displayed graphically in the form of a colour spectrum.

Up to 200 standards and 999 samples are stored in the memory, and, via a built-in interface, stored data can be transcribed very easily into a PC-based Windows application such as Microsoft Excel.

It is then a simple matter to make complex assessments.

A Mahlo COLOR-GUIDE needs no particular know-how to be able to use it.



MAHLO COLOR-GUIDE

Interface:

For transfer of data into a Windows application or printer

LCD:

Indicates clearly colour readouts

Cursor keys:

The meter is menu-driven, and the 4 keys provide access to all functions

Measure key:

Facility for automatic release as well

Battery compartment:

10.000 measurements per battery charge

Ergonomics: Small and light – needs only one hand to operate it



Quick and reliable results with a MAHLO COLOR-GUIDE.



Use the template supplied to locate an evenly dyed spot to take a measurement, and just place the MAHLO COLOR-GUIDE onto it.



Being portable and easy to use, it can do its job virtually everywhere, even in those places difficult to get at. It is pictured below taking a measurement on a processing machine.



Calibration can be checked simply by measuring the green coloured standard supplied.



Using the serial interface cable and integration software supplied, read-outs can be loaded directly into standard PC software packages such as Microsoft Excel or other spreadsheet and data bank programs.

MAHLO COLOR-GUIDE Technical data

Measurement

Measurement geometry:	d/8
Spectral range:	400-700 nm
Spectral dispersion:	20 nm (internal computation 5 nm)
Scan time (duration):	0.3 sec (at 1 sec intervals)
Light emission:	LED
Measured area:	11 mm

Evaluation

Display:	Absolute readouts, differential, pass/fail, metamerism, spectrum curve, listing and tailing
Colour system:	CIE Lab, CIE LCh/H, Lab(h), FMC2, XYZ, Yxy, RxRyRz
Indices:	Degree of brightness and yellowing, colour intensity (max. absorption), curvature, tristimulus, metamerism, opacity
Illuminants:	Every available type of light (eg.: C, D65, A, F7, F11 ...)
Standards:	DIN 5033, 5036, 6174, ISO 7724, ASTM D 2244, E 308, E 313, E 1164

Features

Dialog:	German, English, French, Italian, Spanish, Japanese
Storage capacity:	200 standards, 999 samples
Power supply:	4 AA alkaline, NiCd or MH batteries for up to 10.000 measurements per charge
Interface:	V24 RS 232 for PC or printer
Display:	60 x 30 mm, LCD, 128 x 64 pixel
Dimensions (LxWxD):	18 x 9,5 x 8 cm
Weight.:	Approx. 500 g (incl. batteries)

Ambient limits

Working temperature:	10° C - 42° C
Humidity:	< 85% relative, non-condensing humidity / 35° C

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Dust and shock-proof plastic case
containing:
meter
manual
interface cable and diskettes
(connection to PC)
calibration and test standard