

TRANSMISSION DENSITOMETER



D 200-II



The precise transmission densitometer
for a broad scope of applications

D200-II, the transmission densitometer for professionals

The D 200-II transmission densitometer from GretagMacbeth is the unit of choice for all applications in the field of:

- reproduction
- desktop publishing
- photo typesetting

as well as for technical and medical applications.

Thanks to the microprocessor control (e.g., the controlled measuring lamp) the D 200-II features the highest accuracy within the entire measuring range, up to 6.0 D. The unit is easy to use and it is very rugged, in other words, it is the densitometer for the professional. Changing the measuring aperture and the measuring tube is a one-step operation making it easy to set up the unit for your particular application. The D 200-II meets the highest demands, no matter whether your application includes silver or diazo film, continuous tone, halftone or lineart material.



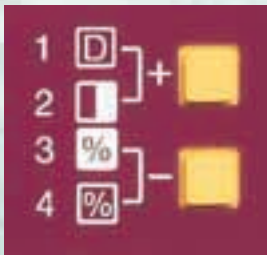
The D 200-II is easy to operate

All measuring functions for density, contrast (density range) and positive or negative halftone percentage are clearly



indicated in the large, backlit liquid crystal display. The measured values are easy to read, even under unfavorable lighting conditions or in the

darkroom. The resolution is adjustable to 0.01 D and 0.001 D, or to 1% and 0.1%, respectively. Only two keys are required to access all measuring options of the D 200-II. The selected function is indicated in the LC display – showing the current



mode of operation of your D 200-II at a glance. The large light table with switchable illumination (color temperature about 5000 Kelvin) allows fast and accurate positioning of the film. To trigger a reading you simply press down the

measuring arm. The ambient light does not affect the reading. The D 200-II may be reset to zero at any desired location on the film with the simple press of a button.

The densitometer may be operated with one hand making the handling easy and timesaving. The long, ergonomically designed measuring arm allows the measuring of large-size film, allowing the reading of every single point on film up to 61 cm wide.



D 200-II, unmatched versatility for the most demanding applications



The basic equipment of the D 200-II includes a V (λ) measuring tube, three measuring apertures (diameter 1, 2 and 3 mm) and a slotted aperture (3 x 0.3 mm), as well as a calibration chart and a spare measuring lamp.



The high-precision measuring tubes, designed to cover a measuring range of 8.0 D and above, offer unrivaled versatility and ease of handling. This makes the D 200-II suitable for a variety of technical and medical applications.

V (λ)	DTP, reproduction	0.00 D –> 6.0 D	Ø 0.5 mm
V (λ) ND 2-8	for highest densities	2.00 D –> 8.0 D	
Ortho	reproduction	0.00 D –> 6.0 D	
UV	daylight film	0.00 D –> 5.0 D	
Red, Green, Blue	color slides	0.00 D –> 5.0 D	

The replacement of the measuring tube, the aperture and the measuring lamp is a one-step operation requiring no tools.

Specifications

Display	digital, LCD
Measuring geometry	specular / diffuse
Color temperature	light source approx. 3000 Kelvin
Calibration	zero point: automatic, slope: for density
Apertures	Ø 1 mm, Ø 2 mm, Ø 3 mm, slotted aperture 0.3 mm x 3 mm
Reproducibility	± 0.01 D (in the range of 0 to 4 D)
Linearity	± 0.01 D (in the range of 0 to 4 D)
Interinstrument agreement	± 0.02 D (in the range of 0 to 4 D)
Measuring ranges	density 0 –> 6 D (apertures Ø 2 resp. Ø 3 mm) density 0 –> 5.5 D (aperture Ø 1 mm resp. slotted aperture) dot area 0-100%, positive / negative
Resolution	0.01 D / 1% and 0.001 D / 0.1% 0.001 D (in the range of 0 to 1 D) 0.1% (in the range of 0.0% to 99.9%)
Spectral characteristics	V (λ) standard
Material to be measured	max. 15 mm thick, max. 610 mm wide
Warm-up time	none
Dimensions	47 cm x 31 cm x 17.5 cm
Length of measuring arm	32 cm
Light table	37.5 cm x 31 cm
Weight	approx. 7 kg
Options	special measuring tubes aperture Ø 0.5 mm serial interface



Color Control Systems, Inc.
1-800-793-8965

3537 Library Road
1-412-886-9208

Pittsburgh, PA 15234
FAX 1-412-886-9640