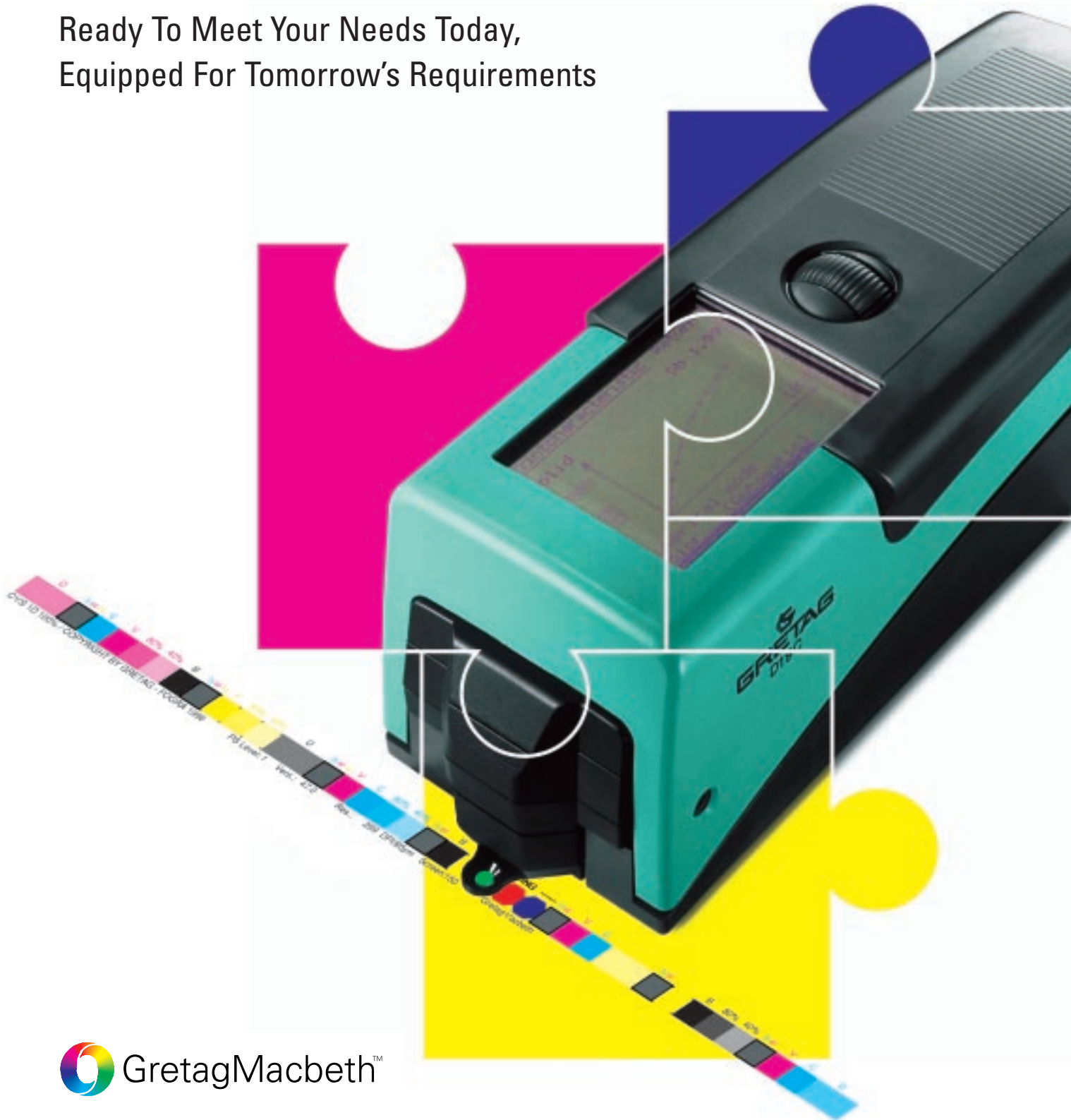


# D19C Densitometer

Ready To Meet Your Needs Today,  
Equipped For Tomorrow's Requirements



# Accurate, Flexible And Very Easy To Use

**Precision is a prerequisite. You expect accuracy and reliability. You appreciate simple operation. The D19C densitometer from GretagMacbeth provides it all in a single unit. It has everything you need, but gives you the flexibility to choose only what you want. You choose the functions that are important for your work in prepress and print production.**

Proven measuring technology combined with user-friendly operation. High quality manufacturing which guarantees the greatest possible durability. D19C – a densitometer that meets today's demands and a system that is sure to fulfill your future requirements. GretagMacbeth's experience and uncompromising quality guarantees convincing printed materials in brilliant quality.

## **A Basic Model Packed With Operating Convenience**

The basic model offers you high quality densitometry with the following features:

- Extendable measuring head for exact positioning and unsurpassed measurement stability.
- GretagMacbeth ring lens system ensures accurate results.
- Onboard software guides you step-by-step through the use of the measuring functions.
- Polarization filter allows you to easily match density measurements between dry and wet sheets.
- Innovative rotary wheel eliminates the need for buttons to push and also allows left or right hand operation.
- High resolution graphic display is extremely easy on your eyes.

## **Create A Personalized Densitometer To Meet Your Needs And Budget**

Additional functions are available and can be selected based on your needs, allowing you to create your own personal densitometer. This means you pay for only what you need. These functions can also easily be added later right at your location. When you call to order, you will be given a simple access code to activate the desired function.

## **Choose From A Range Of Both Classic Features And New Innovations**

**Density:** Measurement of ink film lay down. Lets you control and calibrate digital output devices. The density function minimizes color deviations invisible to the naked eye. Allows objective evaluation of proofs and production printing.

**Dot Gain:** Calculates halftone dot gain. The simple dot gain readout lets you take factors such as plate pressure, blanket types and print stock into account when adjusting the press. Allows calculation and control of the correct dot gain in proofs.

Simple menu-guided operation asks the user to enter paper white and solid tone values and measure up to three halftones. Individual steps in the procedure – such as a second measurement of 80 % – can be selected using the control wheel.



### **Convenience**

*Exact values, simple user-friendly operation*

Direct connection to the optional printer gives added confidence and security of the measured data when it needs to be shared or stored for future reference.



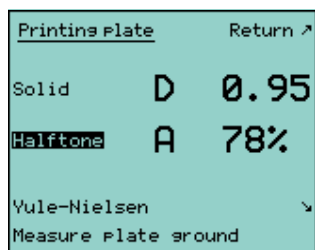
Print characteristics and automatic functions can be viewed in graphical form on the high resolution display and then printed automatically.

The measuring head extends at the touch of a button, thus eliminating additional hand motion. Measurements are always precise and on the exact spot. All measuring sequence values are shown on the display at the same time, in large clear figures.



Operating the graphic software interface could not be easier. Use the rotary control wheel to select a function from the menu and then press the measuring key to carry out the command.

Your customers value environmentally friendly materials when choosing paper and inks. The GretagMacbeth D19C helps you do your part. Its built-in rechargeable battery made of nickel-metal-hydride provides means you get more measurements while protecting the environment.



Dot gain		Return
Solid	D <sub>C</sub>	1.43
Halftone 80%	G <sub>C</sub>	8%
Halftone 40%	G <sub>C</sub>	11%
Color	[Automatic]	
Measure	paper white	

Auto.function 1      Return ↗

→ 

C	M	Y	B
1.48	1.26	1.06	1.76

 →

Sample       $T_C^M$       92%

Measure paper white

*Automatic function selection 1 with  
color trapping values in percent  
shown*



GretagMacbeth ColorNet™

# D19C

## Specifications

Basic model functions are already checked. Choose the additional functions you would like and put together your made-to-measure densitometer.

### Measuring functions

- ☒ Density
  - ☐ All densities, gray balance
  - ☐ Density difference
  - ☐ All Density differences
  - ☐ Dot gain
  - ☐ Impression line
  - ☐ Dot area
  - ☐ Printing plate measurement
  - ☐ Contrast
  - ☐ Trapping
  - ☐ Hue error / Grayness
  - ☐ Auto Function 1 / Auto Function 2
  - ☐ User password protection
- ☒ Automatic color detection
- ☒ Polarization filters
  - ☐ Without Polarization filters
- ☒ Normed filters for all standard colors and black
- ☒ Display reversal
- ☒ Display contrast adjustable
- ☒ Interface for printer / computer
- ☒ Measurement data with date and time printable
- ☒ Extendable measuring head
- ☒ Step-by-step user guidance with the control wheel
- ☒ 32 reference values stored
- ☒ Ring lens system
- ☒ Data interface RS 232 C

### Operation

Control wheel and measuring key

### Display

Digital LCD, 160 x 128 pixels, full graphics

### Measuring geometry

0°/45° Ring lens system

### Light source

Filament bulb approx. 2856 K

### Color filter:

Filter set 47B DIN 16536

Filter set 47 ANSI status T

Filter set NB DIN 16536 interference filter

Filter set SPI ISO status I interference filter

### Measuring range

0.00 D – 2.50 D

### Reproducibility

± 0.01 D

± 1 % (for dot area)

### Linearity

± 0.01 D or ± 1 %

### Interinstrument agreement

± 0.02 D or ± 2 %

### Measuring aperture

Ø 3.6 mm (9/64 in)

### Calibration

Slope: For density measurement

Zero: Automatic

### Polarization filter

2x linear (tube P)

### Warm-up time

none

### Power supply

Rechargeable battery NiMH, nom. 7.2 V, 1000 mAh, Rechargeable battery NiCd, nom. 7.2 V, 600 mAh

### Charge time

approx. 3 hours, automatic disconnection

### Charge status

automatic capacity checking and display; additional lithium battery for data memory

### Measurements per charge

approx. 6'000

(with rechargeable battery NiMH)

### Measuring time

approx. 0.8 s

### Data interface

RS 232 C. Densitometer can be controlled by a remote computer (details available on request)

### Clock

Date and exact time

### Weight

approx. 890 g (1.96 lb)

### Dimensions

8.3 x 8.0 x 24.5 cm (3.3 x 3.2 x 9.6 in)

### Accessories

Calibration card, operating manual, charger

Specifications subject to change without notice

For more information on the D19C, please contact your nearest GretagMacbeth representative.



Switzerland:  
United States:  
Germany:  
United Kingdom:  
China:

Althardstrasse 70, CH-8105 Regensdorf, Tel: +41 1 842 24 00, Fax: +41 1 842 22 22  
617 Little Britain Road, New Windsor, NY 12553-6148, Tel: 800-622-2384, 914-565-7660 (Outside USA and Canada), Fax: 914-561-0267  
Siemensstrasse 11, D-63263 Neu-Isenburg, Tel: +49 61 02 79 57 0, Fax: +49 61 02 79 57 57  
Macbeth House, Pacific Road, Altrincham, Cheshire WA145BJ, Tel: +44 161 926 9822, Fax: +44 161 926 9835  
12A Wardley Centre, 9-11 Prat Avenue, Tsimshatsui, Kowloon, Hong Kong, Tel: +852 2368 7738, Fax: +852 2368 6717

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