

# Gretag Macbeth D196 47B/P Densitometer



## Gretag Macbeth D196 Densitometer

Category: Measurement -> Remission-Densitometer

Manufacturer: X-Rite+GretagMacbeth

Not-New

Gretag Macbeth D196

Basic functions

The available basic functions have been marked with an "X"

### 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)

Specifications subject to change without notice

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