



# 508 Color Reflection Spectrodensitometer



## An Affordable Solution For Basic 4-Color Quality Control

The X-Rite 508 Spectrodensitometer brings the newest color control technology to a device designed specifically for basic 4-color reproduction.

Spectral technology gives the 508 unmatched performance in monitoring basic quality control for process color print jobs. The unit goes anywhere to quickly measure common density and dot functions. The 508 is ideal for basic commercial, publication packaging, and newspaper printing operations.

## The 508 Is Ideal For Basic Prepress Applications

It measures GATF proofing bars, QuarkXPress® color bars, Ugra/Fogra color control elements and other quality control targets used during the prepress process.

## The 508 Is Ideal For Newspapers

X-Rite includes specialized 4-color newsprint functions within the 508 to ensure color accuracy and consistency across press runs and over time. These include newsprint-specific density functions and gray balance. The 508 achieves precise color quality control with newsprint and inserts by simultaneously measuring the densities of cyan, magenta, and yellow in a special News mode. Simply measure a three-color gray bar, masthead, banner, weather map, or another color element. The 508 instantly informs you whether any of the colors need adjusting.

## Spectrally Based

All of X-Rite's 500 Series models capture high-resolution spectrophotometric data, which is used as the basis for all of our color and density values. X-Rite's spectral technology produces the highest level of inter-instrument agreement available in densitometers today. This means you can trust X-Rite's 500 Series technology to give you the most accurate, consistent, comparable color measurements from different presses, among suppliers, between customer and the printing facility, and from two or more printing sites.

## Large Interactive Display

The 508 boasts a large, crisp graphic display configurable for left- or right-handed operation. This same high-resolution display also features full menu commands in multiple languages, to meet the needs of most any location (including English, French, German, Italian, Portuguese, Spanish, Chinese and Japanese plus additional languages).

## Intelligent User Interface

An intuitive key-pad uses universally understood up/down arrow keys and a select key to easily navigate menu items. For efficiency,

we also included a "back" key, and an "escape" key, which quickly and easily takes users back to the main menu.

## On Target

Another X-Rite first is our unprecedented microspot aperture size that is as small as 1.6mm x 3.2mm. This option makes short work of targeting special-color or density measurements. Just locate a bar code, some solid type, or a graphic element and quickly check the color.

## Ergonomic Design

All of our new hand-held instruments apply ergonomic concepts to fit naturally in your hand. The targeting shoe clearly pinpoints the measurement area so you get the right measurement every time.

## Rugged Construction

The 500 Series instruments absorb the inevitable bumps of everyday use. The 500 Series carries the tradition of being perhaps the most durable instruments in the industry. You will get years of accurate and reliable performance.

## User Interface

- Sharp/reversible display
- Left- or right-hand operation
- Interactive menu and key system
- Clear recognition of function when measuring
- Auto color select
- High resolution LCD display
- Multiple language support
- Calibration Alert feature

## Security

- Lock out of specified functions
- Lock out of configuration menu
- Security cable (optional)

## Density Features

- Density (absolute or minus paper)
- Density Difference (16 reference values)
- Dot Area (Tone Value)
- Dot Gain w/triple reference
- News mode
- Selectable User Configuration (US, Euro, NewsBalance, News3-Color)
- Selectable Status Response (T, E, I, A, G, Tx, Ax, Ex, & Hi-Fi)

## Accessories Provided

- Calibration Reference
- Getting Started Guide
- CD Operator's Manual with Training Video
- AC Adapter
- Carrying Case
- 3 year warranty

Note: X-Rite calibration references are traceable to the U.S. National Institute of Standards and Technology through Munsell Color Science Laboratory RIT.

## Options

- Polarization Filter (not available on 2.0mm version)
- Ultra Violet Filter
- 2.0mm Aperture (not available with polarized version)
- 6.0mm Aperture
- Microspot Aperture 1.6mm x 3.2mm (available as factory option only)
- RS-232 Interface Kit
- Security Cable
- External battery charger and extra battery
- Extended warranty coverage (contact factory)

## Specifications

### Measurement Geometry

45°/0° per ANSI, DIN & ISO Standards

### Spot Size at Sample

3.4mm (.13in) standard  
2mm (.078in)  
6mm (.236in) optional  
1.6mmH (.051 in.) x 3.2mmW  
Micro-Spot (.102 in.)

### Light Source

Gas Pressure @ 2856°

### Response Types

T, E, I, A, G, Tx, Ax, Ex, Hi-Fi

### Measurement Range

0.00D–2.5D; 0–160%R

### Measurement Time

Approx. 1.4 seconds, approx.  
.9 seconds for consecutive  
measurements in Speed Read  
mode

### Warm Up Time

None

### Repeatability

±0.005D 0–2.0D\*  
±0.010D 2.0–2.5D\*  
\*Polarized Yellow ±0.010D 0–1.8D  
Micro-Spot ±0.010D 0.0–1.8D

### Inter-Instrument Agreement

0.01D or 1% for typical  
printing processes

### Data Interface

RS-232 serial interface  
with baud rates from 1200 to  
57.6K communication

### Power Source

Ni-MH battery pack,  
4.8v rated @ 1650mAh

### Charge Time

Approximately 3 hours

### Environmental

+10°–35°C operating,  
30%–85%RH non condensing

### Physical

#### Dimensions

Height: 81mm (3.2in)  
Width: 76mm (3.0in)  
Length: 197mm (7.8in)

#### Weight

1050 grams (2.3lbs.)



xrite.com

ISO 9001  
Certified

#### X-RITE WORLD HEADQUARTERS

Grandville, Michigan USA  
(616) 534-7663  
(800) 248-9748  
FAX (616) 534-8960

#### X-RITE LATIN AMERICA

Hollywood, Florida USA  
954-927-4979  
FAX 954-927-4979

#### X-RITE LTD.

Poynton, Cheshire  
United Kingdom  
44 (0) 1625 871100  
FAX 44 (0) 1625 871444

#### X-RITE MEDITERRANEE

Massy, France  
33 1-6953-6620  
FAX 33 1-6953-0052

#### X-RITE ITALY S.R.L.

Origgio (VA), Italy  
(39) 02-967-34266  
FAX (39) 02-967-30681

#### X-RITE GmbH

Köln, Germany  
(49) 2203-91450  
FAX (49) 2203-914519

#### X-RITE INTERNATIONAL TRADING LIMITED

Shanghai, PR China  
86-21-6427-2426  
FAX 86-21-6427-5816

#### X-RITE ASIA PACIFIC LTD.

Quarry Bay, Hong Kong  
(852) 2-568-6283  
FAX (852) 2-885-8610

#### X-RITE IBERICA

Barcelona, Spain  
34 93 567 70 73  
FAX 34 93 567 70 78

#### Vyskov, Czech Republic

(00) 420 517-320-331  
FAX (00) 420 517-320-335

#### Tokyo, Japan

81-3-5439-5971  
FAX 81-3-5439-5972

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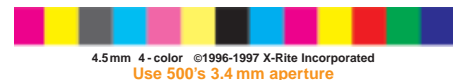
L7-170 (03/04) Printed in U.S.A.



1.6 x 3.2mm 4-color ©2000 X-Rite Incorporated  
Use 500's micro-spot aperture



3.2mm 4-color ©2000 X-Rite Incorporated  
Use 500's 2.0mm aperture



4.5mm 4-color ©1996-1997 X-Rite Incorporated  
Use 500's 3.4mm aperture