



# TeleFlash™ Compact

Compact, non-contact spectrophotometer

Non-contact  
Color Measurement

TeleFlash Compact measures color and evaluates color deviation through a unique spectrophotometer designed to accommodate virtually any sample, from the most textured and finely patterned to the glossy and wet. Although compact in size, TeleFlash Compact provides a large measurement area suited for a variety of surfaces, including extruded vinyl, bulk goods, coil coatings, synthetic films, paints (wet and dry), textiles, carpeting, granules, food pigments, paper, powders, glass, ceramics, metal, minerals and plaster.



EXPERIENCE  
the measurable color difference.™

# TeleFlash™ Compact

- The latest evolution of non-contact spectrophotometers
- A myriad of uses, from highly structured materials and granules to paints and powders
- Large measuring area with minimal sensitivity to sample distance variations
- Ideal complement for the laboratory or production area

## Applications Abound

Meet TeleFlash Compact, the gateway to non-contact, non-destructive color measurement in the laboratory or production area. Have a special application? Just equip TeleFlash Compact with a tripod, working table or movable measuring table. The system even assimilates into environments that are very dusty or require explosion-proof protection.

## Precise. Innovative. Flexible.

On target and in time, TeleFlash Compact elevates both color measurement and quality assurance.

TeleFlash Compact measures color from a distance of up to five feet, tolerating small variations in the measuring distance from system to sample. Color quality is a sure thing with visual graphics and acoustic warnings that indicate when color tolerances are exceeded.

TeleFlash Compact may be accompanied by software that performs quality assurance, color formulation and color correction. Additional options include a non-contact pyrometer that measures sample surface temperature. Combine the pyrometer with a heating and cooling element for thermochromism compensation that delivers accuracy without the wait.


## Standard Configuration

- TeleFlash Compact spectrophotometer
- Certified calibration standards
- Personal computer with Windows® operating system (optional)
- Software for quality control and color formulation (optional)
- Available formulas for calculation of differences in color: CIELab, HunterLab, CMC (l:c), CIE 94 (1:1:1), XYZ, Yxy, CIEUCS, CIELUV, whiteness indices (ASTM E313-73, Stensby, CIE), yellowness indices (ASTM D1925-70), index of metamerism, density (visual, filter: 29, 30, 33, 47, 47B, 50, 61, 70, 72B)
- Available illuminants for 2° and 10° observation: D65, D75, D55, D35, A, TL84, F2, F7, P, C, HOR, EGS, B, G, Xe, ADN

## Additional Products

- Online color measurement systems for production
- Non-touch gloss measurement in production
- Software packages for color quality control and color formulation

## Specifications

**Measuring Geometry**  
Alpha/Alpha 

**Light Source**  
Xenon Flash Lamp

**Measuring Range**  
0 -160% reflectance light source

**Spectral Range**  
400 to 700nm

**Monochromator**  
Dual beam, 16 channel monochromator

**Measuring Time**  
100 - 600  $\mu$ s micro seconds (depends on distance)

**Measuring Interval**  
Minimum 2 seconds

**Short-Term Repeatability**  
 $\leq 0.05 \Delta E_{CMC}$  (2:1) for 12 colored tiles (BCRA)

**Long-Term Repeatability**  
 $\leq 0.20 \Delta E_{CMC}$  (2:1) for 12 colored tiles (BCRA) (for 42 cm measuring distance)

**Inter-Instrument Agreement**  
 $\leq 0.30 \Delta E_{CMC}$  (2:1)

**Measuring Distance Range**  
16.5" - 59.1" (42 - 150cm)

**Distance Stability**  
 $\leq 0.10 \Delta E_{CMC}$  (2:1) for 10mm

**Measuring Area**  
2.4" - 5.1" (60 - 130mm) diameter (depends on distance and optical configuration)

**Mounting Angle**  
22.5° from the surface normal (required by the measuring geometry)

**Calibration**  
Black and white (external)

**Data Output**  
Serial, RS 232 (DB 25, female), 9600 baud

**Working Environment**  
10 - 60°C, 10 - 90% relative air humidity (non-condensing)

**Power Supply**  
90 - 265 VAC

**Dimensions**  
6.3" H x 10.6" W x 15" L  
160 H x 270 W x 380 L (mm)

**Weight**  
Approx. 21 lbs. (9.5 kg)



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**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 MÉDITERRANÉE**  
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

**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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L10-195 (10/03) Printed in U.S.A.