

Professional & Commercial Photographic Lab Densitometers

Easy to operate process control solutions



Designed for Professional & Commercial Lab Needs

Quality control is essential to the daily operation of every professional and commercial lab. X-Rite has a range of solutions to meet these demanding requirements with the 810/811/820 and 310 transmission/reflection densitometers. Whether you need to measure small control strips or larger format film, X-Rite has a solution to fit the need. The simple, easy-to-use instruments may also be interfaced to software packages to allow data to automatically be captured for a more complete analysis and review.

Feature Comparison

Teatare companion									
	820	811	810	310		820		810	310
Status "M" Transmission		•	-	-	Reference Strip Storage	-			
Status "A" Transmission				-	In/Out Limit Indication				
Status "A" Reflection			-	-	Internal Clock & Calendar				
Automatic Strip Reading					Compatible with QCLocal™ Software				
RS-232 Interface	-	-	-	-	Kodak Q-Lab™ Compatibility	-			-
Direct Plotting Ability	-				QCNet II [™] Compatibility	*			
Storage Channels	20				Interneg Calculations	•			
Strip Storage per Channel	30				*Requ	ires I	Exter	nal M	odem



810/811

Designed for professional applications.

- Compact and convenient.
- Both the 810 and 811 measure print processor control strips and negative control strips.
- Simultaneous Color Measurement shows all three colors in one reading.
- The 810 and 811 both interface with computerized systems.

The 810 allows for manual measurement of film and paper control strips. Its simple design has made it accepted by mini-lab operators through out the world. In addition, the 811 has a Status "A" response filter for E-6 processing, making it ideal for professional lab applications.



820

The most complete transmission/reflection densitometer available.

Features:

- · Contains a library of predefined processes.
- Contains over 20 databases each capable of storing the last 30 control strips read.
- Totally eliminates manual plotting with printable charts.
- Simplifies process readings.

The 820 is a complete process monitoring system designed for the demanding professional or mini-lab. It's sophisticated design allows for more functionality. Plus the 820 can talk to computer and modem alike, connecting you to your main lab or network.



310

The professional laboratory's highest standard.

- High accuracy process control readings.
- Hermetically sealed filters to protect against dust, moisture and filter fade.
- Larger size and long arm enable use with large material.
- Designed to interface with computers.

For quality control with extremely accurate results, the 310 has a long track record. It's larger size and shape allows for easy testing of materials both large and small. It is able to measure negative and positive film on the light table, or paper using the remote probe. Interchangeable apertures allow accurate measurement of areas as small as 1mm.

Specifications for 810/811/820, 310

Reflection

Response

Status A

X-Rite Visual, Status A (310)

Measuring Range

Accuracy

±.02D

Repeatability ±.01D

Zero Stability Per 8 Hours

±.02D

±.01D max. (310)

Scale Factor Stability

±1% per year

±1% max. per 6 months (310)

Warm-Up Time

2 minutes

1 minute (310)

Measuring Area

4.67mm (3/16 in.) (310)

Time Accuracy:

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Grandville, Michigan USA

±30 seconds per month typical (310)

Transmission

Response

Status M (810) Status A & M (811, 820, 310) Visual: X-Rite Visual (310)

Measuring Range

0-4.0D

Accuracy

±.02D (0-3.0D) ±1% (3.1D-3.5D)

±3% (3.6D-4.0D)

 $\dot{w}/3$ mm aperture $\pm .02D$ from 0-3.7D, $\pm 1\%$ to 4D

w/2mm aperture ±.02D from 0-3.4D

w/1mm aperture ±.02D from 0-3.0D

Repeatability

±.01D

Zero Stability Per 8 Hours

 $\pm.02D$

Scale Factor Stability

±1% per year ±1% per 6 months (310)

Warm-Up Time

2 minutes

Measuring Area

1mm, 2mm or 3mm (310)

Time Accuracy:

±30 seconds per month typical (310)

Operation for 810/811/820

Line Voltage 90-120V, 180-240V

Operating Temperature Range

10°-30° C, 50°-86° F (810, 811, 820)

Power Requirement

50 VA Max. (810, 811, 820)

Weight

Actual: 11.00 lbs. / 5 kg (810, 811, 820) Shipping: 13.25 lbs. / 6 kg (810, 811, 820)

Dimensions

Height: 5.88 in. Width: 8.63 in.

Length: 11.13 in. (810, 811, 820)

Line Frequency

50-60Hz (810, 811, 820)

Relative Humidity

≤ 76% (810, 811, 820)

Specifications and design subject to change without notice.



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