

Comes with a data correction function to provide good compatibility with previous models.

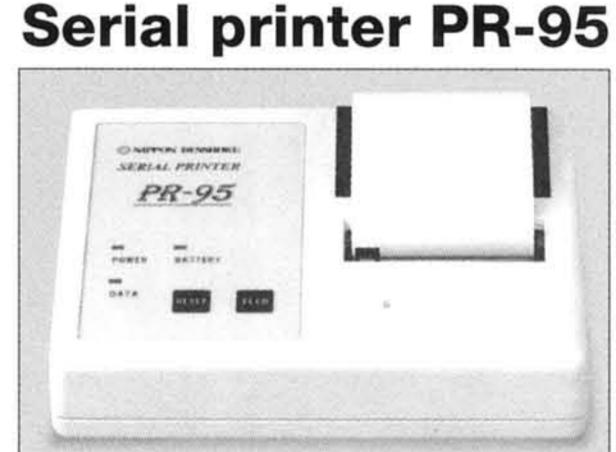
Can store 500 data pieces and exchange data with a personal computer. This model is even more powerful !!!

> This meter is traced by the Japan Color Research Institute (JCRI).



- To control the gloss and reflection density of leadflame, electronic devices, metals, building materials and precision equipment, etc.
- To control the reflection density (OD) and reflection rate of printing, paper, etc.





Option

Features

Compact and lightweight

The compact size and lightweight makes it easy to carry anywhere, indoors and out, and to allow simple measurement using just one hand.

Simple operation

Just turn on the power and wait for it to calibrate, then place it on the sample position and press the head to begin measurement. Easy for anyone to use.

Accurate target alignment

Comes with a film-like target mark to make possible accurate target alignment even when measuring small locations.

Energy-saving design

Powered by 4 internal Ni-Cd batteries. An automatic power off function can be set to one of four different time periods to automatically turn the power off if you forget to. This prevents the battery power from being wasted.

In addition to the visual reflection density and yellow density, a variety of other reflection rate measurements can be conducted with just this one device.

The visual reflection density is useful for measuring silver-color gloss and yellow density is useful for measuring gold-color gloss.

Measurement data storage and batch output

Up to 500 pieces of measurement data can be stored and measurement data can be output in batch for a freely specified data range. Data can be output in order by connecting a printer or computer to the external output connector.

Average value calculation function

The measurement averages value for up to a maximum of 9 points. If a printer or computer is connected to the external connector, the average element data or average value data can be output for each measurement.

Data compensation function

To ensure a good compatibility with previous models, a very convenient function that uses a freely measured point to compensate the calibration slope with one touch is provided.

Full range of options

- . Serial printer (PR-95)
- 2. Communications cable for connecting a personal computer or printer. 3. Data communication software that transfers data measured to and
- makes possible storing files by the personal computer.

Specifications

Name and model: Densitometer ND-11 External dimensions:

210 mm L × 72 mm D × 50 mm H

Weight: 530 g (including batteries) Optical conditions: 0° -45° directional light reception (ISO 5/4, ANSI PH2.17, DIN 16536)

Light source: Halogen lamp (approx. 2,856°K)

Photosensitive element: Photodiode Measurement radius:

3 mm ϕ standard (The diameter of the target film is 4.5 mm.) $1.7 \, \text{mm} \, \phi$ (The diameter of the target film is 2.5 mm.)

 $1.0 \, \text{mm} \, \phi$ (The diameter of the target film is 2.0 mm.) Sensitivity measurement: Spectral luminous efficacy, yellow (ISO 5/3 Status T equivalent)

Measurement items: Reflection density, reflection rate

Reflection density: 0.00 to 3.00 D or higher (The range exceeding 2.50 D Measurement range:

should be used as a reference.) 0.00 to 100.0% Reflection rate:

Display resolution: Reflection density: 0.01 D, Reflection rate: 0.1%

Repetition accuracy: 3.0 mm ϕ (standard): ± 0.01 D (2.0 D or less) 1.7 mm ϕ : ± 0.02 D (1.0 D or less), ± 0.06 D (2.0 D or less)

1.0 mm ϕ : ± 0.03 D (1.0 D or less), ± 0.10 D (2.0 D or less)

Calibration: Straight-line calibration using 2 black and white points.

Data compensation function: Data compensation function to ensure good compatibility with previous models

Averaging measurement: The average value of the reflective density for 2 to 9 points can be calculated

with one touch. Measurement time: Approx. 1 sec.

Automatic power off: Up to 4 different time periods can be set.

Battery remaining power display: The remaining battery power is continuously displayed on the LCD.

Built in (The buzzer can be turned off.) Buzzer: Measurement data storage: Up to 500 data pieces.

Display dimensions:

Measurement data output: Measurement data can be output in a batch in a freely settable data range. 128 × 64 dot matrix liquid crystal display (with contrast adjustment function)

Display area size: $62 \times 44 \text{ mm}$ Display highlight function: Built in

Power supply: Built-in Ni-Cd batteries 4.8 V. 800 mAh

Charging time: Approx. 90 min.

Number of measurements on a full charge: Approx. 5,000 times (A at temperature of 20 to 25℃ and

measuring at 10 sec intervals.) Operational temperature range: 5 to 40°C (when no condensation forms.)

External communications function: RS-232C (19,200 bps, 9,600 bps, 4,800 bps, 2,400 bps)

Can be connected to a serial printer (PR-95) and the output items can be Data printing:

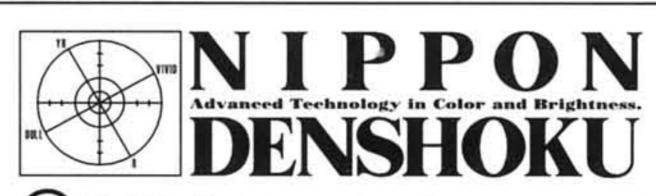
selected.

Standard accessories: Soft case, calibration plate, AC adapter, instruction manual Options:

Serial printer (PR-95), communications cable, data reception add-in software for Excel, standard plate for accuracy management

* The above specifications are subject to change at any time without prior notice.

Dealer Name



(NIPPON DENSHOKU INDUSTRIES CO., LTD.

HEAD SALES DEPT. / SENGOKU HASEGAWA BLDG., 4-45-17 SENGOKU, BUNKYO-KU, TOKYO 112-0011 JAPAN PHONE: 81-3-3946-4392 FAX: 81-3-3946-1690

OSAKA SALES DEPT. / SHIN-UMEDA BLDG., 2-2-1 SHIBATA, KITA-KU, OSAKA 530-0012 JAPAN PHONE: 06-6372-2963 FAX: 06-6372-4498

⊕日本電色工業株式会社

本社営業部/〒112-0011 東京都文京区千石4-45-17(千石長谷川ビル)

PHONE: 03-3946-4392(代) FAX: 03-3946-1690

大阪営業部/〒530-0012 大阪市北区芝田2-2-1 (新梅田ビル) PHONE: 06-6372-2963(代) FAX: 06-6372-4498

Home Page

http://www.nippondenshoku.co.jp/