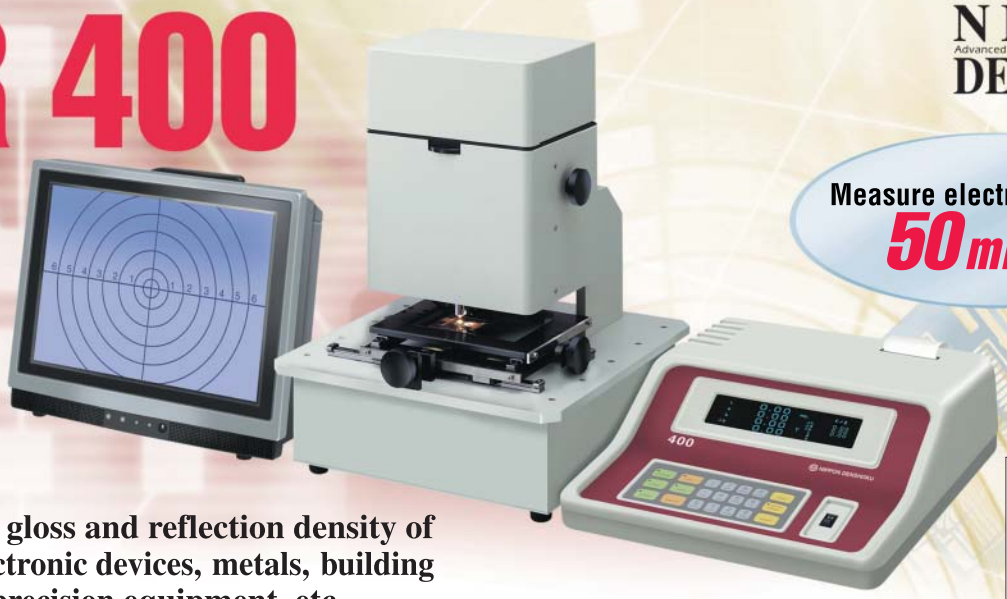
MICRO COLOR METER

NEW MODEL

VSR 400

NDK NIPPON DENSHOKU
Advanced Technology in Color and Brightness.



Measure electronic devices
50 micron

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.

JQA-QM7364 091-A

ISO 9001 certificate: Obtained in 2000

Features

- *Directly measure very small measurement area.*
- *Measure the value of the various color formula and gloss of plating at the moment without touching sample.*
- *Adopts the 200 × 150mm sample bed which allows to measure large the sample.*
- *Loads the color CCD camera which focusing the correct measurement point.*
- *Possible to measure the gloss of the gold plating and the silver plating.*

Specifications

Sensing unit

Dimensions	W360mm × D360mm × H460mm	**Power Supply**	AC Power supply
Light Source	Halogen Lamp	**Sample Bed**	200mm × 150mm X: 120mm Y: 90mm Z: 50mm
Measuring Area	0.05mmφ, 0.1mmφ, 0.2mmφ, 0.5mmφ,		
Illumination / Light-receiving Condition	45°−0° method, 45° illumination-vertical light-receiving	**CCD camera**	Color
		Monitor	13 inch color LCD

Measuring unit

Dimensions	W350mm × D360mm × H110mm	**Display Unit**	Fluorescent display tube Display dot number: 256 dots × 64 dots Emitted color: Blue-green
Measuring Item	B black mode Y yellow mode (Reflection density, gloss) Lab, ⊿Lab, ⊿E L*a*b*, ⊿L*a*b*, ⊿E YI, W, WB, ⊿YI, ⊿W, ⊿WB, XYZ, Yxy	**Standard Data Setting**	Measurement values and standard values can be set from keyboard. (external input).
Printer	Thermal serial dot method, Thermal printer ● Printing direction: forward and backward ● Feeding dot: 256 dots × 8 dots ● Printing speed: 1.1sec/line ● Paper width: 80mm	**Sample Name Input Function**	Sample name can be entered in alphabetical large characters or numericalc characters.
		Clock Function	Measurement time (YY/MM/HH/MM) can be printed with the measurement data.
		External Output	Measurement data, date/time (YY/MM/DD) details, and specimen name can be transmitted in ASCII codes via RS-232C interface.
Measurement Accuracy	High-speed, high-accuracy measurement is assured with the use of a high-speed 16 bit A/D converter (internally calibrated at 18 bit accuracy with built-in self-calibration function) and a low-drift, high-speed, high-accuracy amplifier.	**Average Value Mode**	Averaging frequency can be set to any value (up to 99 times), Average printout is also selectable.
		Memory Backup	Built-in lithium dry cell for safe storage of all setting.
		Operating Conditions	0°~40°C, 30~80%RH

※ The accuracy of this model is traceable to the national standard of the Japan Color Research Institute (JCRI).

Dealer Name

NDK NIPPON DENSHOKU
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NIPPON DENSHOKU INDUSTRIES CO., LTD.

HEAD SALES DEPT.

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