

# VC-050 VeriColor Sensorkopf

**BRAKENSIEK®**  
SYSTEMHAUS



VC-050 sensor head VeriColor

- High spectral resolution for non-contact measurements
- Is not affected by ambient light
- 1.3 mm measuring field
- NEMA 4 (IP-67) package

### System and Farbüberprüfung Farbidentifikation

The VeriColor™ system from the home X-Rite will help you to reduce or avoid errors farbbezogene and thereby speed up the assembly and sorting. It also supports the latest required sequential work process.

VeriColor The system offers the first sensor on an industrial scale, which offers them spectrophotometric color accuracy in the workshop. It is a solid measurement system (without lights or moving parts) that from ambient light, and within certain limits, even on uneven abstandsunempfindlich structures of object surfaces. VeriColor The system uses more wavelengths than other lighting on the market in similar color measurement applications. Advanced signal processing processes ensure that these additional color data lead to highly precise and repeatable results.

VeriColor The system combines the advantages of noncontact industrial color sensors with unsurpassed accuracy of spectrophotometers in the laboratory. The system was developed to meet the highest standards for shock, heat and moisture resistance in the industrial sector. VeriColor is a complete system, consisting of a central control station, sensor heads and software for the Windows® operating system, which makes it both system administrators and users easily VeriColor to integrate into existing systems and to use all the flexibility.

### The right color, right place at the right time

VeriColor The system was developed to meet the increased demands on the color control of suppliers of auto parts such as interior paneling, decorative and attachments to meet. The high-quality method for color control and identification are particularly advantageous for suppliers of parts, which are processed on a conveyor belt as a function of purchase requisitions or the In-Line Vehicle Sequencing (MEMS) must meet requirements for the delivery and processing of parts.

The system can VeriColor in all areas where color can be controlled quickly and precisely identified must be useful, for example in the pharmaceutical industry, cosmetics and food industry.

The advantages of VeriColor are not limited to the patented, high-resolution color sensors. It is the first complete system of its kind that is specifically designed for the problematic color determination in the rapid assembly and sorting world of today.

- High spectral resolution for a more exact color definition: The system detects VeriColor more color detail than other industrial Farbsensorsysteme. Since lighting is conducted across the spectrum, even the slightest differences in color on different surfaces are detected. VeriColor can not be fooled by metamerism effects, in which colors look under different lighting conditions the same.
- Non-contact measurements: The VeriColor system is able to perform non-contact measurements. It is both insensitive to changes in distance as well as against curved surfaces and irregularities. The non-contact measurement methods make the device practical and flexible in virtually any environment and application.
- Not affected by ambient light: with VeriColor you need not worry about measuring errors due to scattered light. You do not need a special up to the general lighting be shielded from the device. The system provides accurate, repeatable measurements in the light conditions under your workshop.
- Data storage for up to 50 active colors: VeriColor can distinguish between thousands of colors and stores the color data of up to 50 active colors at once. So you do not install again and again to re-program, but it often can even check all the colors of the entire product range.

- **Rugged design:** The VeriColor system is robust and insensitive because it is not exposed to mechanical stress. The lamp life is estimated at more than 25 years. The system provides constant power adjustment work without continuous Wartungsoder. Keep only clean the lens, that's about it.
- **Designed for harsh conditions:** The system was designed to make him too hot, cold, humidity, shock, vibration, pollution and other environmental impacts from a work environment nothing.
- **Rapid establishment and expansion:** The VeriColor system adapts to your situation at any time. The station can be fitted to be mounted on a rail, and the sensors in series, so the system can be flexibly integrated into your work environment. Components and configuration can be changed quickly or replaced.
- **Configuration options for increased productivity:** The communication may, for example, via RS-232, RS-485, PLC and Ethernet interfaces are implemented. Configure the system manually or by using the Windows software that offers many different configuration options. This allows you to create a productive, comfortable operation environment for the user.

The VeriColor offers you far more than just an excellent sensor head. It is a simple integrated system that can be operated with a Windows program, and thus adapts to all situations. The robust sensor head can be individually mounted on a rail, or be connected in series (maximum 6 per row). The sensor heads are designed for the high load of a system that continuously positioned and inspected parts. The modular station can be mounted up to 5.70 m away from the sensor heads.

The VeriColor system is the latest development of X-Rite, Incorporated, the global leader in color science. We have always focused on the needs of color and image processing industry, for example in medicine, photography, graphic design and in the plastics, coatings, automotive and textile industry.

In the industrial area of X-Rite has long been recognized as the leading supplier of advanced and reliable systems for color formulation and quality control. With VeriColor X Rite now offers solutions for color management directly in the manufacturing process.

Get to know the system today VeriColor

The VeriColor system revolutionizes the Color in the automotive industry. In addition, new areas are found where the accurate color control or identification in the assembly and sorting process is important. Contact directly to your local branch if you want to know more about VeriColor or want to see a demonstration of the features on the ground. Contact information can be found on the back of this brochure.

#### General information

High-resolution device Auflichtfarbsystem

Geometry 0 / 30 °

Measurement field 12 or 6 mm aperture

Color Resolution DELTA.E 0.25 \*, (typical)

Illuminant / observer No color differences are shown in DLED (similar DELTA.E)

Operating temperature 0-50 ° C

Operating Humidity 0-95% (non condensing)

Housing data NEMA-12/NEMA-4, 6, or IP-67 (Station / head)

Station Dimensions L: 17.5 cm, W: 10.7 cm, H: 8.1 cm

Station Weight 700 g

Sensor Head Dimensions L: 13.0 cm, W: 7.4 cm, H: 3.3 cm

Messkopfgewicht 325 g

Power supply 18 - 30V AC or DC, 3 amps

#### Performance data

Repeatability of 0.05% on Black Reflection (0,3 DELTA.E) at 00-40 ° C

0.15% repeatability on white reflection (about 0.1 DELTA.E) at 00-40 ° C

Lamp life 25 + years (1 measurement / sec. 24 / 7)

Ca calibration interval. 90 days

Measurement time 250 ms

Waiting time between measurements 1 sec

Measuring distance 40 mm from the lens  $\pm$  4 mm positional tolerance



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