



SEE TRANSLUCENT COLORS

DATA SHEET

ColorMax VIEW™ Translucent color verification

Verify color of translucent glass and plastic containers with on-line, high-speed, accurate and reliable measurements. The ColorMax VIEW™ combines proven sensor technology with innovative hardware to provide an easy-to-use system to measure color in a wide variety of applications. Many products require tight control of color for aesthetics, product uniformity and often to protect from the damaging effects of light. Establishing pass/fail criteria for the color characteristics of various translucent packings materials and providing on-line measurement eliminates defects and allows real-time quality control of these processes. The ColorMax VIEW™ system provides a reliable solution, allowing each and every item to be verified to meet it's color requirement.

The ColorMax VIEW™ provides two color recognition channels with separate discrete, high-speed outputs indicating a color match. Serial data output allows external systems to measure the color and optimize the concentration of colorant in the manufacturing process, improving efficiency and reducing cost.

The ColorMax VIEW™ application software improves sensor set-up by providing visual feedback of red, green and blue levels of the target. Individual tolerance settings allow easy adjustment of pass/fail criteria. The illumination level adjustment provides control of light source intensity for optimum control over a wide range of colors from nearly transparent to nearly opaque. The sensor utilizes a modulated light source, eliminating sensitivity to ambient light. Application software interface prevents unauthorized changes to sensor settings on the factory floor.

On-line opacity verification with the easy-to-use ColorMax VIEW™ system.

- Modulated, wide spectrum white LED light source.
- Application program for comprehensive control of sensor settings.
- Serial data output for external analysis of color data.
- Two high-speed discrete color recognition channels with 330uS response.
- Three analog output channels (red, green and blue) for external level monitoring.
- Adjustable brackets provide quick set-up and integration into your process.
- Laser position sensor indicates container positioned for measurement.
- Rugged construction.

Applications:

The ColorMax VIEW™ system was specifically developed for on-line color verification of translucent packaging containers used in pharmaceutical, food, beverage, personal care and a variety of other applications. Container materials include PET, Glass and other translucent materials such as films.

ColorMax VIEW™

Features

- **Fast response time**
- **Highest resolution**
- **PC-based configuration software**
- **Programmable discrete outputs**
- **Serial data output**
- **Analog outputs (RGB)**
- **USB / RS232 interface**
- **Lock out operator from changing settings**
- **Exclusive M30 housing**
- **Laser-Mark position sensor**
- **Adjustable bracket configuration**



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**For quotes and questions,
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ColorMax VIEW™ Translucent Color Verification

Functions

COLOR RECOGNITION	Up to 2 channels.
AVERAGING	1 to 64 readings.
TEACH	RGB values from 1 to 100%.
TOLERANCE	0.5% to 50%.
EXTERNAL TRIGGER	Level, Edge, Free-Run.
ILLUMINATION	0 - 100%.
DISCRETE OUTPUTS	High or Low (Vcc or ground).
RGB VALUE DISPLAY	Bar graph - absolute value, Pie chart - relative value.



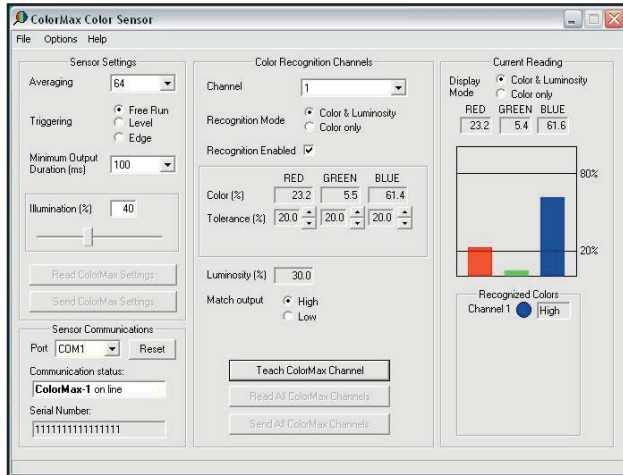
Specifications

Light Source	White LED
Detection Range	Up to 300mm
Switching Frequency	20 kHz
Receiver	RGB photodiode
Discrete Outputs	2
Communications	RS-232C / USB
Protection curcuitry	Reverse polarity, over current (PTC thermal resettable fuse)
Power	12 - 30 VDC
External trigger	12 - 30 VDC
Operating Temperature	-10 to 55°C
Storage Temperature	-20 to 70°C
Mechanical Protection	IP67 NOT FOR PRESSURE WASH DOWN
Housing	Metal alloy
Accessories	Mounting bracket, jamb nuts (2), interface cable assembly, 12 VDC power supply, Application software, I/O board with status indicators

Dimensions

CM 1000-R	4.331"(110mm) x 1.181"(30mm)
CM 1000-T	0.312"(8mm)dia x 1.5" (38mm)
LASER-MARK	0.7"(18mm)dia x 3.25"(83mm)

NOT INTENDED FOR USE IN PERSONAL SAFETY APPLICATIONS.



Exclusive PC-based configuration

Provides data logging to file for analysis

Software driven control of discrete output logic

Ordering Information



CM 1000-R
(Receiver)



CM 1000-FLEX-T-25
(Transmitter)



LASER-MARK
(Laser-Mark Sensor)



CM 1000B
(Bracket)

Accessories

CM 1000-KIT2 (Includes)

CM 1000-I/O2
(ColorMax I/O connection box)

M12-12-5-T
(M12, 12conductor 5 meter cable)

15-046-003
(DB9 Adaptor)

32-1024
(USB A-B Cable)

2-H1642-07
(Telephone cable 4 contact)

CD 1000-CD2
(Application software)

240-56857
(12 VDC Transformer)



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