

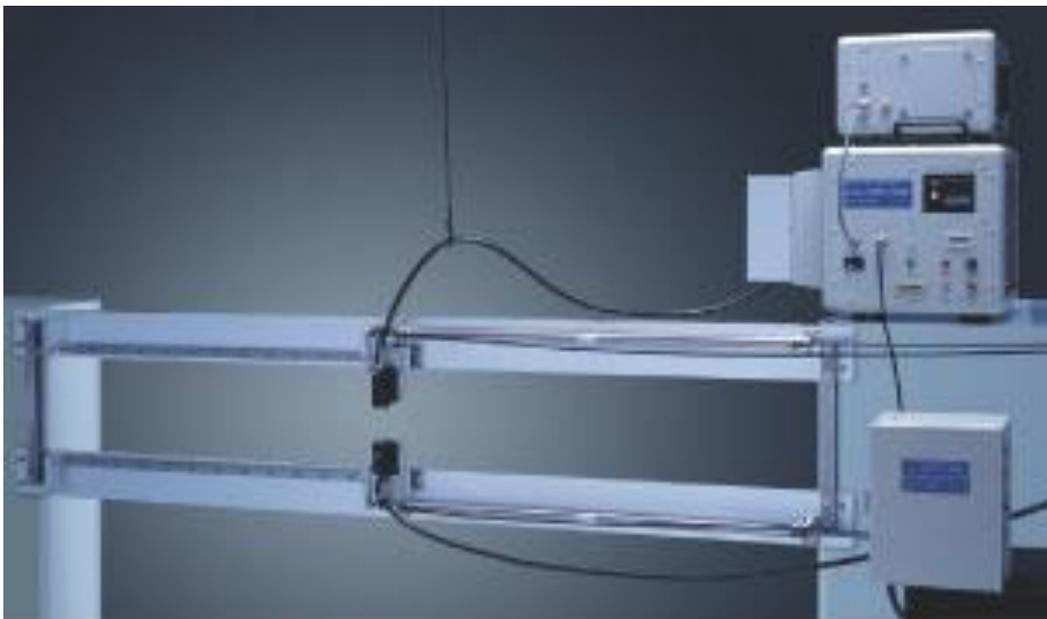
**MURAKAMI COLOR RESEARCH LABORATORY**  
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**ON-LINE COLOR MONITOR**

**CMTS-5000/For Reflection measurement**



**CMTS-5000T/For Transmittance measurement**



## **CMTS-5000**

The CMTS-5000 provides continuous observation for process color measurement. The CMTS-5000 is a color management monitoring system that enables long term stable monitoring at the coloring process of the continuous production line for papers, steel plates, films and more. Spectral reflectance of the products is processed and displayed on the computer. On the monitor, the spectral distribution graph, color difference values or deviated color judgment graph are displayed for easy visualization and understanding. The system can be configured to alert the operator if the systems exceeds a tolerance threshold.

The instrument consists of the light source, sensor and receptor specifically designed to be insensitive to the vibration or temperature often present at the manufacturing site. Furthermore, Murakami's original system for the spectral, receptor, double beam and accurate auto-calibration provide excellent reliability.

### **Applications**

- Color management of tinted papers or dyed textiles and combination with color correction retreatment
- Coloring management of the tinted plastics and films.
- Management for the color measurement of the tinted steel sheets and construction materials

Installation at site is available upon arrangement.

## **CMTS-5000T**

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The CMTS-5000T provides continuous observation for transmitted color. During the production process of the films or sheets, the spectral color measurement system can make a continuous observation for quality control where transmittance is required. The computer with data processing capabilities, monitors for the manufacturing conditions in user-friendly manner. The system can alert the operator if measured values exceed a fixed set range of standard values.

The calibration of the system is automatic using an air cylinder. The measurement data are displayed with color difference values, CIELAB values, transmittance, polarized color decision values, or spectral curved lines, and a hi-leveled observation system has been established by the average data recording every sixty seconds.

The system structure is divided into three mechanism of light source, receptor (equipped with air conditioner), color measurement head (scanner type), and the adoption of individual high airtight structure allows minimization of the error in operation caused by powder, dust, or fluctuations in temperature at the manufacturing site.

Installation at site is available upon arrangement.

**SPECIFICATIONS**

	CMTS-5000	CMTS-5000T
Illumination and	Bidirectional irradiation at	By light guide

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Viewing conditions	45°/normal	Normal/Normal geometry
Measurement area	Diameter 25mm circular	Diameter 25mm
Light source	Halogen lamp 12V/100W	Halogen lamp 12V/100W
Dispersion element	Concave diffraction grating	Concave diffraction grating
Light receiving method	Double-beam	
Receptor	Silicon photodiode array	Silicon photodiode array
Interface	RS-232	
Duration	1 minute interval	
Power requirement	100V AC ±5%, 50/60Hz, 600VA	
Dimensions	Body: L520×W445×H520mm/ 24kg Sensor unit: L220×W320×H330mm /10kg	Light source& Receptor: L370×W450×H520mm

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