

PHOTOVOLT REFLECTANCE METER 68-04-00 (MODEL 577)



The Photovolt is designed to simplify the determination of appearance characteristics. This rugged portable instrument is easy to operate, sets up in just minutes and provides you with unparalleled flexibility. **Now available with serial data port option.**

You can read percent reflectance directly from a sample by using any one of Photovolt's standard "search unit" packages. With the Photovolt it becomes easy to measure color, opacity, hiding power, brightness and tristimulus reflectance.

With just the touch of a button the Photovolt will automatically reconfigure itself for changes in search unit filters. Naturally, the Photovolt has applications that conform to ASTM, TAPPI, and ISO standards.

NEW! Serial data port option sends the current reading to your PC with a touch of a button on the side of the search unit. The included PortKey™ software takes the reading and inserts it in ANY Microsoft Windows™ program as though it was typed in from the keyboard. No programming is needed and it works with all Windows programs including spreadsheets and word processors.

Other features include easy-to-read LED display with a handy "hold" function, durable solid state construction and a calibration reflectance memory for up to three tristimulus or colored glass filters.

PHOTOVOLT SEARCH UNITS:

Testing Machines Inc. offers three highly accurate search units allowing the precise measurement of a great variety of appearance characteristics when used in conjunction with the Photovolt Model 577.

SEARCH UNITS "Y" OR "T" use filter sets that measure surface color reflectance, paper opacity or hiding power. SEARCH UNIT "W" is designed to measure paper brightness.

SPECIFICATIONS

Dimensions (W x L x H)	25.4 x 30.48 x 12.7 cm (10 x 12 x 5 in)
Weight	9 pounds / 4.1 kg
Electrical	110-120 VAC / 220-240 VAC 50-60Hz
Fuses	1.0A / 0.5A
Analog Output	Recorder 0-1.00 VDC
Digital output	RS-232C 9600bps (optional)

SPECIFIC APPLICATIONS

Industry	Application	Search Unit Type	Filter	Test Method or Standard
Bio Medical	Erythema, skin color, frog skin, etc.	Y/T	Green Tristimulus and others	Numerous by users
Burlap	Grading	Y/T	Green Tristimulus	By user
Ceramics (Tile & Porcelain)	Color classification	Y/T	Varies	ASTM E97
	Opacity or contrast ratio		Varies	ASTM C347 ASTM C346 ASTM C584
Chemical	Dry powders, plastics	Y/T	Varies	By user
Cosmetics	Suntan lotion by skin color	Y/T	Green Tristimulus	By user
	Lipstick, face powders, etc.			
Detergents	Comparison before and after cleaning, both cloth and hard materials	Y/T	Green Tristimulus	By user
Food & Agricultural	Color comparison of food products such as coffee, potato chips, peanut butter, cocoa, catsup, tuna, sugar & others	Y/T	Green Tristimulus	Coffee Brewing Institute, etc. By user
Industrial Products	Color of finished products	Y/T	Varies	By user
	Waxes	Y/T		ASTM E97
	Powder brightness	W		ASTM D1455 ASTM D3052
Metal Finishing	Color	Y/T	Tristimulus	By user
Packaging	Color comparison	Y/T	Tristimulus	Methods by user to control color drift
Paint & Varnish	Color	Y/T	Tristimulus	Federal Test Method St. No.141
	Hiding power & contrast ratio	Y/T	Green Tristimulus	ASTM D523
			Federal Test Method St. No.141	
Pharmaceutical	Powder brightness	W	Varies	
	Product color, packaging	Y/T		
Plastics	Color	Y/T	Varies	By user ASTM D2457
Pulp & Paper	Brightness	W	Built-in	TAPPI Methods
	Opacity	Y/T	Green Tristimulus	ASTM
	Color	T	Tristimulus	
Textile	Rapid & convenient Color Matching	Y/T	Rapid & convenient Color Matching	By user

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