

HP Spectrophotometer



The HP Spectrophotometer is a complete colour management solution that enables you to calibrate and profile monitors, printers, scanners and digital projectors based on leading GretagMacbeth technology and ICC specifications.

The ideal tool for photographers, creative directors, graphic designers working in advertising agencies and creatively-orientated businesses, publishers and print service providers. It is also perfect for people in the marketing and PR departments in SMB, large and enterprise businesses who want to produce professional quality collateral and corporate documents in-house.

Cut out guesswork and achieve accurate, consistent colours throughout your entire workflow.

- Enjoy the ultimate in colour accuracy by calibrating monitors and peripherals of all kinds, from capturing data with your scanner to proofing and final output on your printer (CMYK and RGB devices are supported¹) and digital projector².
- Eliminate the need to redo your work, and cut down on wasted papers and inks.
- Consistent control of colour means you save yourself time and money and your creative output looks just as good whatever medium you use to view it.

Profiling software offers a very easy-to-use interface, and a multitude of enhanced features.

- Simple on-screen help guides deliver great results: use the predefined settings of Easy Mode or create custom settings using Advanced Mode.
- Sophisticated features include: ambient light measurement, profile reminder for reliable colour over time, luminance settings for better colour agreement on multiple monitors, chromatic adaptation formula for a closer visual match of different monitors with different white points, and grey balance optimisation for more neutral, better defined greys.

The perfect all-in-one colour management solution for reliable and affordable colour.

- Market leader GretagMacbeth's colour management technologies help you to solve your colour issues quickly with reliable on-screen colour which matches printer output.
- Easy to implement in your workflow as most of today's professional imaging and design tools support ICC colour management profiles.
- This small, sleek, lightweight tool is powerful enough to profile monitors, scanners, printers and digital projectors and measure and capture PANTONE™, spot colour, flash light and ambient light.

¹ Use of ICC profiles might require a RIP.

² For beamer calibration a tool holder is necessary.

Technical specifications

Supported measurement modes	Reflectance single measurement Reflectance scanning measurement with automatic patch detection Emission	
General	Spectral analyzer:	Holographic diffraction grating with diode array
	Spectral range:	380 – 730 nm
	Optical bandwidth:	10 nm
	Sampling interval:	3.5 nm (100 bands)
	Spectral reporting:	10 nm
	Analog/Digital converter:	16 bit
	Interface:	USB
	Dimensions (l x w x h):	151 x 66 x 67 mm
	Weight:	185 g
Emission	Emission spectra:	Spectral radiometric emission measurement of the luminance
	Measurement aperture:	4.5 mm
	Measurement range:	0 to 300 cd/m²
	Short-term repeatability:	x, y: ±0.002 typical (CRT 5000°K white patch > 80 cd/m²)
	Measurement time:	1 second
Reflection	Measurement geometry:	45 / 0 ring optics, DIN 5033
	Sample diameter:	Illumination diameter 3 mm; Pickup diameter 4.5 mm
	Light source:	Gas filled tungsten (illuminant A)
	Physical filter:	NonUV or UVcut
	Measurement range:	0 to 120% reflectance
	Inter-instrument agreement:	Average 0.4 DE*94, max. 1.0 DE*94 (deviation from GretagMacbeth manufacturing standard at a temperature of 23°C for single measurement mode on 12 BCRA tiles (D50, 2°))
	Short-term repeatability:	0.1 DE*94 (D50, 2°), mean value of 10 measurements every 3 seconds on white
	Spot Mode:	Measurement time – spot: 0.25 seconds typical
	Recommended patch dimensions:	10 mm in scan direction
Power and environmental conditions	Power requirements:	Powered by USB, no additional charger required USB 1.1 high power device (500ma)
	Operating temperature:	10° C to 35° C
	Storage temperature:	-10° C to 50° C,
	Humidity:	0 – 80% non-condensing

Ordering information

Q7795A	HP Spectrophotometer, Calibration plate, USB cable, CRT monitor holder, flatpanel holder, positioning target, scanning ruler
Compatible hardware	
HP Color LaserJet 3550 Printer series	
HP Color LaserJet 3700 Printer series	
HP Color LaserJet 4650 Printer series	
HP Color LaserJet 5550 Printer series	
HP Color LaserJet 9500 Printer series	
HP Color LaserJet 9500mfp	

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