Confidence in every colour decision



Controlled light. Consistent viewing. Better comparisons.

60, 120 and 150 cm light booths in PRO, MANUAL and ECO configurations. Quality control stations for print and larger surfaces.

The illustrated 45° viewing table is a separate product, supplied separately.

Colour is more than a surface property



The same fabric, plastic or print can look different in daylight, in a shop and at home. Perceived colour depends on the light spectrum, material reflectance and viewing conditions together.

Factor	What to control
Light	Application-specific source and consistent illumination
Sample	Orientation, surface, layers and backing
Viewing	Angle, surroundings, reference and observer

The aim is to reduce uncontrolled ambient-light effects and share consistent assessment conditions throughout the supply chain.

Which light represents which environment?

Standard four-source configuration: D65 + TL84 + UV Black Light + F-Inca. The five-source PRO adds one of D50, U30 or TL83.

Source	Reference environment	Typical use
D65	Daylight (~6500 K)	General matching and textiles
TL84	Retail lighting (~4000 K)	Retail appearance and comparison
F-Inca	Warm incandescent home lighting	Domestic appearance and metamerism
UV Black Light	Ultraviolet blacklight	Optical brighteners and fluorescence
D50	Daylight (~5000 K)	Print, packaging, graphics and photography
U30 / TL83	Warm retail lighting (~3000 K)	Selection to brand specifications

All sources except UV Black Light are LED-based. Source names identify the represented lighting condition. There is no tunable-spectrum function. U30 and TL83 are not automatically interchangeable.

Kelvin alone is not enough: two sources with similar colour temperatures can produce different sample appearances because their spectra differ.

Metamerism: why does a match change?

Two samples may match under one light and differ under another. Different dyes, pigments, fibres or surface compositions can increase this risk. Compare the reference and production sample together under the relevant sources.

Match under D65



Difference under a second light



Illustrative explanation: the colour patches are not measured sample results.

Practical sequence

- Place the reference and sample side by side on the same plane.
- Assess under the primary source, then the other sources in the customer specification.
- Observe source-dependent differences without changing sample orientation.
- Record the decision with the source, sample identity and viewing conditions.

A single sample changing appearance with the light is not the same as a pair losing its colour match. Metamerism is assessed for the sample pair.

Prepare and position samples consistently



- Keep sample and reference side by side, with the same orientation and backing. Do not overlap them.
- Control pile direction for textured fabrics, and layer count and backing for translucent materials.
- Control glare on glossy surfaces. Set illumination and viewing geometry to the selected method.
- Keep reflections from coloured clothing, accessories and surroundings away from the viewing field.
- Reduce ambient-light contamination and keep assessment surfaces clean and neutral.

The 45° table supports repeatable sample positioning. Viewing geometry must be considered with illumination direction and the selected method. The table is a separate product.

A shared colour language across industries



Textiles and apparel

Match fabrics, threads, zips and accessories.



Print and packaging

Compare proofs, board and brand colours.



Plastics, paints and coatings

Assess plaques, coated surfaces and mixed-material parts.



Leather and automotive interiors

Match upholstery, stitching and complementary parts.

Select sources to suit the sale/use environment and the customer colour specification.

PRO: control the viewing sequence



The 3.5-inch touchscreen provides convenient selection of fixed LED sources and UV Black Light. Four- and five-source PRO versions are available in three booth sizes.

Function	Practical value
Per-source operating hours	Track each light source separately
Lamp replacement reminder	Support planned maintenance
Automatic light sequence	Repeatable assessment sequence
Warm-up tracking	Monitor source preparation
Automatic shut-off	Reduce unnecessary operation

Screen images are representative interface illustrations. The 45° table is supplied separately.

Choose your PRO configuration







Size	PRO 4	PRO 5
60 cm	PW-K002-60-4	PW-K002-60-5
120 cm	PW-K002-120-4	PW-K002-120-5
150 cm	PW-K002-150-4	PW-K002-150-5

Select the fifth source

Choice	Application focus
D50	Print, packaging and graphics
U30	Applications specifying U30 conditions
TL83	Warm retail lighting and brand specifications

PRO 5 does not include all three additional sources: the fifth channel is selected as D50, U30 or TL83 when ordering. Model-list images show booths without tables.

D65 / TL84 / UV Black Light / F-Inca

MANUAL: direct source selection



A panel with four independent round switches provides direct selection of D65, TL84, UV Black Light and F-Inca. MANUAL is a separate control configuration from touchscreen PRO.

Size	Product code	Sources
60 cm	PW-K002-60-4-M	D65 / TL84 / UV / F-Inca
120 cm	PW-K002-120-4-M	D65 / TL84 / UV / F-Inca
150 cm	PW-K002-150-4-M	D65 / TL84 / UV / F-Inca

Select sources in the order required by the customer or method. PRO automatic-sequence and screen functions are not specified for MANUAL. The 45° table is a separate product.

ECO: focused D65 assessment



The single-source ECO range offers a straightforward solution for comparisons under D65 alone. Select 60, 120 or 150 cm to suit sample size.

Size	Product code	Sources
60 cm	PW-K002-60-1-ECO	D65
120 cm	PW-K002-120-1-ECO	D65
150 cm	PW-K002-150-1-ECO	D65

ECO has one source. For metamerism checks across different lights, consider multi-source MANUAL or PRO models. The control illustration is representative.

Choose a viewing area for your samples

Dimension order: width × depth × height. All values are in mm.

Model	External dimensions	Viewing area
60 cm	712 × 452 × 527	624 × 434.5 × 378
120 cm	1322 × 602 × 695	1234 × 584.5 × 545
150 cm	1621 × 602 × 695	1533 × 584.5 × 545



Three selection questions

• Is there enough room for the reference and sample together?

• Can sample orientation and product shape be maintained?

• Will larger samples or multiple components need comparison in future?

The product image excludes the table. Booth size names are nominal model classes.

Quality Control Station



A freestanding assessment environment for print, packaging and larger surfaces. Overhead illumination, a generous viewing area, keyboard/monitor mounting drawer and lower storage cupboard are integrated into one station.

Product code	Viewing area	Angle
PW-CMS-120-4	1242 × 775 × 1134 mm	15°
PW-CMS-150-4	1542 × 775 × 1134 mm	15°

The station viewing deck is inclined at 15°. It is distinct from the separate 45° table used in light booths.

Station lighting and workflow

Selectable D50, D65, TL84 and UV-A Black Light sources; UV-component control with D50/D65 and UV-only operation. Touchscreen panel and electronic operating-hour tracking.

Product code	External W × D × H
PW-CMS-120-4	1322 × 900 × 2220 mm
PW-CMS-150-4	1622 × 900 × 2220 mm



Working arrangement

- Compare print and reference together under the same lighting.
- Organise the workstation using the keyboard/monitor drawer and lower cupboard.
- Use UV to examine optical brightener effects; include the source in the assessment record.

Select sources to suit the method. For print, consider D50 and ISO 3664 viewing conditions; use the relevant visual comparison method for other materials.

45° Viewing Tables



A separate product supporting sample and reference on the same plane. A neutral grey deck, retaining lip, side supports and locking knobs provide practical positioning.

Product code	Booth	Deck size
PW-K002-60-T45	60 cm	527 × 305 mm
PW-K002-120-T45	120 cm	827 × 305 mm
PW-K002-150-T45	150 cm	1127 × 305 mm

Tables are offered separately from the booth. Their appearance in application scenes does not mean they are included in standard delivery.

Methods, care and traceability

Relevant methods depend on the application and source configuration:

Reference	Scope
ASTM D1729	Visual appraisal of colour differences in opaque materials
ISO 3668	Visual comparison of paint and varnish colours
ISO 3664	Viewing conditions for graphic technology and photography
AATCC EP9	Visual assessment of colour difference in textiles
ISO/CIE 23603	Assessment of the spectral quality of daylight simulators

Standard references describe method scope and do not declare independent certification. Define the current standard edition and viewing conditions in the laboratory procedure.

- Keep interiors clean; check coloured stains, yellowing and gloss changes.
- Track source hours and check lighting conditions after maintenance.
- Record source, sample, reference, observer, date and decision together.

Precision at Every Stage.
Confidence in Every Test.



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