

Colour assessment cabinet

Colour Assessment Cabinets (CAC) create the perfect alternative to natural daylight. With the use of nine phosphors and calculated to the CIE 51 standard, the cabinet produces the best fluorescent D65 daylight simulator with the highest Colour Rendering Index (CRI) available to the colour viewing world.

The cabinets are suitable for all industries and applications where there is a need to maintain colour consistency and product quality.

E.g.: textile, automotives, ceramics, cosmetics, dyeing, food, footwear, furniture, inks, knitwear, leather, ophthalmic, packaging, printing and more.

Our CAC cabinets offer a maximum choice of up to 5 light sources, from a selection of the CIE illuminants, point of sale illuminant and ultra-violet. With multiple light sources it enables you to detect metamerism, where a colour seems to match under one light source but is clearly different under another.

To optimise consistency of viewing conditions the CAC range incorporates interlocked membrane switching with electronic ballasts, a specially selected white re-lector, and a neutral matt grey interior finish together with a built-in time elapsed meter for scheduling the replacement of lamps.

Features

- For the visual assessment of colour under standard light conditions
- The range of lamps allows assessment in the same cabinet under various light sources

Models

- CAC120 : with 4 light sources
- CAC120-5 : with 5 light sources
- CAC150 : with 4 light sources
- CAC150-5 : with 5 light sources
- CAC60 : up to 4 light sources
- CAC60-5 : with 5 light sources
- CAC Portable



Technical specifications

Illuminants can be chosen:

D65

“artificial daylight” fluorescent lamps conforming to standard illuminant D6500

D652

additional level of “artificial daylight” for colours of low reflectance factor

TL83

Philips triphosphor fluorescent lamps

TL84

often chosen a a “point of sale” illuminant

F

filament (domestic) lighting and as a test for metamerism

UV

ultra violet light to reveal the presence of fluorescent dyes and bleaches

Alternative fluorescent lamps can be incorporated if required but three fluorescent light sources plus filament is the maximum of the CAC150, CAC120 and CAC60. The CAC Portable and the CAC60-5 can be supplied with the addition of one extra fluorescent source selected from the following : D75, D50, TL83, TL84, Cool white, Natural, Warm white.

Power supply

110 or 230 V

Physical specifications

Dimensions (overall)

CAC60	71 x 42 x 57 cm (WxDxH)
CAC60-5	71 x 53 x 57 cm (WxDxH)
CAC120	130 x 62 x 78 cm (WxDxH)
CAC150	156 x 62 x 78 cm (WxDxH)
CAC Portable	68 x 32 x 40 cm (WxDxH)

Net Weight

CAC60	25 kg
CAC60-5	25 kg
CAC120	50 kg
CAC150	55 kg
CACPortable	10 kg

Options

For all models except CAC portable :

- Fixed angle table
- Tilting table
- Diffuser
- Benches
- Cupboards
- Maintenance pack

For all models:

Replacement lamps

Standards

BS 950, DIN 6173