

# VeriVide

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## Colour Assessment Cabinets (CAC)

## 颜色评审灯箱



**CAC60**  
European Market 欧标



**CAC60-5(N7)**  
mainly for US Market 美标



**CAC120-5 & CAC150**  
加长型



**CAC Portable**  
手提式

VeriVide CAC range creates the perfect alternative to natural daylight. With the use of nine phosphors and calculated to the CIE 51 standard, this cabinet produces the best fluorescent D65 daylight simulator (VeriVide) with the highest Colour Rendering Index (CRI) available to the colour viewing world. The CAC range has been developed for the visual assessment of colour in accordance with British Standards (BS950: Part 1 & Part 2) or American Standard (ASTM D1729) or International Standards (ISO 3664), etc...

The CAC range are suitable for all industries and applications where there is a need to maintain colour consistency and product quality, e.g. Textiles, Automotives, Ceramics, Cosmetics, Dyeing, Food, Footwear, Furniture, Inks, Knitwear, Leather, Ophthalmic, Packaging, Printing and much more.

VeriVide CAC 系列产品产生的光照效果是天然日光的完美替代。它使用了 9 种荧光剂，严格遵循国际照明学会 CIE 51 标准，VeriVide D65 是最佳的荧光灯光源日光模拟仿真器，拥有最高的显色指数 (CRI)，是颜色观察领域的首选设备。颜色评审灯箱 CAC 系列可最佳用于根据英国标准 (BS950：第 1 部分及第 2 部分) 或美国标准 (ASTM D1729) 或国际标准 (ISO 3664) 等对颜色进行目视辨析。

适用于所有需要保持稳定产品颜色及质量的行业，例如：纺织、汽车、陶瓷、化妆品、染色、食品、鞋类、油墨、针织品、包装和印刷等。





Our CAC Cabinets offer a maximum choice of up to 4 or 5 light sources, from a selection of the CIE illuminants, Point of Sale illuminants 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.

我们的颜色评审灯箱 CAC 最多可选配 4 组或 5 组光源, 包括国际照明学会 (CIE) 认可光源、商店光源 或 紫外线光源。使用几种光源配合, 可发现同色异谱的测试, 颜色在一种光源下似乎匹配, 但在另一种光源下明显不匹配现象。



CAC60 欧标灯箱

## Specification 规格

Model 型号	Interior Colour 内壁颜色	No. of Light Sources 光源数量	Light Sources Code 光源选择代码	Most importantly client approved 认可零售商 或 权威测试专家
CAC60-5(N7)	Munsell N7	5	D65, CWF, A (Inc-A), H (HOR), UV (Option : Lamps U30, D75)	GAP, JCP, NIKE, SEARS等
CAC60 或 CAC150	Grey 5574	4	D65, TL84/P15, F, UV (Option : Lamps TL83)	ARCADIA, Bhs, DEBENHAMS, H&M, M&S, NEXT等 或 权威测试专家BV, INTERTEK, SGS, STR等
CAC120-5	Grey 5574	5	D65, TL84, CWF, F, UV	Adidas-Solomon等
CAC Portable	Grey 5574	5	D65, TL84, CWF, F, UV	

## Cabinet Interior 内墙颜色

All cabinets are normally supplied with the interior coloured neutral matt Grey 5574 or Munsell N7.

为了最优化视觉条件的一致性, CAC 系列采用了精选的内墙颜色 Grey 5574 或 Munsell N7。

Interior Colour 内壁颜色	Lightness (L) 光亮度	Chroma (C) 色度	Application 应用
Grey 5574 (=14.40D)	48 ± 2	< 2.0	European Market 欧标
Munsell N7	70 ± 2	< 1.0	US Market 美标



CAC60-5(N7) 美标灯箱

## VeriVide Control Panel gives the user access to a variety of 8 advanced features 最新『数码显示控制平台』提供 8 大功能



- Warm up 暖机功能
- Data storage 资料功能
- Auto sequence 自动排序功能
- Power Save 省电功能
- Switch Interlocking 键盘锁功能
- Lamp setting 更改灯光型式功能
- Lamp service 灯光维修功能
- Servicing indicator 维修提醒功能

Please select the Voltage your require for your cabinet by specifying on the order (eg : 220V or 110V).

订购时请提供电压 (如 : 220V 或 110V)



## Lamp Options 灯管的选择

Light source Code 光源代码	Lamp Description 灯的应用	*CRI 显色指数	*Kelvin (K) 色温光值	Lamps of Brand 灯管牌子	Made in 制造地方
CIE Daylight Illuminants 国际照明学会(CIE)认可“日光”光源	<b>D65</b> VeriVide D65 "Artificial Daylight". Within the tolerances prescribed in BS 950 : Part 1 Illuminant for colour matching appraisal. Specified for most applications where there is a need to maintain colour consistency and quality. Conforming highly to the CIE specifications, for accurate colour matching. VeriVide D65 “人工日光灯”。符合 BS950 : 第 1 部分规定的公差范围内。是客户常用对色、配色及评审颜色“日光”光源。此光源确保颜色一致性和质量的标准光源。完全符合国际照明学会 CIE 指标, 可进行准确的颜色比对。	98	6500K	verivide	EEC
	<b>D75</b> VeriVide D75 "Artificial Daylight". Conforming to the ASTM (American Society for Testing and Materials) D1729-82 standard for D75 Illuminant. With high CIE specifications, for accurate color matching. VeriVide D75 “人工日光灯”。遵照 ASTM (美国测试和材料协会) D1729-82 标准对照明的要求 D75 光源。高 CIE 指标, 可进行准确的颜色比对。	96	7500K	verivide	EEC
	<b>D50</b> D50 "Artificial Daylight". For the Graphic Technology and Photography industries. Conforming to the BS 950 : Part 2 and ISO 3664. Recommended for transmitted light source to view transparencies and for the reflected light source to view reproductions. D50 “人工日光灯”。用于图文技术和摄影行业。符合 BS950 : 第 2 部分和 ISO 3664 标准。建议用作查看透射原稿的透射光源和观察复制品的反射光源。	98	5000K	Philips	Holland
CIE Illuminants 'A' 国际照明学会(CIE)认可光源 'A'	<b>F</b> Tungsten FILAMENT Lighting. Required by BS950 : Part 1 (1967) as a test for metamerism (approximating CIE Illuminant "A"). Typical light source used within domestic environments. Used to check for colour flaring. This is particularly important for those containing red and yellowing colouring matters. 钨丝灯泡。符合 BS950 : 第 1 部分(1967)要求作为对同色异谱的测试(与 CIE 光源“A”相似)。用于欧洲客户家庭环境的典型室内光源及射灯。对于含有红色和黄色染料的材料尤为重要。	100	2500K	GE	Hungary
	<b>A</b> Tungsten HALOGEN Lighting (CIE Illuminant "A"). This represents incandescent A (Inc-A). Typical light source used within domestic environments. Used to check for colour flaring. This light source is only available in the Model CAC60-5(N7). 卤钨灯 (CIE 光源“A”), 即白炽灯 A (Inc-A)。用于美国客户家庭环境的典型室内光源及射灯。此光源只提供在型号 CAC60-5 (N7)。	98	2856K		
Alternative (fluorescent) lighting 其它(萤光)光源	<b>TL84</b> Narrow Band Triphosphor Fluorescent Lamps. CIE Illuminant F11. Often chosen as a European "Point of Sale" Illuminant, with good colour rendering. 窄带三磷萤光灯 CIE 光源 F11 通常是欧洲客户指定用“商店”光源, 有良好的显色特性。	85	4000K	Philips	Poland
	<b>TL84/P15</b> As above (TL84), but manufactured to a tighter tolerance $\pm 15\%$ (Marks & Spencer specification). 同上 (TL84), 但公差较小, 百分比 15% 是 (玛莎百货指定规格)。	85	4000K	Philips	Poland
	<b>CWF</b> Cool White Broad Band Fluorescent Lamps. Used as an American "Point of Sale" Illuminant. Moderate colour rendering. 冷白宽带萤光灯。通常是美国客户指定用“商店”光源, 中度显色。	62	4150K	Sylvania	Germany
	<b>U30</b> Ultralume Narrow Band Triphosphor Fluorescent Lamp. An American "Point of Sales" Illuminant, with good colour rendering. Ultralume 窄带三磷萤光灯。是美国客户指定用“商店”光源, 有良好的显色特性。	85	3000K	Philips	USA
	<b>TL83</b> Narrow Band Triphosphor Fluorescent Lamp. Often chosen as a European "Point of Sales" Illuminant, with good colour rendering. 窄带三磷萤光灯。是欧洲客户指定用“商店”光源, 有良好的显色特性。	85	3000K	Philips	Holland
Horizon 水平光源	<b>H</b> Horizon Lighting. Used for Automotive, Apparel and Metamerism Testing. As specified by the ASTM (American Society for Testing and Materials) D1729-74, Standard Practice for Visual Evaluation of colour Differences of Opaque Materials. This light source is only available in the Model CAC60-5(N7). Horizon 水平灯。用于汽车、服装和同色异谱的测试, 采用 ASTM (美国测试和材料协会) D1729-74 标准, 是对不透明材料色差目视评定的标准作法, 此光源只提供在型号 CAC60-5 (N7)。	98	2300K		
Ultra-Violet 紫外线	<b>UV</b> Ultra-Violet Blacklight. Used to detect the presence of Optical Brightening Agents and/or Fluorescent dyes. Therefore it is useful when assessing white and Fluorescent shades to check the level present and its evenness. 紫外线黑光灯。用于检测是否有萤光增白剂和 / 或萤光染料的存在。因而可用于评定白色和萤光色以检查其程度和均匀性。			Sylvania	Japan

To pick light sources in line with your needs, there are two factors to be taken into consideration :

\*(1) Colour Temperature articulated in Kelvin (K) :

This refers to the colour appearance of a light source, which varies along with its spectral power distribution. Fluorescent lamps with lower colour temperatures look red; with higher colour temperatures look blue.

在了解光源时, 需要考虑两个因素 :

\*(1) 表示色温光值 (K) :

指光源的 颜色外观, 随光谱能量分布而改变, 较低色温的萤光灯为红色 或 较高色温的萤光灯为蓝色。





### Cabinet Dimensions 灯箱尺寸 (mm)

Model 型号	Size 尺寸	Width 宽度	Height 高度	Depth 深度	Weight 包装重量
CAC60-5(N7)	Overall 灯箱尺寸	710	545	420	35kg
	Viewing Cavity 观测尺寸	680	335	380	
	Carton Size 纸箱尺寸	780	330	480	
CAC60	Overall 灯箱尺寸	710	545	420	25kg
	Viewing Cavity 观测尺寸	680	335	380	
	Carton Size 纸箱尺寸	780	330	480	
CAC150	Overall 灯箱尺寸	1560	755	620	70kg
	Viewing Cavity 观测尺寸	1530	545	590	
	Carton Size 纸箱尺寸	1640	280	680	
CAC120-5	Overall 灯箱尺寸	1290	755	740	65kg
	Viewing Cavity 观测尺寸	1260	545	710	
	Carton Size 纸箱尺寸	1640	280	680	
CAC Portable	Overall 灯箱尺寸	670	415	315	14kg
	Viewing Cavity 观测尺寸	630	275	280	
	Carton Size 纸箱尺寸	750	260	440	

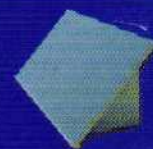
### Other Optional Items 其他选择项目

#### i Fixed Angle Table of Grey 5574

A 45° Fixed Angle Table with Grey 5574, creating standardized viewing geometry, for example when carrying out colour fastness assessments. Size of 24" Long x 9" High. (Marks & Spencer specification).

#### i 观察斜台 — 欧标

角度为 45° 颜色为欧标 Grey 5574, 标准化的观察条件。例如在进行色牢度评定时使用, 尺寸是 24 寸长 x 9 寸高。是 (玛莎百货指定规格)。



#### ii Fixed Angle Table of Munsell N7

A 45° Fixed Angle Table with Munsell N7, creating standardized viewing geometry, for example when carrying out colour fastness assessments. Size of 24" Long x 9" High.

#### ii 观察斜台 — 美标

角度为 45° 颜色为美标 Munsell N7, 标准化的观察条件。例如在进行色牢度评定时使用, 尺寸是 24 寸长 x 9 寸高。



#### iii Maintenance Pack for Re-painted Cabinet

Enables the white reflector to be cleaned and polished, the grey interior walls to be prepared and repainted, providing a complete service form one disposable pack. The pack includes protective gloves, paint roller, paint tray, paint brush, protective apron, cleaning/polishing cloth, anti-static cleaning wipes, abrasive paper and 0.5 litre Matt paint for Grey 5574 or Munsell N7.

#### iii 围板翻新工具及油漆一套

可清除及擦拭旧围板表面颜色, 准备并重新给灰色内壁刷漆, 全部翻新工作均可通过一次性完成, 工具包括: 保护手套、漆滚、漆盘、漆刷、保护围裙、清洁 / 擦拭布、两块防静电清洁布、砂纸和 0.5 升油漆 Grey 5574 或 Munsell N7。



#### iv A set of Board for VeriVide Cabinet

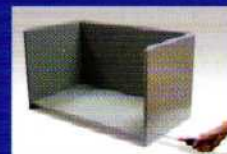
##### Remark :

- i) Lamps must be changed after 1000 hours for Marks & Spencer or 2000 hour for clients. These measures will ensure comfortable and accurate colour appraisal.
- ii) For the best results, glare, extraneous lights and anything, which will maladapt the visual response must be avoided. Any windows near the cabinet should be fitted with grey blinds. No direct light should be in the field of view and the wall behind the cabinet should be finished in light grey emulsion.

#### iv 颜色评审灯箱围板更新一套

##### 注意:

- i) 如是玛莎百货 M&S 的供应商对色灯箱使用, 1000 小时后必须要更换, 其他客户通常使用 2000 小时後也要更换, 确保对色效果的一致性。
- ii) 在使用对色灯箱时, 为了使对色结果更加准确, 必须尽量避免外界光线以及视觉干扰, 观察区域不能有外界的直接光线, 灯箱後面的墙壁也要涂上灰色乳胶漆。



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