



Product Guide

Verivide colour and visual assessment equipment for quality and consistency

VeriVide



See in Truth

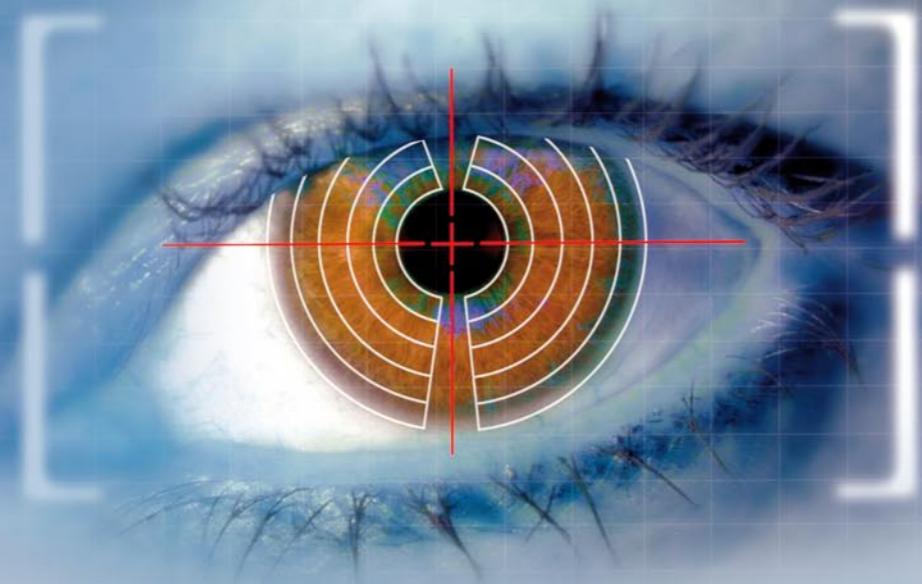
VeriVide
See in Truth

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VeriVide equipment is manufactured in the U.K. VeriVide is registered under BS EN ISO 9001: 2000. Certificate No. 3393.



VeriVide is the world leader in the design, development and manufacture of highly specialised colour and visual assessment equipment, wherever this is critical to product quality and consistency.

Speak the same language

VeriVide is wholly and solely dedicated to this area of expertise; it's roots run back to the discovery of the constituents of light and the inception of the technologies to replicate it. Today, with a highly qualified workforce and a thorough understanding of the technology, VeriVide provides colour assessment products to ensure coherence and consistency throughout supply chains across a diversity of industry and commerce to all parts of the world, via a network of specialist agents.

The leading light

VeriVide supplies equipment to blue chip organisations involved in textiles and apparel, graphics, automotive, telecommunications, interiors and furnishings. The diversity of our customers ranges from the fishing industry to the manufacture of the paper and print for the Euro currency.

For more information on VeriVide products and services please visit www.verivide.com or contact our Sales Department or email enquiries@verivide.com. To help our customers ensure their standards remain consistent and reliable, VeriVide provides a planned maintenance service, please ask for further details.

Applications

VeriVide equipment provides the platform for true visual and colour assessment, surface imperfections, liquid assessment, printing and textile imaging. As a guide, the product range have these applications:

Textiles

Including dyeing, outerwear, intimate wear, knitwear and hosiery, leather and footwear.

Graphics

Including litho, web, digital, screen and flexo printing, repro-graphics, packaging and inks.

Photo imaging

Including professional digital and traditional photography and photo labs.

Retail colour matching

Including interiors, furnishings, ceramics and auto refinishing, floorcoverings, ceramics and food.

Industry colour and appearance

Including paint and component manufacture, automotive interior and exterior trim and finish, building materials such as roof tiles and bricks.

Medical & cosmetic

Including ophthalmic, prosthetics, dentistry and cosmetic makeup.

Contents

AATCC-VB Viewing Boards	4
ACCEL Accelerator Viewers	4
PAV Pilling Assessment Viewers	4
CAC Colour Assessment Cabinet range	5
CF-60 Colour Fastness Cabinets	5
DigiEye non-contact digital imaging system	7
Colour Management Work Station	6
CCC Colour Control Cabinets	8
SBS Side-By-Side Proof Viewing Cabinets	8
Fenestra proofing console	9
Pantone®	10-11
VTV Transparency Viewers	12
VPT Planning Tables	12
VL Luminaires	13
Munsell 100 Hue Colour Guides	13
Lamp options	14
Accessories	15
Service	15



Textile

- Built to American Association of Textile Chemists and Colorists (AATCC) approved test methods 88B/88C/124/128/143/178
- The AATCC Viewing Board is for the evaluation of the smoothness in appearance of flat fabric and seams and the retention of pressed creases in garments and other textile products after repeated laundering.
- Utilises a standard lighting and viewing area by rating the appearance of samples compared to appropriate reference standards.
- Uses either 2400mm (8ft) or 1200mm (4ft) Cool White lamps (as per section 12.4 of certain AATCC test methods).
- Can be either wall mounted or used on a mobile trolley.



ACCEL Accelerator Viewers

Textile

- Provides standardised viewing conditions for the grading of samples.
- Designed for the evaluation of samples for the AATCC Accelerator tests, the Viewer enables the grading of abrasion and scuffing under controlled lighting conditions, by providing a constant, flicker free, and even illumination from transmitted light.
- Supplied with interchangeable masks to increase flexibility, conforming to a wide range of standards and applications.
- Masks supplied in specific sizes and shapes for individual customer needs, to a maximum size of 260mm x 135mm.
- Conforming to ASTM D1175 M&S P26 and NEXT TM31



PAV Pilling Assessment Viewers

Textile

- Developed to EN ISO 12945 standards; incorporating all 3 parts and adopting the following test methods:
Part 1: ICI Pilling Box Method BS 5811
Part 2: Modified Martindale Method SN 198 525
Part 3: Atlas Random Tumble Method ASTM D 3512-96
- This versatile unit allows for the modified Martindale specimen head, enabling the fabric to be assessed during testing, whilst still mounted on the head.
- Uses D65 Artificial Daylight, with an option of CWF available, as specified by certain retailers.



CAC 120



CAC 60

- The VeriVide CAC range creates the perfect alternative to natural daylight.
- Developed for visual assessment of colour in accordance with British Standards 950 Part 1 directives and International Standards.
- The CAC range is available in 60, 120 and 150cm cabinet widths, with four or five types of light source.
- This range of cabinets is suitable for all industries and applications where there is a need to maintain colour consistency and product quality.
- Unique VeriVide control panel with advanced features including servicing indicator, auto sequence, warm-up, power save and data storage facility.

Textile

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CF-60 Colour Fastness Cabinets

Textile



- Colour fastness grading cabinets for grading and assessment of samples for colourfastness, in accordance to BS EN ISO 105 and retailer specifications.
- CF-60s are fitted with two light sources, the primary source is the VeriVide Artificial Daylight D65 at 6500 Kelvin, which provides the best D65 to CIE ratings in its sector, along with UV black light to reveal the presence of any fluorescent dyes and bleaches.
- The cabinet also features a built-in fixed angle table, enabling samples to be viewed at 45°.
- VeriVide's unique control panel, which gives the user advanced features including servicing indicator, auto sequence, warm-up, power save and data storage facility.



The revolutionary non-contact digital imaging system that captures and measures the total colour and appearance of 2D and 3D images in a unique controlled lighting environment. The image is then displayed on a calibrated monitor and printed on a profiled printer.



The Colour Management Work Station provides the perfect conditions for viewing colour samples and allowing consistency throughout the entire product chain, from designer to retailer.



- Textile
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- Select and retrieve colour data from any pixel in high-resolution images, DigiEye allows measurement of very small or irregular shaped samples.
- The 'finger-prints' of measured colours are represented by colorimetric values or constant spectral reflectance values.
- Rapid electronic communication of the image and colour data is easy via the internet, using standard formats.
- The complete colour imaging solution combining both hardware and software, from characterised digital camera, unique illumination cabinet, calibrated high definition CRT monitor.
- Illumination cabinet provides even and consistent illumination, meeting international standards.
- Texture profiling and simulation builds an image database of representative textures, with the ability to re-colour to any desired shade.
- Colour difference for comparing colour areas on screen, using a choice of equations including the latest CIEDE2000
- Use complex shapes and patterns, DigiEye is able to automatically select areas of adjacent pixels of similar colour. The 'clustering' technique automatically groups pixels of the same colour together and calculates the percentage of the total pixels within the image.
- Physical standards can be replaced with stored high-resolution digital images.



DigiEye's vast range of applications includes:

- | | |
|--|---|
| <ul style="list-style-type: none"> ■ textiles ■ carpets ■ printed fabric ■ lingerie ■ velours ■ building materials such as concrete ■ flooring ■ plastics ■ phone covers ■ automotive components | <ul style="list-style-type: none"> ■ packaging materials including metallic/pearlescent boxes & wrappers ■ foods – biscuits, meat, fruit, cereals, sweets ■ medical prosthetics ■ dentistry ■ cosmetics - eye shadow, lipstick |
|--|---|

- Lighting can be adapted to create the correct environment for comparison of physical samples with calibrated on screen images. This ensures consistent and reliable viewing.
- Provides controlled standardised lighting within a comfortable and flexible working environment.
- Retractable hood and curtain eliminate ambient lighting and external colour interference of on-screen colour perception.
- Incorporates VeriVide's digital control panel, allowing access to a wide variety of features and very accurate and lockable dimming control; to set and maintain the illumination level to a tight tolerance.
- Control panel also features service indicator, warm up, power save and storage facility.
- Monitor stand provides optimum viewing angle, large work area and keyboard storage. Choice of 45° fixed angle table or variable tilting table offered as standard.
- Choice of illuminants: CIE standard daylight, point-of-sale, tungsten filament and UV.
- Additional VeriVide storage units can be added to the system; including 4-drawer or 2-drawer options.



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- Standardised viewing conditions for print checking and the assessment of colours, ink weight, register and dot gain; with a large viewing area.
- Created in collaboration with PIRA for the graphics and printing industries
- Uses VeriVide's unique neutral grey concave viewing deck to eliminate specular reflection, allowing accurate colour and quality control.
- Sheets are held in position using magnets provided; an ideal means for presenting to customers.
- CCC conforms to both BS 950 Part 1 and Part 2 standards, also to ISO 3664. This product is suitable for applications that require a large viewing area for print checking.



Graphics

Photo imaging



The Fenestra is the innovative new visual proofing console that delivers a new level of excellence for visual proofing.

Proofing colours on-screen requires a visual proofing unit that will simulate the same viewing conditions and appearance as your monitor.

SBS Side-By-Side Proof Viewing Cabinets

- Created in collaboration with PIRA and in accordance with British and International Standards.
- Can be used with both sizes of VeriVide Transparency Viewers, the VTV 1812 or 1824.
- Uses 'gentle grip' nylon fibre at the edge of the screen to firmly hold transparencies without damage.
- VeriVide's unique neutral grey concave viewing deck eliminates specular reflection, allowing accurate colour and quality control. Proof sheets can be held in place on the curved metal deck using magnets provided.



Graphics

Photo imaging

- Unique design features to ensure visual proofs meet the same exacting standards as your digital output. Designed to simulate the proof's appearance on the monitor, the Fenestra has a clutter-free interior and makes optimum use of the light within the cabinet.
- Uses LumiVide digital control technology to ensure accurate control of dimming, monitoring of lamp usage and service history.
- Unobstructed view of the proof, up to OS A3 size, without visual distraction and crystal clear viewing with no eyestrain.
- Unlike conventional designs, the innovative reflector gives a highly consistent colour quality over the whole proof deck even when dimmed to monitor brightness.
- High image contrast – reveals more shadow detail, illumination level matches monitor brightness.
- Highly uniform level of illumination, at all light levels and the matte interior significantly eliminates flaring off internal surfaces, providing a crisp, defined, high contrast image. The low-level of light spillage from the Fenestra reduces the degree of eyestrain for the user and means the unit remains unintrusive within the working environment.
- The monitor can be wall mounted or free standing to give the user a greater choice of viewing positions for the monitor.
- Fenestra boasts a Colour Rendering Index >95 and an x,y chromaticity variation <0.05 for consistent colour quality.
- Incorporates innovative lighting to give unrivalled visual agreement to the CIE D50 illuminant and meet ISO 3664 requirements.
- Vacuum deck to secure proofs.

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Pantone® REFERENCE LIBRARY euro

- FORMULA GUIDES coated, uncoated, matte
- SOLID CHIPS three-book set coated, uncoated, matte
- METALLIC FORMULA GUIDE coated
- PASTEL FORMULA GUIDE coated + uncoated
- COLOR BRIDGE euro coated
- TINTS four-guide set
- 4-COLOR PROCESS GUIDES euro coated, uncoated
- SOLID IN HEXACHROME coated
- Ergonomically designed storage unit



Pantone® SOLID COLOR CHIPS (coated, uncoated and matte paper)

Tear out solid spot colour samples. 1,114 PMS Colours. Ensures flawless colour communication c+u version also available.



Pantone® FORMULA GUIDES (coated, uncoated and matte paper)

Solid spot colour fan 1,114 PMS Colours c+u version also available



Pantone® TINTS four-guide set (coated and uncoated paper)

10% to 80% tints of all solid PMS Colours. Reverse, solid print and black print examples.



Pantone® FASHION + HOME

Fan guides, chip books and dyed fabric books and samples for accurately communicating colour. The range has its own unique reference numbering system.



Pantone® ESSENTIALS euro

- FORMULA GUIDES coated, uncoated, matte
- COLOR BRIDGE euro coated
- 4-COLOR PROCESS GUIDES euro coated, uncoated
- Stylish protective case



Pantone® 4-COLOR PROCESS GUIDES euro (coated and uncoated paper)

3,000 chromatically arranged CMYK colours Screen tint percentages Unique reference number set US version also available



Pantone® COLOR BRIDGE euro (coated paper)

Solid spot colour, RGB and HTML reference Closest 4 colour equivalent CMYK screen values US version also available



Pantone® METALLIC FORMULA GUIDE (coated paper)

Solid spot colour fan. All 301 Pantone® Metallic Colours.



Pantone® PASTEL FORMULA GUIDE (coated and uncoated paper)

Solid spot colour fan. All 154 Pantone® Pastel Colours.



Pantone® SOLID IN HEXACHROME GUIDE (coated paper only)

Closest 6 colour equivalents to spot colours CMYKOG screen values



Pantone® PLASTICS

1,740 opaque and transparent plastic sample chips including chromatics, browns, greys, pearlescent, fluorescent and metallic colours. The range has its own unique reference number system.



Pantone® METALLIC CHIPS (coated paper)

Tear out solid spot colour samples. All 301 Pantone® Metallic Colours.



Pantone® PASTEL CHIPS (coated and uncoated paper)

Tear out solid spot colour samples. All 154 Pantone® Pastel Colours.



Pantone® Color Cue®2

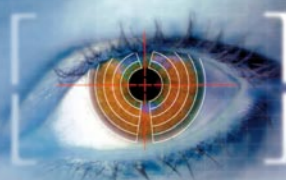
Find a close Pantone Colour match to any sample at the click of a button. Gives references from the Pantone PMS and Fashion & Home Colour ranges.



Pantone® huey™ & hueyPRO

Calibrate and correct your monitor Improve on screen colour rendering. Simple and easy to use with award winning results.





- VTV enables controlled, accurate and precision viewing of colour transparencies.
- Created in collaboration with PIRA, the VTV incorporates a D50 output conforming to British Standards, BS 950 Part 2 and International Standards, ISO 3664.
- Distinctive design and paramount features enable versatility of application, can be placed flat on a work surface, on a stand or wall mounted, allowing the user more flexibility.
- High frequency electronic ballasts to ensure perfect daylight simulation and special reflectors for an even and flicker-free illumination.
- 'Gentle grip' nylon fibre at the screen edge to hold transparencies firmly without damage.
- Manufactured from powder-coated aluminium extrusions with moulded ABS corners to enable a very strong but lightweight construction.
- Ideal as part of our SBS cabinets or as a stand-alone unit.



Graphics

Photo imaging



- Carefully designed to help optimise colour viewing in the work area, the VL Luminaires provide a perfect alternative to natural daylight.
- Extensively used within industries where colour assessment is critical such as textiles, printing, repro-graphic and design studios.
- Fitted with four suspension brackets and a glare-free reflector, enabling the unit to be positioned and installed at any angle.
- All VeriVide luminaires have a special opal diffuser and white reflector providing consistent, even illumination, eliminating any patterns from being formed or colour change in the emitted light, ensuring accurate visual colour evaluation.
- All VLs conform to BS 950 Part 2 and ISO 3664 standards.
- Time elapsed meter indicates scheduling replacement of lamps after 2000 hours.
- The VL uses either the VeriVide D65 (6500K) lamp conforming to BS 950: Part 1 OR the D50 (5000K) lamp conforming to BS 950: Part 2 and ISO 3664 standards.

N.B. Viewing conditions for graphic technology and photography both have a very high Colour Rendering Index (C.R.I.). For most applications where there is a need to maintain colour consistency and quality, D65 lamps should be specified. Wherever viewing conditions for the graphic technology and photography industries are to be undertaken, D50 lamps should be used.

Textile

Graphics

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Medical & cosmetic

VPT Planning Tables Planning

- When critical colour assessment is required over a large area, the VPT proves ideal.
- Can be used for general layout work, or cutting and cropping, with an attractive size that allows you the comfort of quality viewing conditions under internationally approved standards.
- Conforming to BS 950 Part 2 and ISO 3664 standards.



Graphics

Photo imaging

MS100 Munsell 100 Hue Colour Guides

- Determines colour vision anomalies and colour aptitude.
- Easy-to-administer test which is a highly effective method for measuring any individual's colour vision.
- Used by the government and industry for over 40 years, the test consists of four trays containing a total of 85 removable colour reference caps (incremental hue variation) spanning the visible spectrum.
- Colour vision abnormalities and aptitude are detected by the ability of the test subject to place the colour caps in order of hue.





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With today's complex colour requirements, a shade cannot always be assessed under one light source. Several may be needed so that the shade is viewed in applicable conditions, i.e. 'Artificial Daylight' and 'Point of Sale' Light.

This allows inconsistencies such as metamerism to be detected. When two coloured materials have identical spectral reflection curves, they will match visually under any illuminant. However, it is possible for two materials to match visually

under one illuminant but miss-match under another, such matches are termed 'metameric'. This is usually a result of the colouring matter used in each material being different. With these factors influencing colour appearance it is important to standardise viewing conditions, especially for commercial use. VeriVide equipment provides these conditions for all applications. For consistency, the source of light must be controllable and constant.

To understand light sources, two factors need 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; such as the CIE Illuminant 'A' and the Warm White Fluorescent lamp. Fluorescent lamps with higher colour temperature look blue, such as the VeriVide D75, and D65.

2) Colour Rendering Index (CRI)

A numerical system that measures how well colours are rendered by a lamp in comparison to a reference light source. The CRI is measured on an index from 0-100, with 100 representing an exact match, whilst low values indicate poor colour rendering. Hence a lamp rated with a CRI of 98 such as the VeriVide D65 will show colours more accurately than a lamp with a CRI rating of 62 such as the CWF. This rating method is recognised by the Illuminating Engineering Society (IES) and the Commission International de L'Eclairage (CIE).

CIE Daylight Illuminants

D75
C.R.I 96
VeriVide D75 "Artificial Daylight". Correlated colour temperature 7500K. Conforming to the USA ASTM (American Society for Testing and Materials) D1729-82 standard for D75 Illuminant. With high CIE specifications, for accurate colour matching.

D65
C.R.I 98
D65 98VeriVide D65 "Artificial Daylight". Correlated colour temperature 6500K. 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.

D50
C.R.I 98
D50 98D50 "Artificial Daylight". Correlated colour temperature of 5000K. For the Graphic Technology and Photography industries. D50 lamps conform to BS 950: Part 2 and ISO 3664. Recommended for transmitted light source to view transparencies and for the reflected light source to view reproductions.

CIE Illuminant 'A'

F
C.R.I 100
Tungsten Filament Lighting. Correlated colour temperature 2800K. Required by BS 950: 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 yellow colouring matters.

A
C.R.I 98
Tungsten Halogen Lighting (CIE Illuminant 'A'). This represents incandescent A (inc-A). Correlated colour temperature 2856K. Typical light source used within domestic environments. Used to check for colour flaring. This light source is only available in the CAC60 and CVB.

Alternative (fluorescent) lighting

TL84
C.R.I 85
Narrow Band Triphosphor Fluorescent Lamps. Correlated colour temperature of 4000K. CIE Illuminant F11. Often chosen as a European "Point of Sale" Illuminant, with good colour rendering.

TL84/P15
C.R.I 85
As above, but manufactured to a tighter tolerance. (Marks & Spencer specification)

CWF
C.R.I 62
Cool White Broad Band Fluorescent Lamps. Correlated colour temperature of 4000K. Used as an American "Point of Sale" Illuminant. Moderate colour rendering.

U30
C.R.I 85
Ultralume Narrow Band Triphosphor Fluorescent Lamp. Correlated colour temperature 3000K. An American "Point of Sale" Illuminant, with good colour rendering.

TL83
C.R.I 85
Narrow Band Triphosphor Fluorescent Lamp. Correlated colour temperature 3000K. Often chosen as a European "Point of Sale" Illuminant with good colour rendering.

W
C.R.I 54
White Fluorescent Lamp. Correlated colour temperature 3450K. Used as a "Point of Sale" Illuminant but has a poor level of colour rendering. Used where accurate colour rendering is of little importance.

WW
C.R.I 51
Warm White Fluorescent Lamp. Correlated colour temperature: 2950K. Used as "Point of Sale" Illuminant where accurate colour rendering is of little importance.

Horizon

H
C.R.I 98
Horizon lighting. Correlated colour temperature 2300K. Used for Automotive, Apparel and Metamerism Testing. As specified by the ASTM (American Society for testing and Materials) D1729-74, Standard Practise for Visual Evaluation of Colour Differences of Opaque Materials. This light source is only available in the CAC 60 and CVB.

Ultra Violet

UV
UV 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.

Fixed Angle Table

45° Fixed Angle Table suitable for the CAC 60/120/150 cabinets, creating standardised viewing geometry at the angle where light is incident, it is ideal for colourfastness assessments.

Dimensions (mm)	Width	Height	Depth
Overall	610	235	225
Viewing Area	610	305	
Footprint	610		200

Tilting Table

An adjustable Tilting Table for the CAC 60/120/150 used where multiple viewing angles are required for the assessment of colour, e.g.: vehicle finishing, surface coating, foil manufacture.

Dimensions (mm)	Width	Height	Depth
Overall	640	235	310
Viewing Area	610	305	
Footprint	640		215

Diffuser

Diffusers are available for all cabinet sizes 60/120/150; it is recommended that they should be used when highly specular materials are to be assessed e.g. glass, polished surfaces and ceramics. Can also be used to create a barrier between the lamps and the viewing area to prevent contamination (i.e. glass contamination in the food).

Size	Width	Height	Depth
150	1560	80	610
120	1290	80	610
60-5	710	80	530
60	710	80	410

Benches

Cantilever steel, powder coated, standard benches are available to compliment the CAC, SBS and CCC ranges.

Size	Width	Height	Depth
150	1570	925	610
120	1295	925	610
90	910	925	610
60	720	925	610

Cupboards and plan chests

VeriVide manufactures a range of standard and custom cupboards, plan chests and other storage solutions with laminate finish to equip an effective workstation.

Size	Width	Height	Depth
150	1600	960	645
120	1330	960	645

Stands

Floorstands to hold either the 1812 or 1824 Transparency Viewer

Width	Height	Depth
320	640	385

Maintenance Pack

For use in conjunction with replacement lamps, enables the white reflector to be cleaned and polished, the grey interior walls to be prepared and repainted, providing a complete service from one disposable pack.

Service and technical support

VeriVide's design, development and manufacturing base in the UK is supported by a international network of Sales and Service Agents, who provide product knowledge, application know-how and sales, service and spares support regionally. They can provide management for scheduled, routine maintenance to ensure you are getting the optimum from your VeriVide equipment.

VeriVide colour assessment equipment is specified by many leading brands worldwide. VeriVide's agents and trained engineers can ensure you you're your equipment remains up to standard.

Servicing and calibration includes:

- Initial inspection and functionality test
- Removal and disposal of all lamps
- Full inspection of lamp reflector
- Fit and test all new lamps if required, to specification
- Clean interior surface of cabinet
- Refinish interior surface to specification
- Clean exterior of cabinet
- Reset switch panels and record data
- Final inspection and test to VeriVide quality standards
- Annual certification of work carried out

VeriVide also provides advice and information on servicing requirements for future, to help ensure you get the most out of you specialist equipment. Contact Katie Strudwick, the Service Coordinator, on 0116 284 7790 or email k.strudwick@verivide.com