

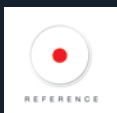
Empowered by Innovation

**NEC**

NEC DISPLAY SOLUTIONS

# COLOUR CRITICAL DESKTOP DISPLAYS

SpectraView 232 | 242 | 272 | SpectraView Reference 242 | 272 | 302



## THE SPECTRAVIEW ADVANTAGE

Whether you use a Mac or PC, SpectraView® is the only name you need to know. A range of Reference displays combining the very highest standards of Japanese colour technology and panel expertise, tailored for the demanding creative professional and business conscious pre-press printer. SpectraView® displays offer calibrated colour accuracy with long term colour and uniformity consistency. A choice of displays with screen sizes from 23 to 30 inches and resolutions up to 2560 x 1600 pixels all backed by the comprehensive NEC 5 year for SpectraView Reference models, and 3 year on-site warranty for remaining models.

### CREATE AND PRINT WITH CONFIDENCE

A display is the most vital component in the creative or pre-production process. Don't compromise your output, or generate unnecessary printing costs with a lower standard product. SpectraView® displays guarantee the highest standards of colour replication and will quickly repay their original investment cost.

<b>DISPLAYPORT</b> <b>10 BIT</b> INPUT	<b>HARDWARE</b> <b>42 BIT</b> RGB LUT	<b>BACKLIGHT</b> <b>AGEING</b> COMPENSATION	<b>LOOK</b> <b>3D</b> UP TABLES	<b>GB-R LED</b> BACKLIGHT
<b>16 BIT</b> <b>ICC</b> PROFILING	<b>10 BIT</b> <b>AH-IPS</b> PANEL	<b>OVER</b> <b>1 Bn</b> COLOURS	<b>ZERO</b> <b>PIXEL</b> DEFECT	<b>5</b> YEARS WARRANTY

\* Reference Models only

\* Reference Models only

## Performance and Precision

The demands on the creative industry have changed considerably in recent years, with an increasing recognition and protective attitude of leading corporates towards their brand colours, such that no serious graphic designer can afford to not have a colour flow and colour handling process.

Creative workers need to check their work in real time and must be able to rely on absolute colour fidelity during image processing. The most critical device in the handling process of colours within the colour flow is the monitor.

NEC Display Solutions meet the challenge with the SpectraView® range of monitors. With an impressively wide colour space, superb brightness, colour uniformity and colour accuracy and the dedicated use of advanced IPS panels, with L\*ab calibration, the SpectraView® models Reference 242, 272, 302 guarantee optimum professional colour with superb ergonomics and build quality.

A professional photographer relies on the most advanced and precise camera, lenses and accessories to do the best job. A significant amount of research, testing and evaluation will take place before a photographer takes the plunge and invests in the best quality photographic equipment. There is no room for compromise when capturing the perfect image or moment in time. A SpectraView® monitor is the perfect partner for professional photographic equipment as well as the core element of any professional colour flow.

## SpectraView®



Within the work flow there are many stages at which colour, contrast errors and compromises can be introduced. The SpectraView® Reference display monitors have many in-built features and technologies which ensure the most consistent visual performance to the most uncompromising quality standards. NEC SpectraView® models can be used in systems to satisfy the strict ISO 3664 and 12646 standards.



With SpectraView®, the colour you see is the colour you get throughout the display's reasonable life cycle. Take advantage of initial and on-going calibration to make pre-production and printing a process of confidence.



REFERENCE

### REFERENCE STANDARD BENEFITS

**10-BIT AH-IPS PANEL UP TO 2560 x 1600 RESOLUTION**

**1 BILLION COLOURS WITH GB-R LED BACKLIGHT**

**10-BIT DISPLAYPORT INPUT**

WIDE COLOUR SPACE (107% ADOBE RGB)

3D COLOUR EMULATION LOOK UP TABLE

IMAGE UNIFORMITY CONTROL

BACKLIGHT AGEING CORRECTION

L\*AB SPECTRAVIEW PROFILER SOFTWARE

ADVANCED FUTURE READY CONNECTIVITY

DISPLAYSYNC PRO USB MANAGEMENT

PIP COMBINATIONS FOR MULTIPLE SOURCE

MULTIPLE INPUT SOURCE MANAGEMENT

SIMULTANEOUS COLOUR SPACE VIEWING

14-BIT LUT HARDWARE CALIBRATION

ZERO PIXEL DEFECT WARRANTY (6 MONTHS)

IF DESIGN AWARD ADVANCED ERGONOMICS

For more information visit: [www.spectraview.nec-display-solutions.com](http://www.spectraview.nec-display-solutions.com)

## 10 BIT AH-IPS PERFORMANCE WITH GB-R LED

IPS (In Plane Switching) panel technology is at the heart of the SpectraView® design. With their superior quality, IPS panels are ideally suited for professional colour critical industries such as soft proofing, pre-press, graphic design, photo and video editing.

The wide viewing angle with vastly reduced colour shift means that image data is accurately and reliably communicated to all viewing positions. Additionally IPS LCD colour reproduction offers a depth and realism of colour reproduction, in which all nuances can be appreciated. The latest 10-bit AH-IPS panel offers the ultimate image quality and represents the cutting-edge of today's professional imaging technology.

The AH-IPS version is a member of H-IPS technology grouping, in which the light transmittance (high aperture ratio) of the semiconductor transistor pattern has been improved. This improves specified contrast levels, as well as offering an opportunity for energy savings. More importantly the 10-bit AH-IPS version also offers an improved wider colour gamut performance. This wider colour gamut is possible through the use of improved colour filters and stabilised spectral backlighting technologies.

The SpectraView® Reference Series employs the latest 10-bit (or 8-bit + FRC) grayscale control and processing electronics, which, when aligned with the wide colour gamut RGB colour filters, allows over a billion individual colours to be displayed. This 10-bit colour capability is best taken advantage of when using the latest DisplayPort video connector which support 10-bit input digital signals.

### OVER A BILLION COLOURS

The 14-bit LUT loaded with a calibrated monitor profile ensures a smooth and accurate grade of colour and gray scale spectral distributions. Enjoy linear colour gradation with the 10-bit panel offering 1024 grayscales per RGB channel generating 1.073 billion possible colours, instead of the conventional 16.7 million colours associated with 8-bit technology.



GB-R LED backlighting offers mercury-free and low energy rear illumination in LCD monitors, but with the full AdobeRGB colour gamut performance. The GB-R LED modules are arranged around the edge of the LCD panel, with each module consisting of a Green and Blue LED interspersed with Red phosphor particles.

The Green and Blue LEDs are bright enough to excite the RED phosphor, which when combined creates a white light source with a clean spectral content (compared to W-LED or standard CCFL backlights). When combined with the appropriate RGB front filter, the full AdobeRGB colour space can be displayed. The performance of GB-R LED backlight is best appreciated when aligned with an IPS LCD panel, since colour accuracy is achieved for all viewing angles.

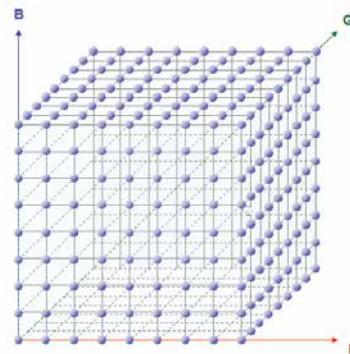
## ADVANCED COLOUR REPRODUCTION

### WIDE COLOUR GAMUT

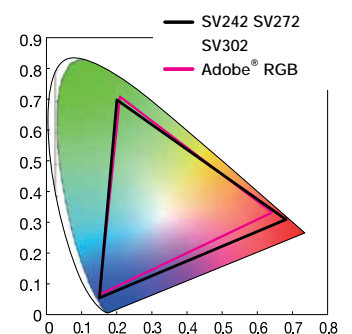
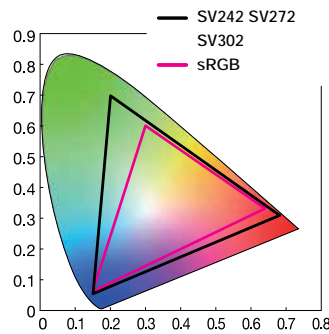
Experience the very best in colour image quality with the latest generation of state of the art 10-bit AH-IPS technology, with exceptionally wide viewing angle, widest colour gamut available (107% AdobeRGB colour space) and absence of colour shift. The true benefit of a wide colour gamut display is particularly visible when combined with 10-bit panel, since potential colour banding or visible gray scale steps are eliminated.

### 3D LOOK UP TABLES

The integrated 3D LUT with colour emulation preset within the SpectraView® 232, 242 and Reference 242, 272, 302, can be used to transform the colour space of the monitor to emulate that of the printer, or other colour workflow device. The 3D LUT is a three dimensional table that maps colours into a different colour space. The Colour Processing Engine in SpectraView monitors allows complex colour gamuts such as those of colour printers to be emulated on the monitor directly. This allows print previews to be performed with applications that do not support this feature directly. The MultiProfiler application can easily load ICC Profiles into the 3D Look Up Tables.



3D LUT Ideal for any Colour Users who require the best Colour Replication and Previewing across alternate ICC Profiles



## LONG TERM CONSISTENCY

### IMAGE UNIFORMITY CONTROL

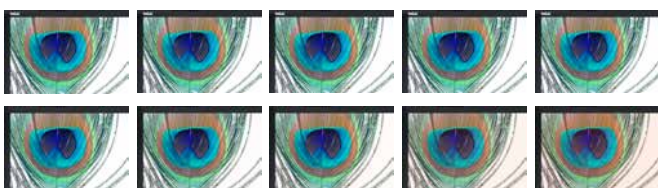
For many professional applications, a homogeneous distribution of brightness and colour across the entire image area is an essential basis for decision making. A fine matrix, together with high-precision sensor electronics measure, at the factory, individual irregularities in brightness, colour and gamma values for each individual display. The in built Digital Uniformity Compensation (ColorComp) dynamically compensates and levels out all picture corruptions using the RGB channels and tailored correction profiles loaded in the 14 BIT LUT. At the same time, various parameters such as temperature, operating time and even the alignment of the monitor are taken into account.

### BACKLIGHT AGEING CORRECTION

The Backlight Ageing Correction function is an additional feature to assure stable colour reproduction and luminance during the warm-up phase, as well as over the lifetime of the product. An internal electronic back light compensation system assesses the luminance of the back light, corrects and stabilises it during its warm up phase. Additionally as the GB-R backlight ages the white point temperature shifts to blue, which is automatically compensated through an in-built sensor to appropriately modify the RGB filter gains.



**DIGITAL UNIFORMITY CONTROL**  
 Before Digital Uniformity Control is applied (Left)  
 After Digital Uniformity Control is applied (Right)



**CONSISTENT WHITE POINT**  
 Illustration of screen white point drift over time with Backlight Ageing

SpectraView Backlight Ageing Correction and Uniformity Control can maintain a consistent white point over the long term, whether the target white point is D50 or D65.

## INDUSTRY CONFORMANCE

### L\*AB CONFORMANCE

The L\*ab system defines the colour space with a dimension 'L' for lightness and 'A' and 'B' for the colour dimensions, based on non-linearly compressed CIE XYZ colour space coordinates.

The advantage of such a system is that changes in colours are similar to human visual perception abilities. L\*ab is often used as an informal abbreviation for the CIE 1976 (L\*, a\*, b\*) colour space (also called CIELAB). Other systems, such as the "master" space CIE 1931 XYZ colour space, help predict which spectral power distributions will be perceived as the same colour (see metamerism), but are not particularly perceptually uniform.

Another advantage of the L\*ab system is that it allows more precise Table Profiling and colour reproduction closer to the original, as against conventional 'Matrix' based profiling, and is perfectly suited to the exceptionally accurate 14-bit LUT hardware calibration capability of the SpectraView® series.

### SOFTPROOF WITH CONFIDENCE

Within the work flow there are many stages at which colour, contrast errors and compromises can be introduced. The SpectraView® Reference display monitors have many in-built features and technologies which ensure the most consistent visual performance to the most uncompromising quality standards.

As well as satisfying the print industry requirements, SpectraView® displays can also be used as part of ISO approved pre-press or soft proof system. Two ISO standards have emerged to serve the soft proof industry in comparing colour proofs. Firstly ISO 3664:1996 defines the viewing conditions and environment for making visual print decisions, and is associated with viewing hardcopy colour prints with standardised environmental lighting. Secondly, ISO 12646:2008 defines the actual equipment, such as hardware calibrated displays, to allow on-screen colour images to be viewed objectively and consistently compared with hardcopy prints viewed under ISO 3664 conditions.

By following ISO standards, these characteristics can be consistently controlled and become less likely to unduly interfere with accurate colour perception: Chromaticity; metamerism; illuminance and lighting homogeneity; neutral background and diffuse surface reflectance.

### ECIREGB\_v2

Working colour spaces, profiles such as ISOcoated\_V2 as a CMYK working colour space and ECI RGB as a general RGB working colour space. These colour management settings are normally set in a way that profile mismatches are significantly reduced and the number of colour transformations are minimised.

## SPECTRAVIEW PROFILER FOR DISPLAYS

### STATE OF THE ART 14 BIT HARDWARE CALIBRATION

Colour critical applications can only be a complete success when the process runs hand in hand with comprehensive hardware calibration. The bundled calibration and profiling software package, SpectraView® Profiler, allows precise and straightforward 14-bit per RGB channel, calibration of brightness, white point and luminance and the creation of 16-bit ICC profiles for Apple and Windows systems.

With 16384 tonal values per colour, the Profiler enables an almost step-less and, in turn, considerably more precise gradation adjustment than is the case with conventional 8-bit or 10-bit graphic card colour palettes (software calibration). The finest gradations and greyscale can be displayed with extraordinary precision and clarity. This ensures that the colours seen on the screen match the printer.

For colour-critical applications, a homogeneous distribution of brightness and colour across the entire image area is essential. Fine matrix and high-precision sensing electronics at the factory stage, measure individual irregularities in brightness, colour and gamma values for each individual display. Digital Uniformity Compensation determines variations and optimises millions of pixels – pixel by pixel – to ensure a uniform image with regard to brightness distribution and colour re-production. At the same time, various parameters such as temperature, operating time and even the alignment of the monitor are taken into account.

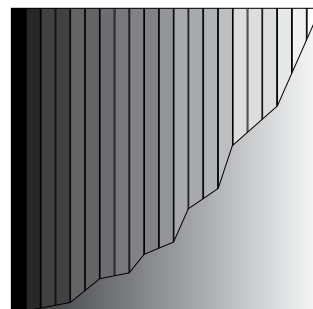
A default setting for this process may be stored in the OSD of SpectraView® models. However, the intensity of the compensation applied may be individually adjusted and stored at any time.

The result: a colour reproduction that precisely represents subsequent processing and print output quality. Thanks to its clearly structured user interface, SpectraView® Profiler Software is simple and fast to use. Default settings enable express calibration with just one click of the mouse – without restricting any of the user options for setting personalised profiles. SpectraView® Profiler supports all current systems.

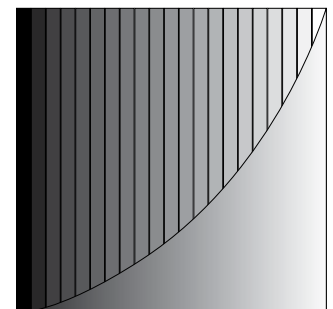
### SpectraView® Profiler Software Key Features

- L\* -calibration (CIE-LAB L\* colour space), alternative calibration with gamma 1.8 or 2.2 or user-specified gamma values, sRGB or CIECAM02 calibration
- Creation of LUT-based 16-bit ICC and Table Profiles
- Iterative calibration process
- Manual white point and calibration curve editing
- White and black luminance adjustment (or contrast range)
- Supports prominent brands of colorimeters and spectral photometer sensors
- Profile validation for fast checking of calibration profiles
- Evaluation of workplace ambient light and viewing conditions in accordance with ISO 3664 and 12646
- Automatic hardware adjustment of JUST Normlicht lightbox by software
- Chromatic adaptation

Before Smoothing



After Smoothing



A 14-bit internal look up table combined with 16-bit processing to ensure smooth gamma output



## IMPROVING PRODUCTIVITY

### MULTI-PICTURE OPTIONS

The powerful Picture-in-Picture or Picture-by-Picture feature of the SpectraView® Series allows two different platforms or images to be simultaneously viewed, with a single mouse and keyboard being switched between active operating systems (DisplaySync Pro). Many colour managed workflow applications will benefit from the time saving through automatic and real-time conversion of colours consistent with ICC profiles or colour gamut emulation.

A SpectraView® Series monitor can be used in a colour managed workflow (meaning all of the applications being used are colour managed, for instance 'ICC profiled'), with the monitor being setup to use its full (native) colour gamut. This will provide the maximum possible colour gamut and not be artificially limited by using a set colour space such as AdobeRGB or sRGB. The colour management within the applications being used will automatically convert colours as necessary by using the ICC/ColorSync profile for example from MultiProfiler.

A Sound Investment. All Creative Workers are judged against their results, an investment in the very best viewing equipment is investing in yourself and ensuring your work is viewed in its best light every time.



**PICTURE BY PICTURE**  
Make a simultaneous comparison between colour profiles for accurate virtual analysis of various RGB or CMYK outputs

### ENHANCED WORKFLOW

Two picture modes can be created, one for normal viewing, and one for the print emulation preview. The two modes can be simply toggled using the monitor's OSD controls. Each of the picture modes have an assigned colour gamut, brightness setting and white point temperature. Hence a photographer can take photographs under D50 conditions, and view the results in a raw format. However, a second picture mode, visible in real-time with the Picture-in-Picture mode can show the same image with a reduced sRGB colour gamut, and with alternative D50 or D65 white points and brightness setting for web design. Alternatively the second picture mode can be configured to show the same photograph when printed out on standard ISOCoated V2 or eciRGB\_v2 offset printing data as CMYK image.



## COLOUR WORKFLOW

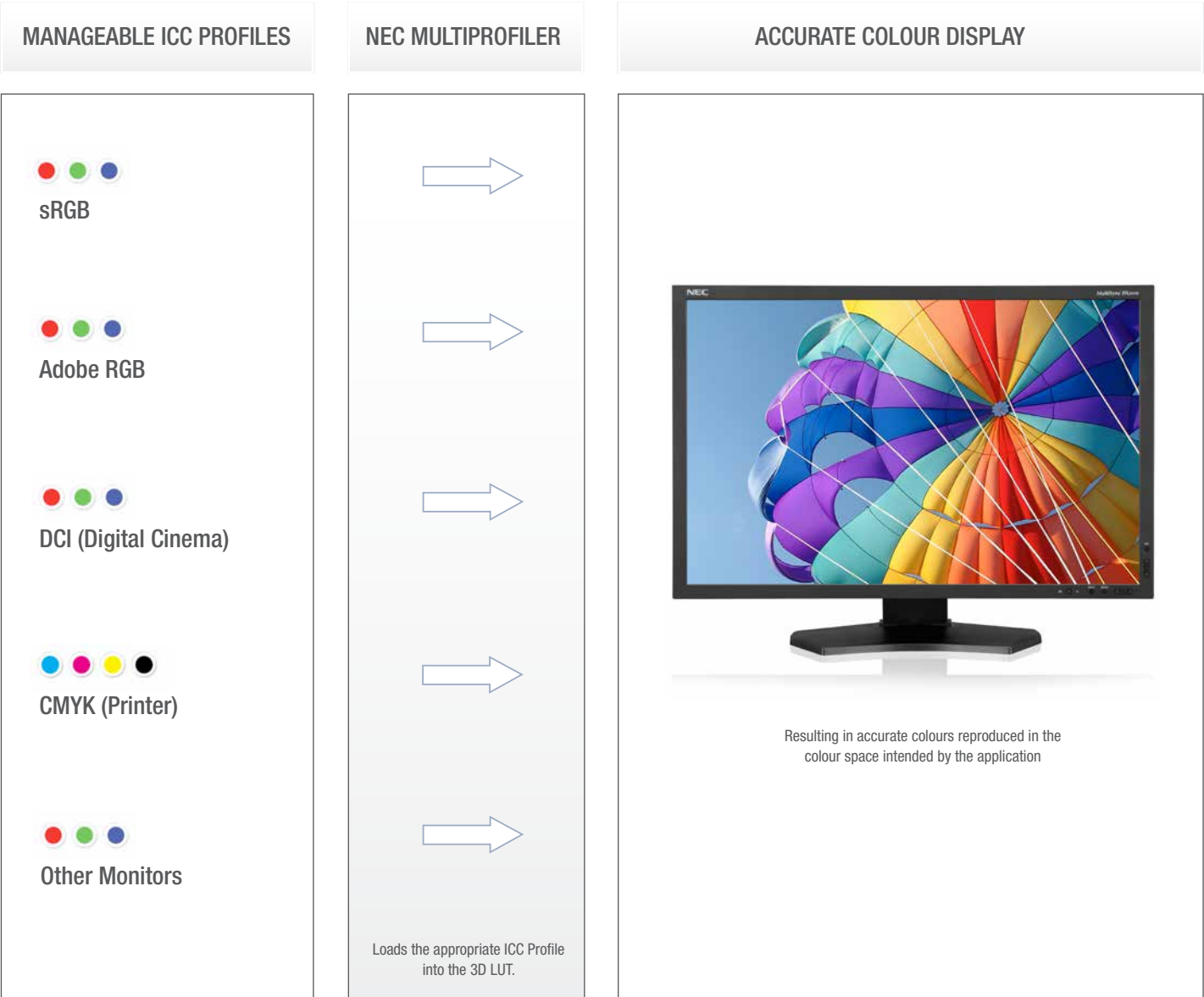
### CONSISTENCY WHATEVER THE SOURCE

The SpectraView® Series lends itself powerfully to a variety of situations in which a colour workflow is required to ensure consistent colour representation from source, through to processing, editing and the final hard copy result. The industry standard ICC (Internal Colour Consortium) profile can be assigned to a variety of devices (e.g. digital camera, video camera, printer, digital cinema projector) to define the colour properties so that colour information can be consistently defined and communicated through the workflow.

The 3D LUT Colour Emulation feature of the SpectraView® Series can take the ICC profile of any device, e.g. printer, and through uploading via the MultiProfiler software application, define the monitor gamut to that specific ICC profile. Some typical workflow examples, making use of the programmable 3D LUT include:

A web designer working with the sRGB colour gamut can set the SpectraView® monitor to display only the sRGB colour gamut, and therefore have full confidence what the internet users will see. A television video editor can define the SpectraView® monitor, via the 3D LUT, to show only REC-BT.709 (the standard governing HDTV) so that image material will be edited and displayed only in the gamut of a HDTV television set. This ensures that the final result, as seen on a tv set, will not have any colour surprises.

A digital photographer can upload the ICC profile of their printer into the 3D LUT, so that the monitor only displays those CMYK colours which can be physically printed. At the same time paper standards, such as eciRGB\_v2 can be emulated. This avoids unnecessary printing costs, and assists getting the right result first time.





## NEXT GENERATION ERGONOMICS

### VISUAL COMFORT ERGONOMICS

Especially in the world of publishing and media, professionals cannot afford to make mistakes. An inappropriate or inconsistent choice of marketing colour can negatively impact a brand identity. The SpectraView® Series offers a range of features to guarantee outstanding image quality and levels of ergonomic comfort which allow for accurate, fatigue-free working to minimise human error.

Lighting conditions vary during the course of a working day. The user hood provides additional protection from unwanted light interference. With its precise image, wide screen format and exceptional viewing angles, tired or over-strained eyes are a thing of the past with the NEC SpectraView® Series.

### PHYSICAL MOTION ERGONOMICS

Our monitors are designed for the people who work with them, and for their environment. If you spend the whole day working in front of a monitor, every ill-fitting millimeter will make itself felt. That is why our displays have ErgoDesign® with height-adjustment up to 150 mm, swivel through +/-45° degrees and easy adjustment to different tilt angles. Design means more than looking good, small details make a better ergonomic package. The NEC SpectraView® Series is conceived to combine elegance with maximum functionality in daily use by professionals.

The monitor stand Quick-Release mechanism is extremely easy to use and saves precious installation time with large roll-outs. To attach the monitor to a monitor arm or wall bracket, the stand can quickly and easily be removed without any tools. Smart details for professional use.

#### SUPERIOR IMAGE SUPERIOR WORKING SET UP

Optimising user comfort during examinations creates a proactive, satisfying and therefore more productive working environment

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10 Bit AH-IPS Image for Smoother and Wider Angle Viewing

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15cm Height Adjust and Quick Release Head

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Tilt, Swivel and Rotate Functionality



## ADVANCED CONNECTIVITY

### ADVANCED CONNECTIVITY

Experience time saving and reduced hardware requirements through easy multi-platform support (Windows, Mac, Linux) and input following USB hub (DisplaySync Pro) all on one display.

### DISPLAYPORT

The DisplayPort or Mini DisplayPort connector is compact and features an in-built locking mechanism, which can be disengaged with a simple button press, giving you hassle-free installation. Longer cable lengths and 10-bit colour support ensure that you enjoy greater installation flexibility as well as an enhanced viewing experience with future-proof peace of mind.

### HDMI

The HDMI connector allows easy direct connectivity to many digital cameras and other digital image sources.

### MULTI-PLATFORM

You will have less desk clutter and easier multi-platform working with the integrated USB hub (2 up; 3 down) for attaching USB peripherals such as mouse and keyboard. The 2 upstream USB ports can be assigned to different video inputs. This is most advantageous when feeding the Picture-in-Picture feature with two independent video signals from different platforms (Windows, Mac, Linux etc.), since a single mouse and keyboard can be used to drive both platforms. The thin bezel design and compact form factor ensure clean desktop look.

### FUTURE READY CONNECTIVITY

Including all the Connectivity for today and tomorrow means a safe investment and peace of mind for the future.



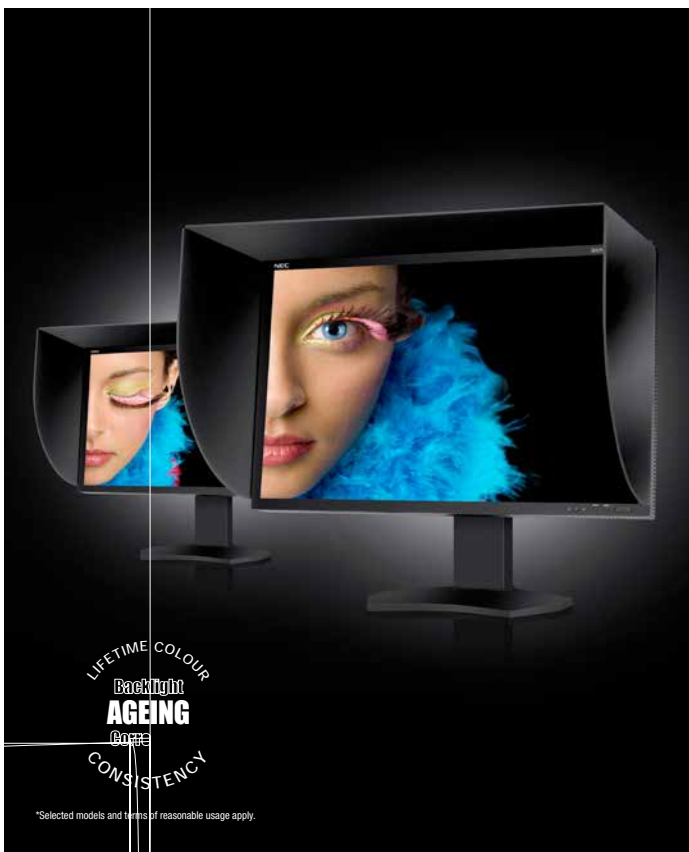
## AN NEC GREEN VISION DISPLAY

### A BILLION COLOURS AND ALL OF THEM GREEN

The SpectraView Series product concept has been engineered from the start to be consistent with NEC's long term environmental commitments. Clearly articulated in its award winning Green Vision campaign, NEC is combining its leading edge technology and passion for innovation, with all efforts to minimise life-cycle environmental impact, while at the same time as continuing to meet the most demanding customer expectations. The Green Vision campaign is based on the two pillars of Green Productivity and Green Sustainability. Green Productivity is NEC's commitment to more efficiency with less consumption and is based on the use of reliable, leading edge technology. On the one hand, this guarantees an exceptionally long service life with subsequent life-cycle cost-effectiveness of the equipment.

The latest example of this approach can be seen in the employment of GB-R LED technology at the heart of the panel light source. This innovative LED technology is significantly reducing monitor power requirements, and at the same time offering benchmark wide colour gamut capability.

Green Sustainability is NEC's commitment to responsible innovation and production and involves materials management as well as packaging and transport. The SpectraView Series use bio-plastics, along with recycled metal and plastic, are being used, and enjoys reduced packaging sizes and weights through its innovative IF Design awarded cabinet design.



	SV232	SV242	SV272	SV Ref242	SV Ref272	SV Ref302
Order Code	60003161	60003544	60003546	60003543	60003545	60003547
Colour Versions	B	B	B	B	B	B
Panel Technology	IPS / LED	AH-IPS / LED	AH-IPS / LED	AH-IPS / LED	AH-IPS / LED	AH-IPS / LED
Screen Size [inch / cm]	23.0 / 58.4	24.1 / 61.1	27 / 68.5	24.1 / 61.1	27 / 68.5	29.8 / 75.6
Aspect Ratio	16:9	16:10	16:9	16:10	16:9	16:10
Colour Gamut AdobeRGB / NTSC [%]	76 / 72	109 / 99	109 / 99	109 / 99	109 / 99	109 / 99
Brightness (typ.) [cd/m <sup>2</sup> ]	250	340	340	340	340	340
Contrast (typ.)	1000:1	1000:1	1000:1	1000:1	1000:1	1000:1
Hardware Calibration / Look Up Table	42-bit Colour / 14-bit	42-bit Colour / 14-bit	42-bit Colour / 14-bit	42-bit Colour / 14-bit	42-bit Colour / 14-bit	42-bit Colour / 14-bit
Response Time (typ. G to G) [ms]	8	8	8	8	7	7
Colours [Mio.]	16.77	1073	1073	1073	1073	1073
Resolution at 60 Hz	1920 x 1080	1920 x 1200	2560 x 1440	1920 x 1200	2560 x 1440	2560 x 1600
Connectors	DisplayPort, DVI-D, HDMI, VGA, USB	DisplayPort, DVI-D, HDMI, VGA, USB	DisplayPort, Mini DisplayPort, DVI-D, USB, HDMI	DisplayPort, DVI-D, HDMI, VGA, USB	DisplayPort, Mini DisplayPort, DVI-D, USB, HDMI	DisplayPort, Mini DisplayPort, DVI-D, USB, HDMI
Power Use Normal / ECO [W]	29 / 18	56 / 37	73 / 37	56 / 37	73 / 37	87 / 47
Power Saving Mode [W]	1	2	1.4	2	1.4	1.4
Internal Power Supply	●	●	●	●	●	●
Height Adjustable Stand [mm]	150	150	150	150	150	150
Other Ergonomics	Tilt, Swivel, Rotate	Tilt, Swivel, Rotate	Tilt, Swivel, Rotate	Tilt, Swivel, Rotate	Tilt, Swivel, Rotate	Tilt, Swivel, Rotate
Bezel Width T - B / L - R [mm]	17.0 / 16.2	18.2 / 18.2	20.0 / 20.3	18.2 / 18.2	20.0 / 20.3	22.0 / 22.4
Dimensions with stand (W x H x D)	543.6 x 338.0 x 227.6	556.8 x 378.0 x 227.6	640.4 x 396.2 x 235.5	556.8 x 378.0 x 227.6	640.4 x 396.2 x 235.5	688.0 x 465.0 x 302.0
Weight with stand [kg]	9.2	10.6	12.9	10.6	12.9	18.0
TCO	●	-	-	-	-	-
NaViSet Administrator 2	●	●	●	●	●	●
SpectraView Profiler Software	●	●	●	●	●	●
Warranty	3 years	3 years	3 years	5 years	5 years	5 years

# SPECTRAVIEW® SERIES

SpectraView 232 | 242 | 272 | SpectraView Reference 242 | 272 | 302



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Colour Management Website:  
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