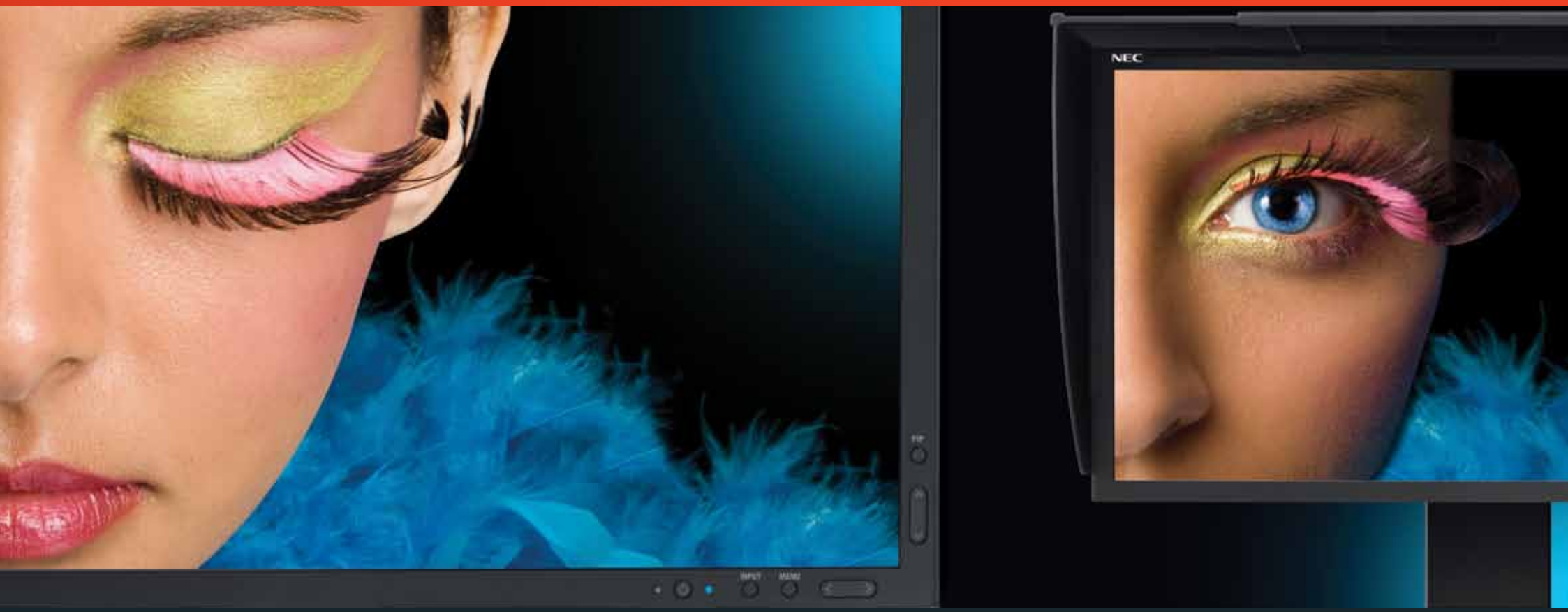
Empowered by Innovation NEC

NEC Colour Critical Reference Displays

SPECTRAVIEW® SERIES

Featuring SpectraView Reference 241 | 271 | 301

When Colour is Critical



FOGRA PRECERT CLASS A
IF DESIGN AWARD 2010

SPECTRAVIEW® SERIES

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 prepress 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 NEC 3 year on-site warranty extendable up to 5 years.

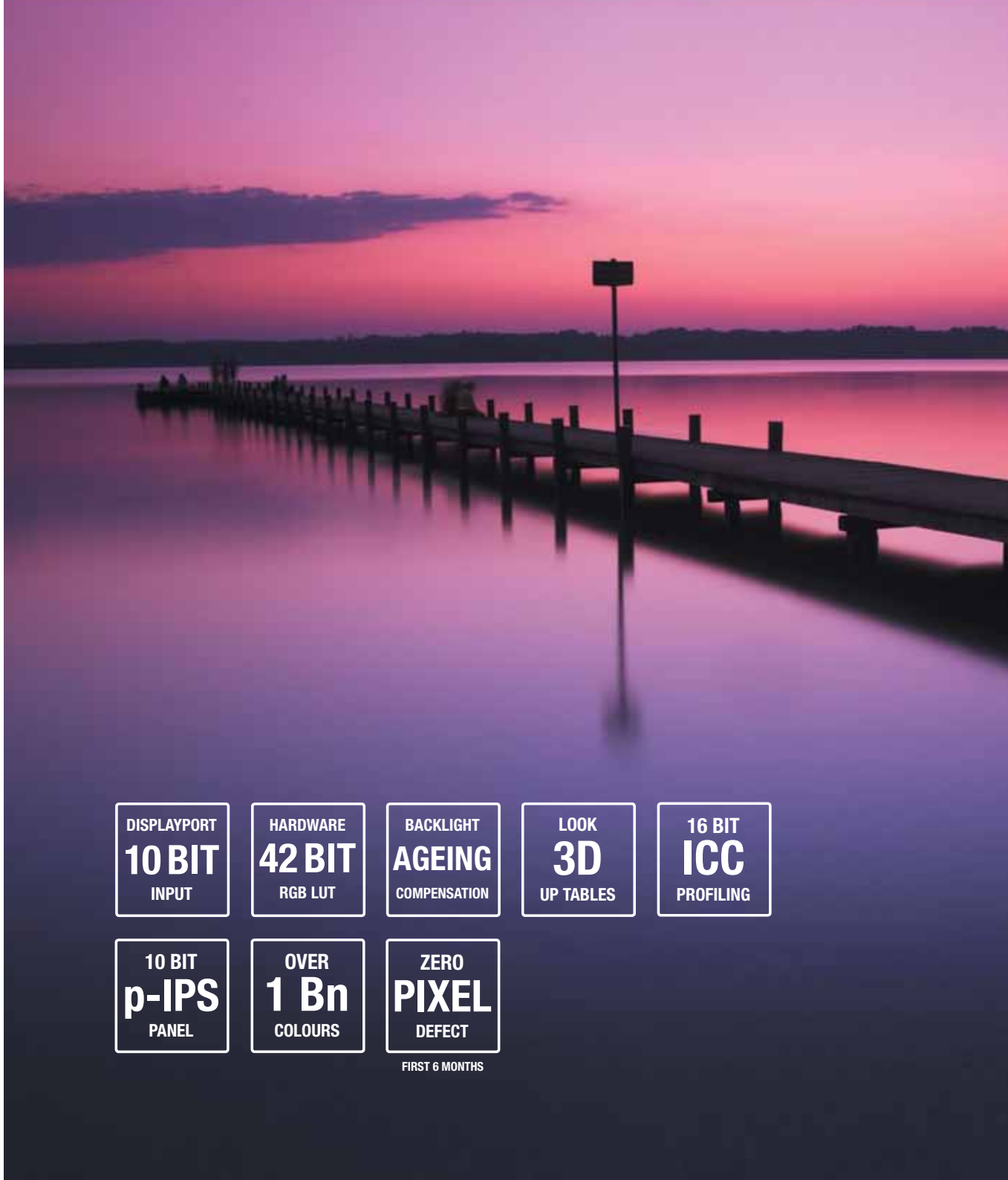
CREATE AND PRINT WITH CONFIDENCE

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.

REFERENCE

The NEC REFERENCE designation is awarded to our products and solutions which through their performance and benefits we consider to be the market benchmark for our customers. The logo is a tangible reminder of our high quality, performance-driven Japanese heritage, our focus on award-winning design flair and our passion for state of the art leadership in innovation.

SpectraView®



Empowered by Innovation NEC

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 241, 271 and 301 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.

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 tough Fogra PreCert Class A requirements, NEC SpectraView® models can be used in systems to satisfy the strict ISO 3664 and 12646 standards.

REFERENCE STANDARD BENEFITS

10-BIT P-IPS PANEL UP TO 2560 x 1600 RESOLUTION
1 BILLION COLOURS
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

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

10 BIT P-IPS PERFORMANCE

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 P-IPS panel offers the ultimate image quality and represents the cutting-edge of today's professional imaging technology.

The P-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 P-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.

P-IPS PANEL TECHNOLOGY: Delivers genuine 10-Bit high quality performance, utilising a DisplayPort 10-Bit input combined with 10-Bit P-IPS display technology. With 10-Bit/ per channel SpectraView delivers a combined 30-Bit Colour Gamut.

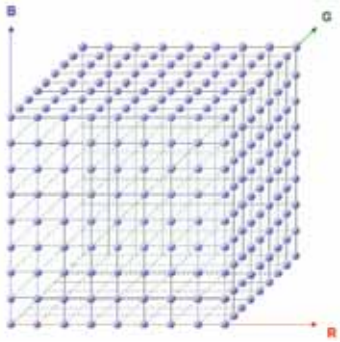
ADVANCED COLOUR REPRODUCTION

WIDE COLOUR GAMUT

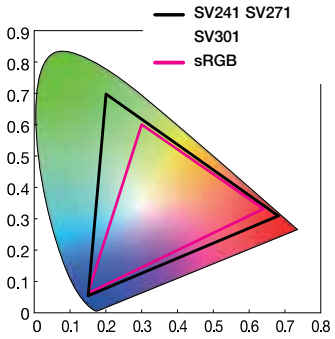
Experience the very best in colour image quality with the latest generation of state of the art 10-bit P-IPS technology, with exceptionally wide viewing angle, widest colour gamut available (107% AdobeRGB colour space) and absence of colour shift. The true benefit of a wide colour gamut display is particularly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

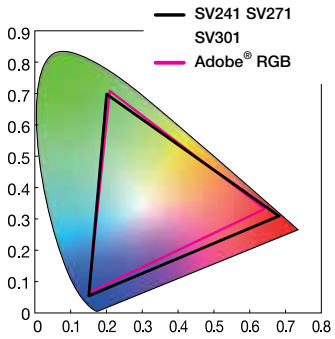
3D LOOK UP TABLES

The integrated 3D LUT with colour emulation preset within the SpectraView® 231 and Reference 241, 271 or 301, 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.



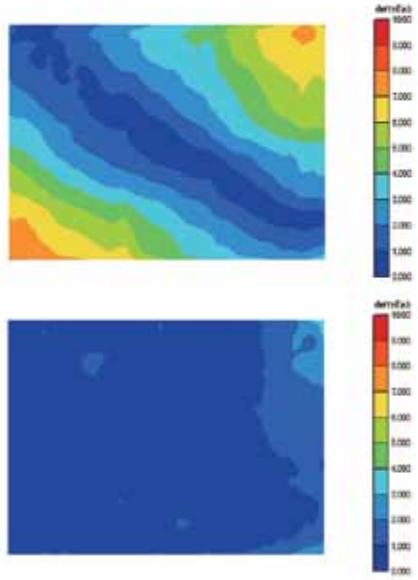
3D LUT Ideal for any Colour Users who require the best Colour Replication and Previewing across alternate ICC Profiles





ADVANCED TECHNOLOGY
On -Board Digital Uniformity Control

LONG TERM CONSISTENCY



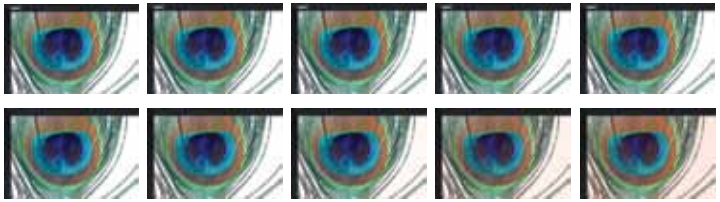
DIGITAL UNIFORMITY CONTROL
Before Digital Uniformity Control is applied (Top)
After Digital Uniformity Control is applied (Bottom)

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 backlight ages the white point temperature shifts to yellow, which can be periodically compensated through an ageing estimate to appropriately modify the RGB filter gains.



CONSISTENT WHITE POINT
Illustration of screen white point drift over time with Backlight Ageing Compensation on above and without Backlight Ageing Correction below.

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.

RECOGNISED 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 benchmark Fogra PreCert requirements, SpectraView® displays can also be used as part of ISO approved prepress 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.

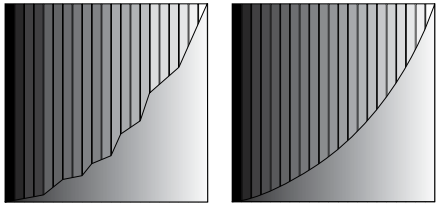
FOGRA

SpectraView® award-winning models have recently added FOGRA PRECERT Class A approval to their many accolades. SpectraView® 231, Reference 241, 271 and 301 meet head on the challenging requirements of the FOGRA PRECERT soft-proofing system.

Mitglied der | Member of fogra

Before Smoothing

After Smoothing



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

SPECTRAVIEW PROFILER

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 grayscales 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 sensoring 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

Empowered by Innovation NEC

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.

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.

REFERENCE

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

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.

MANAGEABLE ICC PROFILES

sRGB

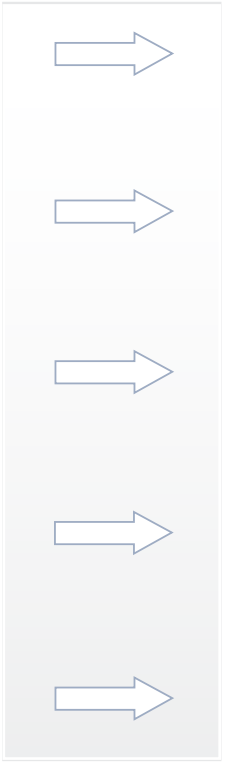
Adobe RGB

DCI (Digital Cinema)

CMYK (Printer)

Other Monitors

NEC MULTIPROFILER



Loads the appropriate ICC Profile into the 3D LUT.

ACCURATE COLOUR DISPLAY

Resulting in accurate colours reproduced in the colour space intended by the application

Empowered by Innovation NEC

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 it's 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 millimetre 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. Many small details make up a large ergonomic package. Design means more than just looking good. 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.

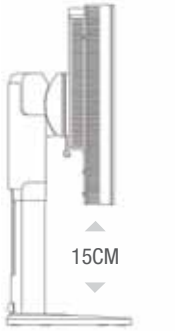
SUPERIOR IMAGE SUPERIOR WORKING SET UP

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

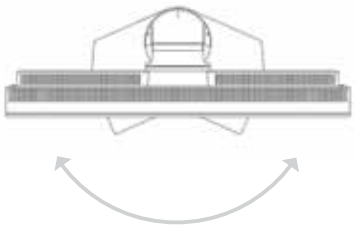
10 Bit P-IPS Image for Smoother and Wider Angle Viewing

15cm Height Adjust and Quick Release Head

Tilt, Swivel and Rotate Functionality



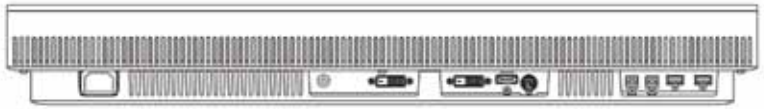
SWIVEL



TILT

product design award 2010

ROTATE



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 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.

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

Empowered by Innovation NEC

SpectraView® Colour Critical Displays

23” Wide to 30” Wide Reference Models

LIFETIME* COLOUR
Backlight
AGEING
Correction
CONSISTENCY

SpectraView® Reference 241 | SpectraView® Reference 301

*Selected models and terms of reasonable usage apply.

UP TO 70” CALIBRATED COLOUR VIEWING

THE IDEAL COLLABORATIVE VIEWING MEDIUM FOR YOUR PUBLISHING CONCEPTS

Our professional, heavy duty cycle, colour critical large format displays are ideal for both reviewing designs in process in agency offices and also ensuring that corporate, brand and campaign colouring and ‘look and feel’, are applied consistently, locally or nationally.

With 10-bits LUT hardware calibration, you can get a large size colour accurate ‘showcase’ version of your work to share with colleagues or clients.

CALIBRATED VIDEO WALL SOLUTIONS

NEC video walls provide the perfect medium for fixed mass marketing in busy locations with captivating, larger than life, LAN deliverable, content the norm. Their ultra narrow bezels, their advanced LCD panel technology and their modular design allow the building of very large display walls to satisfy any project requirements. In addition, NEC simple to operate, cross wall, calibration solutions and proprietary Edgecomp maximise uniformity across the wall even in tricky screen edge regions. You can expect unrivalled consistency for your digital publications over an entire wall of up to 60 square metres in size, where irregularities commonly associated with lower quality displays can look extremely unsightly.

NEC Digital Signage Solutions with their dynamic content and easy remote management via RS232, SNMP or LAN, also feature a slot option bay to accomodate state of the art PC Boards, TV tuners, CAT5 receivers and HDSDI boards for broadcasting. Digital signage offers a ‘try it and see’ capability that means content can be enhanced live as campaigns are tested for effectiveness, whilst being a more ecological solution avoiding the traditional waste involved with fixed print.

MODELS	CALIBRATABLE LARGE FORMAT DISPLAYS
P SERIES X SERIES	40 - 70” PD REFERENCE DISPLAYS 46 AND 55” VIDEO WALL ULTRA-THIN BEZEL DISPLAYS

SPECIFICATIONS

DISPLAY	**Panel Technology** **Screen size** **Aspect ratio** **Pixel Pitch** **Brightness (typical)** **Contrast (typical)** **Viewing Angle** **Response Time (typical)** **Colours** **Colour Gamuts (Size comparison, typ.)**
SYNCHRONIZATION RANGE	Horizontal Analog; Digital Vertical
RESOLUTION	Native Supported
INPUTS	Digital Analog
POWER CONSUMPTION	Typical Eco Mode ON Power Savings Mode Power Supply
ENVIRONMENTAL	Operating Temperature Operating Humidity Storage Temperature Storage Humidity
ERGONOMICS	Height adjustable Stand Screen Tilt Screen Swivel Screen Rotate
BEZEL WIDTH	Bezel Width
DIMENSIONS	W x H x D
WEIGHT	With stand (net) Without stand (net)
COLOUR VERSIONS	Bezel/ Cabinet Colour Combinations
OTHERS	Cable Management Slot for Kensington Lock VESA Mounting Plug & Play Audio Option: Adjust functions: Shipping Content
SAFETY AND ERGONOMICS	Safety and Ergonomics
WARRANTY	Warranty

SPECTRAVIEW® 231	SPECTRAVIEW® REFERENCE 241	SPECTRAVIEW® REFERENCE 271	SPECTRAVIEW® REFERENCE 301
IPS TFT	**P-IPS TFT**	**P-IPS TFT**	**P-IPS TFT**
23.0 inch / 58.4 cm	**24.1 inch / 61.1 cm**	**27 inch / 68.5 cm**	**29.8 inch / 75.6 cm**
16:9	**16:10**	**16:9**	**16:10**
0.265 mm	**0.270 mm**	**0.233 mm**	**0.251 mm**
270 cd/m2	**360 cd/m2**	**300 cd/m2**	**350 cd/m2**
1000:1	**1000:1**	**1000:1**	**1000:1**
178 horizontal / 178 vertical (typ. at contrast ratio 10:1)	**178 horizontal / 178 vertical (typ. at contrast ratio 10:1)**	**178 horizontal / 178 vertical (typ. at contrast ratio 10:1)**	**178 horizontal / 178 vertical (typ. at contrast ratio 10:1)**
8ms (grey-to-grey), 14ms (8 white / black; 6 black / white)	**8ms (grey-to-grey), 16ms (8 white / black; 8 black / white)**	**7ms (grey-to-grey), 12ms (7 white / black; 5 black / white)**	**6ms (grey-to-grey), 12ms (6 white / black; 6 black / white)**
16.77 Million (8-bit per colour)	**1.073 (10-bit per colour)**	**1.073 (10-bit per colour)**	**1.073 Billion (10-bit per colour)**
75% coverage AdobeRGB	**107% size; 98% coverage AdobeRGB**	**107% size; 97% coverage AdobeRGB**	**107% size; 98% coverage AdobeRGB**
31.5 - 83 kHz 50.0 - 85.0 Hz	31.5 - 93.8 and 118.4 kHz; 31.5 - 91.1 and 118.4 kHz 50.0 - 85.0 Hz	No Analogue; 31.5 - 93.9 kHz 50.0 - 87.0 Hz	No Analogue; 31.5 - 98.7 kHz 30.0 - 87.0 Hz
1920 x 1080 at 60 Hz 1920 x 1080p; 1280 x 1024; 1280 x 960; 1280 x 720p; 1200 x 1920; 1152 x 870; 1152 x 864; 1024 x 768; 832 x 624; 800 x 600; 720 x 576p; 720 x 480p; 720 x 400; 640 x 480p; 640 x 480	1920 x 1200 at 60 Hz 1920 x 1080p, 1280 x 720p, 1024 x 768, 720 x 480p, 1600 x 1200, 1200 x 1920, 832 x 624, 720 x 400, 1280 x 1024, 1152 x 870, 800 x 600, 640 x 480, 1280 x 960, 1152 x 864, 720 x 576p, 640 x 480p	2560 x 1440 at 60 Hz 1920 x 1200, 1280 x 960, 1024 x 768, 720 x 480p, 1920 x 1080p, 1280 x 720p, 832 x 624, 720 x 400, 1600 x 1200, 1152 x 870, 800 x 600, 640 x 480, 1280 x 1024, 1152 x 864, 720 x 576p	2560 x 1600 at 60 Hz 800 x 600; 720 x 400; 832 x 624; 1280 x 960; 2048 x 1536; 640 x 480; 1280 x 1024; 1600 x 1200; 1200 x 1920; 1152 x 870; 1152 x 864; 1024 x 768; 1920 x 1080p; 1280 x 720p; 720 x 576p; 640 x 480p; 720 x 480p
1 x Display Port, 2 x DVI-D 1 x D-sub 15 pin, 1 x USB Hub	1 x Display Port, 2 x DVI-D 1 x D-sub 15 pin, 1 x USB Hub	1 x Display Port, 2 x DVI-D 1 x USB Hub	2 x Display Port, 2 x DVI-D 1 x USB Hub
46 W (max.) 40 W 1 W 100-240 V; 0.79 A/0.33 A; integrated power supply	95 W (max.) 59 W 1 W 100-240 V; 1.38 A/0.56 A; integrated power supply	117 W (max.) 75 W < 1.4 W 100-240 V; 1.6 A / 0.65 A; integrated power supply	155 W (max.) ON 90 W < - W 100-240 V; 1.9 A / 0.7 A; integrated power supply
+5 to +35° C 30 to 80 % -10° to +60°C +10% to +85%	+5 to +35° C 30 to 80 % -10° to +60°C +10% to +85%	+5 to +35° C 30 to 80 % -10° to +60°C +10% to +85%	+5 to +35° C 30 to 80 % -10° to +60°C +10% to +85%
150 mm (Landscape mode) -5 to +30° -45 to +45° 0 to 90° (landscape to portrait mode)	150 mm (Landscape mode) -5 to +30° -45 to +45° 0 to 90° (landscape to portrait mode)	150 mm (Landscape mode) -5 to +30° -45 to +45° 0 to 90° (landscape to portrait mode)	150 mm (Landscape mode) -5 to +30° -45 to +45° 0 to 90° (landscape to portrait mode)
16.2 mm	18.2 mm	20.3 mm	22.3 mm
With stand (net) 543.6 x 337.4 - 487.4 x 227.6 mm (landscape mode) Without stand (net) 543.6 x 322.4 x 74.0 mm	With stand (net) 556.8 x 378 - 528 x 227.6 mm (landscape mode) Without stand (net) 556.8 x 362.4 x 85.0 mm	With stand (net) 640.4 x 396.2 x 235.5 mm (landscape mode) Without stand (net) 640.4 x 378.6 x 85.0 mm	With stand (net) 688 x 466 x 302 mm (landscape mode) Without stand (net) 688 x 557 x 125 mm
10.2 kg 7.0 kg	10.6 kg 7.4 kg	13.6 kg 9.6 kg	18.8 kg 12.5 kg
Black Front Bezel, Black Back Cabinet (Order Code 60002930)	Black Front Bezel, Black Back Cabinet (Order Code 60002993)	Black Front Bezel, Black Back Cabinet (Order Code 60002992)	Black Front Bezel, Black Back Cabinet (Order Code 60002929)
Yes Yes 200 x 100 (5 points); 100 x 100 (4 points) VESA DDC/CI; EDID Standard; VESA DDC2B MultiSync® Soundbar 90 Advanced NTAA; Advanced User Menu; Contrast; Expansion Mode; Auto Adjust; Black Level; Brightness / Colour Temperature Control; Fine Adjust (analog); Hotkeys; Intelligent Power Management; Language Select; Monitor Information; OmniColor™: sRGB and 6-axis-colour-control; OSD lock-out; PiP; Sharpness; USB; Backlight Ageing Correction; Digital Uniformity Control	Yes Yes 200 x 100 (5 points); 100 x 100 (4 points) VESA DDC/CI; EDID Standard; VESA DDC2B MultiSync® Soundbar 90 Advanced NTAA (Advanced Non-Touch-Auto-Adjustment); Advanced User Menu; Auto Adjust; Black Level; Brightness and Colour Temperature Control; Contrast; Expansion Mode; Fine Adjust (analog); Hotkeys; Intelligent Power Management; Language Select; Monitor Information; OmniColor™: sRGB and 6-axis-colour-control; On-Screen-Display (OSD) lock-out; Sharpness; USB	Yes Yes 200 x 100 (5 points); 100 x 100 (4 points) VESA DDC/CI; EDID Standard; VESA DDC2B MultiSync® Soundbar 90 Advanced User Menu; Black Level; Brightness and Colour Temperature Control; Contrast; Expansion Mode; Hotkeys; Intelligent Power Management; Language Select; Monitor Information; OmniColor™: sRGB and 6-axis-colour-control; On-Screen-Display (OSD) lock-out; USB	Yes Yes 200 x 100 (5 points); 100 x 100 (4 points) VESA DDC/CI; EDID Standard; VESA DDC2B None Advanced User Menu; Black Level; Brightness and Colour Temperature Control; Contrast; Expansion Mode; Hotkeys; Intelligent Power Management; Language Select; Monitor Information; OmniColor™: sRGB and 6-axis-colour-control; On-Screen-Display (OSD) lock-out; USB; Backlight Ageing Correction; Digital Uniformity Control
Monitor; Power Cable; Signal Cable DVI-D - DVI-D; Signal Cable VGA - VGA; DisplayPort Cable; CD-ROM; Sales Office List; User Manual; SpectraView Profiler	Monitor; Power Cable; Signal Cable DVI-D - DVI-D; Signal Cable VGA - VGA; DisplayPort Cable; CD-ROM; Sales Office List; User Manual, Light Protection Hood; SpectraView Profiler	Monitor; Power Cable; Signal Cable DVI-D - DVI-D; DisplayPort Cable; CD-ROM; Sales Office List; User Manual, Light Protection Hood; SpectraView Profiler	Monitor; Power Cable; Signal Cable DVI-D - DVI-D; DisplayPort Cable; CD-ROM; Sales Office List; User Manual, Light Protection Hood; SpectraView Profiler
CE; TCO 5.0; ERP; TÜV Ergonomics; TÜV GS; C-tick; FCC Class B; PCT/Gost; UL/C-UL or CSA; CCC; ISO 9241-307 (pixel failure class I); MPR III; PCBC/B-mark; PSB; RoHS, Energy Star 5.0	CE; TCO 5.0; TÜV Ergonomics; TÜV GS; C-tick; FCC Class B; PCT/Gost; UL/C-UL or CSA; CCC; ISO 9241-307 (pixel failure class I); MPR II/ MPR III; PCBC/Bmark; PSB; RoHS	CE; TCO 03; TÜV Ergonomics; TÜV GS; C-tick; FCC Class B; PCT/Gost; UL/C-UL or CSA; CCC; ISO 9241-307 (pixel failure class I); MPR II/ MPR III; PCBC/Bmark; PSB; RoHS	CE; TCO 03; TÜV Ergonomics; TÜV GS; C-tick; FCC Class B; PCT/Gost; UL/C-UL or CSA; CCC; ISO 9241-307 (pixel failure class I); MPR II/ MPR III; PCBC/Bmark; PSB; RoHS
3 years warranty including backlight, optional extension to 5 years.	3 years warranty including backlight, zero pixel defects (first 6 months). Optional warranty extension to 5 years.	3 years warranty including backlight, zero pixel defects (first 6 months). Optional warranty extension to 5 years.	3 years warranty including backlight, zero pixel defects (first 6 months). Optional warranty extension to 5 years.

Document Name: NEC SV Ref Product Guide
Document Revision: Version 2
Document Date: 03/11

NEC Colour Critical Reference Displays

SPECTRAVIEW® SERIES

NEC REGIONAL OFFICES

NEC Display Solutions Europe GmbH – HQ
Landshuter Allee 12-14, D-80637 München
infomail@nec-displays.com
Phone: +49 (0) 89 99 699-0
Fax: +49 (0) 89 99 699-500
www.nec-display-solutions.com

NEC (UK) Ltd. – Display Solutions Division
NEC House
1 Victoria Road, London W3 6BL
Phone: +44 (0) 870 120 1160
Fax : +44 (0) 208 752 3670
www.nec-display-solutions.co.uk

NEC France S.A.S Division Display Solutions
29 rue des Hautes Pâtures, F-92737 Nanterre Cedex
necdisplay@eu.nec.com
Phone: +33 (0) 1 46 49 46 49
Fax: +33 (0) 1 47 69 92 86
www.nec-display-solutions.fr

NEC Display Solutions Iberica
C/ Anabel Segura, 7 – Planta 2a
E- 28108 Alcobendas (Madrid), Spain
Phone: +34 (0) 91 203 29 00
Fax: +34 (0) 91 650 11 00
www.nec-display-solutions.es

NEC Italy S.r.l. – Display Solutions Division
Viale Enrico Forlanini 23, I-20134 Milano
info.necdisplay-it@eu.nec.com
Phone: +39 (0) 24 84 151
Fax: +39 (0) 24 84 15 409
www.nec-display-solutions.it

NEC Display Solutions Europe GmbH Austria
Mooslackengasse 17, A-1190 Wien, Österreich
infomail@nec-displays.com
Phone: +43 (1) 23060 3685
Fax: +43 (1)23060 3686
www.nec-display-solutions.at

NEC Display Solutions Europe GmbH Poland
ul. Bociana 22A
PL-31-231 Kraków
Phone: +48 (0) 12 614 53-53
Fax: +48 (0) 12 614 53-54
www.nec-display-solutions.pl

NEC Scandinavia AB, Display Solutions, Sweden
Kronborgsgränd 11
S-16487 Kista
Phone: +46 (0) 8 635 92 00
Fax: +46 (0) 8 635 93 50
www.nec-display-solutions.se

NEC Scandinavia AB, Display Solutions, Norway
Olaf Helsetsvei 6
NO-0621 Oslo
Phone: +47 (0) 22 62 89 95
Fax: +47 (0) 22 62 89 96
www.nec-display-solutions.no

NEC Finland OY, Display Solutions, Finland
Ahventie 4
FIN-02170 ESPOO
Finland
Phone: +358 9 348 70204
www.nec-display-solutions.com

NEC Display Solutions Europe GmbH Russia
Smolenskaya square 3, Office 760
121099 Moscow, Russia
Phone: +7 495 937 84 10
Fax: +7 495 937 82 90
www.nec-display-solutions.ru

NEC Display Solutions, South Africa
P.O. Box 7243, Westwood, 1477
Johannesburg, South Africa
Phone: +27 (0) 11 918 6449
Fax: +27 (0) 11 894 2973
www.nec-display-solutions.com

NEC Display Solutions Middle East
3rd Floor, Jafzaview 18
Jebel Ali, Dubai
U.A.E.
Phone: +971 50 158 53 71
www.nec-display-solutions.com

Empowered by Innovation

NEC