

PlasmaSync Accessories



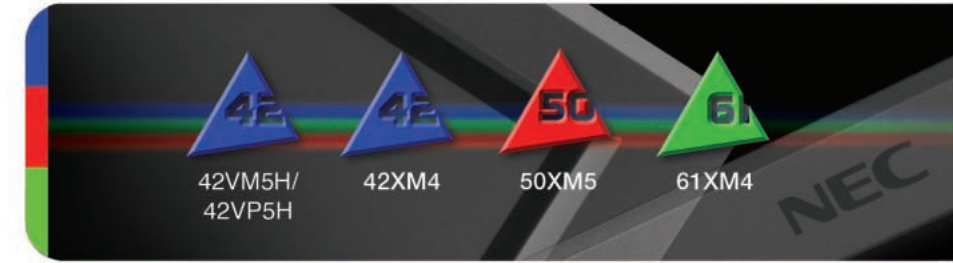
61 PX-61XM4

50 PX-50XM5

42 PX-42XM4 / PX-42VM5H
PX-42VP5

The PlasmaSync Accessory Range gives you the ultimate installation solutions for almost every environment, including vertical and angled situations.

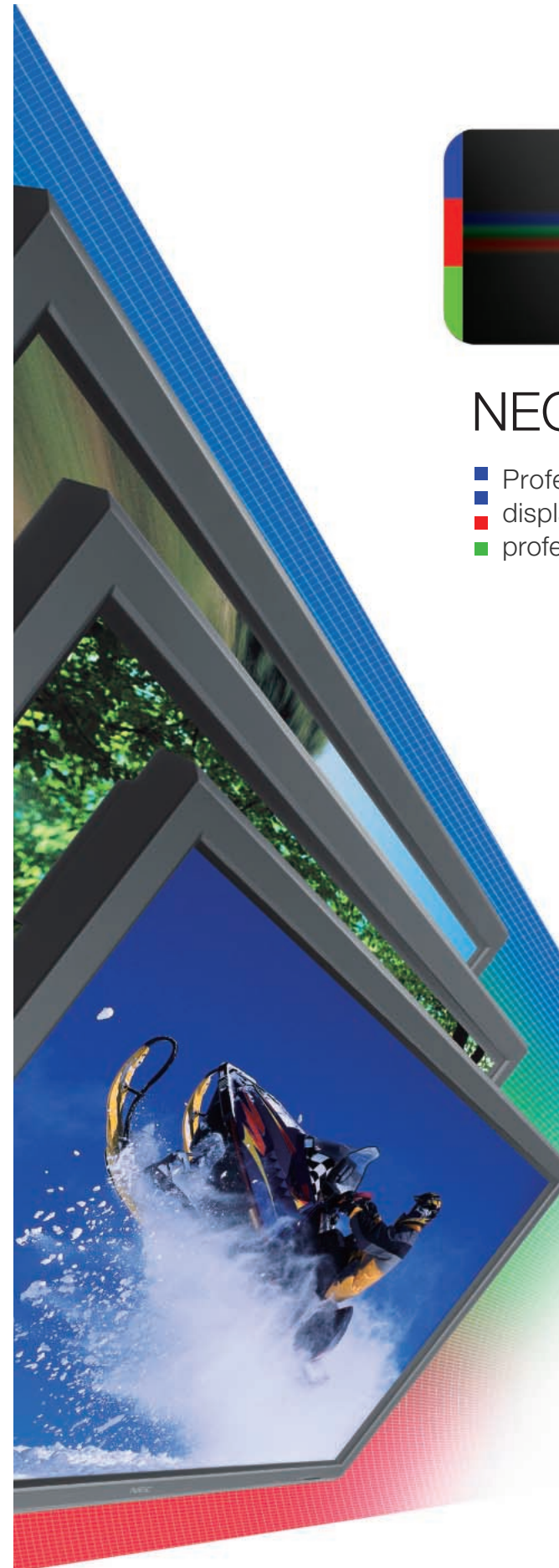
- Wall Mount Unit (PX-W2U)**
 For wall mount installations.
- Wall Mount Unit (PX-W3U)**
 For wall mount installations.
- Ceiling Mount Unit (PX-C2U)**
 Allows the monitors to tilt forward 0 to 30° (horizontal only).
- Ceiling Mount Unit (PX-C3U)**
 In horizontal plane the monitors will tilt forward 0 to 30°. In vertical plane allows 50XM5 to tilt forward 0 to 10° and the 61XM4 to tilt forward 0 to 5°.
- Tilt Mount Unit (PX-T2U)**
 Allows monitors to tilt forward 5 to 25° (horizontal only).
- Tilt Mount Unit (PX-T3U)**
 In horizontal plane the monitors will tilt forward 0 to 30°. In vertical plane allows 50XM5 to tilt forward 0 to 10° and the 61XM4 to tilt forward 0 to 5°.
- Table-Top Stand (PX-ST1U)**
 For free standing installations.
- Table-Top Stand (PX-61ST1U)**
 For free standing installations.
- Attachable Speakers (PX-42SP1U)**
 10-watt speakers, stand-alone or attach to the monitor.
- Attachable Speakers (PX-50SP1U)**
 20-watt speakers, stand-alone or attach to the monitor.
- Attachable Speakers (PX-61SP1U)**
 20-watt speakers, stand-alone or attach to the monitor.
- Multi Screen Mount Unit (PX-42VP1U-MW)**
 Multi Screen Mount Unit (Made to Order).
- Multi Screen Support Unit (PX-42VP1U-MW-S)**
 Plinth for PX-42VP1U-MW (Made to Order).
- Terminal Cover (PX-CV2U)**
 For covering the terminal cabling. (*PX-42VM5H / PX-42VP5H only)
- Vertical Wall Mount Unit (PX-42VP1U-VW)**
 For installing in portrait position



NEC PlasmaSync Range

- Professional Plasma displays for
- professional people

NEC PlasmaSync Range



The plasma display panel consists of fine picture elements (cells). Although NEC produces these plasma display panels with more than 99.99 percent of their cells active, there may be some cells that do not produce light or remain lit after they should have turned off. Light output of a PDP module gradually decreases over long-term use. Do not display static images for prolonged periods; otherwise a phosphor burn may appear on a part of the panel. Phosphor burns are not covered by the warranty. Status December 2005. Specifications may change without notice. The Images in this brochure are samples. The monitor may emit drive noise. This noise is not a defect in quality.



Larger Thinner Clearer

The innovative enhancements mean the new PlasmaSync defines multimedia presentation displays and public displays.



As a result of our efforts to pursue high quality images in the practical imaging range, our PlasmaSync materializes the high colour expression with 4,096-step colour-processing, which is equivalent to 68.7 billion colours. NEC's state-of-the-art signal processing circuit **Enhanced Digital AccuDevice** delivers more advanced image processing capabilities, and the **CCF (Capsulated Colour Filter)** method reproduce vivid colours and pure white as well as accurate data. Various function for professionals, such as the **Enhanced Split Screen** function applied in all XGA models, and the **Multi Screen Function**, introduced in all models, will exhibit its superior performance on various occasions in the professional market.

NEC PlasmaSync models PX-61XM4

- 61-inch Wide XGA Plasma
- 16:9 Aspect Ratio
- 1365 x 768 Pixel Resolution
- HD Compatible
- High Resolution PC Signal Compatibility
- 0.99mm(H) x 0.99mm(V) Pixel Pitch
- Enhanced Split Screen Functions
- Text Ticker Function
- 900% Smooth Digital Zoom
- Only 119mm Deep
- Only 61kg



NEC PlasmaSync models PX-50XM5

- 50-inch Wide XGA Plasma
- 16:9 Aspect Ratio
- 1365 x 768 Pixel Resolution
- HD Compatible
- High Resolution PC Signal Compatibility
- 0.81mm(H) x 0.81mm(V) Pixel Pitch
- Enhanced Split Screen Functions
- Text Ticker Function
- 900% Smooth Digital Zoom
- Only 96mm Deep
- Only 44.5kg

NEC PlasmaSync models PX-42XM4

- 42-inch Wide XGA Plasma
- 16:9 Aspect Ratio
- 1024 x 768 Pixel Resolution
- HD Compatible
- High Resolution PC Signal Compatibility
- 0.900mm(H) x 0.671mm(V) Pixel Pitch
- Enhanced Split Screen Functions
- Text Ticker Function
- 900% Smooth Digital Zoom
- Only 98mm Deep
- Only 30.0kg
- Lowest Power Consumption 285W



NEC PlasmaSync models 42VM5H/42VP5H

- 42-inch Wide VGA Plasma
- Anti-Glare Front Filter (VP5H only)
- Anti-Reflective Front Filter (VM5H only)
- 16:9 Aspect Ratio
- 853 x 480 Pixel Resolution
- High Resolution PC Signal Compatibility
- 1.08mm(H) x 1.08mm(V) Pixel Pitch
- Only 89mm Deep
- Only 28.5kg
- Cool and Quiet Operation
- 900% Smooth Digital Zoom

TECHNOLOGY

Fully digitized high-quality images

All image signals are fully digitized using NEC's state-of-the-art new signal-processing circuit, **Enhanced Digital AccuDevice**. High-definition progressive conversion produces comprehensive, high-quality images, and resolution conversion generates images with unmatched accuracy.

High-definition progressive expression

Progressive expression becomes more vivid. The **Enhanced Mass Area Superior Sampling Technology** renders smooth image expression without jagged edges and colour bleeding. Furthermore, the new Scan Converter dramatically improves character readability.

High capability for colour expression with 4,096 steps equivalent to 68.7 billion colours

The "Gamma-12" technology for precisely expressing details in dimly lit places achieves high colour expression with 4,096-step colour-processing, which is equivalent to 68.7 billion colours. With this rich, smooth gradation expression, images in dimly lit rooms can be reproduced with accuracy.

Vivid, breathtaking colours

The **CCF (Capsulated Colour Filter)** method and the AccuCrimson filter reproduce accurate, vivid colours and pure whites. The colour tuning function adjusts any single colour to enhance the overall display into a world of colours.

Functions for professionals

The timer function and the most numerous input/output interfaces in the industry are standard, as well as the capability to configure a **Multi-Screen System** with a maximum of 25 (5 x 5) screens. **Enhanced Sprit Screen Function** is provided for efficient support of your presentations.

HD Compatible

High-definition video is supported.

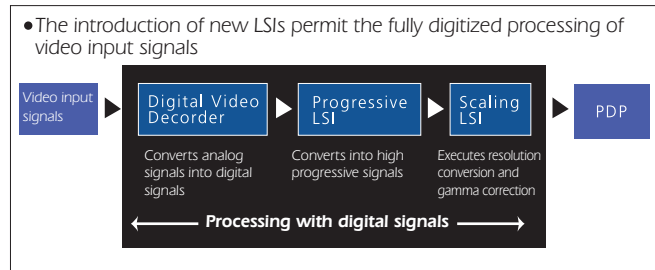
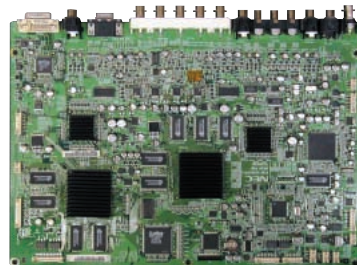
Outstanding connectivity of multiple interfaces

Rich varieties of IN/OUT terminals are available in the standard configuration.

Enhanced Digital AccuDevice

NEW

The **Enhanced Digital AccuDevice** prevents image deterioration and materializes crystal clear images with consistent fully-digitalized signal processing, as well as incorporating major advancements to the **ESS (Enhanced Split Screen)** function, which is an invaluable tool for a number of business applications.



High capability for colour expression with 4,096-step colour-processing equivalent to 68.7 billion colours

By introducing **Gamma-12**, rich and smooth expressions with 4,096-step colour-processing are achieved in the respective colours of R, G, and B to provide the industry's highest capability for color expression equivalent to 68.7 billion colours in the dark portion. The expression reproduces accurate, more faithful details.

4 kinds of gamma correction modes



TECHNOLOGY

Enhanced Motion Adaptive 3D Scan Conversion

NEW

By introducing a new algorithm, performance of the Motion Adaptive 3D Conversion has been improved. In the ordinary process, interpolation errors occurred when fast-moving images were displayed partially as a static image or with less motion. With the new algorithm, the problems are eliminated.



Current - interpolation error lines



Improved - no error lines

Enhanced Mass Area Superior Sampling

NEW

Enhanced Mass Area Superior Sampling has materialized clearer edge definition, which means that there is more accurate reproduction of acute diagonal lines with smoother contours.



Error Free Pull-Down Detection and Processing

NEW

The newly **Error Free Pull-Down Detection and Processing** which uses a new algorithm, detects bad editing sources which creates significant horizontal line noises on your picture and provides measures eliminating this noise to create a clear and perfect picture.

Multi-Field Noise Reduction

NEW

NEW signal processing techniques in PlasmaSync products advanced **Multi-Field Noise Reduction** tools which are able to achieve a significant improvement in the projected screen image quality by detecting and filtering all unwanted multi-field noise patterns.

Advanced Edge Correction

NEW

The quality of image edge lines, are smoother and more defined with the newly improved **Advanced Edge Correction**, which uses superior scaling techniques.

This feature means camera zooms and close ups emerge effortlessly onto the screen and the emphasis of small objects appears smooth and natural.



Current - visible jaggies



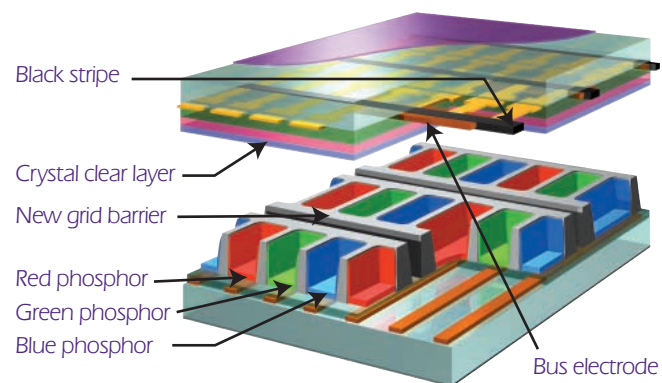
New scaling - smoother image

TECHNOLOGY

*1 Applied in PX-61XM4, PX-50XM5, PX-42VM5H and PX-42VP5H

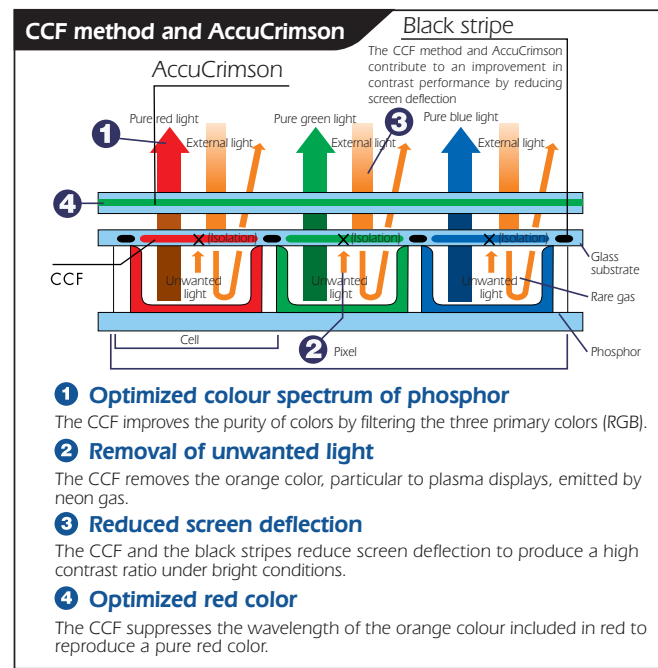
Crystal Clear Panel (PX-42XM4) **NEW**

With a combination of a new structure in the 42" XGA NEC PlasmaSync panel (Crystal Clear Panel) and effects from the Crystal Clear Drive, its luminous efficiency has been improved as materializing high brightness and low power consumption. Furthermore, outstandingly high contrast surpassing others in the real world has also been achieved.



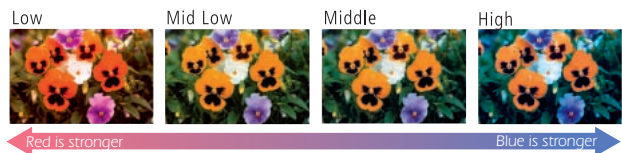
The CCF method, a unique NEC technology, and black stripes reproduce vivid, accurate colour*1

With the CCF (Capsulated Colour Filter) method, each pixel is capsulated and embedded with color filters for the three primary colours (RGB); the results are that the red, blue, and green colors are reproduced more accurately. By providing black stripes on the barriers between cells, a sharp black colour is also expressed. By employing NEC's unique technology, vivid colours are reproduced and a pure white color is expressed to reduce screen deflection.



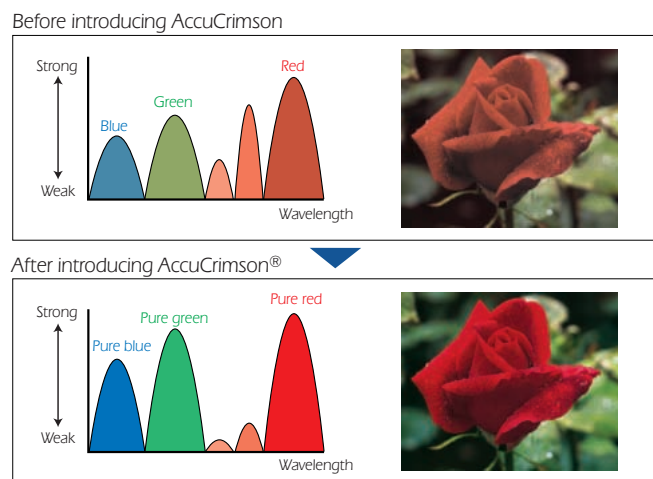
Four kinds of Colour temperature setting modes are available

The colour temperature setting adjusts the tone of the white colour. Four preset modes and a professional mode for advanced adjustments are provided for setting the colour temperature according to the purpose or preference.



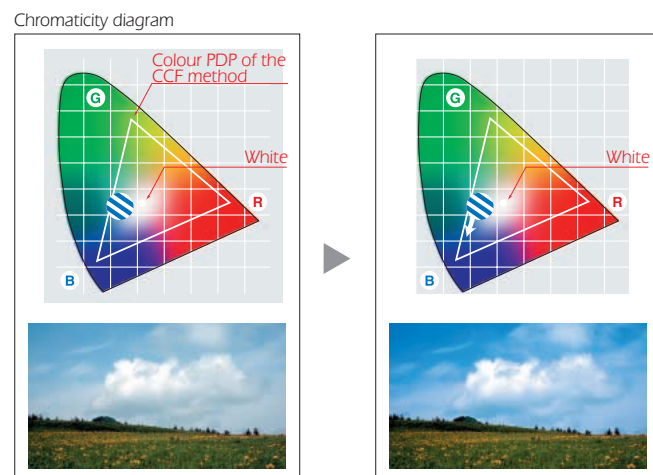
AccuCrimson reproduces accurate red colour*1

AccuCrimson, employed in the front filter, is a technology for attenuating the orange colour included in the wavelength for red, which is particular to the plasma display. AccuCrimson clearly expresses the delicate difference between cinnabar and red colours and reproduces natural skin tones—tasks which are difficult with ordinary plasma displays. (Advanced AccuCrimson with equivalent effects to the CCF method is applied to the PX-42XM4.)



The Colour Tuning Function adjusts specific colours

The Colour Tuning Function adjusts specific colours, such as red, blue, or green, individually without influencing the white balance. Since the white balance remains stable, specific colours can be adjusted depending on the video source or the purpose of use. For instance, deepen the blue colour of the sea or the green color of leaves.



FUNCTIONS

Functions for Professionals.

Programmable Timer function

This function is for setting the time not only for turning the display on/off but also for switching between image sources and the screen orbiter function. Scheduled operations can be registered and executed with the plasma monitor solely without using external controls such as a PC. It is also significantly effective for switching images in the Enhanced Split Screen mode.

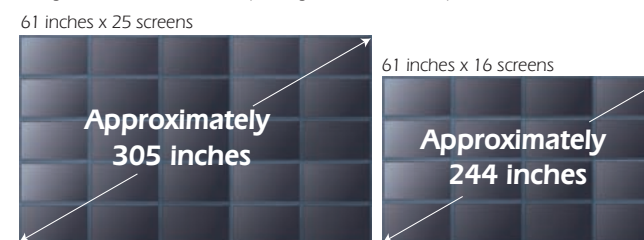
DATE	ON	OFF	INPUT	FUNCTION
MON	08:30	12:15	RGB2	INVERSE
TUE	--:--	18:15	--	--
SAT	08:30	12:15	VIDEO1	WHITE
*FRY	08:30	10:00	HD1	--
--:--	--:--	--:--	--	--
SAT	08:30	12:15	VIDEO1	WHITE
--	18:30	16:00	RGB1	--

◆◆ SEL ZOOM ADJ. EXIT RETURN

A Multi-Screen System can be configured with a maximum of 25 screens

Configure a Multi-Screen System with up to 25 screens. With the built-in zoom function, multi-screen systems of 25, 16, 9, and 4 screens can be configured. Versatile support functions significantly improve the efficiency of the settings required when the system is configured.

* If signals deteriorate when the loop-through function is used, a splitter is recommended.



Automatic ID function

In contrast with an ordinary system where IDs must be individually set through a remote controller for the respective displays comprising a multi-system, IDs are set automatically by connecting the respective display sets with wired cables (option) and setting the ID with the OSD function.

* Up to 9 screens

Power-on delay

In order to reduce the load on the power supply, the power-on delay inserts a time delay when multiple displays of a multi-screen system are turned on.

* Up to 25 screens

PLE Link Function

If the PLE Link Function is turned on, the respective PLE Functions of the multiple displays of a multi-screen system can be aligned each other. With this function, easy-to-see, vivid video images with uniform brightness are displayed.

* Up to 9 screens

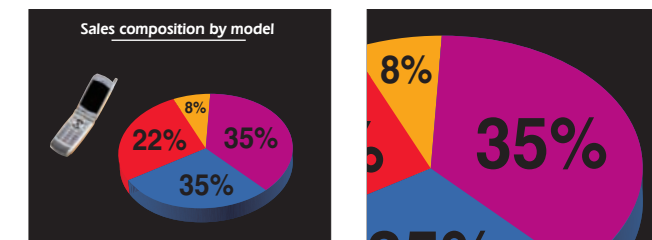


Reduced image retention with six modes

If the same image is displayed on the screen for several hours, colors of the displayed image may change. The PlasmaSync has six long life modes (1: PLE Lock, 2: Reverse, 3: White, 4: Orbiter, 5: Screen wiper, 6: Soft focus) to reduce this phenomenon. Implement the appropriate measures depending on the occasion. For the Orbiter mode, the fluid Orbiter with smooth movement is applied. (Occurrence of this phenomenon is out of the scope of the guarantee.)

Digital Zoom function of 900% with 4032 patterns

This function enlarges any portion of the screen at 63 points by remote control. Size of images can be adjusted smoothly and precisely and enlarged up to 900% of the original with 64 steps.



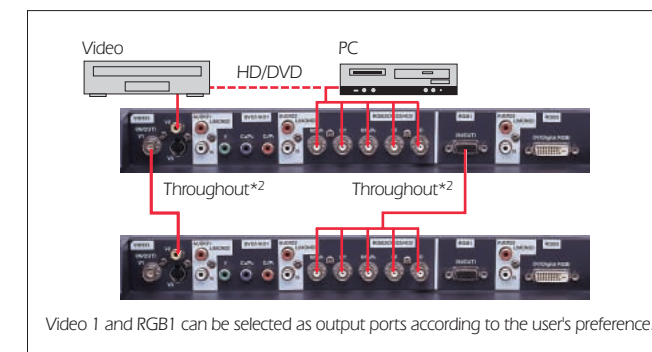
Vertical Installations

The PlasmaSync can be installed in portrait orientation for convenient display of advertising materials or when space is limited.



Outstanding connectivity of multiple interfaces

The PlasmaSync ports support a variety of devices, including DVD, Hi Vision, Video, and PCs. The DVI ports also support HDCP, the next generation digital interface standard. Furthermore, the loop-out function for both video and PC is also employed.



Other Features

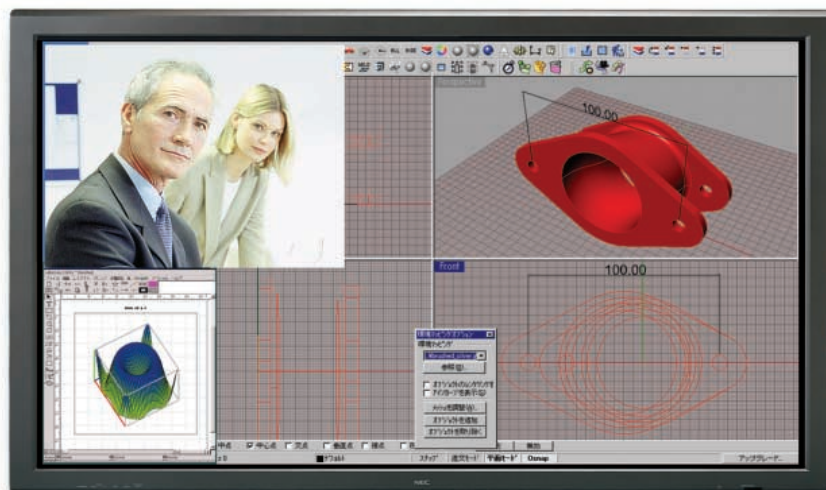
- IR Remote ID Function **NEW**
- Monitor ID Function
- Multi-Screen Repeat Timer
- Power Management
- Power On Mode
- Capability for bundling PC boxes
- External control with RS232C
- Remote Self Diagnosis via RS232C
- Long life panel of 60,000 hours

*60,000 hour panel life is an approximate time for the display panel to reach half of its original brightness. The panel life is based on motion video as the input source and all display settings at factory default. The time given does not imply any warranty beyond the products standard warranty.

FUNCTIONS

Enhanced Split Screen*2

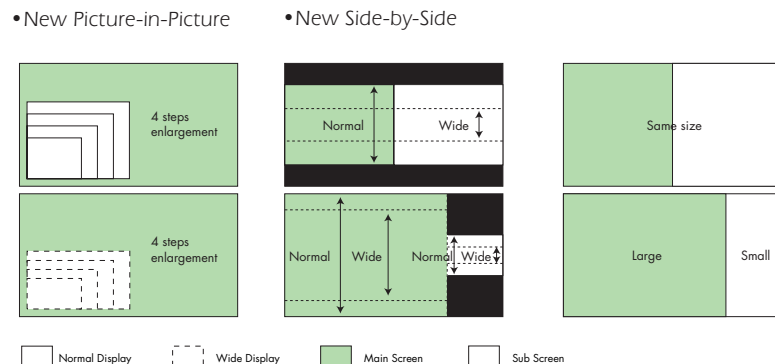
*2 Applied in PX-61XM4, PX-50XM5 and PX-42XM4



Available in two screen modes—Picture-in-Picture and Side-by-Side

Since input signals from any system can be displayed together, provide appealing visual expressions by combining images from two personal computers or the images from a PC and video signals. Two screen modes – Picture-in-Picture and Side-by-Side – are available and both have several display methods. **Enhanced Split Screen** has new functions for efficient use in business and educational presentations ; informational and advertising displays for transport facilities, financial institutions, and commercial facilities ; and remote video conference systems.

A full range of new functions for a variety of business needs



Side-By-Side Function

Side-By-Side Screen Mode for electronic advertisements and informational displays

The side-by-side screen mode demonstrates its ability to deliver an appealing display of information by evolving two different images, such as " text + image ", on the screen at the same time. Three aspect ratio patterns can be selected for optimum screen display with the simple operation of a cursor key on the remote control unit. In addition, one screen can display scrolling text while the other screen maintains a 4:3 display ratio when the monitor is installed vertically. Depending on the use or purpose, expand the variety of content expressions through combinations of images and text or time varying images and text data. Propose new applications as information displays in restaurants or hotels and advertisement displays in stores or showrooms.



You can choose one of three patterns for the horizontal aspect ratio.

Digital Zoom Function enlarges both the main and sub screens up to 900%

In the side-by-side screen mode, both screens can enlarge images up to 900% by 63 points in 64 steps. With **Enhanced Digital AccuDevice**, very high-definition quality can be maintained even when the image is enlarged. Information with extremely high visibility can be displayed. Comparison studies during presentations can be made by enlarging each screen and changing the position of the enlarged images with a cursor key. (*For the picture-in-picture screen mode, only the main screen can enlarge images.)



Picture-In-Picture Function

Variable Sub Picture Transparency **NEW**

This tool can be used in a variety of applications when both the sub picture and main picture are being used at the same time. It allows the user to select the transparency level of the sub picture, dependent on the most appropriate level compared with the images being displayed on the main picture. Anything from 100% to 20% can be selected, with adjustment steps of 10%.



Sub Picture Fade In/Out **NEW**

This tool enables the user to select whether the sub picture appears immediately or whether it will gradually fade in/ out of the main picture, this will be entirely dependent on the specific requirements for the slide show, presentation, etc.

Sub Picture Detect Function

This function automatically turns off the display of the sub screen if input signals for the sub screen are interrupted and restores it automatically when signals for the sub screen are input again. This is effective for the picture-in-picture screen mode. Since it is not necessary to turn both screens on/off, control of the two screens is simplified, so you can concentrate on the presentation or lecture.



Picture Freeze Function

Store a page of data displayed on the main screen on the clipboard memory and display the page on the sub screen. When scrolling several images continuously during a presentation, this function effectively compares the two images displayed separately. (* This is available in the side-by-side screen mode as well.)



Seamless Switch Function

Seamless Switch Function allows switching two selected signals very quickly.

Text Ticker Function **NEW**

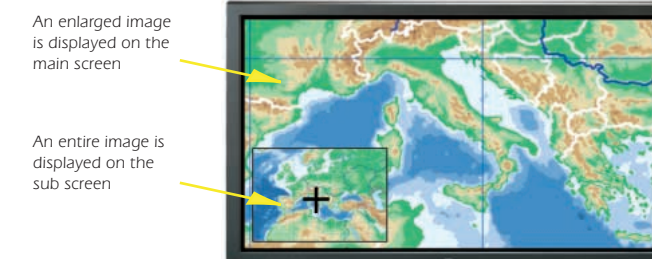
This function superimposes text on images by using PC applications. This useful tool, which also incorporates the adjustable transparency of the text ticker function (100% to 20%), allows text to be displayed in one quarter of the vertical height by one horizontal length sections.

Selectable from 4 screen positions



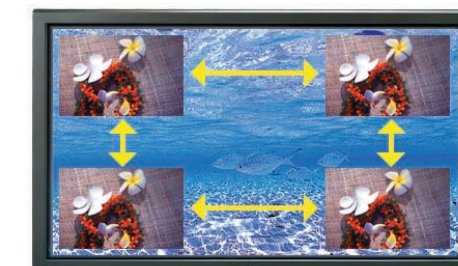
Zoom Navigation Function

Display an entire image on the sub screen, and display the enlargement on the main screen. The position enlarged in the main screen is indicated with a + symbol on the sub screen. This function is effective for enlarging an important point or a detailed drawing of a map or CAD data then confirming the entire image and the point being enlarged. (* This is available in the side-by-side screen mode as well.)



Sub Screen Moving Function

Sub Screen can be moved into any one of four positions on the new PlasmaSync 61XM4 and 50XM5. Important information on the main screen may be hidden by the sub screen on an ordinary monitor. Since the sub screen can be moved more flexibly on the new monitor, important information on the main screen is always displayed.



The sub screen moves to any one of four positions on the display.

