



PlasmaSync Range



42VM5 / 42VP5 / 42VR5

42" Wide VGA Multimedia Display

42XM3 / 42XR3

42" XGA Multimedia Display



50XM4 / 50XR4

50" Wide XGA Multimedia Display



61XM3 / 61XR3

61" Wide XGA Multimedia Display



OPTION



PlasmaSync



PX-42VM5 / PX-42VP5 / PX-42XM3



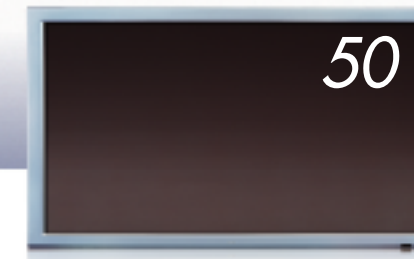
PX-50XM4



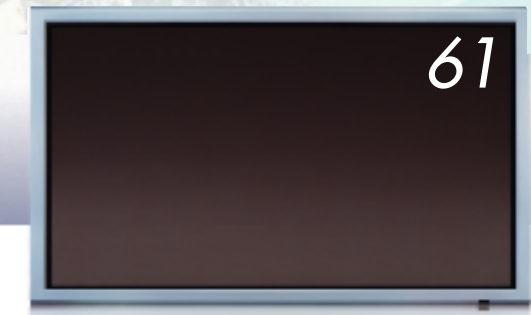
PX-61XM3



PX-42VR5 / PX-42XR3



PX-50XR4



PX-61XR3



The New PlasmaSync integrates the most advanced technologies into 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 highest colour expression in the industry with 4,096 steps, which is equivalent to 68.7 billion colours. NEC's unique signal processing circuit Digital AccuDevice and the CCF (Capsulated Colour Filter) method reproduce vivid colours and pure white as well as accurate data. Various functions for professionals, such as the Enhanced Split Screen function applied in the 61-inch and 50-inch monitors, and the enhanced Multi Screen function, introduced in all models, will exhibit its superior performance on various occasions, including conferences and presentations in offices or educational sites, electronic advertising displays and data displays in transport facilities, banks, security trading, and shops etc.

Fully digitized high-quality images

All image signals are fully digitized using NEC's unique new signal-processing circuit, 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 Mass Area Superior Sampling Technology renders smooth image expression without jagged edges and colour bleeding. Furthermore, the new Scan Converter dramatically improves character readability.

The highest capability for colour expression in the industry with 4,096 steps equivalent to 68.7 billion colours

The "Gamma-12" technology for precisely expressing details in dimly lit places achieves the highest colour expression in the industry with 4096 gradation steps, which is equivalent to 68.7 billion colours. With this rich, smooth gradation expression, images in dimly lit rooms can be reproduced with accuracy. (As of July 2004)

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.

The highest ranking in the industry for contrast ratio in bright conditions

The new plasma display panel features the PX-50XM4 and PX-42XM3 monitors. They achieve the industry's highest contrast ratio of 200:1 for bright conditions. High brightness is achieved in the practical imaging range and reduces power consumption. (As of July 2004)

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. The double screen function is provided in the 50-inch and 61-inch monitors for efficient support of your presentations.

Long life panel

A panel lifetime of 60,000 hours has been achieved for all models.

Fully digitized high-quality images elude all attempts

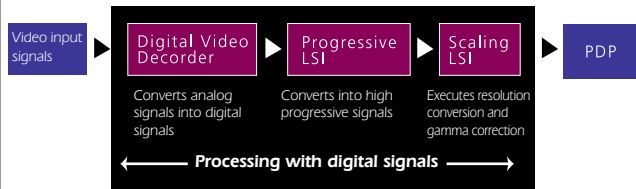
In pursuit of greater beauty

Digital AccuDevice, the unique signal-processing circuit developed by NEC



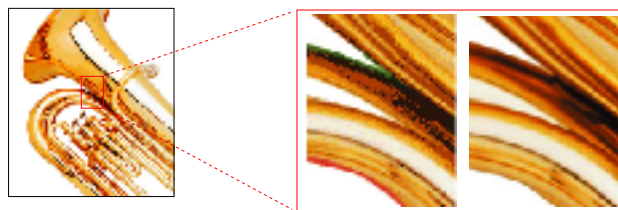
Digital AccuDevice generates advanced vividness using a fully digitized signal-processing circuit. LSIs packaged on the circuit are integrated into three circuits to achieve the full digital sampling of all input signals without any omissions. Furthermore, all processing steps for video input signals are fully digitized. Since there is no analog conversion process involved and original video images can be processed digitally as they are, there is no deterioration of the signal, and the high-definition progressive expression and clear resolution conversion suppress noise and produce breathtaking images.

The introduction of new LSIs permit the fully digitized processing of video input signals



Mass Area Superior Sampling Technology achieves high-definition progressive expression

All input signals are displayed using progressive expression. In ordinary processing, interlaced signals are converted into progressive signals, and the sampling of interpolation lines are processed on the basis of brightness signals. With the newly developed Mass Area Superior Sampling Technology, color signals are sampled and interpolated together with the brightness signals. The new technology produces sharp expression without jagged edges or colour bleeding.



Ordinary expression PlasmaSync

Vivid, breathtaking colours

Insatiable desire for vivid colour reproduction

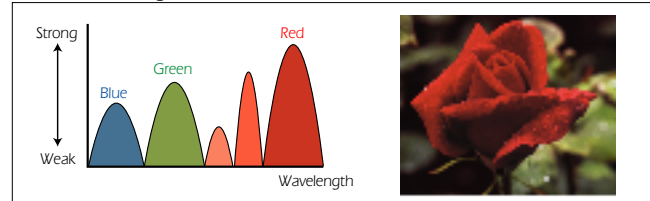
The highest contrast ratio in the industry at 200:1 under bright conditions

PX-50XM4 and PX-42XM3 achieve the highest contrast ratio in bright conditions in the industry, as a result of efforts to pursue higher visibility under bright lights or in sunlight. Obtain vivid, sharp video images regardless of the environmental conditions of the locations. (As of July 2004)

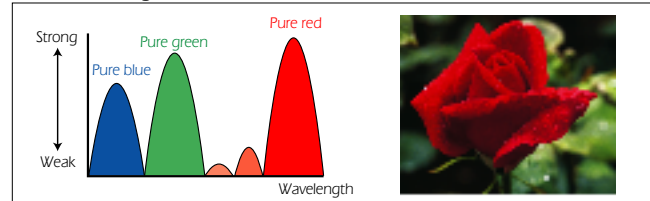
AccuCrimson reproduces accurate red colour

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.

Before introducing AccuCrimson

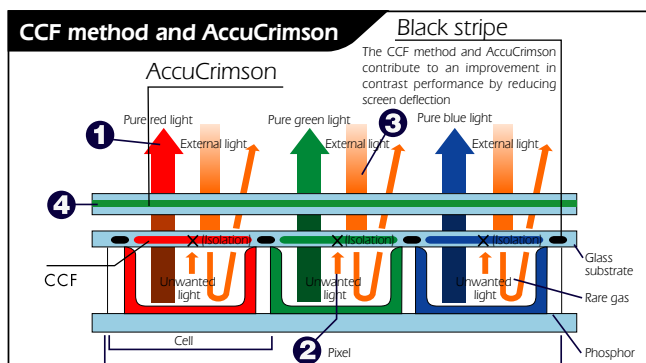


After introducing AccuCrimson®



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

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.



1 Optimized colour spectrum of phosphor

The CCF improves the purity of colors by filtering the three primary colors (RGB).

2 Removal of unwanted light

The CCF removes the orange color, particular to plasma displays, emitted by neon gas.

3 Reduced screen deflection

The CCF and the black stripes reduce screen deflection to produce a high contrast ratio under bright conditions.

4 Optimized red color

The CCF suppresses the wavelength of the orange colour included in red to reproduce a pure red color.

The highest capability for colour expression in the industry with 4,096 steps equivalent to 68.7 billion colours

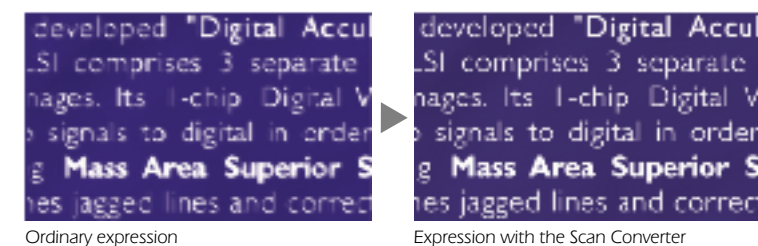
By introducing Gamma-12, rich and smooth expressions with 4,096 steps - the highest number in the industry - are achieved in the respective colours of R, G, and B to provide the industry's highest capability for color expression equivalent to 68.7 billion colours in the dark portion. The expression reproduces accurate, more faithful details. (As of July 2004)

4 kinds of gamma correction modes



The newly designed Scan Converter dramatically improves character readability

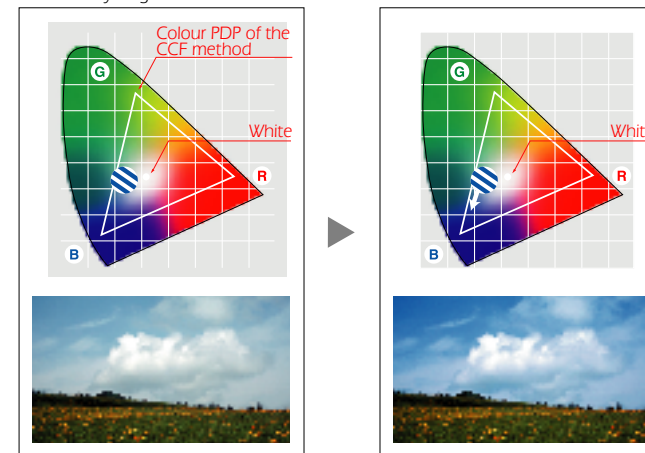
The Scan Converter converts input signals in accordance with the resolution of the display. Since sampling accuracy for the interpolation of data has been improved by approximately 4 times, and its conversion accuracy has also been improved by approximately 4 times (compared to NEC's ordinary products), small characters can also be displayed uniformly with a dramatic improvement in readability. With the digital zooming function, enlarged characters will not bleed or become fuzzy.



The Colour Tuning function adjusts specific colours

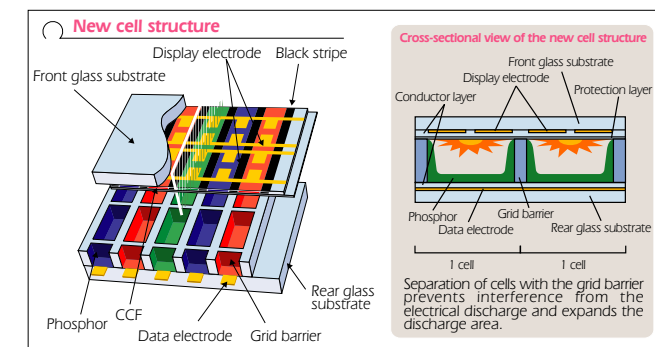
The Colour Tuning function adjusts specific colours, such as red, blue, or green, individually without influencing the white balance. Since the white balance remains stable, specific colours can be adjusted depending on the video source or the purpose of use. For instance, deepen the blue colour of the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

Chromaticity diagram



The new module is employed for high brightness and low power consumption

The plasma display expresses colours with the following mechanism. Certain voltage is applied to rare gas sealed on the inside and then the phosphors are irradiated with the UV generated at that time. In the new module, the phosphors are improved and the gas composition rate is reviewed to drastically improve its luminous efficiency. Since a new cell structure is employed where the grid barrier between the cells prevents interference from the electrical discharge, and a new electrode structure expands the effective discharge area, low power consumption, high brightness, high contrast, and a long lifetime are achieved at the same

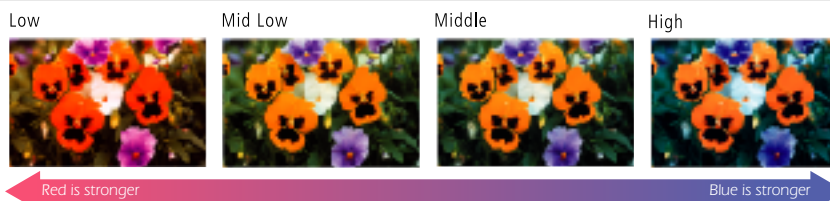


Long life panel

A panel lifetime of 60,000 hours has been achieved for all models. *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.

Four kinds of Colour temperature setting modes are available

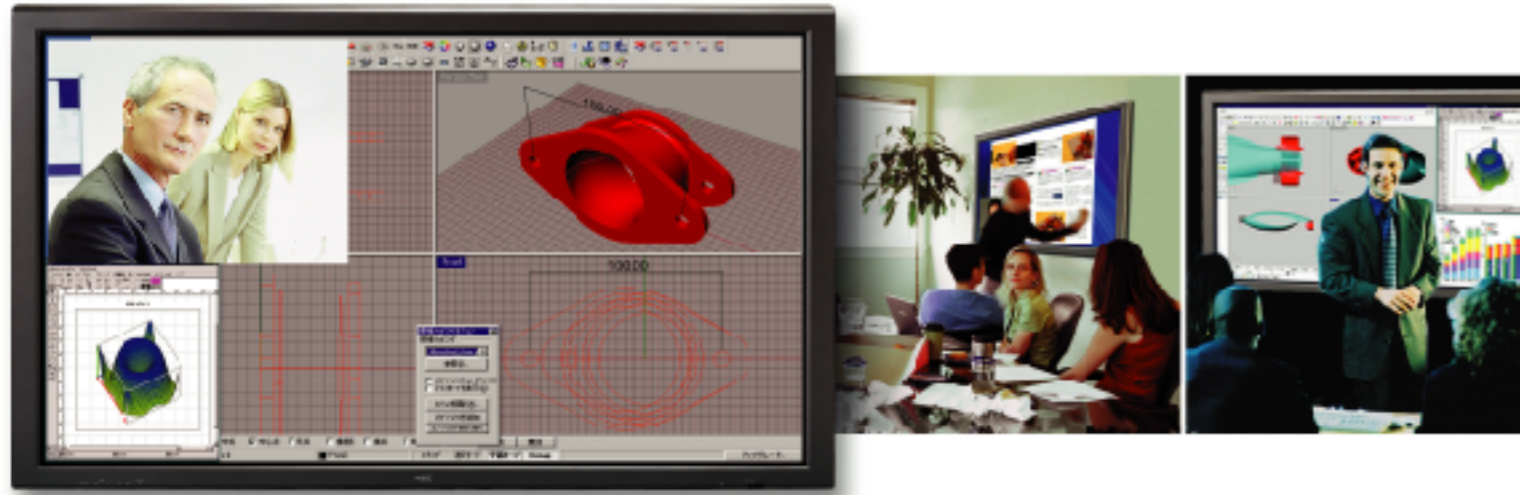
The colour temperature setting adjusts the tone of the white colour. Four preset modes and a professional mode for advanced adjustments are provided for setting the colour temperature according to the purpose or preference.



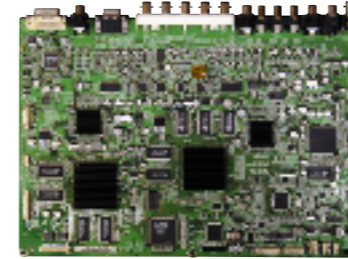


Enhanced Split Screen materializes appealing presentations*1

*1 Applied in PX-61XM3, PX-61XR3, PX-50XM4 and PX-50XR4



Two Digital AccuDevice systems deliver accurate, high quality images on both the main and sub screens



The signal processing circuit, Digital AccuDevice, achieves Full Digital Sampling without thinning out the input signals and fully digitizes every process for processing image input signals. The new 61-inch PlasmaSyncR PX-61XM3 and the new 50-inch PlasmaSyncR PX-50XM4 are equipped with two Digital AccuDevice. Clear, progressive high-definition images, in which signal deterioration and noise are suppressed, are displayed on both the main and sub screens by fully digitizing the original visual images without converting them into analogue signals. Furthermore, since the 61-inch wide monitor is one of the largest in the industry, images on the sub screen are easy to see. The advanced new PlasmaSync 61XM3 and 50XM4 feature high quality images and variegated functions and supports image evolutions for presentations and video conferences, where detailed information must be displayed, and electronic advertising systems, where vivid visual images are required.

•High quality images are available on both the main and sub screens by employing two Digital AccuDevice systems



Ordinary image



New PlasmaSync

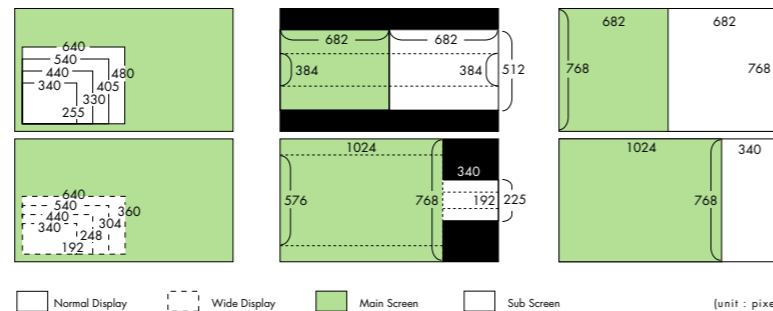
Available in two screen modes—Picture-in-Picture and Side-by-Side

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 videoconference systems.

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

•New Picture-in-Picture

•New Side-by-Side



Picture-In-Picture Function

SUB PICTURE DETECT Function turns the sub screen on/off automatically

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.



When input signals for the sub screen are interrupted, the display will shift to the single screen mode.

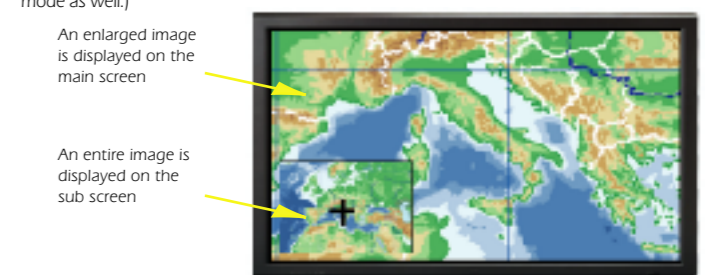


When signals for the sub screen are input again, the sub screen is restored.

ZOOM NAVIGATION Function indicates the area being enlarged

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 only for analogue RGB input. * This is available in the side-by-side screen mode as well.)



An enlarged image is displayed on the main screen

An entire image is displayed on the sub screen

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. In the new 61-inch PlasmaSync PX-61XM3 and the new 50-inch PlasmaSync PX-50XM4, this function is improved further, so that 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.

(*Please note that the vertical display needs to arrange the content vertically.)



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 two Digital AccuDevice systems, 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 FREEZE Function displays a still image on the sub screen

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 only for analogue RGB input. * This is available in the side-by-side screen mode as well.)

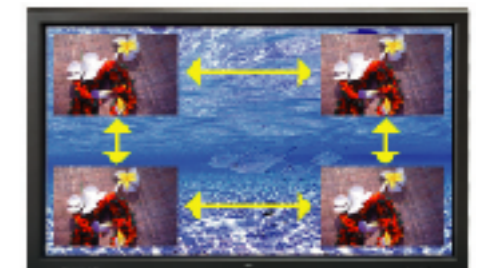


1st screen (previous image)

2nd screen (current image)

Sub Screen Moving Function moves the sub screen to any one of four positions

Although the sub screen can be moved into two display positions on an ordinary plasma monitor, it can be moved into any one of four positions on the new PlasmaSync 61XM3 and 50XM4. 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.

SEAMLESS SWITCH Function instantly switches two input signals

An ordinary plasma monitor needs time to switch screens due to input signal processing. Because two signal processing circuits are employed in the new PlasmaSync 61XM3 and 50XM4, the speed for switching input signals has been dramatically improved. For instance, the monitor instantly processes the insertion of a CM image, information from video signals, or a signboard displaying information from video signals or PC signals, as well as immediately switching between a stadium score display (PC signals) and a video camera image display (video signals) or a reciprocal display between data and relayed images in a monitoring system. (It is not possible to switch input signals among video inputs.)

*2 Applied in PX-61XM3, PX-50XM4, PX-42XM3, PX-42VM5 and PX-42VP5

Programmable timer function*2

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 multi-screen system.

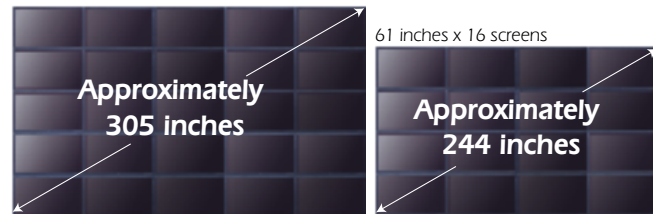


A multi-screen system can be configured with a maximum of 25 screens*2

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.

61 inches x 25 screens



Automatic ID function*2

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*2

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*2

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



Screen Orbiter function 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: Picture shift, 5: Screen wiper, 6: Soft focus) to prevent this phenomenon. Implement the appropriate measures depending on the occasion. (Occurrence of this phenomenon is out of the scope of the guarantee.)

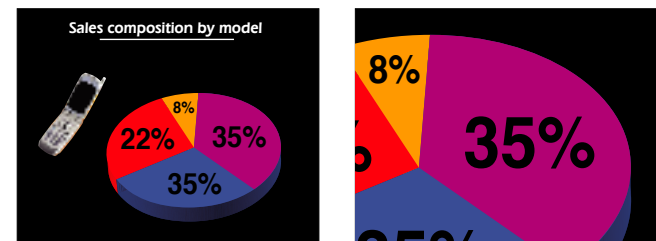
PLE Lock function with three modes is available

In order to reduce power consumption, the PLE function decreases peak brightness when the screen displays large areas of white color. In order to improve the contrast ratio, it increases peak brightness when displaying large areas of black colour. The PLE Lock function offers three modes with different brightness levels for choosing optimum brightness, reducing unnecessary power consumption, or activating the screen orbiter function.



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.



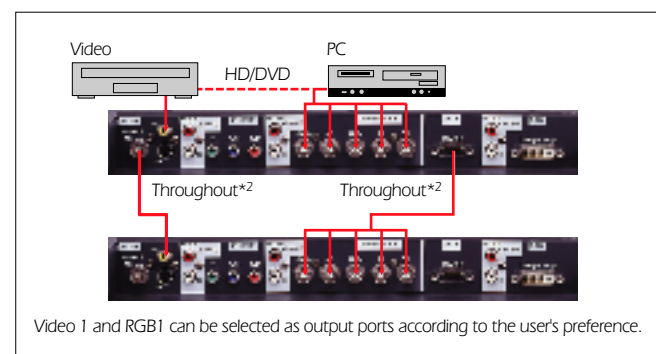
Vertical Installations*2

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. The monitor is designed for future expandability, where the BOXPC can be installed on the rear panel of the monitor.



Video 1 and RGB1 can be selected as output ports according to the user's preference.

PlasmaSync Multimedia Display Accessories

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 50XM4 to tilt forward 0 to 10° and the 61XM3 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 50XM4 to tilt forward 0 to 10° and the 61XM3 to tilt forward 0 to 5°.

Stand (PX-ST1U) / (PX-ST1U/S) Silver

For free standing installations.

Stand (PX-61ST1U) / (PX-61ST1U/S) Silver

For free standing installations.

Attachable Speakers (PX-42SP1U) / (PX-42SP1U/S) Silver

10-watt speakers, stand-alone or attach to the monitor.

Attachable Speakers (PX-50SP1U) / (PX-50SP1U/S) Silver

20-watt speakers, stand-alone or attach to the monitor.

Attachable Speakers (PX-61SP1U) / (PX-61SP1U/S) Silver

20-watt speakers, stand-alone or attach to the monitor.

Pole Unit (PX-42M3U-P)

Allows multiple monitors to be mounted on a pole unit (made to order).

Attachments to this allow for vertical and horizontal mounting; Vertical Mount Unit (PX-42M3U-P-V); Horizontal Pole Mount Unit (PX-42M3U-P-H).

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.

Vertical Wall Mount Unit (PX-42VP1U-VW)

For installing in portrait position

Slant Stand (PX-42VP1U-PS)

Set the screen horizontally on the floor at an angle of 70°. Or used vertically at 70° (Made to Order).

Slant Stand (PX-50VP1U-PS)

Set the screen horizontally on the floor at an angle of 70°. Or used vertically at 70° (Made to Order).



PX-W2U

PX-W3U

PX-C2U

PX-C3U



PX-T2U

PX-T3U

PX-ST1U

PX-ST1U/S



PX-61ST1U

PX-61ST1U/S

PX-42SP1U

PX-42SP1U/S



PX-50SP1U

PX-50SP1U/S

PX-61SP1U

PX-61SP1U/S



PX-42M3U-P

PX-42VP1U-MW
PX-42VP1U-MW-S

PX-CV2U



PX-42VP1U-VW

PX-42VP1U-PS

PX-50VP1U-PS

Table of Signals supported

Model	Dots x lines	Vertical frequency (Hz)	Horizontal frequency (kHz)	NORMAL	TRUE	FULL	DVI	
								Model
IBM PC(AT ⁷⁾ compatible computers	640x400	70.1	31.5	YES ^(*)	YES	YES	NO	
		59.9	31.5	YES	YES	YES	YES	
		72.8	37.9	YES	YES	YES	YES	
		75.0	37.5	YES	YES	YES	YES	
		85.0	43.3	YES	YES	YES	YES	
		100.4	51.1	YES	YES	YES	YES	
	800x600	848x480	60.0	31.0	--	YES	YES	YES
			60.0	31.7	--	YES	YES	YES
			56.3	35.2	YES	YES	YES	YES
			60.3	37.9	YES	YES	YES	YES
			72.2	48.1	YES	YES	YES	YES
			75.0	46.9	YES	YES	YES	YES
		1024x768	60.0	48.4	YES ^(*)	--	YES	YES
			70.1	56.5	YES ^(*)	--	YES	YES
			75.0	60.0	YES ^(*)	--	YES	YES
			85.0	68.7	YES ^(*)	--	YES	YES
			100.6	80.5	YES ^(*)	--	YES	YES
			1152x864	75.0	67.5	YES	--	YES
	1280x768	1280x800 ^(*)	56.2	45.1	--	--	YES	NO
			59.8	48.0	--	--	YES	YES
			69.8 ^(*)	56.0 ^(*)	--	--	YES	YES
			60.0	49.7	--	--	YES	YES
			60.0	53.1	--	--	YES	YES
			60.0	47.7	--	--	YES ^(*)	NO
1360x768		60.0	47.7	--	--	YES ^(*)	NO	
		59.9	48.3	--	--	YES	NO	
		60.0	64.0	YES ^(*)	--	YES	YES	
		75.0	80.0	YES ^(*)	--	YES	YES	
		85.0	91.1	YES ^(*)	--	YES	YES	
		100.1	108.5	YES ^(*)	--	YES	NO	
1680x1050 ^(*)	1600x1200	60.0	65.3	--	--	YES	YES	
		60.0	75.0	YES	--	YES	YES	
		65.0	81.3	YES	--	YES	NO	
		70.0	87.5	YES	--	YES	NO	
		75.0	93.8	YES	--	YES	NO	
		85.0	106.3	YES	--	YES	NO	
	1920x1200 ^(*)	60.0	74.6	--	--	YES	NO	
		60.0	74.0	--	--	YES	YES	

Model	Dots x lines	Vertical frequency (Hz)	Horizontal frequency (kHz)	NORMAL	FULL	DVI	
							Model
IBM PC(AT ⁷⁾ compatible computers	640x400	70.1	31.5	YES ^(*)	YES	NO	
		59.9	31.5	YES ^(*)	YES	YES	
		72.8	37.9	YES ^(*)	YES	YES	
		75.0	37.5	YES ^(*)	YES	YES	
		85.0	43.3	YES ^(*)	YES	YES	
		100.4	51.1	YES ^(*)	YES	YES	
	800x600	848x480	60.0	31.0	--	YES ^(*)	YES
			60.0	31.7	--	YES ^(*)	YES
			56.3	35.2	YES	YES	YES
			60.3	37.9	YES	YES	YES
			72.2	48.1	YES	YES	YES
			75.0	46.9	YES	YES	YES
		1024x768	60.0	48.4	YES	YES ^(*)	YES
			70.1	56.5	YES	YES ^(*)	YES
			75.0	60.0	YES	YES ^(*)	YES
			85.0	68.7	YES	YES ^(*)	YES
			100.6	80.5	YES	YES ^(*)	YES
			1152x864	75.0	67.5	YES	YES
	1280x768	1280x800 ^(*)	56.2	45.1	--	YES	NO
			59.8	48.0	--	YES	YES
			69.8 ^(*)	56.0 ^(*)	--	YES	YES
			60.0	49.7	--	YES	YES
			60.0	53.1	--	YES	YES
			60.0	47.7	--	YES	NO
1360x768		60.0	47.7	--	YES	NO	
		59.9	48.3	--	YES	NO	
		60.0	64.0	YES ^(*)	YES	YES	
		75.0	80.0	YES ^(*)	YES	YES	
		85.0	91.1	YES ^(*)	YES	YES	
		100.1	108.5	YES ^(*)	YES	NO	
1680x1050 ^(*)	1600x1200	60.0	65.3	--	YES	YES	
		60.0	75.0	YES	YES	YES	
		65.0	81.3	YES	YES	NO	
		70.0	87.5	YES	YES	NO	
		75.0	93.8	YES	YES	NO	
		85.0	106.3	YES	YES	NO	
	1920x1200 ^(*)	60.0	74.6	--	YES	NO	
		60.0	74.0	--	YES	YES	

*1 Only when using a graphic accelerator board that is capable of displaying 852 X 480.
 *2 This signal is converted to a 1024 dots X 640 lines signal.
 *3 The picture is displayed in the original resolution.
 *4 Aspect ratio is 5:4. This signal is converted to a 960 dots X 768 lines signal.
 *5 To connect the Macintosh computer, use the monitor adapter [D-Sub 15-pin] to your computer's video port.
 *6 Other screen modes [ZOOM and STADIUM] are available as well.
 *7 When viewing a moving picture at a vertical frequency greater than 65Hz, the picture may sometimes be unstable (jumpy).
 If this occurs, please set the refresh rate of external equipment to 60Hz.
 To view 480i@60Hz (480 interlaced lines, 60Hz refresh rate) or 576i@50Hz (576 interlaced lines, 50Hz refresh rate) when sync polarity is "Sync on Green", set "RGB SELECT" to "MOTION".
 *8 CVT standard compliant.

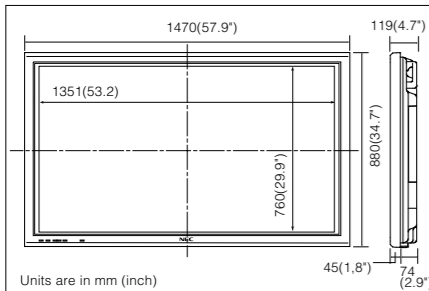
*1 Only when using a graphic accelerator board that is capable of displaying 852 X 480.
 *2 PX-42XM3: This signal is converted to a 768 dots X 640 lines signal. PX-42VM5: This signal is converted to a 640 dots X 400 lines signal.
 *3 PX-42VM5: The picture is displayed in the original resolution. The picture will be compressed for other signals.
 *4 PX-42XM3: The picture is displayed in the original resolution. The picture will be compressed for other signals.
 *5 PX-42VM5: Aspect ratio is 5:4. This signal is converted to a 600 dots X 480 lines signal.
 *6 PX-42XM3: Aspect ratio is 5:4. This signal is converted to a 720 dots X 768 lines signal.
 *7 To connect the Macintosh computer, use the monitor adapter [D-Sub 15-pin] to your computer's video port.
 *8 Other screen modes [ZOOM and STADIUM] are available as well.
 *9 When viewing a moving picture at a vertical frequency greater than 65Hz, the picture may sometimes be unstable (jumpy).
 If this occurs, please set the refresh rate of external equipment to 60Hz.
 To view 480i@60Hz (480 interlaced lines, 60Hz refresh rate) or 576i@50Hz (576 interlaced lines, 50Hz refresh rate) when sync polarity is "Sync on Green", set "RGB SELECT" to "MOTION".
 *9 CVT standard compliant.

NOTE:
 • While the input signals comply with the resolution listed in the table above, you may have to adjust the position and size of the picture or the fine picture because of errors in synchronization of your computer.
 • When a 1280 dots X 1024 lines signal or 1600 dots X 1200 lines signal is input to the monitor, the picture will be compressed.
 • The sync may be disturbed when a nonstandard signal other than the aforementioned is input.
 • PX-61XM3 / PX-50XM4: This monitor has a resolution of 1365 dots X 768 lines. It is recommended that the input signal should be XGA, wide XGA, or equivalent.
 • PX-42XM3: This monitor has a resolution of 1024 dots X 768 lines. It is recommended that the input signal should be XGA, or equivalent.
 • PX-42VM5: This monitor has a resolution of 853 dots X 480 lines. It is recommended that the input signal should be VGA, wide VGA, or equivalent.
 • With digital input, some signals are not accepted.
 • If you are connecting a composite signal, use the HD terminal.

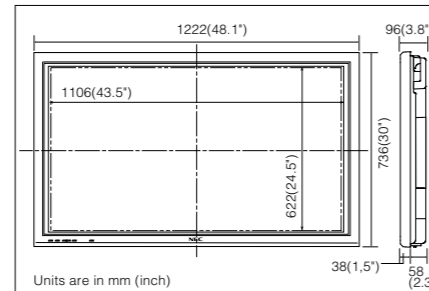
What is HDCP/HDCP technology?
 HDCP is an acronym for High-Bandwidth Digital Content Protection. High bandwidth Digital Content Protection (HDCP) is a system for preventing illegal copying of video data sent over a Digital Visual Interface(DVI).
 If you are unable to view material via the DVI input, this does not necessarily mean the DDP is not functioning properly. With the implementation of HDCP, there may be cases in which certain content is protected with HDCP and might not be displayed due to the decision/intention of the HDCP community(Digital Content Protection, LLC).

• IBM PC(AT) and "XGA" are registered trademarks of International Business Machines Corporation, Inc. of the United States.
 • Apple Macintosh is a registered trademark of Apple Computer, Inc. of the United States.

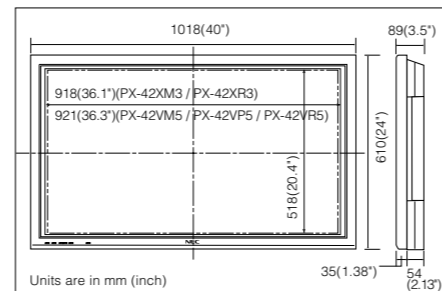
■PX-61XM3 / PX-61XR3



■PX-50XM4 / PX-50XR4



■PX-42XM3 / PX-42XR3 / PX-42VM5 / PX-42VP5 / PX-42VR5



Specifications

Model	Dots x lines	Vertical frequency (Hz)	Horizontal frequency (kHz)	NORMAL	FULL	DVI	
							Model
IBM PC(AT ⁷⁾ compatible computers	640x400	70.1	31.5	YES ^(*)	YES	NO	
		59.9	31.5	YES ^(*)	YES	YES	
		72.8	37.9	YES ^(*)	YES	YES	
		75.0	37.5	YES ^(*)	YES	YES	
		85.0	43.3	YES ^(*)	YES	YES	
		100.4	51.1	YES ^(*)	YES	YES	
	800x600	848x480	60.0	31.0	--	YES ^(*)	YES
			60.0	31.7	--	YES ^(*)	YES
			56.3	35.2	YES	YES	YES
			60.3	37.9	YES	YES	YES
			72.2	48.1	YES	YES	YES
			75.0	46.9	YES	YES	YES
		1024x768	60.0	48.4	YES	YES ^(*)	YES
			70.1	56.5	YES	YES ^(*)	YES
			75.0	60.0	YES	YES ^(*)	YES
			85.0	68.7	YES	YES ^(*)	YES
			100.6	80.5	YES	YES ^(*)	YES
			1152x864	75.0	67.5	YES	YES
	1280x768	1280x800 ^(*)	56.2	45.1	--	YES	NO
			59.8	48.0	--	YES	YES
			69.8 ^(*)	56.0 ^(*)	--	YES	YES
			60.0	49.7	--	YES	YES
			60.0	53.1	--	YES	YES
			60.0	47.7	--	YES	NO
1360x768		60.0	47.7	--	YES	NO	
		59.9	48.3	--	YES	NO	
		60.0	64.0	YES ^(*)	YES	YES	
		75.0	80.0	YES ^(*)	YES	YES	
		85.0	91.1	YES ^(*)	YES	YES	
		100.1	108.5	YES ^(*)	YES	NO	
1680x1050 ^(*)	1600x1200	60.0	65.3	--	YES	YES	
		60.0	75.0	YES	YES	YES	
		65.0	81.3	YES	YES	NO	
		70.0	87.5	YES	YES	NO	
		75.0	93.8	YES	YES	NO	
		85.0	106.3	YES	YES	NO	
	1920x1200 ^(*)	60.0	74.6	--	YES	NO	
		60.0	74.0	--	YES	YES	

*1 HD/DVD/DTV input signals supported on this system
 480i(60Hz) 480i(60Hz)
 525P(60Hz) 525P(60Hz)
 576P(60Hz) 576P(60Hz)
 625P(50Hz) 625P(50Hz)
 720P(60Hz) 1035i(60Hz)
 1080i(60Hz) 1080i(60Hz)
 *2 Applied in PX-61XM3/PX-50XM4/PX-42XM3/PX-42VM5/PX-42VP5
 *3 The 5-BNC connectors are used as RGB/PC2 and HD/DVD2 input.
 *4 Compatible with HDCP.
 Supported Signal
 • 640x480P @59.94/60Hz
 • 1280x720P @59.94/60Hz
 • 1920x1080i @59.94/60Hz
 • 720x576P @50Hz
 • 1440x720x480 @59.94/60Hz
 Note: In some cases a signal on the plasma monitor may not be displayed properly. The problem may be an inconsistency with standards from the source equipment (DVD, Set-top box, etc...). If you do experience such a problem please contact your dealer and also the manufacturer of the source equipment.
 *5 The features and specifications may be subject to change without notice.

PlasmaSync and OSM are trademarks of NEC Corporation. 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 August 2004. Specifications may change without notice.



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