

clarity
is more than a
state of mind

PlasmaSync® 42XM2, PlasmaSync 50XM3
and PlasmaSync 61XM2



it's a state of being.

Achieving ultimate clarity connects you to realistic colors and refined details. Understanding the technology within, seamlessly delivers your content into its truest form giving you absolute freedom of expression.

Empowered by Innovation

NEC



Strong contrast and
brightness performance

Capsulated Color Filter™

AccuCrimson Filter

MASS AccuDevice

Advanced video signal
processing

Advanced AccuBlend™

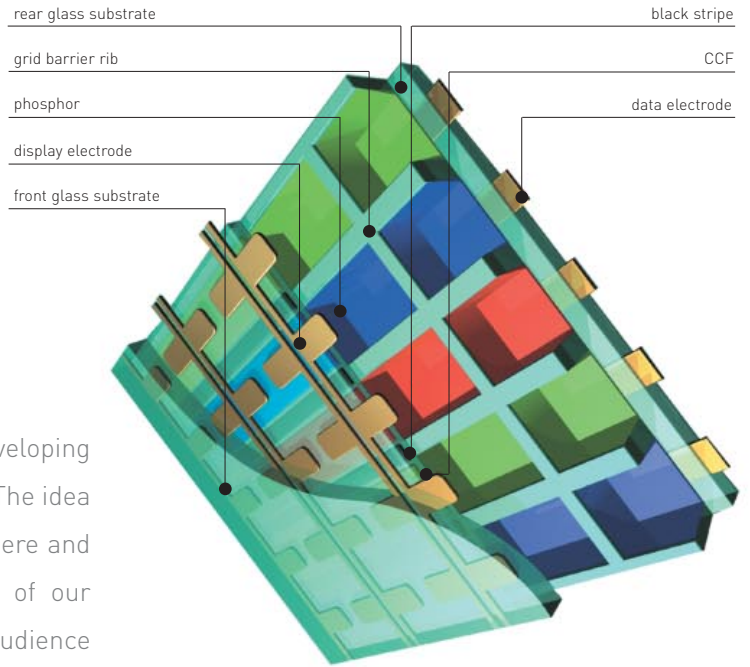
AccuShield™ Phosphor
Protection

achieving absolute

clarity.

looking within.

Unique Cell Structure. Deep within the PlasmaSync 42XM2, 50XM3 and 61XM2 there is a unique cell structure. Color is created by voltage being applied to electrodes above and below the cells which are coated in red, green or blue phosphors. The emission of light that is discharged from these cells increases the luminance but decreases the power consumption. The results are vivid colors and unimaginal clarity.

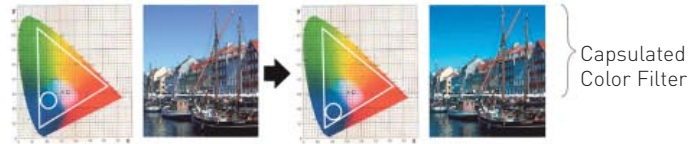


NEC followed the path to perfection in developing its plasma professional grade monitors. The idea that your visuals can be displayed anywhere and at any time is the center of our technology. You and your audience will truly experience perfection.

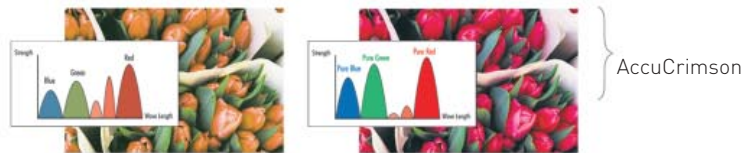
the idea.

achieving absolute clarity.

NEC's advanced plasma panel technology produces stunning images in a Wide XGA native panel resolution of 1365x768 (1024x768 42XM2). Our exclusive Capsulated Color Filter Technology provides extremely realistic and saturated colors as well as enhanced contrast. Color realism is enhanced by AccuCrimson, a filter technology that produces the purest shade of red possible in a plasma display.



The PlasmaSync XGA models deliver superb image quality from any source. NEC's Advanced AccuBlend scan conversion provides precise interpolation of computer-based information from VGA to UXGA in both 16:9 and 4:3 aspect ratios. This enables the monitor to display clear, readable images even in non-native resolutions. In addition, motion-compensated 3D scan conversion provides smooth, lifelike display of video sources and a 3-2 pull down converter enhances the appearance of content originally produced in 24 frame/second film.



Go even further to achieve ultimate color using our Color Tune Technology. It is now possible to adjust individual colors without affecting the white balance. Fine tune the blues in skies or the greens in the trees.

enlightening your business needs.

While you understand your business and how your ideas need to be perfectly reproduced, you depend on the experts to bring your presentations to light. Enlightenment means knowing that the best way to display these ideas is to trust a company that understands your needs. NEC's commitment to absolute quality, reproduction and service is unsurpassed. The PlasmaSync Multimedia monitors offer outstanding picture quality, high resolution support, computer, video and HDTV source compatibility for conference room presentations, broadcast production, home theater entertainment and other multimedia applications.

a smooth path. _____

Mass Area Sampling (MASS) delivers high quality images and allows smooth reproduction for clear, precise color. MASS also eliminates jagged lines and corrects color bleeds to create clear and defined images. Finally, proper scaling is selected for the input signal resolution resulting in the most accurate image reproduction possible.

MASS
Mass Area
Superior
Sampling



original normal MASS

a fine balance. _____

Control even the darkest of images using the **Gamma-12** feature. With over 4,000 shades of gray you can manage the picture's brightness and enhance the image's overall quality.

selectable
gamma
settings



brighter ← details of a dark scene → darker

Color Temperature controls the tone of the whites in the image. Four preset modes are available which select a specific color temperature. If finer adjustments are needed simply switch into the professional mode for more advanced tuning.

convert your image. _____

The new **Scan Converter** changes input signals in accordance with the resolution of the display. This makes a dramatic difference resulting in even the smallest of characters being perfectly legible.

scan
converter



with scan conversion without scan conversion

shielding to protect. _____

With **AccuShield** your screen stays protected from image retention with the most comprehensive set of built-in modes including programmable Orbiter, Inverse RGB, All-White, Pixel Refresh, Brightness Limiter and Soft Focus.

AccuShield
Phosphor
Protection

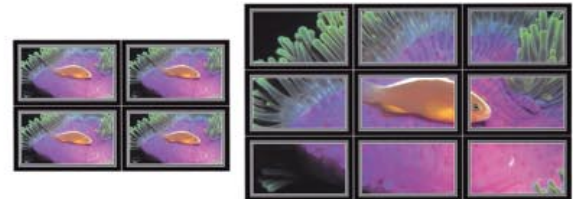


AccuShield enhanced with pixel refresh mode

advanced configuration. _____

NEC has built in many professional grade functions such as the **Advanced Timer** that can carry out various operations at designated times. Operations include powering on/off, input selection and activating long life modes. These features enable the monitor to virtually operate itself.

2x2 or 3x3
monitor
configurations



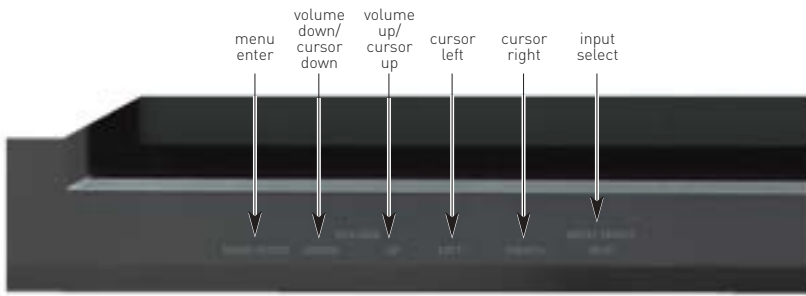
Built in **image matrixing** is possible in two configurations resulting in a 2x2 or 3x3 video wall. Internal processing allows the video to be split into quadrants eliminating the need for external matrix equipment.



PlasmaSync 61XM2

PlasmaSync 50XM3

PlasmaSync 42XM2



All monitor functions are controlled either from the remote or front bezel.

making your connection.

Connect to multiple sources from video to HD to RGB. Signal loop-out capability allows a source to easily be looped from one monitor to the next allowing you to connect 4 displays without the use of an external DA*.

zoom in.

Digital Zoom allows you to select any portion of the screen and magnify it to emphasize a point or highlight information. Zoom in up to 300% with push button ease from the remote control to make your point!

convenient and sleek.

With a new cabinet design we have minimized the bezel size to make sure that the focus is on the image and not the frame around the image.

The new cabinet design also allows for a small form PC to be attached solving the problem of source equipment location.

quiet operation.

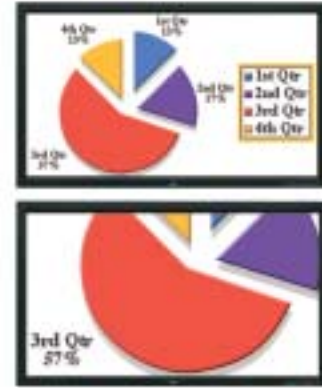
Engineered with silence as a priority these units produce a noise level of only 22dB, these XGA models perform quietly in any environment.

external control and self diagnostics.

A complete set of **RS232 commands** allow monitor functions to be operated remotely via serial communications. In addition, operating problems can be identified and communicated via RS232 or front bezel LED lights through its self diagnostics system.

suite your style.

Depending on your needs, you can display in either portrait or landscape orientation.



Position the cursor anywhere on the screen and magnify it up to 3 times in 64 steps for smooth transitions



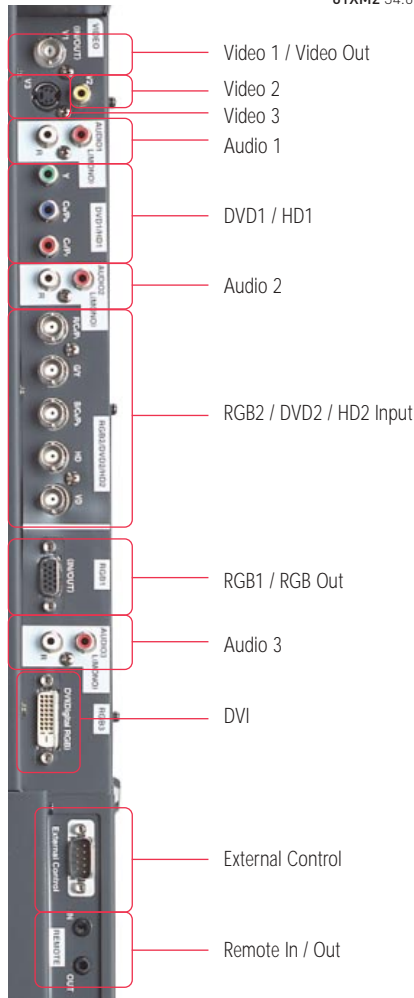
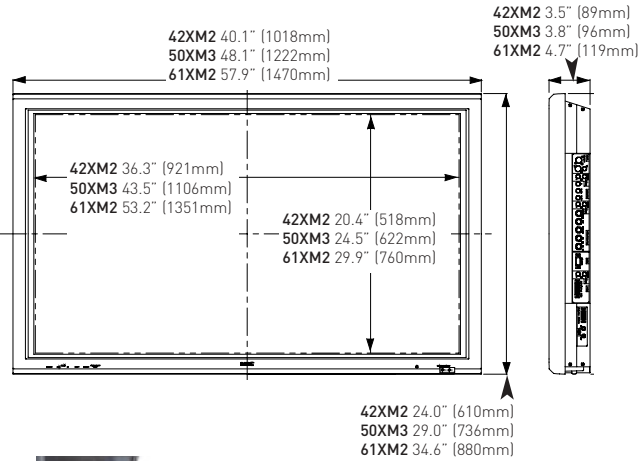
portrait and landscape monitor positioning



Our advanced menu system allows for precise color and image matching for a consistent image.

*Signal DA is required for sending a signal to more than 4 monitors simultaneously.

PlasmaSync 42XM2, PlasmaSync 50XM3 and PlasmaSync 61XM2



Specifications

Model Number	PX-61XM2A PX-50XM3A PX-42XM2A	Diagonal Screen Size 61" Diagonal Screen Size 50" Diagonal Screen Size 42"
Screen Aspect Ratio	16 to 9	
Active Screen Area	61XM2 50XM3 42XM2	53.2 in x 29.9 in/1351 mm x 760 mm 43.5 in x 24.5 in, 1106 mm x 622 mm 36.3 in x 20.4 in, 921mm x 518 mm
Native Pixel Resolution	61XM2/50XM3 42XM2	1365 x 768 1024 x 768
Pixel Pitch	61XM2 50XM3 42XM2	0.99mm x 0.99mm 0.81mm x 0.81mm 0.897mm x 0.675mm
Capsulated Color Filter	Yes	
Accurimion	Yes	
Front Filter Type	AR - Anti reflection	
Color Processing	(4096 steps) 68.7 billion colors	
Viewing Angle	160 degrees	
Horizontal Frequency Range	15.5 to 110.0 kHz auto, step scan	
Vertical Frequency Range	50 to 120 Hz auto, step scan	
PC Signal Compatibility	VGA 640x480 @ 60, 72, 75, 85, 100, 120 Hz SVGA 800x600 @ 56, 60, 72, 75, 85, 100, 120 Hz XGA 1024x768 @ 60, 70, 75, 85, 100 Hz SXGA 1280x1024 @ 60, 75, 85, 100 Hz UXGA 1600x1200 @ 60, 65, 70, 75, 85 Hz WideVGA 848x480, 852 x 480 @ 60 Hz WideXGA 1360 x 765 @ 60 Hz, 1280 x 768 @ 60Hz	
Macintosh Compatibility	640x480, 832x624, 1024x768, 1152x870	
Video Signal Compatibility	PAL, SECAM, 3.58/4.43 NTSC	
HD Video Signal Compatibility	480p 480i, 525p, 525i, 540p, 625p, 625i, 720p, 1035i, 1080i	
Input Terminals	RGB 1 (analog) 15-pin mini D-sub (common use with RGB out, selectable) RGB 2 (analog) 5 BNC (RGB/HV) (common use with 5BNC Y/Pb/Pr input, selectable) RGB 3 (digital) 25-pin DVI (digital only) Video 1 Composite BNC x 1 (common use with Video out, selectable) Video 2 Composite RCA x 1 Video 3 S-Video 4-Pin DIN HD Video 1 1 set RCA Component (Y,Pb,Pr/Y,Cb,Cr) HD Video 2 1 set BNC Component (Y,Pb,Pr/Y,Cb,Cr) (common use with 5BNC Y/Pb/Pr input,selectable)	
Audio	61XM2/50XM3 42XM2	Internal amplifier, 9W x 2 output power Internal amplifier, 8W x 2 output power
External Control	9-pin mini D-Sub, RS232	
User Controls	Direct Access Remote Control OSM Option 1 Option 2 Option 3	Power on/off, input selection, volume up/down, OSM access Power on/off, input select, volume, mute, wide, display, off-timer, OSM control, cursor, pointer, zoom, auto, select Picture - Contrast, brightness, sharpness, color, tint, color temperature, white balance, picture mode, noise reduction, gamma, low tone and color tune Audio - bass, treble, balance and audio input Image Adjust - aspect ratio mode, vertical position, horizontal position, vertical height, horizontal width, fine picture, picture adjust, auto picture OSM on/off, BNC Input, D-sub Input, RGB select, HD select, Input Skip, All Reset Pwr. Management, Cinema Mode, Long Life Mode, Gray Level Timer, Pwr. On mode, Control Lock, IR Remote, Loop Out, ID Number Video Wall Advanced OSM, Language, Color System, Source Information
Plug & Play	DDC1, DDC2B (RGB3 is DDC2B only)	
Power Requirements	120V 50/60 Hz	
Power Consumption	61XM2 50XM3 42XM2	540W Typical, 6.7 Amp Maximum 480W Typical, 6.4 Amp Maximum 350W Typical, 4.6 Amp Maximum
Standby Power	0.9W	
Dimensions (WxHxD) without base	61XM2 50XM3 42XM2	1470 x 880 x 119 mm, 57.9 x 34.6 x 4.7 inches 1222 x 736 x 96mm, 48.1 x 29.0 x 3.8 inches 1018 x 610 x 89mm, 40.1 x 24.0 x 3.5 inches
Weight	61XM2 50XM3 42XM2	61.0 kg, 134.2 lbs. (without tabletop stand) 43.8 kg, 96.4 lbs. (without tabletop stand) 29.5 kg, 65.0 lbs. (without tabletop stand)
Environmental Considerations	Operating Temperature Operating Humidity Operating Altitude Storage Temperature Storage Humidity Storage Altitude	32 - 104 degrees F (0 - 40 degrees C) 20 - 80% 0 - 9180 feet (0 - 2800m) 14 - 122 degrees F (-10 - 50 degrees C) 10 - 90% 0 to 9840 feet (0 - 3000m)
Warranty	1 Year Parts & Labor Standard	
Regulatory	FCC Class A, UL1950, CSA950	
Included Accessories	AC Power Cord, User Manual, Remote Control, Batteries, Cable Clamps	
Optional Accessories	61" Tabletop Stand 61" Attachable Speakers 61" Fixed Wall Mount 61" Tilt Wall Mount 61" Ceiling Mount 50" and 42" Tabletop Stand 50" Attachable Speakers 50" and 42" Fixed Wall Mount 50" and 42" Tilt Wall Mount 50" and 42" Ceiling Mount 50" and 42" Fixed Wall Mount for PC 50" and 42" Tilt Wall Mount for PC 50" and 42" Ceiling Mount for PC 42" Attachable Speakers Input Terminal Cover 42" Stand Plug	PX-61ST1U PX-61SP1U 61FWMK 61TWMK 61CMK PX-ST1U PX-50SP1U FWMK TWMK CMK FWMKPC TWMKPC CMKPC PX-42SP1U PX-CV1U PX-PL1U

Service and Support

The PlasmaSync series is supported by NEC's industry leading service and support programs. It comes with a standard 1-year manufacturer's warranty plus an extended warranty option that provides two additional years of coverage and is available from your authorized NEC Visual Systems Division dealer.

For more information, call **(800) NEC-INFO** or visit **www.necvisualsystems.com**

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