

# PlasmaSync™ Professional Series

42", 50" & 60" large-screen plasma displays ideal for corporate environments and video-intensive digital signage

Whether your need is to communicate, educate or motivate, NEC delivers with eye-catching, dynamic plasma displays. Loaded with NEC's patented technologies, the PlasmaSync Professional Series provides outstanding images, a rich feature set designed for professional applications, ease of installation and use, and unrivaled reliability for your peace of mind.

## OUTSTANDING IMAGES EVERY TIME

- **High-definition display** reproduces brilliant colors, perfect whites and deeper blacks; sharpens text for easy reading; and optimizes contrast for viewing various content in any lighting condition
- **Enhanced Motion Adaptive 3D Scan Conversion** provides optimized interpolation of moving video for a near 3-D experience
- **Advanced AccuBlend™** scales non-native resolutions to the native resolution of the display without sacrificing image quality
- **Color Tune technology** allows for adjustment of individual colors without affecting white balance
- **Underscan Mode** allows the complete image to be seen on the screen. In general, video signals are overscanned.
- **Dynamic gamma correction** provides luminance enhancement for a greater contrast ratio and improved viewing by program content and in non-optimal lighting conditions



## RICH IN FEATURES

- **TileMatrix™** allows you to build video walls (up to 25 displays in a 5x5 matrix) using the OSD, while **TileComp™** compensates for the bezel width to create a more seamless video wall
- **Enhanced picture-in-picture (PIP) and side-by-side** offer a variety of viewing configurations and options
- **Text ticker/insert function and closed captioning** increase your messaging options
- **Power-efficient, environmentally friendly design** leads to increased brightness and low power consumption
- **High altitude support (up to 3000m/9842 ft.)** widens possibilities for installation sites

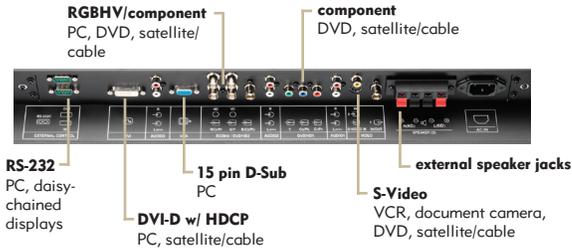
## EASE OF INSTALLATION AND USE

- **Complete RS-232 input and output control** allows remote interfacing for off-site management with the display, ensuring successful operation by monitoring the display and providing essential feedback to anticipate possible issues
- **Comprehensive input panel, including DVI with HDCP inputs**, delivers the latest in digital connectivity
- **Advanced timer function** schedules hours of operation and various content by switching from multiple inputs
- **Quiet fan** operates at less than 22dB during normal operation
- **AMX Café Duet® Protocol** enables a Plug and Play system between NEC plasma and AMX controller, allowing easier control system setup
- **IR remote ID select** allows displays placed in close proximity to one another to have different IR transmissions so only one unit is controlled at a time (26 ID w/10 key remote functionality)
- **VESA standard hole pattern** enables compatibility with universal mounts

## HIGH IN RELIABILITY

- **Intelligent temperature monitor** continuously checks the temperature of the plasma and, when needed, activates the fan, increasing air flow to cool the display. The temperature can further be decreased by adjusting the display settings. As a final precaution, the system can power down as a measure of protection.
- **AccuShield Phosphor Protection system** provides a comprehensive toolset to safeguard the display from possible image retention

## Specifications for 42XP10, 50XP10 & 60XP10



### UNIQUE FEATURES

|                                            |                                                                                                                                                                                                                                                                                                                                                |
|--------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Advanced AccuBlend™                        | Ensures detailed images when non-native resolution sources are connected to the plasma display.                                                                                                                                                                                                                                                |
| Phosphor Protection                        | A comprehensive set of 5 modes that protect the display from image retention.                                                                                                                                                                                                                                                                  |
| Color Tune                                 | Adjusts individual colors without affecting white balance.                                                                                                                                                                                                                                                                                     |
| Closed Captioning                          | Yes                                                                                                                                                                                                                                                                                                                                            |
| Video Tiling Capability                    | 2X2, 3X3, 4X4, 5X5, 1X2, 1X3, 1X4, 1X5, 2X1, 3X1, 4X1, 5X1                                                                                                                                                                                                                                                                                     |
| AMX Café Duet Protocol                     | Plug and Play system between NEC plasma display and AMX Controller, allowing easier control system setup.                                                                                                                                                                                                                                      |
| Dynamic Gamma Correction                   | Provides luminance enhancement to create a greater contrast ratio.                                                                                                                                                                                                                                                                             |
| Luminance Management                       | New addition to NEC industry-leading phosphor protection. Provides auto detection of static images and lowers the brightness to prevent image retention.                                                                                                                                                                                       |
| Timer Function                             | Programmable timer for virtual self-running operation. The programmable timer has been upgraded for ease of use along with additional control to provide 10 separate timer functions.                                                                                                                                                          |
| Enhancement of Text Ticker/Insert Function | Text insert allowing text from another source (i.e. – PowerPoint) to be inserted over a portion of the active source. In landscape mode there are three text insert sizes at the top or bottom of the image. Additional features are a portrait mode setting, left and right mode, along with a sub-picture detect function for "TEXT insert". |
| Underscan Mode                             | In general, video signals are over-scanned. When using an HTPC running a widescreen resolution (i.e. 720p) 5% of the image would be missing. Selecting the Aspect Ratio "Underscan" allows the complete image to be seen on the screen.                                                                                                        |

|                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                     |
|------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>PLASMA MODULE</b>                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Screen Size (Diagonal)                                                             | 42XP10 - 42"<br>50XP10 - 50"<br>60XP10 - 60"                                                                                                                                                                                                                                                                                                                                                                        |
| Screen Aspect Ratio                                                                | 16:9                                                                                                                                                                                                                                                                                                                                                                                                                |
| Active Screen Area (WxH)                                                           | 42XP10 - 36.3 x 20.4 in. / 921.5 x 519mm<br>50XP10 - 43.5 x 24.5 in. / 1104.9 x 622.3mm<br>60XP10 - 52 x 29.2 in. / 1320.8 x 741.68mm                                                                                                                                                                                                                                                                               |
| Native Resolution                                                                  | 42XP10 - XGA 1024 x 768<br>50XP10 - WXGA 1366 x 768<br>60XP10 - WXGA 1366 x 768                                                                                                                                                                                                                                                                                                                                     |
| Pixel Pitch                                                                        | 42XP10 - 0.9 / 0.676mm<br>50XP10 - 0.81mm square<br>60XP10 - 0.966mm square                                                                                                                                                                                                                                                                                                                                         |
| Contrast Ratio                                                                     | 42XP10/50XP10 - 15,000:1<br>60XP10 - 10,000:1                                                                                                                                                                                                                                                                                                                                                                       |
| Color Processing                                                                   | 1.07 billion colors, 1024 levels                                                                                                                                                                                                                                                                                                                                                                                    |
| Viewing Angle                                                                      | 180°                                                                                                                                                                                                                                                                                                                                                                                                                |
| Half life                                                                          | 50,000 hours                                                                                                                                                                                                                                                                                                                                                                                                        |
| Filter Type                                                                        | Anti-reflective                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>SIGNAL COMPATIBILITY/CONNECTIVITY</b>                                           |                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Scan Rate                                                                          | 31 - 108.5 kHz auto, step scan<br>50 - 120.4 Hz auto, step scan                                                                                                                                                                                                                                                                                                                                                     |
| Horizontal                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Vertical                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Supported Video Standards                                                          | 3.58/4.43 NTSC, PAL(B,G,N,M) and PAL 60, SECAM                                                                                                                                                                                                                                                                                                                                                                      |
| SD/HD Video Signal Compatibility                                                   | 480i, 480p, 525i, 525p, 540p, 576i, 625p, 720p, 1035i, 1080i, 1080p                                                                                                                                                                                                                                                                                                                                                 |
| PC Signal Compatibility                                                            | VGA, SVGA, XGA, SXGA, UXGA, WideVGA (848x480, 852x480), WideXGA (1366x768)                                                                                                                                                                                                                                                                                                                                          |
| Macintosh Compatibility                                                            | Yes                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Input/Output Terminals                                                             | 24-pin DVI-D HDCP (EIA/CEA-861-A) compatible<br>15-pin mini D-sub (common use with RGB out, selectable)<br>5 BNC (RGB/HV) (common use with 5BNC Y/Pb/Pr input, selectable)<br>Composite BNC x 1 (common use with Video out, selectable)<br>Composite RCA x 1<br>S-Video 4-Pin DIN<br>1 set RCA Component (Y,Pb,Pr/Y,Cb,Cr)<br>3 sets RCA stereo + external speaker jacks<br>Internal amplifier, 8W x 2 output power |
| RGB 1 (digital)                                                                    | Yes                                                                                                                                                                                                                                                                                                                                                                                                                 |
| RGB 2 (analog)                                                                     | Yes                                                                                                                                                                                                                                                                                                                                                                                                                 |
| RGB 3 (analog)                                                                     | Yes                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Video 1                                                                            | Yes                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Video 2                                                                            | Yes                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Video 3                                                                            | Yes                                                                                                                                                                                                                                                                                                                                                                                                                 |
| HD Video 1                                                                         | Yes                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Audio                                                                              | Yes                                                                                                                                                                                                                                                                                                                                                                                                                 |
| External Control                                                                   | Yes                                                                                                                                                                                                                                                                                                                                                                                                                 |
| RGB Loop-out                                                                       | Yes                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Video Loop-out                                                                     | Yes                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>ELECTRICAL</b>                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Power Requirements                                                                 | 120 - 240V 50/60 Hz                                                                                                                                                                                                                                                                                                                                                                                                 |
| Power Consumption (typical)                                                        | 42XP10 - 300W<br>50XP10 - 370W<br>60XP10 - 440W                                                                                                                                                                                                                                                                                                                                                                     |
| Standby Power                                                                      | < 1W                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>MECHANICAL</b>                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Dimensions (WxHxD)                                                                 | 42XP10 - 40.8 x 25.4 x 5 in. / 1036 x 644 x 127mm<br>50XP10 - 48.1 x 29.3 x 5 in. / 1221 x 743 x 127mm<br>60XP10 - 57 x 34.3 x 5 in. / 1447 x 871 x 127mm                                                                                                                                                                                                                                                           |
| Net Weight                                                                         | 42XP10 - 81.6 lbs. / 37 kg<br>50XP10 - 112.4 lbs. / 51 kg<br>60XP10 - 151 lbs. / 68.5 kg                                                                                                                                                                                                                                                                                                                            |
| Regulations                                                                        | UL/C-UL, VCCI (Class 2), PCT, C-tick, FCC Class B/Canadian Doc, CB Certificate (60950-1, 60065), RoHS, TUV-S, TUV GS, WEEE, Harmonic JIS C 61000-3-2, PSE, CE, DOC-B                                                                                                                                                                                                                                                |
| Fan Noise                                                                          | < 22dB                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>ENVIRONMENTAL</b>                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Operating Temperature                                                              | 32-104°F (0-40°C)                                                                                                                                                                                                                                                                                                                                                                                                   |
| Operating Humidity                                                                 | 20-80%                                                                                                                                                                                                                                                                                                                                                                                                              |
| Operating Altitude                                                                 | 0-3000m (0-9842 ft.)                                                                                                                                                                                                                                                                                                                                                                                                |
| Storage Temperature                                                                | 14-122°F (-10-50°C)                                                                                                                                                                                                                                                                                                                                                                                                 |
| Storage Humidity                                                                   | 10-90%                                                                                                                                                                                                                                                                                                                                                                                                              |
| Storage Altitude                                                                   | 42XP10 / 50XP10 - 0-3000m (0-9842 ft.)<br>60XP10 - 0-2900m (0-9510 ft.)                                                                                                                                                                                                                                                                                                                                             |
| <b>WARRANTY</b>                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 1 year parts and labor / 1 year plasma module                                      |                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>IN THE BOX</b>                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                     |
| AC power cord, user manual, startup guide, remote control, batteries, cable clamps |                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>ACCESSORIES</b>                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                     |
| SP-P42P1<br>ST-P42P1<br>ST-P60P1                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Speakers (42XP10 / 50XP10 / 60XP10)<br>Stand (42XP10 / 50XP10)<br>Stand (60XP10)   |                                                                                                                                                                                                                                                                                                                                                                                                                     |

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