

# 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

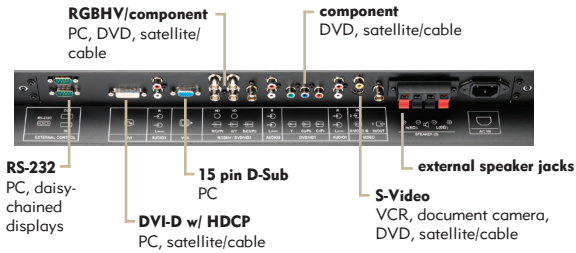
## EASE OF INSTALLATION AND USE

- **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" 50XP10 - 50" 60XP10 - 60"
Screen Aspect Ratio	16:9
Active Screen Area (WxH)	42XP10 - 36.3 x 20.4 in. / 921.5 x 519mm 50XP10 - 43.5 x 24.5 in. / 1104.9 x 622.3mm 60XP10 - 52 x 29.2 in. / 1320.8 x 741.68mm
Native Resolution	42XP10 - XGA 1024 x 768 50XP10 - WXGA 1366 x 768 60XP10 - WXGA 1366 x 768
Pixel Pitch	42XP10 - 0.9 / 0.676mm 50XP10 - 0.81mm square 60XP10 - 0.966mm square
Contrast Ratio	42XP10/50XP10 - 15,000:1 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 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 15-pin mini D-sub (common use with RGB out, selectable) 5 BNC (RGB/HV) (common use with 5BNC Y/Pb/Pr input, selectable) Composite BNC x 1 (common use with Video out, selectable) Composite RCA x 1 S-Video 4-Pin DIN 1 set RCA Component (Y,Pb,Pr/Y,Cb,Cr) 3 sets RCA stereo + external speaker jacks 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 50XP10 - 370W 60XP10 - 440W
Standby Power	< 1W
<b>MECHANICAL</b>	
Dimensions (WxHxD)	42XP10 - 40.8 x 25.4 x 5 in. / 1036 x 644 x 127mm 50XP10 - 48.1 x 29.3 x 5 in. / 1221 x 743 x 127mm 60XP10 - 57 x 34.3 x 5 in. / 1447 x 871 x 127mm
Net Weight	42XP10 - 81.6 lbs. / 37 kg 50XP10 - 112.4 lbs. / 51 kg 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.) 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 ST-P42P1 ST-P60P1	
Speakers (42XP10 / 50XP10 / 60XP10) Stand (42XP10 / 50XP10) Stand (60XP10)	

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### NEC Display Solutions

500 Park Boulevard, Suite 1100  
Itasca, IL 60143  
866-NEC-INFO

# NEC