

# NEC DISPLAY SOLUTIONS

## NEC PD Comms Tool

### ReadMe Information for Windows

Version 1.3.10 - Build 160531 - May 31 2016

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#### About NEC PD Comms Tool

The *NEC PD Comms Tool* is a utility for communicating with and configuring NEC large-format Public Displays that feature an RS232 and/or LAN interface.

Main features:

- When used together with the communications protocol specification document, available from the NEC Display Solutions website, it can be used to help understand the protocol encoding and decoding.
- Provides a quick and simple way to access many of the display controls remotely.
- It can be used as a test tool to quickly diagnose communications issues.
- Status information about the displays can be read, including the serial number, firmware version, internal temperatures, etc.
- IR Remote button commands can be sent via LAN or RS232, allowing access to the OSD (On Screen Display) features even if an IR receiver isn't connected.
- A simple but powerful scripting feature allows multiple controls to be configured on multiple displays with the click of a button. Multiple scripts can be loaded and run.

#### Release Notes

Direct TV Channel function

This function is only available on newer models with an integrated tuner (E322, E422, E462, and E552), and other models when the DTV unit is installed (for example: MultiSync P402, P462, V422, V462, V651, X461S, X551S, X551UN, and newer).

## Supported Operating Systems

This version of NEC PD Comms Tool is supported on 32 and 64 bit versions of Microsoft Windows: **XP / Server 2003 / Vista / 7 / 8 and 8.1 / 10**

Installing NEC PD Comms Tool requires an account with administrator privileges.

## Supported Display Monitors

NEC PD Comms Tool supports the following large screen display models:

- NEC P Series (P401, P461, P521, etc.)
- NEC X Series (X461UN, X461HB, X431BT, etc.) including UHD models such as the X841UHD
- NEC S Series (S401, S461, S521, etc.)
- NEC M Series (M401, M461, etc.)
- NEC Exx2 series (E322, E422, E462, E552, etc.) and newer including the Exx5 series
- NEC Multeos M40 and M46 [RS232 connection only]
- NEC MultiSync LCD20 Series (LCD4020, LCD4620 etc.) [RS232 connection only]
- Newer models not listed may also be supported

## Support and Troubleshooting

If you are having problems with NEC PD Comms Tool detecting the display monitor, please check the following items:

- Make sure the Monitor ID is set correctly on the display.
- Make sure the External Control option is set correctly on the display.
- Make sure each display has a unique Monitor ID if using RS232 daisy chaining.
- Make sure the IP address assigned to the display is unique, and can be reached from the current network subnet, if using LAN.
- Make sure a firewall software is not blocking network access to the application. LAN connections are using port 7142.

## Revision History

V1.01.07: January 7 2011

- Initial release

V1.01.08: February 7 2011

- Added reporting the first Monitor ID in the IP Scan feature.

V1.01.09: August 10 2011

- Added new script commands: SETASSETTAG, SAVESETTINGS and SETTVCHANNEL.
- Added new support for setting Asset Tag string.
- Added new OpCode Scanner function.
- Added new direct TV channel function.
- Updated to add new OpCode definitions.
- Improved support for using without a display connected.
- Improved error reporting in Communications log.
- Fixed a bug when using multiple FOREACHPORT commands within one script.
- Fixed a bug when setting the clock to a date which is a Sunday.
- Added new diagnostic code definitions.

V1.01.09 - Build 111012: October 12 2011

- Fixed Tile Matrix on/off problem on some display models.
- Improved application responsiveness.
- Fixed a bug reporting certain diagnostic codes.

V1.2.00: March 28 2012

- LAN MAC address is now shown in Status and IP Scan.
- Command used for "Test" function changed from Get Model Name to Get Parameter
- Added definitions for new video inputs (HDMI 2-3, USB etc.)
- Reloads all Tab settings when the Picture Mode, Video Input or Display List selection is changed.
- "Save All Settings" button now highlighted and a warning message shown when there are pending unsaved adjustments to a display.
- Added keyboard shortcuts to the IR Remote buttons (0-9, up, down, +, -, and Enter).
- Removed hidden restriction on enabling the Expert mode button.
- Script files are now stored in the All User's "My Documents\NEC Display Solutions\NEC PD Comms Tool\SampleScripts" folder to allow user modification.
- Monitor list files now default to being stored in "My Documents\NEC Display Solutions\NEC PD Comms Tool" folder.

V1.2.10: August 23 2012

- Added an option for increasing the LAN timeout for use with high latency LAN/WAN connections.
- Settings are now saved between sessions.

V1.2.20: September 27 2012

- Improved communications support for USB<>RS232 adapters.
- Fixed listing of Simple Commands for Temperature sensors 2 and 3.

V1.3.00: February 24 2015

- Redesigned layout
- Support for new commands and functions

- OpCode Control Names list is now available within the software rather than in the User's Guide.
- The main list of OpCode Control Names can be optionally grouped by category or listed alphabetically.

V1.3.10: May 31 2016

- Added new OpCode definitions.
- Listed OpCodes and values can now be filtered to only show those supported on the current display.
- Added Six Axis Color Trim controls to the Video & Color panel.
- Added a panel for setting the Monitor Group ID.
- Added a panel for advanced Tile Matrix related settings.
- Improved visual feedback of Tile Matrix settings controls.
- Added new IR Remote buttons used on X series UHD models.
- The Communications Log now shows a breakdown of the structure of an entire command and reply.
- Windows installer improved for Windows 10 compatibility.

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