

Installation Guide

● Overview

About overview and operating environment of Nii Ex Driver

● Installation

About Installation ~ test print, un-installation.

● Various Tool

About printer tools built-in NII Ex Driver

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Following signage are used in this guide. Please understand the meaning of each signage before the product.

 Note	Vital observance in use is described. In correct handling against this indication may cause breakdown or operation failure of the product.
 reference	Supplemental remarks and related matters are described.

Restrictions in use

Please use the product with attention to safety design of whole system by fail safety design Or redundant design to sustain reliability and safety of whole system in case of being used Applications which require for high reliability and safety in function and accuracy such as Equipments, disaster prevention and security device directly related to operation of airplane, train, vessel, auto-mobile etc.

This product is not designed for use of aerospace hardware, main communication equipment, atomic control device, medical instrument etc which require extremely higher Reliability and safety. Please make your decision upon user's enough acknowledgement To adequateness of this product in such applications.

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Introduction

NPI Ex Driver ,hereinafter referred to as" NExD" is Windows driver for POS printer of Nippon Primex Inc.

NExD can cotrol printer by NExD API for POS,KIOSK application.

Pre-configured NExD environment and printer can be restored to different computer.



This manual explains with screen of Windows XP.

Please use this manual by reading when in use of other OS.

Please refer to "NII EX Driver Installation Guide (Windows7)" for Windows 7 screen.

Operating Environment

OS :Supporting following operating systems.

- Microsoft Windows XP
- Microsoft Windows Vista
- Microsoft Windows 7
- Microsoft Windows 8

Computer: supporting a following computer enabling operation of the above-mentioned operating systems.

- **PC/AT Compatible**

Interface: supporting a following interface.

- **Serial**
- **USB 2.0 compliance**

(Full-Speed 12Mbps supported. No Operation under Hi-Speed)

Application: enable printing from Windows applications.

Enable printing without programming from applications of commercial word processor/spreadsheet.

Developing application with SDK enable acquisition of printer information when requested by application.

Restrictions of NExD is explained in this chapter.
Environment, OS configurattion.

1. In case of serial connection, "???" may be printed when recovered from Sleep or quiescent mode on start-up of OS.
2. Please use Windows XP/Vista on mode of [enable detail print function] of printer driver [detail setting] (EMF Spool configuration)
3. Operation is not guaranteed under multi-user environment of Windows XP.
4. Reserved name of resource.
NExD reserves a following each namespace.
Shared memory: Global¥SHMEM / <printer name> / monitor / status /
SHMEM / <printer name> / uni / devmode /
Each printer name is inserted in a part of "<printer name>" in this name.
5. In case multi-printer drivers are allocated to the same port, the accurate status is not acquired.
6. The driver set up is conducted by user entitled to administrator authority.
7. UPD(port:5200<default value>) is used for remote maintenance.
8. TCP(port:5201<default value>), UDP(port:5202<default value>) are used in case a common printer is used.
9. Status etc may not be acquired correctly in common printer use, depending on usage situation of network.
10. User switching is not supported in use of common printer.
11. The date may not exist in case the file is opened during output to log file in generated log file.
12. Paper size is not imported correctly when using a customized paper in importing control of printer configuration.
13. Following files under Windows¥system32 folder are not deleted by NEx_UnInstaller.exe under 64bit environment. Please manually stop spooler and delete before activating spooler. ※stop/activation of spooler is conducted by Print Spooler within a service.
 - NExLM.DLL
 - NExStDoc.EXE
 - NExStPrt.EXE
 - NExStPrt.EXE.manifest
 - NExL_RSV.EXE
14. In serial communication, if printer's power OFF/ON(including software reset) is repeated, it may be judged as OFF line tentatively.
15. There is a log function of IN/OUT to port, but it does not guarantee input/output.
16. As mode of color printing is set to other except monochrome, transmitting data to printer will be increased depending on size of color expression.
17. Some of configurable items in this driver may not be supported as printer.
18. It is necessary to reboot in order to enable change of remote maintenance Port/remote status Port.
※Function such as NiiGetStatus etc automatically switch as needed.
19. It is not corresponds to uninstall by "NEx_Uninstallwe.exe" in Windows7 or 64 bit OS.
21. When printer driver was deleted by NEx_UnInstaller.exe, After rebooting, it may become the condition that installed printer driver again. If this problem occurs, please delete the device from "devices and printers", and also delete the driver from server properties.
22. If you set driver for the second, third and after PC in Windows7, the setting driver become NP-211, so it needs to change the settings manually.
23. Please note that more than 255 of half size of character cannot be used when device font used.
24. Please restart PC before reinstalling this driver.
25. Unprintable beyond 1m with color printing.

Confirmation before installation

please prepare as follows before installation.

- if printer is connected.
- if printer is connected properly.
- preparation of file (please decompress if compressed.)

Installation procedure

In case of connecting USB

Please reboot system in following procedure and connect to printer.

- Please turn on power of PC.
- Please turn on power of printer after system rebooted completely.
- Please connect to PC after completion of rebooting printer.

Note

as rebooting system, if dialogue [wizard of detecting a new hardware] against other equipment is shown, please connect printer after completing installation of driver for that equipment.

- when printer newly connected, as dialogue [wizard of detecting a new hardware] is shown, please select [Install from view or specific location (details) (s)] and click on [Next (n)>] button.

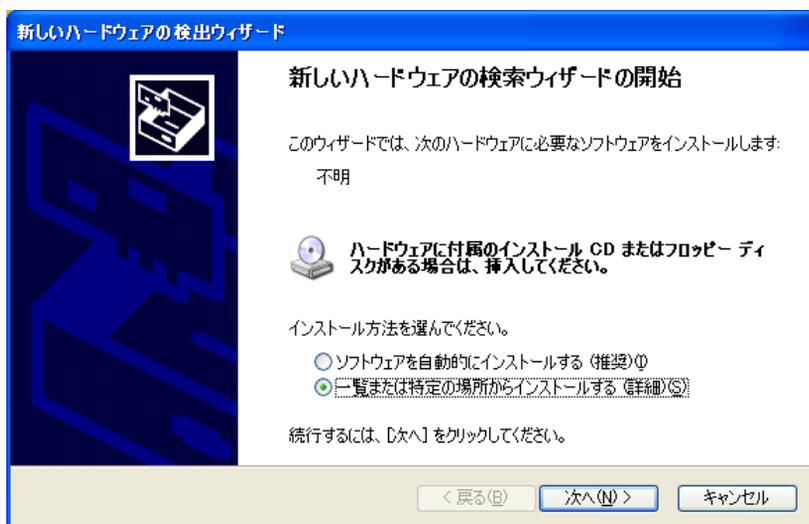


Fig.1 : Dialogue [Wizard of detecting a new hardware]

- Please select “include next location” and folder storing file of printer driver set up from reference (R) button, and then click on [Next (N)] button.

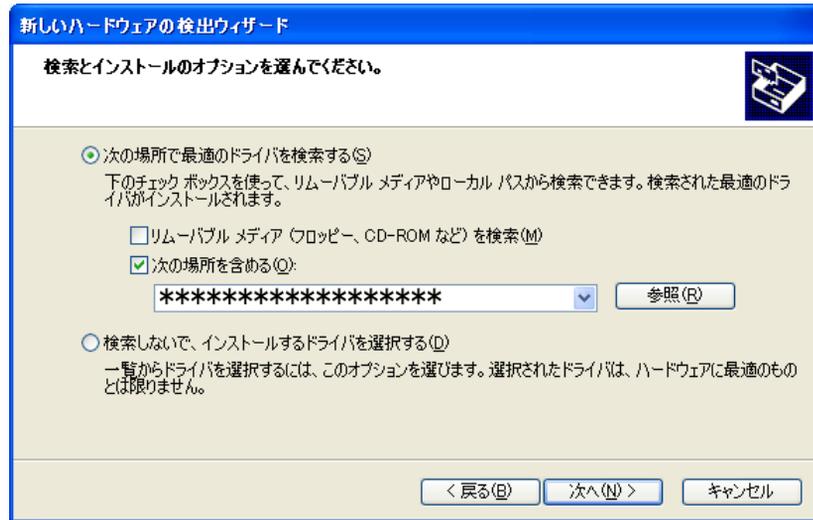


Fig 2 : Identification of driver file

- if a following dialogue is shown during installation, please click on [continue (c)] button to continue installing.

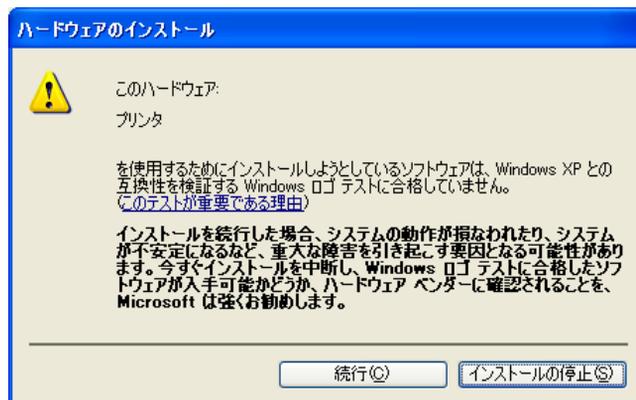


Fig 3 : Confirmation of Digital Signature

- Please click on [Complete] button.

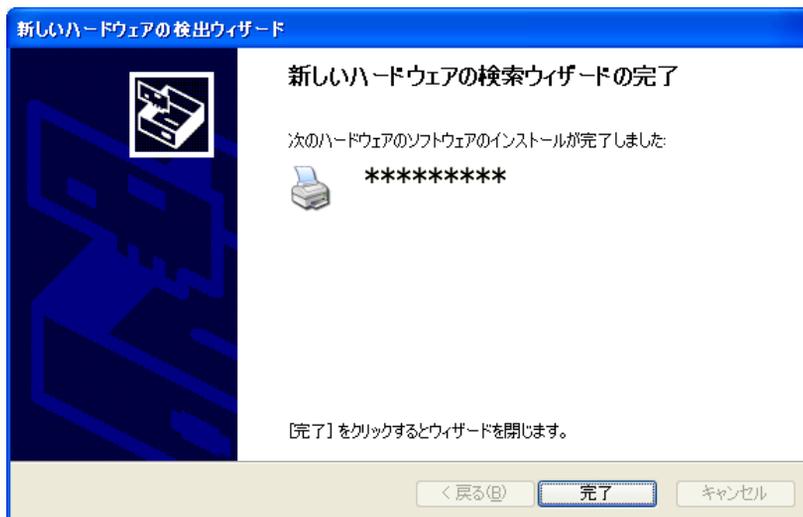


Fig 4 : Completion of Wizard of detecting a new hardware.

- when installation completed, icon of printer driver installed is shown in [Printer & Fax] window.

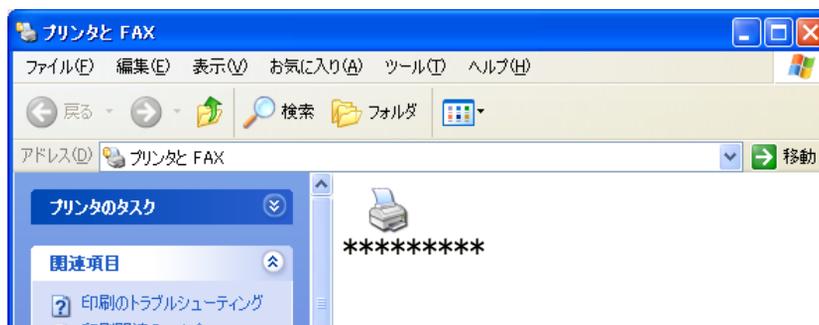


Fig 5 : [Printer & Fax] window after a driver added.

Installation Procedure

In case of serial (COM) connection

Note

notation of WindowsXP is described as set to categorized notation (default setting). In case classic indication is selected, please directly select that category.

- Click on [start] button to reboot [control panel (c)].
Click on [Printer & Other Hardware], and then click on [Printer & Fax] once window is switched.

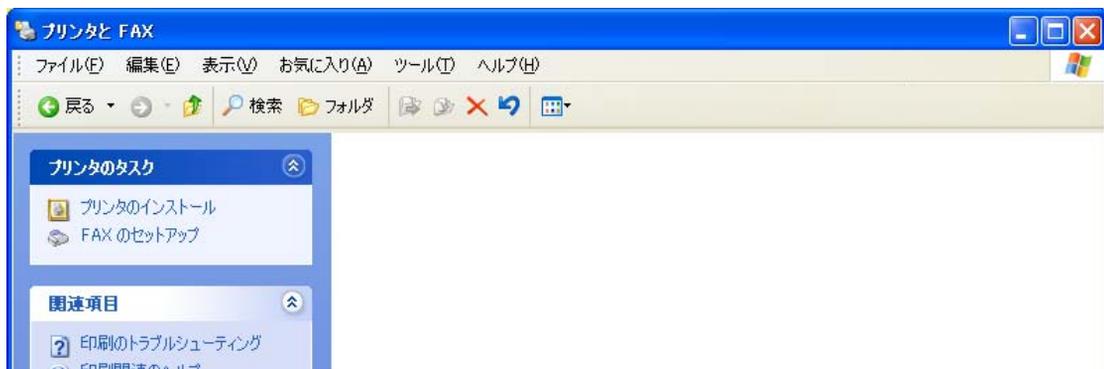


Fig 6 : [Printer & Fax] window

- Please click on [installation of printer]
- Please click on [Next (N)>] button.

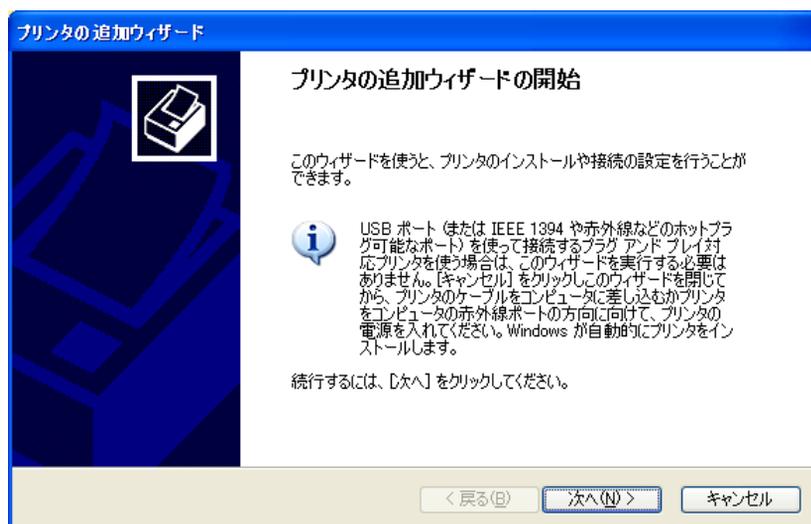


Fig 7 : Start of wizard of adding a printer.

•Please select [local printer (L)] and click on [next (N) >] button.

Note

[Install by auto-detecting plug & play printer (A)] is not available.

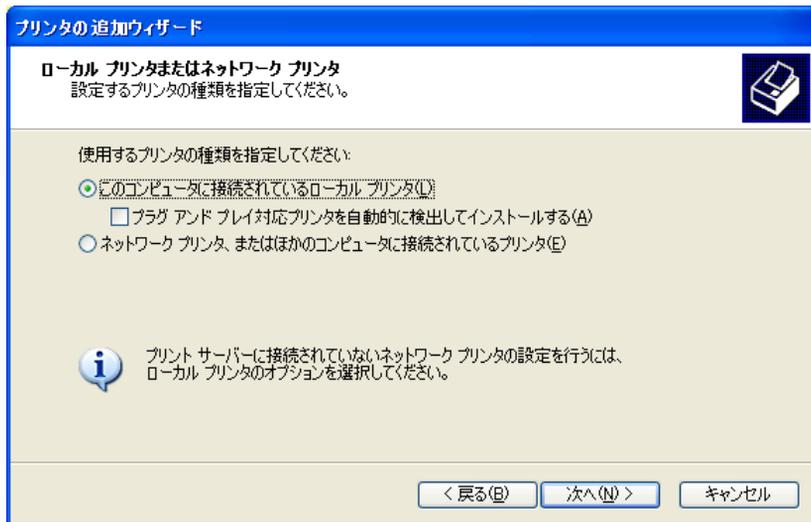


Fig 8 : selection of access point

•Please select a port connected with printer and click [next (N) >] button.

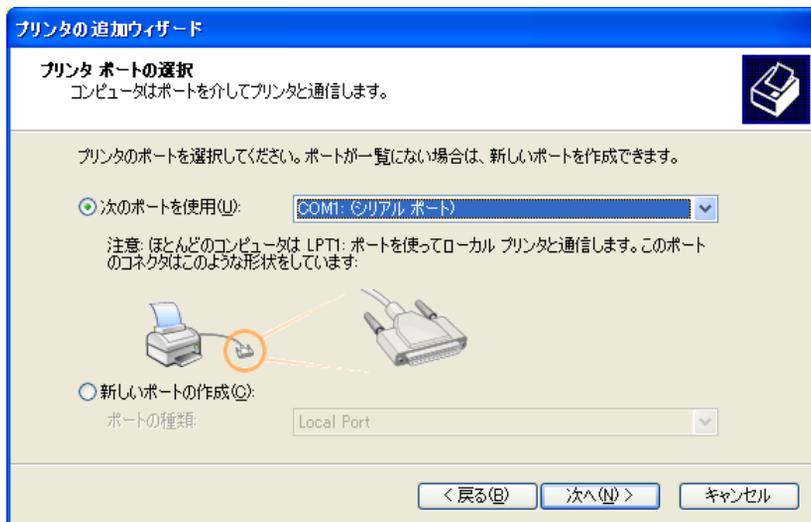


Fig 9 : Selection of access port

- Please click on [disc use (H)] button.

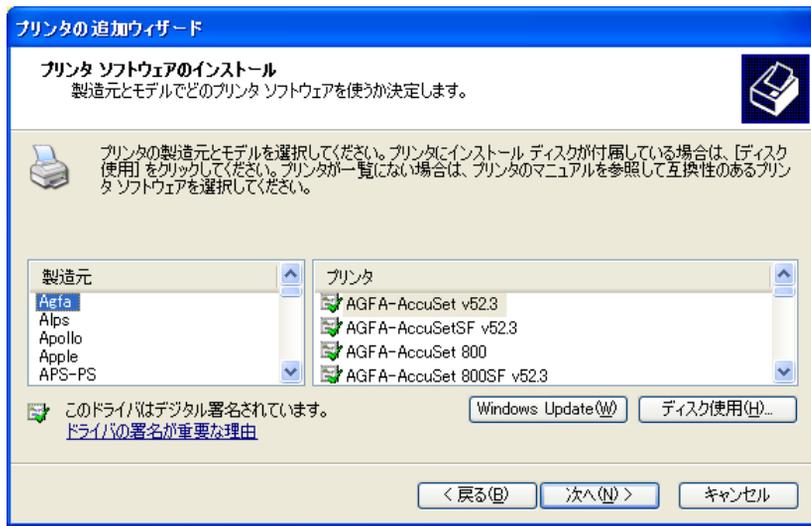


Fig 10 : Selection of Printer model

- Please select folder storing a printer driver set up file from a reference button and click on [OK] button.

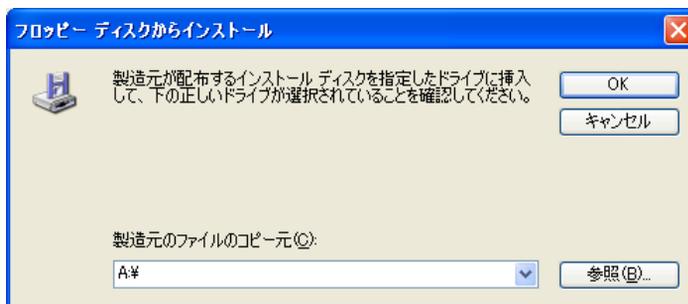


Fig 11: Selection of driver

- Please select printer model and click on [next (N)>] button.

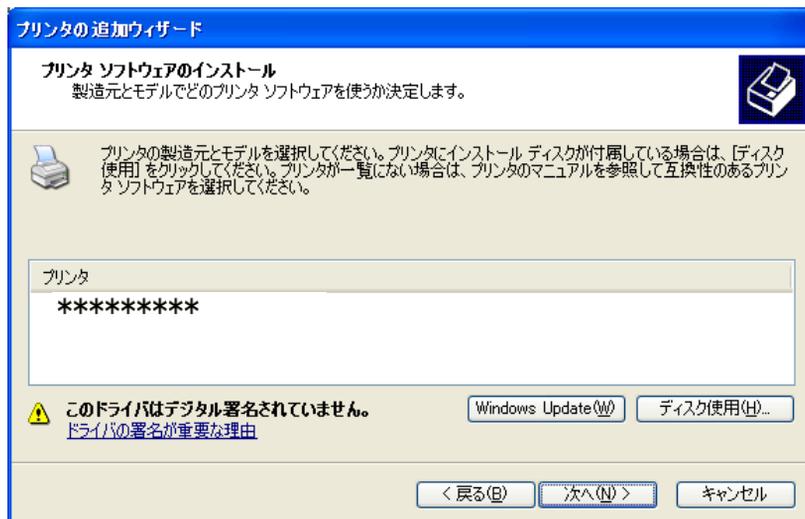


Fig 12 : Selection of Printer Model

- Please input printer name when needed and click on [next (N)>] button.

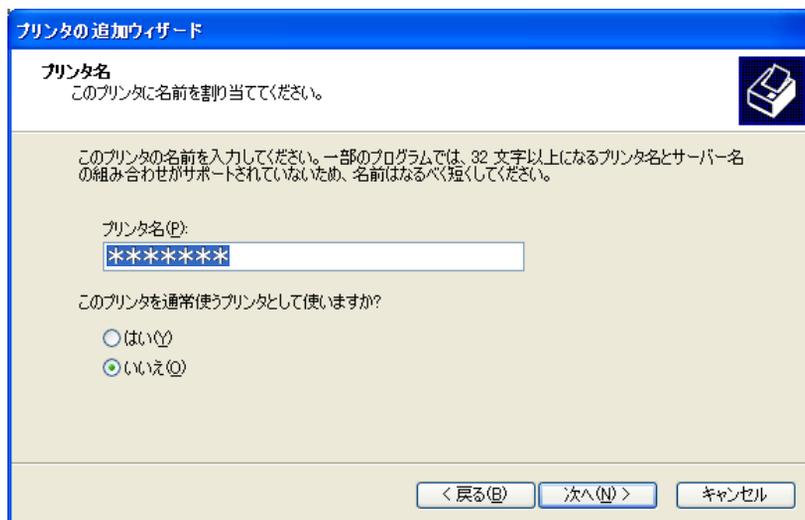


Fig 13 : Setting of Printer name



Please check on [No (O)] in case the printer not used regularly.

- After selecting whether or not test page is printed, please click on [next (N)>] button.

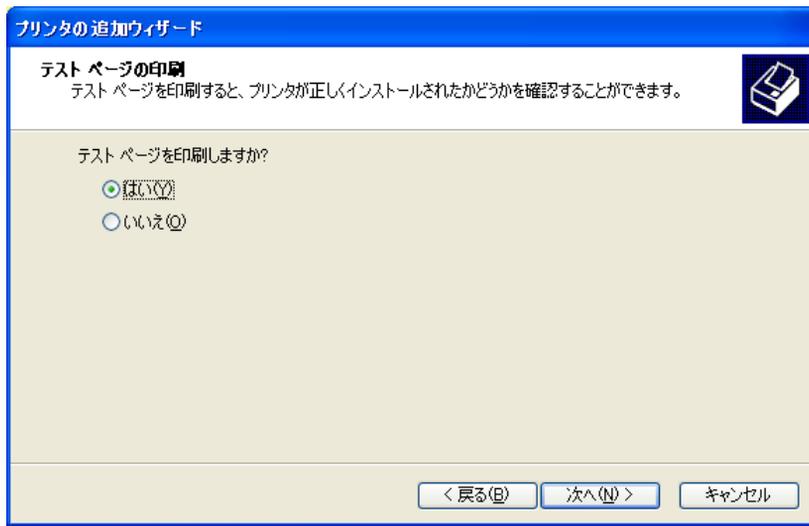


Fig 14 : Selection of test page printing

- Please click on [Completion] button after confirming setting contents are correct. If setting is changed, please return with [<return (B)] button.

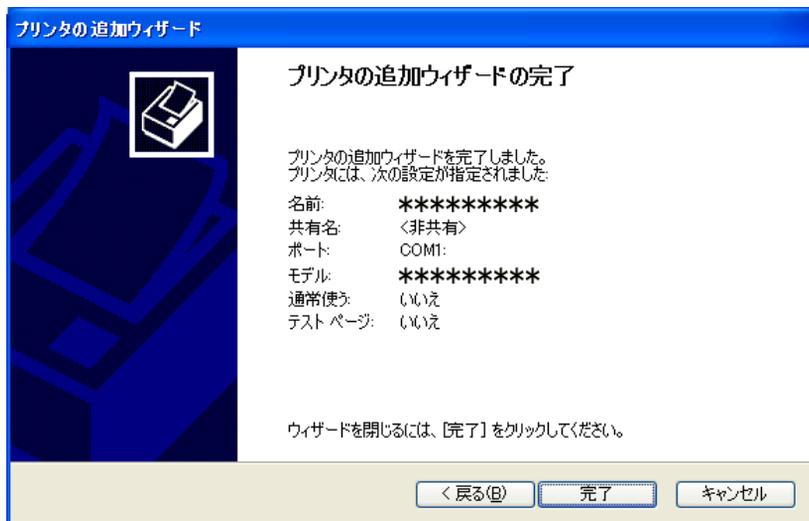


Fig 15 : Completion of Wizard of adding printer

- In case a following dialogue is shown during installation, please click on [Continue (C)] button to continue installation.

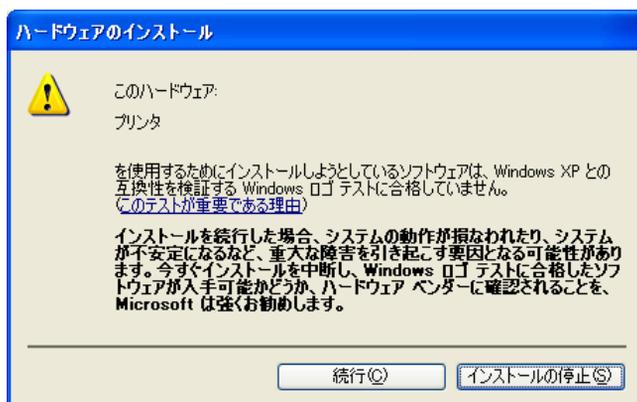


Fig 16: Confirmation of Digital Signature

- Once installation completed, icon of the printer driver installed is shown in the window of Printer & Fax.

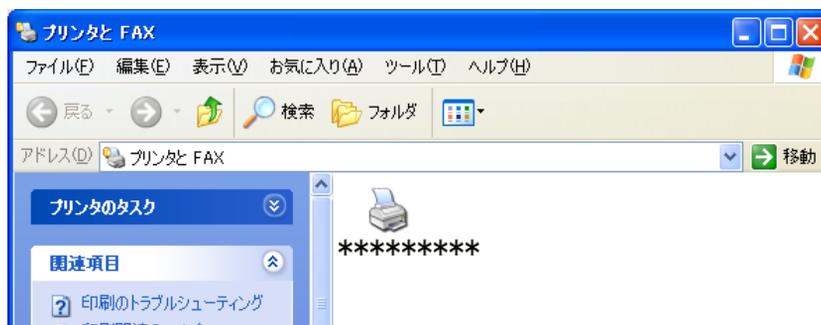


Fig 17 : Window of Printer & Fax after adding a driver.

Installation procedure

In case of TCP/IP connection

*TCP/IP connection correspond to Windows XP/7/8. (Vista is not compliant)

Please use the latest patch of each OS.

Please refer to the appendix [Installation guide(Windows7) or Installation guide(Windows8)].

Connecting Printer

In case of USB interface

- Please turn on power of printer after more than 5 seconds from power off the printer.
- Please use correct USB cable, USB hub which follow a USB2.0 standard(12Mbps).
- Please use the max. 5m USB cable length, max. number of hub within 2 stage.

Connecting Printer

In case of serial (COM) connection

Port setting of printer driver shall be corresponded to printer setting (baud rate/data bit/parity/stop bit/flow control).

reference

Port setting is activated from property window of port [Fig 19] by selecting a connected serial port from view on port tab of printer property, a click on [port configuration (C)] button.

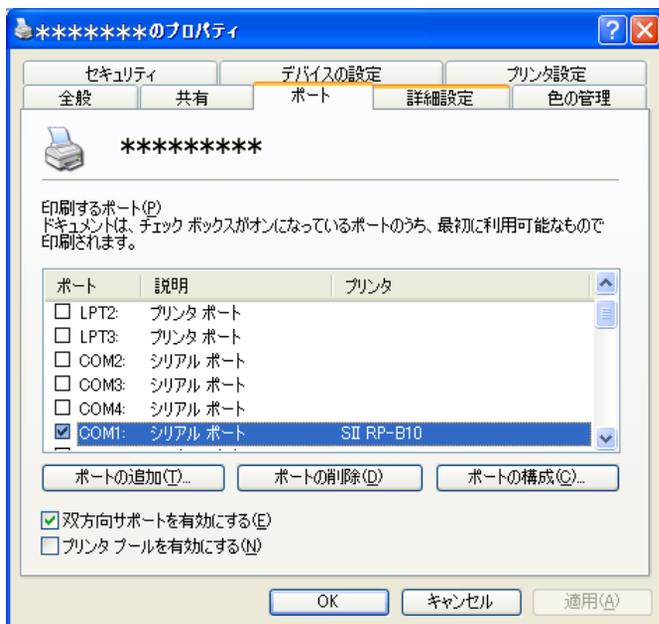


Fig 18 : Property of Printer

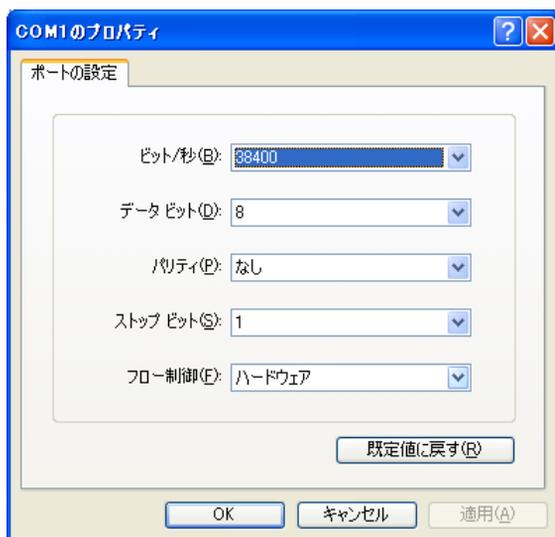


Fig 19 : Property of Port

reference

Printer setting is confirmed by activating a printer self-testing.

note

Set value after change in port setting may not become effective. Please try reboot PC or re-set the target port once another port applied.

Test Page Printing

Test Page Printing confirms if NExD is installed properly. Please take a following procedure for test page printing.

- Please open [Printer & Fax] and make a right click on an installed printer driver to select property.

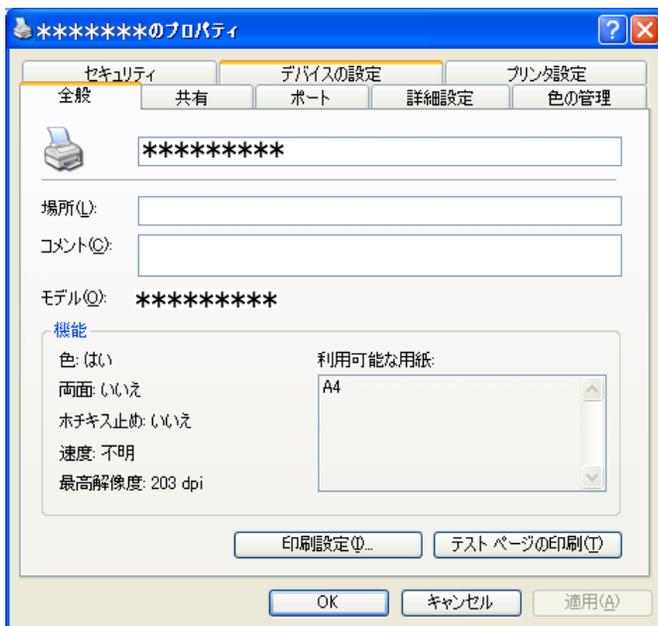


Fig 20 : Property of Printer

- Please click on [Test Pager Print (T)] button to print test page.

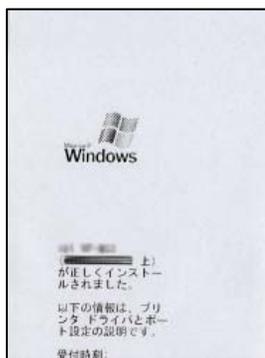


Fig 21: Printing result



Test page printing of NExD does not print all of the data like a normal test page printing. Addition, test page printing is printed as picture image data. Print will be slow for a longer communication time with printer in case of serial interface owing to a large quantity of printing data.

Test Page Printing

- Confirmation window of test page printing result is shown.
Please click on [OK] button if printed properly.
If not printed properly, please click on [trouble shooting (T)] button and follow message of window.

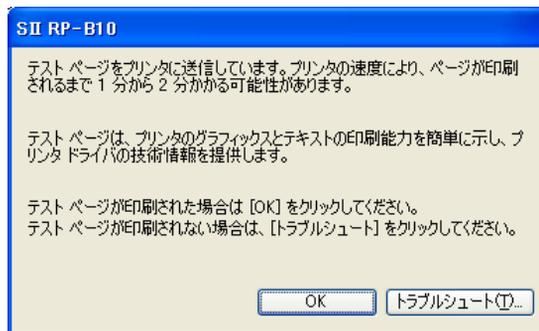


Fig 21 : Window to confirm printing result.

Un-installation

Please activate [NEx_UnInstaller.exe] in printer driver set up file and select a target printer and click on [Driver UnInstall] button.

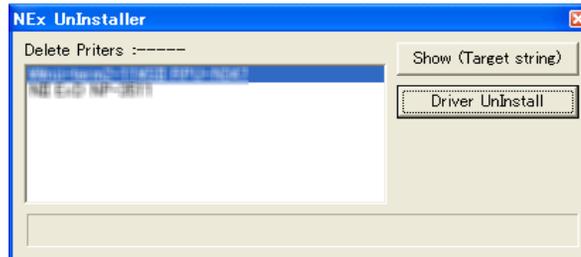


Fig 22 : NEx_U n Installer

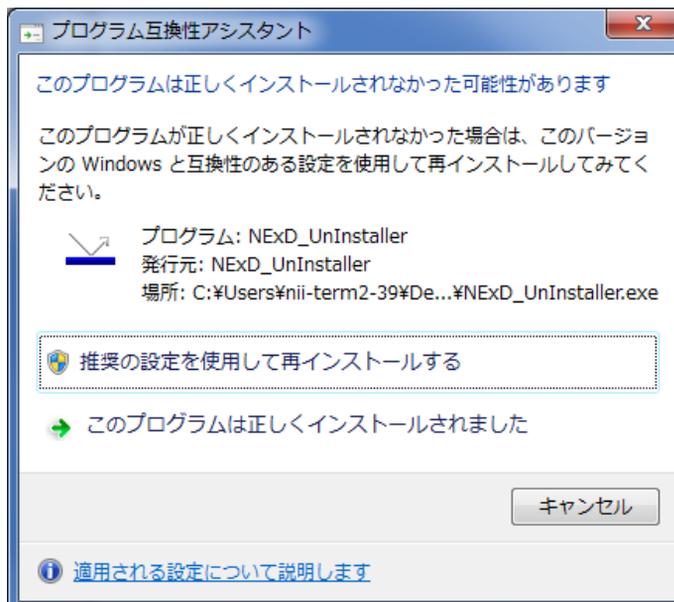
Note

Uninstaller is usable with Windows XP/Vista (beyond ServicePack1)/8 (each 32bitOS).

Please Do Not use with Windows7 or each 64bitOS.
(Reinstallation of driver may not be available)

Uninstall manually for Windows7 or each 64bitOS.
(Refer to appendix [Driver deletion operation for Windows7])

•Please click [Cancel] in case the following window is shown when exe is closed.



Replace printer

Please pay an attention to following point when replacing a printer with the same model and interface for repairing.

Please take a following setting for each interface.

Explanation of Interface

Serial	Activate self-test printing of printer, change driver's setting in conformity with port setting, after connecting, change memory switch, change to port setting before replacement, then, return driver's setting to original setting.
USB	There is no setting after replacement. However, if USB serial ID is configured, please reset printer after changing USB serial ID at your side since printer installation will take place.

Introduction of various tools integrated in NExD.

• **Status Viewer**

acquires and shows printer status and various information.

• **Printer Setting**

activate setting printer and font.

«Font»

• Barcode font

• 2 dimensional Barcode font

• NII Control A font

«Printer»

• Memory Switch

• USB serial ID

• Black mark

• Printer setting control (import/export setting of printer and NExD).

«Control»

• Log control

• Movement at error

• **Test Printing**

click target button to generate printer command and activate test printing.

• **NV image registration**

Register image into printer as NV image and print currently registered image.



Enable a simple image edition.

• **Code Page Registration**

Register data of user code page and print a currently registered user code page.



Enable making of font on screen.

• **Firmware Downloading**

activate downloading firmware into printer.