

Setting Guide

● How to Use and Reference

About a simple method of use of Integration Driver, property and tool

● Restriction

About restriction of Integration Driver.

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About Signage

Following signage are used in this guide. 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

Use this 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 equipment, 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. Make sure your decision upon users' enough acknowledgement to adequateness of this product in such applications.

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Introduction

NPI Integration Driver (hereinafter Integration Driver) is Windows driver for printing product made by Nippon Primex Inc.

Integration Driver can control printer with Integration Driver API for POS/Kiosk applications.

Note

This manual explains with screen of Windows 10.
Read this manual as for other OS when different OS used.
Display content of property and tool change depending on each printer to be used.

Contact us

Refer to our website.

<https://www.primex.jp/>

Property

Set as follows in Property.



Tab	Overview
General	Printer name and print setting, and test printing
Common	Common setting of printer
Port	Port setting
Advanced Setting	Advanced setting at printing
Color control	Display color setting (not in use for Integration Driver)
Security	Security setting of Windows
Device Setting	Set paper feed method of device and paper allocation. (not in use for Integration Driver)
Printer Setting	Display of driver version, and printer setting window

Property - General

Displaying/changing printer name, displaying print setting screen and printing test page are available.

Printer Driver name

Location of printer can be entered

Comments for Printer Driver can be entered

Printer Driver name

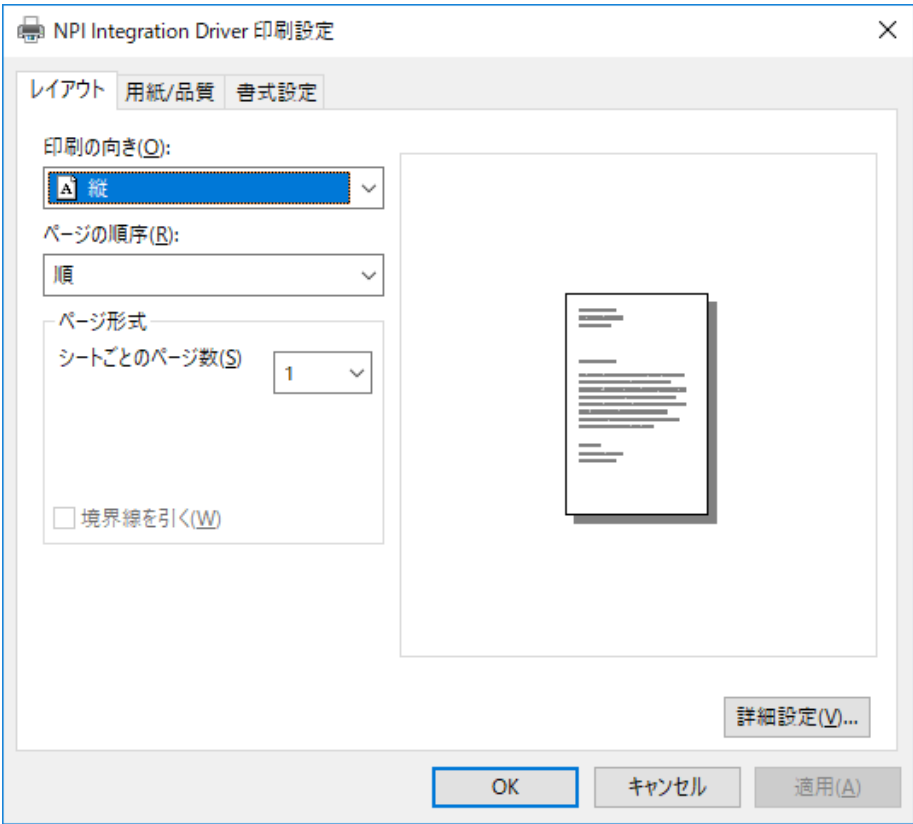
Printer Setting Screen is displayed

Execute Windows test print.



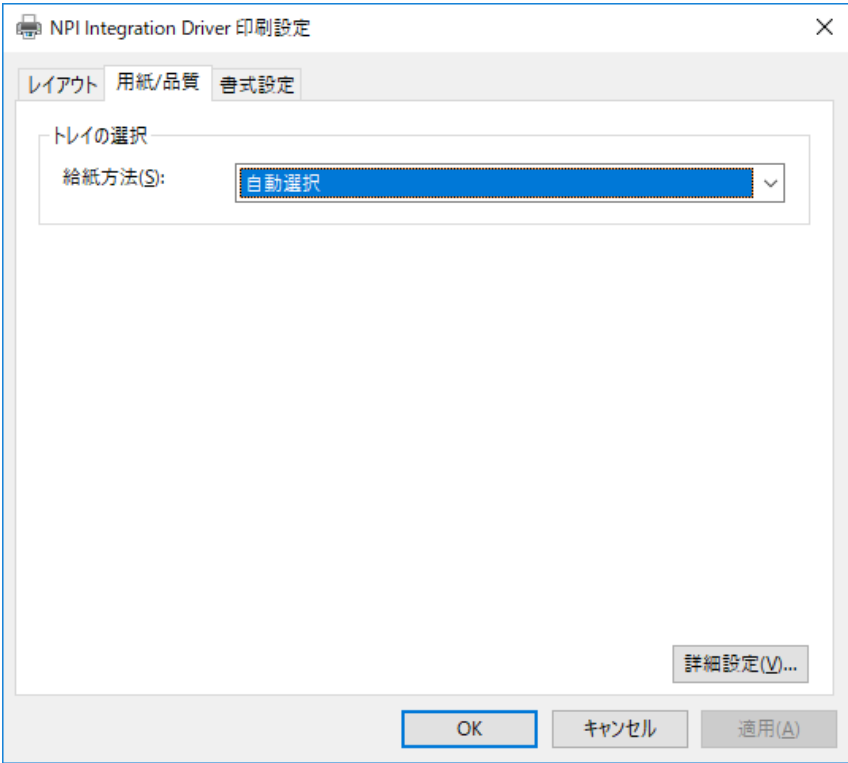
When changing printer name,
reboot computer or print spooler (Service name: Spooler)
from [Control Panel] → [Management Tool] → [Service]

Printer Setting - Layout



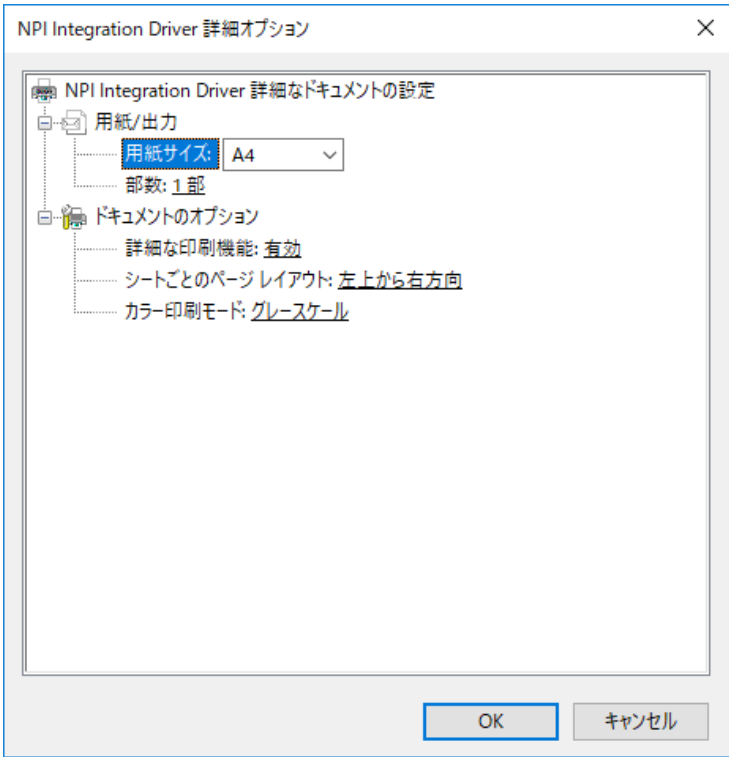
Item name	Value
Print direction	Vertical (printing vertically against paper)
	Horizontal (printing horizontally against paper) Text font is unavailable. Use Windows font.
Page order	Order (the first page is printed at first)
	Reverse (the first page is printed at the end)
Page per sheet	1 (select this normally)
	2, 4, 6, 9, 16 (not supported)

Printer Setting - Paper/Quality



Item name	Value
Paper feed method	Automatic selection (select this normally)
	Roll Paper Holder (printing from roll paper holder)

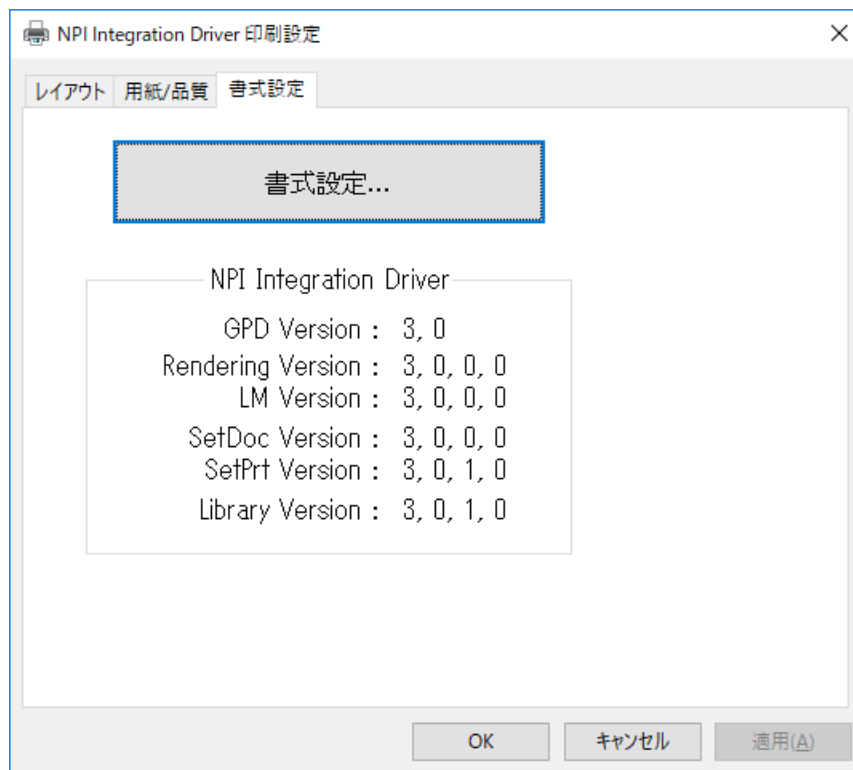
Printer Setting - Advanced setting



Item name	Value
Paper size	Select the same size as the paper set in the printer.
Number of copy	Set number of copy when copy is necessary
Detailed print function	Valid (select this normally)
	Invalid (print direction, order, page per sheet and number of copy are reset)
Color print mode	Monochrome (The image data must be binary)
	Grayscale (It is binarized by color management of Format Setting)

Printer Setting - Format Setting

Display formatting... activating window and displaying each file version of driver



Printer Setting - Format Setting - Easy Setting



Item name		Value
Easy setting		Batch changing to designated setting
	58mm Roll paper setting	Paper : 58mm Scale : 100% Rotation : 0° Print notice setting: flag + notice or flag + notice + store Action at end position -> feed to cut position Cut: full cut.

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Item name		Value
Easy setting		Batch changing to designated setting
	80mm Roll paper setting	Paper: 72mm Scale: 100% Rotation: 0° Print notice setting: flag + notice or flag + notice + store Action at end position -> feed to cut position Cut: full cut.
	A4-58mm Reduced printing	Paper : A4 Scale : 27% Rotation: 0° Print notice setting: flag + notice or flag + notice + store Action at end position -> feed to cut position Cut: full cut.
	A4-80mm Reduced printing	Paper : A4 Scale : 38% Rotation : 0° Print notice setting: flag + notice or flag + notice + store Action at end position -> feed to cut position Cut: full cut.
	Return to before change	Returns setting contents to status before change
	Return to the initial setting	Paper: A4 Scale: 38% Rotation : 0° Color Management : Binarization

Printer Setting - Format Setting - Advanced Setting

Item name	Value
Scale	25% ~ 255%
Rotation	0° /90° /180° /270°
Position Alignment (X)	Variable setting : -127~128
Position Alignment (Y)	Variable setting : -127~128
Default value of printer	True (Usually select this)
	False (If it dose not work well at the default value)
Print datum position	Selectable from Left, Center and Right
Print speed	5 points of print speed setting (Fast printing <-> High quality print)
Divide printing	Selectable from 1 to 3
Density adjustment	Variable for 65 to130%
LED bezel movement	Selectable from Puttern0 to Puttern2
Command which is send to the host after to be connected.	You can set the command which is send to host after the printer was connected and recognized to the host.
Printing completion notice	You can select the printing completion notice.
Color Management	Select binarization for gray scale data.

Printer Setting - Format Setting - Document operation

Item name	Value
Command sending	You can set the command that is send to host before/after cutting the paper.
Fixed NV Print	You can set Fixed NV Print, before/after cutting the paper.
Variable NV Print	You can set the Variable NV Print, before/after cutting the paper
Gradation NV Print	You can set the Gradation NV Print, before/after cutting the paper.
BM sensing	BM sensing setting is available
BM sensing (switch)	You can switch On/Off about BM sensing and set about paper feed by dots unit.
Back feed	You can set the back feed value by mm unit. It is adjustable from 0 to 31.875mm.
Feed	You can set the feed value by mm unit. It is adjustable from 0 to 31.875mm
Cut	You can select about Cut from, No cut, Partial cut and Full cut.
Drawer open	You can select about the drawer from, Not open, Open the drawer 1, and Open the drawer 2.
ON Time OFF Time	You can select about drawer open, from ON Time and OFF Time.
Setting clear	Clear the setting,
Cancel	Close the document operation window without saving the setting value.
OK	Save the setting value and Close the document operation window.

Drawer Control

Drawer is controlled as follows;

- Setting by Printer Property: control drawer before/after document or page
 - Control drawer by ESC/POS commands of API.

Setting by Printer Property

1. Open formatting window, click on operation button of desired timing to control drawer.

- Operation at Printing start
- Operation at Page start
- Operation at Page end
- Operation at Printing end

The screenshot shows the 'NPI' printer property window. The title bar includes the NPI logo and an 'English' button. The main window has a blue header with the text '印字開始時の操作' (Operation at the start of printing). Below this, there are two sections for 'コマンド送信' (Command transmission). The first section is for 'カット前' (Before cut) and the second is for 'カット後' (After cut). Each section contains dropdown menus for '固定NVE印刷' (Fixed NVE printing), '可変NVE印刷' (Variable NVE printing, currently 'Invalid'), and '階調NVE印刷' (Grayscale NVE printing). There are also checkboxes for 'BMセンシング' (BM Sensing) and 'BMセンシング(切替)' (BM Sensing (Switch)), both currently set to 'OFF'. Numerical input fields for 'バックフィード' (Back feed) and 'フィード' (Feed) are present, both set to '0 mm'. A 'カット' (Cut) dropdown is set to 'カット無し' (No cut). Below the 'カット後' section, there is a 'ドロアーオープン' (Drawer open) dropdown menu, which is highlighted with a red rectangle and set to '開かない(コマンドを送らない)' (Do not open (do not send command)). Below this are 'ON Time' and 'OFF Time' input fields, both set to '0'. At the bottom of the window are buttons for '設定内容クリア' (Clear settings), 'キャンセル' (Cancel), and 'O K'. A small note at the bottom left states: '※プリンタによって使用できないプロパティについては Invalidと表示されます' (Properties that cannot be used by the printer are displayed as Invalid).

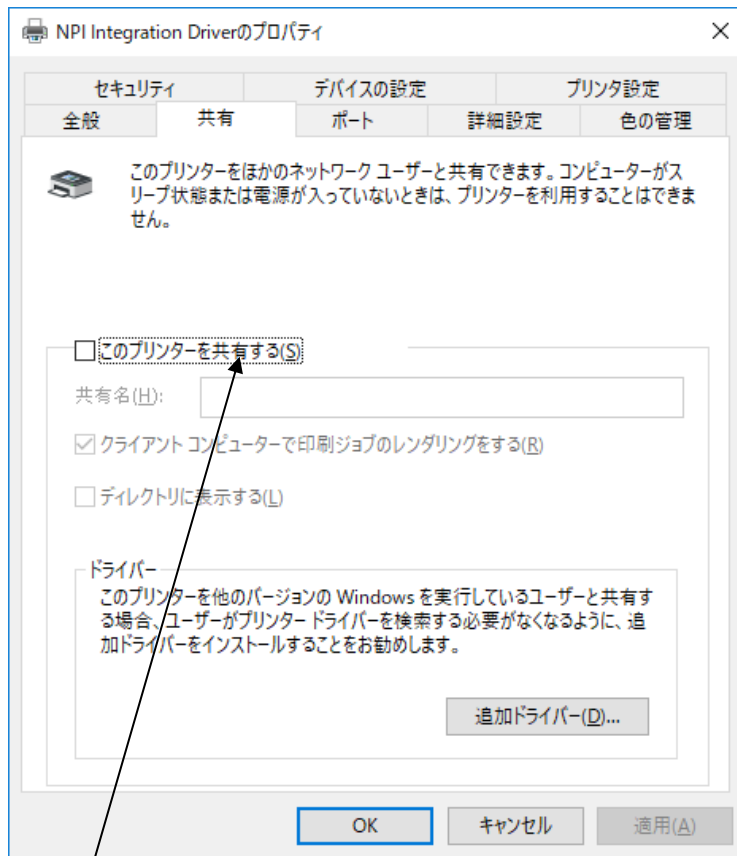
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2. Select drawer open 1 (2 pin)/drawer open 2 (5 pin) from drawer open dialogue, set ON Time or OFF Time

3. To activate printing from application enable drawer control at designated timing.

Property - Sharing

To set printer sharing



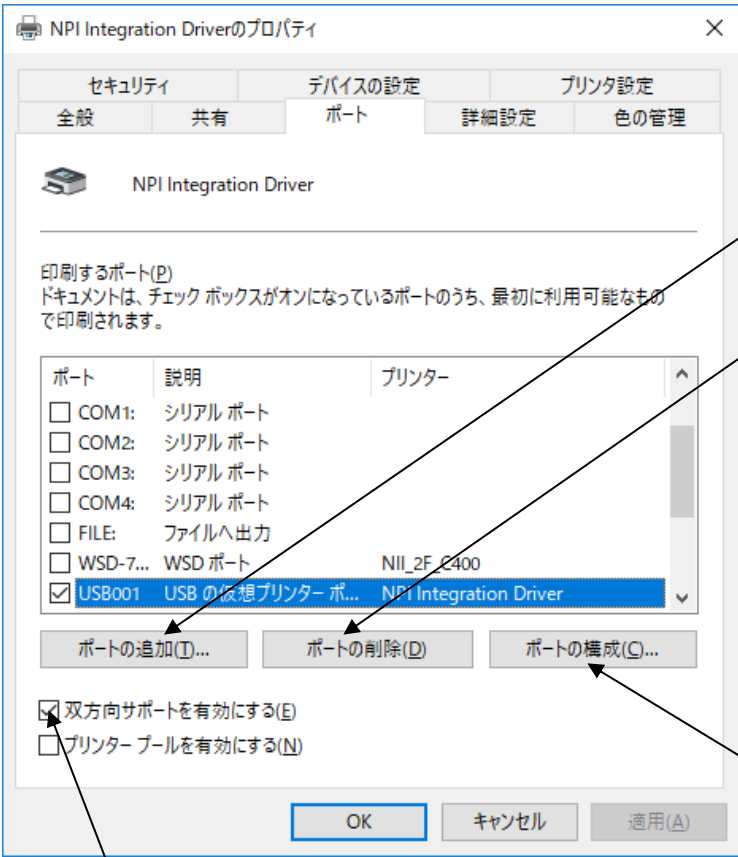
set sharing name of printer

Note

In case of printing by printer common,
From the original host, open "Printer setting -> Driver setting" and
execute "Printer Function information export" and create a file.
After that, import it to the host sharing the printer, to execute
"Printer Function information import" in the tag of
"Printer setting -> Driver setting"

Property - Port

Port to use is set



A new port is added

Port is deleted

Port is set

DO NOT uncheck the check box. It disable use of Integration driver

Note

About “Standard TCP/IP Port”, please set up and add the port by “Setup tool”. DO NOT add it by this window.

Property – Advanced Setting

Print detail is set. Use it with default.



Item	Description
Continuously available (L)	Keeps printer available at any time.
Start (B)/End	Available time of printer is restricted. Stays in spooler during restricting period.
Priority sequence (Y)	Current priority setting is displayed. Higher priority document is printed faster than that of lower priority.
Driver (V)	Installed printer drivers listed.
Printing program is processed at high speed by printing document is spooled. (S)	Document is spooled before printing it.
After spooling data for all pages, printing data is transmitted to printer. (I)	Final page of document before printing starts.

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Item	Description
Printing data is transmitted to printer promptly. (<u>L</u>)	Set printing start after spooling top page of document.
Printing data is transmitted to printer directly. (<u>D</u>)	Document is transmitted to printer without spooling it.
Unmatched document is held. (<u>H</u>)	Before transmitting document to printer, printer setting is confirmed by spooler, checks against document setting, and document is held in spooler in case information is unmatched.
Spooled document is printed at first. (<u>R</u>)	<p>If [Print spooled document at first] is ON, when spooler judges a next order to print, even if spooled document at time of spool completion if lower order against document during spool, the spooled document is printed on a priority basis. In addition, in case there is not document completely spooled, spooler prints the largest one among documents during spool on a priority basis.</p> <p>If [Print Spooled Document at first] is OFF, since spooler prints document based on priority basis, even if there is a spooled document, if the other document during spool is set higher priority than the spooled document, the document during spool is printed on priority basis.</p>
Document is left after printing. (<u>K</u>)	Since the document after printing is left in printing spooler, a prompt reprint is enabled.
Detailed print function is activated. (<u>E</u>)	Document is transmitted with Meta FileData type (EMF), detailed function such as page order, booklet printing, number of page per sheet etc. is enabled. When problem with compatibility occurred, disable this function.
Standard Setting	Click in case of making print setting as standard.
Print Processor	Click when designating variety of data. Normally it is not necessary to change predetermined print processor and variety of data.
Partition page	Not available.

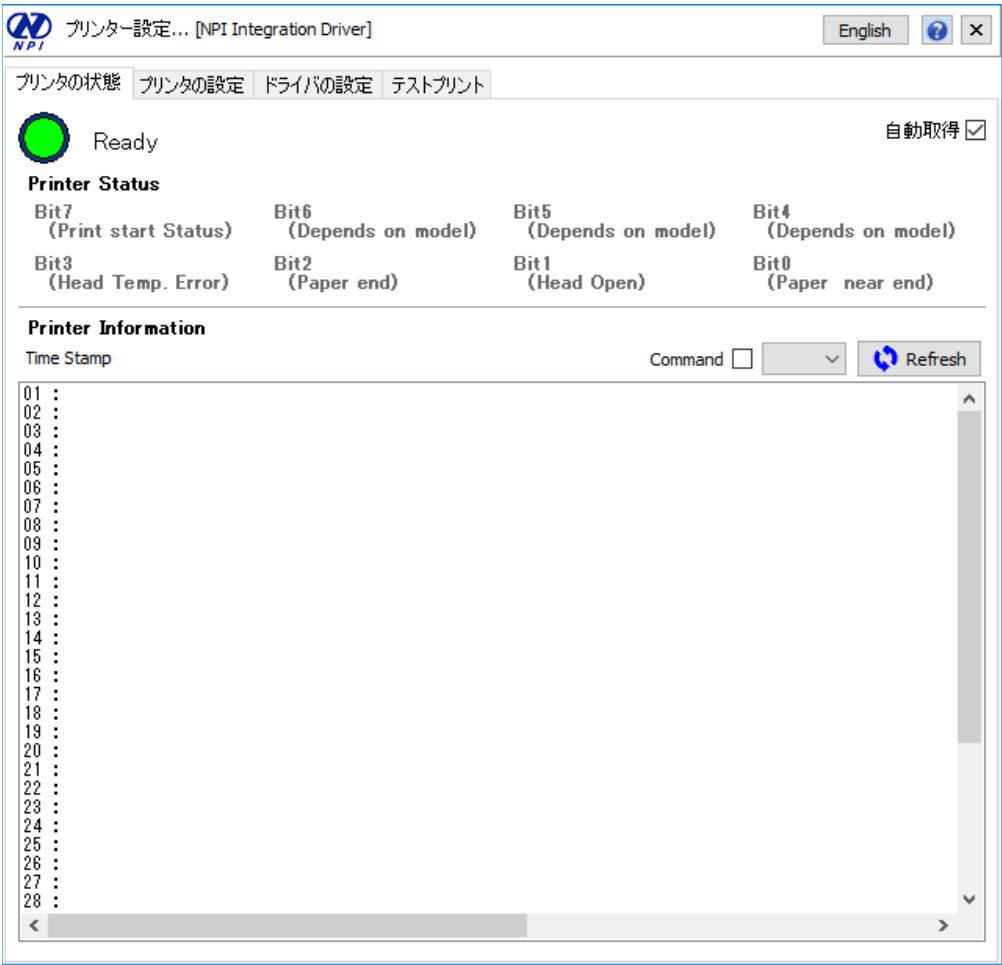
Property – Printer Setting

Open the printer setting window and show each file version of the driver.



Printer Setting – Status Viewer

Shows status of printer and information of printer



Item name	Value
Auto acquisition	Renewing standard status at every 50msec.
Time Stamp	Acquisition time of selected extended information is shown by elapsed time after Windows booted.
Command	Issue request command in reacquisition of extended information
Refresh	Activate reacquisition of extended information.

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Extended information: refer to product specifications of printer for detailed content.

Type ID	Data size	Content
Type 1	4 byte (fixed)	Extended status 1 st byte: undefined 2 nd byte: undefined 3 rd byte: undefined 4 th byte (least significant 4 bit): printer receipt buffer remainder [KBYTE]
Type 2	32 byte (delimiter)	Model name
Type 3	8 byte (fixed)	F/W version
Type 4	8 byte (fixed)	Boot version
Type 5	4 byte (fixed)	Reserved
Type 6	4 byte (fixed)	Number of head current carrying line
Type 7	4 byte (fixed)	Number of running dot line number
Type 8	4 byte (fixed)	Cutting number
Type 9	16 byte (fixed)	<User maintenance counter: number of head conducting dot line, number of running dot line, number of cutting and reserved>
Type 10	16 byte (fixed)	Reserved
Type 11	64 byte (delimiter)	Undefined
Type 12	32 byte (delimiter)	Undefined
Type 13	32 byte (delimiter)	Undefined
Type 14	32 byte (fixed)	Reserved
Type 15	16 byte (fixed)	Undefined
Type 16	16 byte (fixed)	Undefined
Type 17	16 byte (fixed)	Undefined
Type 18	16 byte (fixed)	Undefined
Type 19	8 byte (fixed)	Print End Notice: Job ID and end status at the end of document are described by designation of print notice setting. Upper 4 byte = job ID, lower 4 byte = end status
Type 20	8 byte (fixed)	Reserved
Type 21	8 byte (fixed)	Undefined

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Type ID	Data size	Content
Type 22	8 byte (fixed)	Undefined
Type 23	8 byte (fixed)	Undefined
Type 24	4 byte (fixed)	Undefined
Type 25	4 byte (fixed)	Transmission completed notice: job ID completed transmitting is describe
Type 26	4 byte (fixed)	Reserved
Type 27	4 byte (fixed)	Undefined
Type 28	2 byte (fixed)	Reserved
Type 29	2 byte (fixed)	Undefined
Type 30	2 byte (fixed)	Undefined
Type 31	2 byte (fixed)	Communication status information: USB: 0x0000 fixed COM: 1 st byte CTS, 2 nd byte DSR * Stamp acquisition time of final signal status to renew flag.
Type 32	12 byte (fixed)	<General information 8 byte> 0 byte =Sub ID, 1st~3rd byte=00h fixed, 4th~11th byte General information
Type 33	8 byte (fixed)	<General information 4 byte> 0 byte=Sub ID, 1~3 byte=00h fixed, 4th~7th byte General information
Type 34	4 byte (fixed)	<General information 2 byte> 0 byte =Sub ID, 1st byte=00h fixed, 2nd~3rd byte General information
Type 35	8 byte (fixed)	Undefined
Type 36	8 byte (fixed)	Undefined
Type 37	4 byte (fixed)	Undefined
Type 38	4 byte (fixed)	Undefined
Type 39	2 byte (fixed)	Undefined
Type 40	2 byte (fixed)	Undefined

Printer Option (Memory Switch)

Sets memory switch of printer.

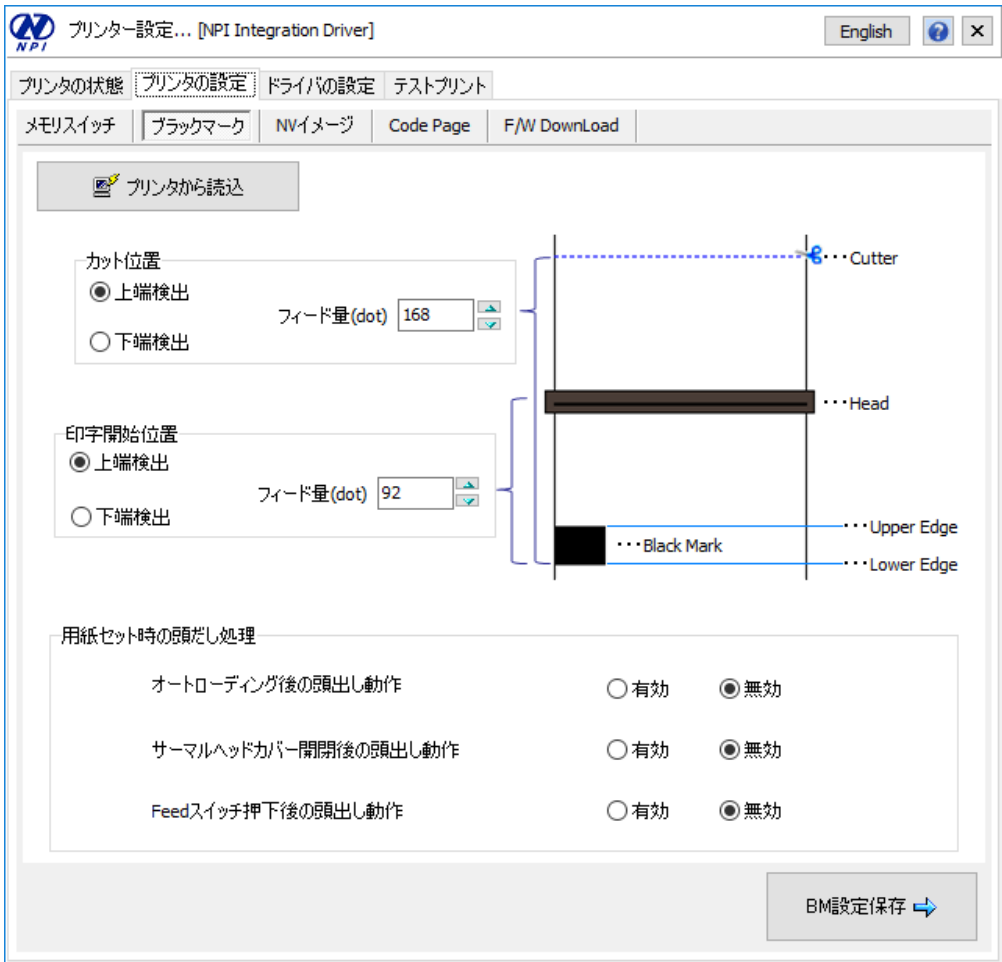


Item name	Value
Reading from printer	Reads current setting content of printer
Printing setting contents	Prints current setting contents of printer
Write to printer	Sends configured contents to printer and changes configuration of printer

Printer Option (Black Mark)

Sets a black mark of printer

* Black mark sensor is an option parts of printer.



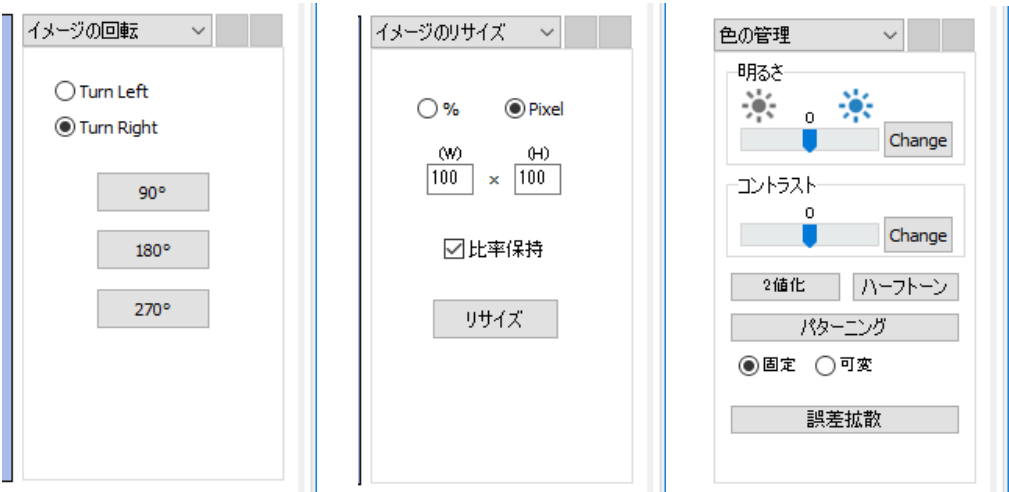
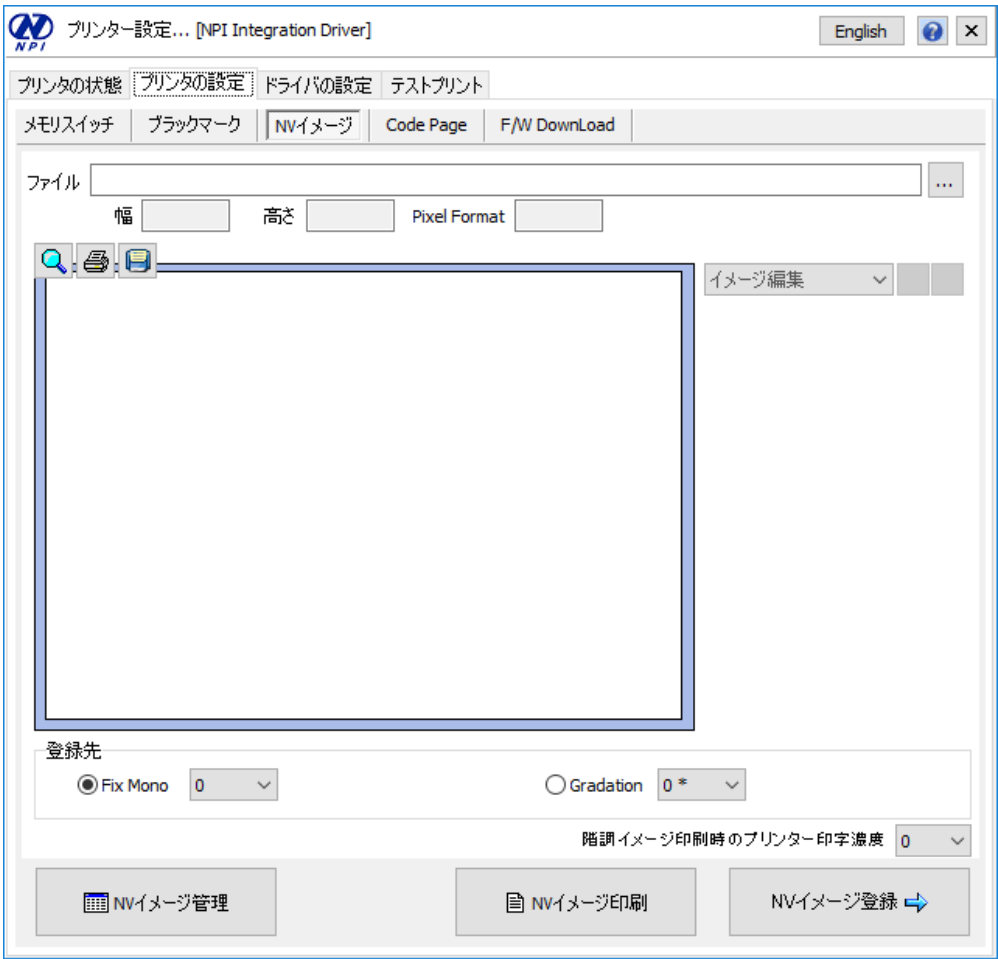
Item name	Value
Reading from printer	Acquire black mark setting of current connected printer.
Print start position	Validates when position alignment after sensing black mark is designated to print start position. * This value is used for black mark sensing of driver
Upper edge detection	Activates mark detection at upper edge of black mark
Lower edge detection	Activates mark detection at lower edge of black mark.
Amount of feed	Set position correction after sensing black mark. Configurable range is -32767 ~ 32767. * Available range varies on each printer.

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Item name	Value
Cutting position	Validates when position alignment after black mark sensing is designated to cutting position
Upper edge detection	Validate mark detection at upper edge of black mark.
Lower edge detection	Validate mark detection at lower edge of black mark.
Amount of feed	Set position correction after black mark sensing. Configurable range is -32767 ~ 32767. * Available range varies on each printer.
Cue handling at setting paper	Designates operation of printer when paper set.
Cue operation after auto loading	Determines action of printer when paper set
Cue operation after thermal head cover open/close	Determines whether of not to detect black mark when paper is auto-loaded
Cue operation after holding down Feed switch	Designates whether or not to conduct black mark sensing after holding down feed button of printer
BM setup saving	Transmits a designated black mark setup to printer to change setup of printer.

Printer Setting – NV Image Registration

A tool to register image into NV memory of printer and to conduct a test printing.



About logo file

Size of logo file to prepare varies on resolution described in product specifications.

Ex) Printer resolution: 203dpi

Width: 30mm

In case of printing 15mm height logo, calculate size of logo file with a following calculation .

Dot equivalent value = $25.4(1\text{inch}) / \text{resolution (dpi)}$

$0.125 = 25.4 / 203 ;$

* Rounded to fore decimal place

Image width (dot number) = width (mm) / dot equivalent

$240 = 30 / 0.125$

Image height (dot number) = width (mm) / dot equivalent

$120 = 15 / 0.125$

It will be a logo file of 240 x 120 dot.

Operating Instructions

1. Designates image file name by absolute path.
Able to designate from read dialogue by click on [...] button.
2. Selects registration destination (Mono [0-2/0-255], Gradation [0-24], Water Mark).
3. Register NV image by clicking on [NV image registration] button

Screen Instruction

●[NV image print] button

When printer selects Mono as registration destination and does not correspond to 256 NV registrations:

Prints 3 patterns of registered NV bit image and water mark (only when printer is set).

When printer selects Mono as registration destination and corresponds to 256 NV registrations:

Print NV bit image of selected registration number.

When blank is selected, prints all of registered NV bit image.

When printer selects Gradation as registration destination and corresponds to gray scale NV registration:

Prints gray scale NV bit image of selected register number. When blank is selected, prints all of registered gray scale NV bit image.

●[Returns to storage condition] button

Returns to default data.

●[Undo] button

Cancels content worked just before once.

●[Redo] button

Return content canceled by [Undo] button.

●[Rotation] button

Rotates image by designated direction and angle.

●[Resize] button

Resizes image to designated value (percent of dot)

* Keeps height and width ratio of image when ratio retention is checked.

●[Binarization] button

Display image by black and white.



Original Image



Image after converted

●[Patterning] button

Display image by 16 gray scale.

Fixed: displays image by 16 gray scale pattern by fixed value.

Variable: displays image by 16 gray scale pattern depending on color generation density.

For gray scale: displays image including gray scale value by fixed value.



Original image

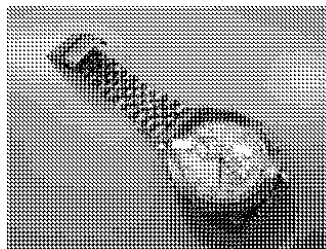


Image after converted.
Fixed

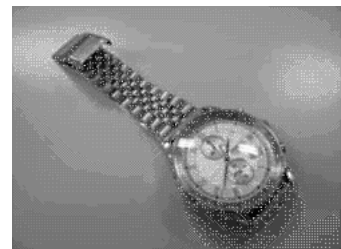


Image after converted
For gray scale

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- [Brightness] button
Changes brightness by selected \pm value.
- [Contrast] button
Changes contrast by selected \pm value.
- [Half tone] button
Displays image converted by particular filter.



Original image

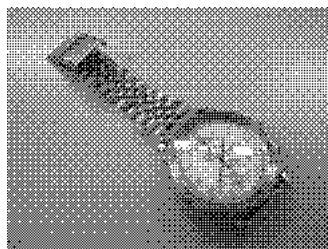


Image after converted

- [Error diffusion] button
Displays image converted by error diffusion.



Original image

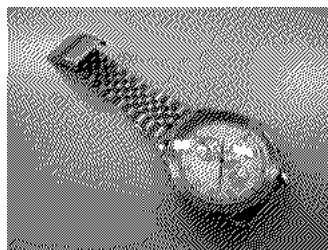


Image after converted

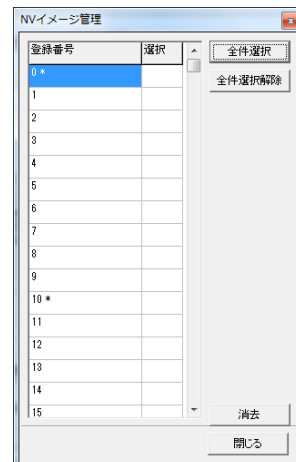
Reference

This tool has a simple image change function, but we recommend to design by black/white or gray scale with a dedicated tool beforehand.

- [NV image management] button
Displays NV image management window of selected registration destination.
Confirmation of registered number and saved position (only when gray scale NV image) and deletion of corresponding NV image are available on NV image management window.
- * NV image is registered to register number which has “*” mark after the number when Mono.
- * NV image is registered to displayed register number when gray scale.

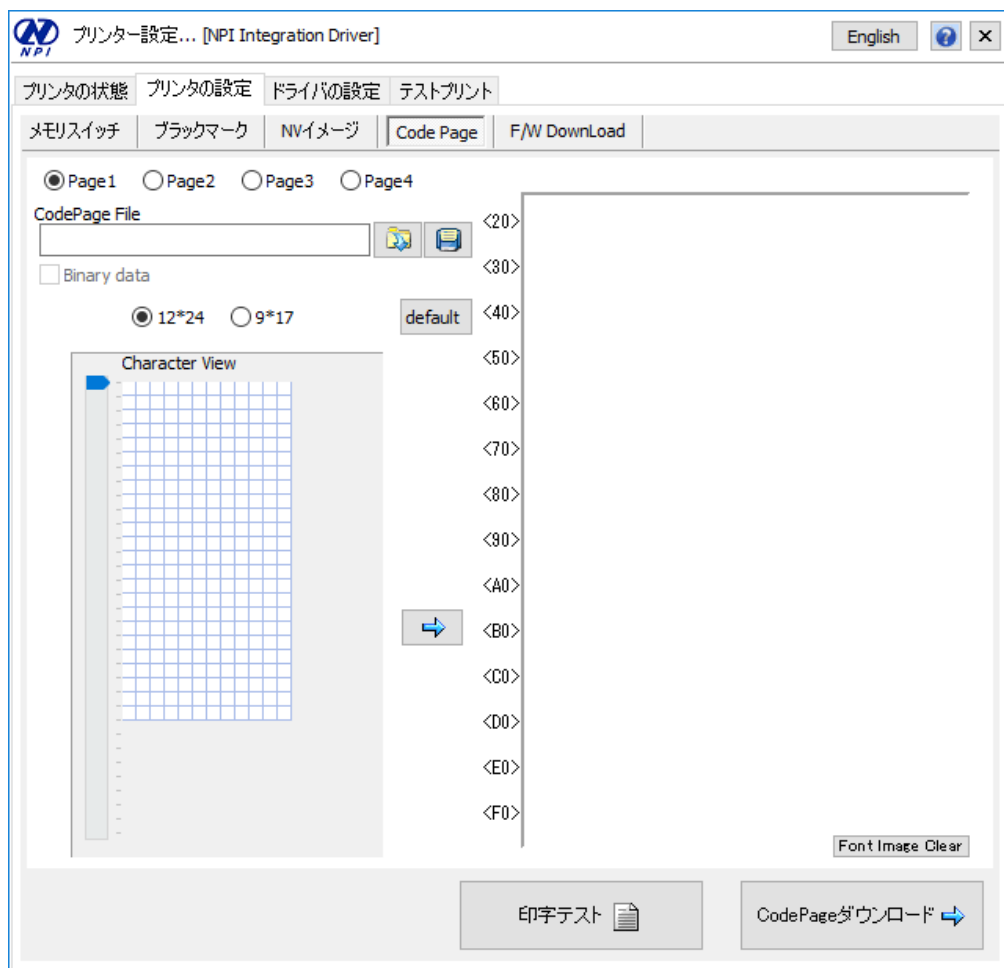
Note

Sequential area is required for registration of large image when gray scale. Area lack error occurs when sequential area is not ensured.




Printer Setting – User Code Page Registration

Tool to register and edit user code page, and to conduct a test printing





Operating instructions

Designates code page file from [] button.

Code page file is available for black/white bitmap file or binary file of
Font A (12x24) = 192x336 and Font B (8x16) = 128x224.

Register in user code page by clicking on [Code Page download] button.

Screen explanation

- [] Button
Open the code page file
 - [] Button
Save the Font image into the file name (Absolute pass designation) which was assigned by the Code Page File.
 - [Character View]
It will be shown to double click the particular character in the right side of the table of images of the character. You can edit each character on it.
Right click : White
Left click: Black
 - [Character Size]
Select 12x24 or 8x16.
12x24 is treated as Font A.
8x16 is treated as Font C8*16
 - [Character View Image]
Shows font image under edition.
Enlarged in Character View by double click on the specific character and edition is available.
 - [Grid Show/Hide]
Switches display/non display of grid on character view image.
 - [Code Page Download]
Registers font image under editing to printer.
 - [Test Printing]
Print all the characters currently registered in user code page.
- * Once printing test of code page conducted, following character code table will be USER Code Page until change by command.

Printer Setting – F/W Download

Tool to download F/W to printer.

The screenshot shows the 'F/W Download' tab of the 'プリンター' (Printer) utility. The interface includes a top menu bar with 'プリンターの状態', 'プリンターの設定', 'ドライバの設定', and 'テストプリント'. Below this is a sub-menu bar with 'メモリスイッチ', 'ブラックマーク', 'NVイメージ', 'Code Page', and 'F/W Download'. The main content area has a '接続プリンタ情報' (Connected Printer Information) section with a '取得' (Get) button and three input fields for 'モデル名情報' (Model Name Information), 'F/Wバージョン情報' (F/W Version Information), and 'Bootバージョン情報' (Boot Version Information). A 'テストページの印刷' (Print Test Page) button is also present. Below this is an 'F/W File' selection field with a dropdown arrow. Further down are labels for 'F/W File: ----' and 'Version: ----'. A 'ダウンロード状況' (Download Status) section contains a progress bar. At the bottom right, there is a checkbox for '強制ダウンロード' (Force Download) and a large 'F/Wダウンロード' (F/W Download) button with a right-pointing arrow.

Note

F/W updating is a service conducted under customer's responsibility.
Card failure by updating is repaired at customer's expense.

Reference

When the end of F/W download conducted during downloading firmware,
F/W will not be downloaded correctly. DO NOT end during downloading F/W.

Operation Instruction

●F/W download (On Line)

1. Confirm if connection to printer is established correctly in [Printing Test Page].
2. Acquire connecting printer information before F/W download.
3. Designate target F/W file.
4. Confirm if F/W file and version information are matched.
5. Click [F/W download] button to start F/W download.

6. Once download started, ALM Lamp of Printer starts blinking. After repeating light on/blinking, finally reset is executed to complete F/W download.

Reference

On the way, as timing of blinking get slower, it interprets failure in F/W download to printer, click [Cancel] button to stop transmitting. Then turn the printer OFF to end F/W download.

Reference

With printer downloading mandatorily, once downloaded from ON line, printer gets freeze. At that time, click [Cancel] button to stop transmitting. Once powered off printer, end this screen to download with mandatory download procedure.

7. Once download is completed correctly, get a connecting printer information or output self-diagnostic print to confirm F/W is written newly.

●F/W Download (mandatory download)

1. Make sure that communication setting between PC and printer are matched.
2. Boot printer at mandatory download mode.
ALM lamp of printer start blinking.
Refer to product specifications for how to boot at mandatory download mode.
3. Check [Mandatory download]
4. Designate target F/W file.
5. Be sure that F/W file and version information are matched.
6. Start F/W download by clicking [F/W download] button.
7. Once download started, printer ALM lamp changes to ON from blinking.
After that, light-on will be kept, finally reset is executed to complete download.
Use again once turned the printer OFF.

Note

It is necessary to check mandatory output of movement at error in printer setting → Control option beforehand. If no check, F/W data may not be transmitted.

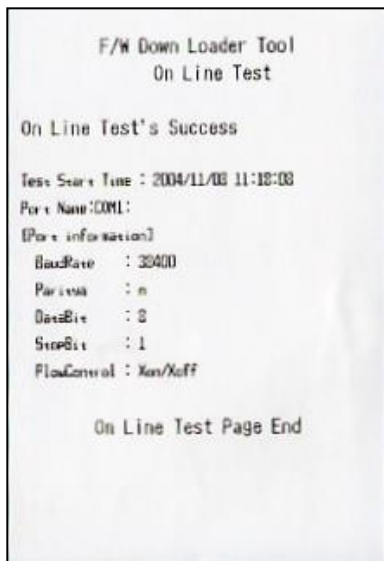
- [connecting printer information] item
Enable to acquire following information by clicking [Acquisition] button.
 - ◆Model information
 - ◆F/W version information
 - ◆Boot version information
- [F/W file:] & [Version information:] item
Displays content of selected target F/W file.

How to use Integration Driver and Reference

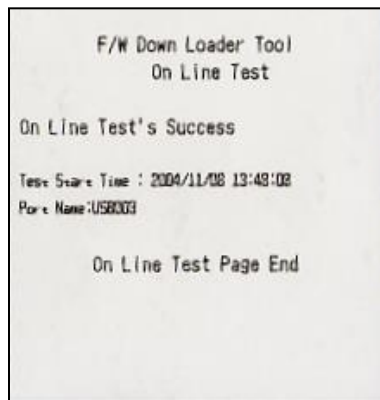
- [Test page printing] button
Conducts printing to confirm the communication setting is matched.
Following print sample is printed depending on printer driver communication configuration.

Print Sample

Serial connection



Other connection than Serial



- [F/W download] button
Activates F/W download
- [Cancel] button
Stops transmitting

Note

Pay attention that F/W is not written correctly at cancel.


- [Download status] bar
Displays transmitting status

Note

F/W download may not complete even if the bar moves 100%.
Activate power OFF/ON and unplug the cable after printer reset.

Control Option

Designates log setting and behavior at error

 プリンター設定... [NPI Integration Driver]

English ? X

プリンタの状態

プリンタの設定

ドライバの設定

テストプリント

エラー時動作

☒ 強制出力

☐ Bit6をエラーとする

☐ Bit5をエラーとする

☒ Bit4をエラーとする

☒ Bit3をエラーとする

☐ エアエンドをエラーとする

シリアル通信設定

☒ OFFLINE判定を有効にする

☐ OFFLINE判定をしない

☐ ステータス受信状況で判断する

メール通知

SMTP Server

ID

PASS

送信元アドレス

送信先アドレス

通知条件

☐ Bit7 On

☐ Bit6 On

☐ Bit5 On

☐ Bit4 On

☐ Bit3 On

☐ Bit2 On

☐ Bit1 On

☐ Bit0 On

プリンタ機能情報エクスポート

プリンタ機能情報インポート

プリンタ機能情報のクリア

※設定を行うとスプーラーの再起動が行われます

キャンセル

設定

Item name	Value
Setting	A current status is stored
Cancel	Returns to status before edit.
Printer Function information export	Function information of connected printer is stored to the file. (It is used to activate the property of the common printer.)
Printer Function information import	Set printer function information (It is used to activate the property of the common printer.)
Printer Function information clear	It is used to re-acquire the printer function information.

Control Option

Item name		Value
Action at error		Designates behavior when printer has error
	Compulsory output	Validate to transmit data to printer even if printer has an error.
	Near end is treated as error	Transmitting data to printer is stopped as error when detecting paper near end. * Document during printed will be printed continuously.
	BitN is treated as error	It stops transmitting to the printer, when, it detects BitN as a printer status as an error.
Serial communication setting		Designates it OFF LINE diagnosis or NOT
	Validate OFF LINE judgement	Using a signal line, evaluate that it is OFFLINE or not.
	Not validate OFF LINE judgement	It works as regular ON LINE.
	It judges from the reception situation of the status	It judges as OFF LINE under the situation that it does not receive the status while a definite period of time.
e-mail notification		Designates this when printer status is monitored remotely.
	SMTP server	Designates SMT server to use when transmitting email
	Mail ID	Designates ID when transmitting email.
	Mail PASS	Designate password to Mail ID
	Sender mail address	Designates sender email address.
	Destination mail address	Designates destination email address
	Notification conditions	Chose error BIT that should be notified by e-mail.

Printer Setting – Test Print

Tool makes test print of arbitrary image and print it.

Operating instructions

●Creates & output print sample

1. Continue to add target command from command list locates at right side screen.
[Command Name] and [Command Code] or added command is shown in grid at left side screen
 - * If there is command line ([Command Name] and [Command Code]) desired to delete, selected command line only is deleted by selecting target command line, click on [Command Delete] button.
3. Print sample created in [test printing] is output into printer.
 - * Be sure to build connecting properly to printer before test printing.

Screen Instructions

- [File] menu
 - ◆ [Work Area Clear (X)] menu
Clears print sample on grid.
 - ◆ [Open (Y)] menu
Selects “nsl” format file and able to open.
 - ◆ [Save as] menu
Saves a created print sample with name in “nsl” format file.
- [Test Print] button
Prints a print sample on grid.
- Grid at left side screen.
Added command is shown in command name + command code
Ex) paper feed 10mm + full cut.

Comment	Comr
Feed10mm	1b" J"
Full cut	1b" i"

- [Character data] button
Click on [Character data] button after inputting character data desired to add into text box at [Character data] button right side.
- [Barcode] button
Select type of barcode desired to add from combo box and click on [Barcode] button after inputting into text box at [Barcode] combo box right side.

Reference input data along with each barcode data condition.

- [Bit Image] button/[Raster Image] button
Dialogue box is displayed upon click on [. . .] button.
Select target image. Path name is shown in text box.
Added to the grid by clicking on [Bit Image] button/[Raster Image] button
- [Command delete] button
Moves focus to command desired to delete.
Command is deleted by clicking on [Command detail] button.

* Refer to printer command on product specifications of printer for other button.

Making Customized Form

[Property of Print Server] window is displayed when executing [Property of Server (V)] command of [File (E)] menu from (Printer & Fax) window.

1. Select from closer to a form to use and check [Make new form (C)]
2. Assign arbitrary form name, form width, height and so on.
3. Save form.

Note

Assigning duplicative form may cause deleting setting of original form

Reference

In application supporting only form of fixed size, the same printing as preview is enabled by leveraging application once after making customized form

Restrictions of Integration Driver is explained in this chapter.
Environment, OS configuration

1. In case of serial connection, “??” may be printed when recovered from sleep or hibernation mode on start-up of OS.
2. 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 .
4. Reserved name of resource
Integration Driver reserves a following each namespace.
Shared memory: Global¥SHMEM/ <printer name>/monitor/status
5. In case multi-printer drivers are allocated to the same port, the accurate status is not acquired.
6. In case the printer is controlled by direct communication, the accurate status is not acquired.
7. The driver set up is conducted by a user with the administrator rights.
8. There is a log function of IN/OUT to port, but it does not guarantee input/output
9. With using 64bit OS, It is necessary to use NPIDelDev.exe for uninstallation of the printer driver, then, stores NPI_UnInstaller.exe and NPIDelDev.exe in the same folder.
10. In serial communication, if printer's power OFF/ON (including software reset) is repeated, it may be judged as OFF line tentatively.
11. Some of configurable items in this driver may not be supported as printer.
12. The Administrator rights is necessary to use NPI_UnInstaller.exe.
13. When printer driver was deleted by “NPI_UnInstaller.exe,” after rebooting, it may become the condition that installed printer driver again. If this problem occurs, delete the device from “devices and printers” and also delete the driver from server properties.
14. Restart PC before reinstalling this driver.
15. Be noted that multiple printers cannot be used with Bluetooth connection or combination of Bluetooth and COM connection.
16. In case of using TCP/IP port that is designated by set up tool, Please DO NOT change the port name.
17. Communication is NOT guaranteed at direct communication by library to the same port to driver.
18. Be noted that “Switching from ONLINE to OFFLINE” and “switching from OFFLINE to ONLINE” take about 5 to 60 seconds (or longer in some case). Confirm switching ONLING/OFFLINE by status monitor.
19. When it is connected to the printer , it receives the status by printer driver,
20. When the printer name is changed, It is required to restart the spooler.
21. For NEX-C200 of firm ware version 1.00, Please use IG1.0,8.0.(the old version).
For firm ware version 1.0.1 or later, Please use IG3.0.4.0. (this version).