

Programmable Terminal NB-series

Practices Guide for Graphics Library

NB3Q-TW01B

NB5Q-TW01B

NB7W-TW01B

NB10W-TW01B

Practices Guide



Introduction

This guide describes reference information to create NB screens. It does not provide safety information.

Be sure to obtain the manuals for NB-series Programmable Terminals, read and understand the safety points and other information required for use, and test sufficiently before actual use of the equipment.

Terms and Conditions Agreements

Thank you for your usage of products of Omron Corporation ("Omron"). Without any special agreements, these terms and conditions shall apply to all transactions regardless of who sells.

Definitions of Terms

Omron product(s): Omron's factory automation system devices, general control devices, sensing devices, and electronic/mechanical components.

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- Conformity: (a) conformity, (b)performance, (c) no infringement of intellectual property of third party, (d) compliance with laws and regulations, and (e) conformity to various standards of Omron products in user applications.

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- Rating and performance is tested separately. Combined conditions are not warranted.
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- Examples are intended for reference. Omron does not warrant the conformity in usage of the examples.
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- When you use Omron products, ensure the followings: (i) allowance in aspect of rating and performance, (ii) safety design which can minimize danger of the application when the product does not work properly, (iii) systematic safety measures to notify danger to users, and (iv) periodical maintenance of Omron products and the user application.
- Omron assumes no responsibility for any direct or indirect loss, damage and expense resulting from infection of our products, installed software, any computer devices, computer programs, network, and databases with the followings: DDoS attack (distributed DoS attack); computer virus and other technically harmful program; and unauthorized

access.

Please conduct the followings by yourself: (i) anti-virus software, (ii) data input/output, (iii) lost data recovery, (iv) protections against computer virus that contaminate Omron products or the installed software, and (v) measures to protect Omron products from unauthorized access.

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 - (a) Applications requiring high-level safety (e.g. nuclear control facilities, combustion facilities, aerospace and aviation facilities, railroad facilities, elevating facilities, amusement facilities, medical facilities, safety devices or other applications which has possibility to influence lives or bodies)
 - (b) Applications requiring high reliability (e.g. gas/water/electricity supply system, 24-hour operating system, applications handling with rights/property, such as payment system)
 - (c) Applications in a harsh condition or environment (e.g. outdoor facilities, facilities with potential of chemical contamination or electromagnetic interference, facilities with vibration or impact, facilities on continual operation for a long period).
 - (d) Applications under conditions or environment which are not described in the catalogs
- Omron products in the catalogs are not intended to be used in automotive applications (including two-wheel vehicles). Please DO NOT use Omron products in automotive applications. Contact our sales personnel for automotive products.

Warranty

Warranty of Omron products is subject to followings.

- Warranty Period: One year after your purchase. However, except when there is a separate statement in the catalogs.
- Coverage: Omron will provide one of the services listed below, on the basis of Omron's decision.
 - (a) Free repairing of the malfunctioning Omron products (except electronic/mechanical components) at Omron maintenance service sites.
 - (b) Free replacement of the malfunctioning Omron products with the same number of substitutes.
- Exceptions: This warranty does not cover malfunctions caused by any of the followings.
 - (a) Usage in the manner other than its original purpose
 - (b) Usage out of the conditions
 - (c) Usage out of Note about Use in these conditions
 - (d) Remodeling/repairing by anyone except Omron
 - (e) Software program by anyone except Omron
 - (f) Causes which could not be foreseen by the level of science and technology at the time of shipment of the products.
 - (g) Causes outside Omron or Omron products, including force majeure such as disasters

Limitation of Liability

The warranty described in this Terms and Conditions Agreements is a whole and sole

liability for Omron products. There are no other warranties, expressed or implied. Omron and its distributors are not liable for any damages arisen from or relating to Omron products.

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Customers of Omron products shall comply with all applicable laws and regulations of other relevant countries regarding security export control, in exporting Omron products and/or technical documents or in providing such products and/or documents to a non-resident. Omron products and/or technical documents may not be provided to customers if they violate the laws and regulations.

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1 Related Manuals

No.	Model	Title
V106	NB□Q-TW01B	NB-series Programmable Terminals NB-Designer
	NB□W-TW01B	OPERATION MANUAL
V107	NB□Q-TW01B NB□W-TW01B	NB-series Programmable Terminals SETUP MANUAL
V108	NB□Q-TW01B	NB-series Programmable Terminals HOST
	NB□W-TW01B	CONNECTION MANUAL
V109	NB□Q-TW01B	NB-series Programmable Terminals STARTUP GUIDE
	NB□W-TW01B	

2 Precautions

- (1) When building an actual system, check the specifications of the component devices of the system, use within the ratings and specified performance, and implement safety measures such as safety circuits to minimize the possibility of an accident.
- (2) For safe use of the system, obtain the manuals of the component devices of the system and check the information in each manual, including safety precautions, precautions for safe use.
- (3) It is customer's responsibility to check all laws, regulations, and standards that the system must comply with.
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- (5) The information in this document is current as of October 2020. The information contained in this document is subject to change without notice due to improvements.

Special information in this document is classified as follows:



Precautions for Safe Use

Describes precautions on what to do and what not to do to ensure proper operation and performance.



Precautions for Correct Use

Describes precautions on what to do and what not to do to ensure proper operation and performance.



Additional Information

Additional information to read as required.

This information is provided to increase understanding or make operation easier.

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- Screen shots are used with permission from Microsoft Corporation.
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3 How to Register Graphics Library

3-1 Overview

This guide provides the information about the following features regarding to the Graphics Library.

- 1) How to create a new graphics library
- 2) How to reuse the graphics library in a different project

In addition to the default graphics library that NB Designer provides, users can create their original graphics library.

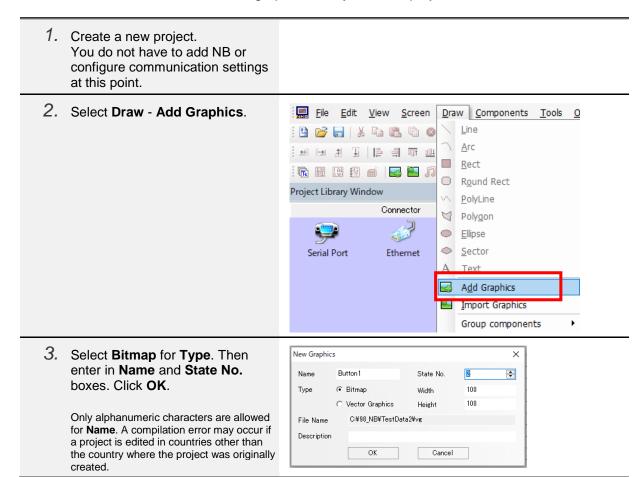
Users can reuse the created libraries in different projects.

Creating and reusing a common standard library consisting of buttons and lamps saves an extra work to create a new library for a new project.

Users can expect to reduce person-hours or to standardize layouts in different projects.

3-2 Creating a New Graphics Library

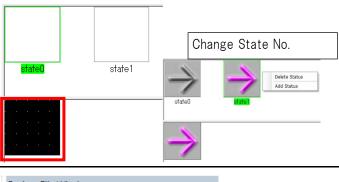
This section describes how to create a graphics library in a new project.

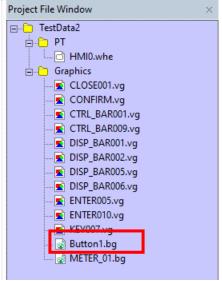


4. Make a right-click inside the red frame and select Load Graphic from the menu, or double-click it to display the graphic registration dialog. Select any graphic. Repeat this operation on all state.

> If you want to change the State No. you have set in Step 3, Select either of Delete Status or Add Status from the right-click menu.

5. The library you have created are added in the Project File Window.



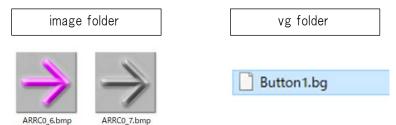




Additional Information

Image file(s) and a bg file are added to the image folder and vg folder in the project data folder respectively when a graphic is registered.

The files are used for library registration to other folder. It is described in the following section.



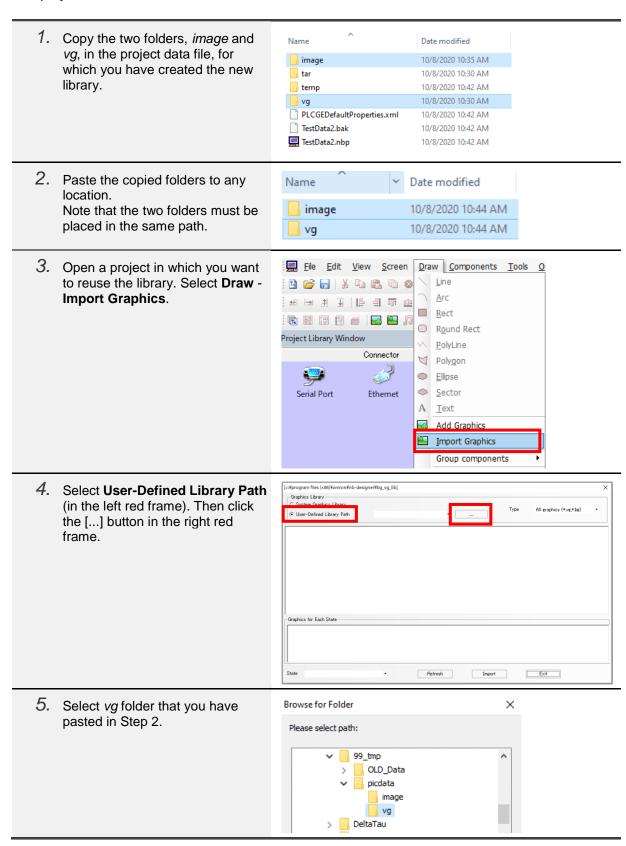


Additional Information

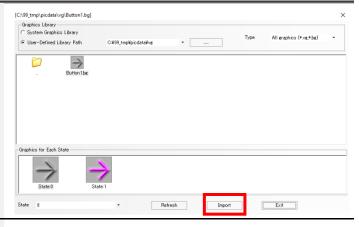
Graphic data may be copyrighted. When using bitmap data or other data provided in a website or other software, read the licensing terms and use the data on your own responsibility.

3-3 Reusing a Graphics Library in a Different Project

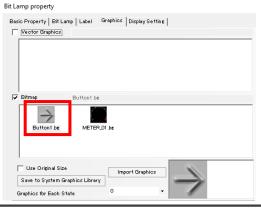
This section describes how to reuse the graphics library you have created in the previous section for other project.



6. The library you have created in other project is displayed. Select a library you want to use in a screen. Then click **Import**.



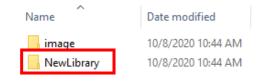
7. Open a component (e.g. lamp, button) using the graphic library to confirm the registered graphic works.





Additional Information

You can rename the vg folder that you have pasted in Step 2. Only alphanumeric characters are allowed for a folder name. The image folder must not be renamed because graphics will not be referenced correctly.



Revision History

Revision Code	Date	Revision Description and Page
01	October 2020	First edition