Multi LABELIST V5 Training Manual - Basic Operations -Version 4

SATO CORPORATION

August 16, 2019

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Introduction

Multi LABELIST V5 enables you to design layouts for tags and labels, and print them easily.

This manual provides training for creating label designs and the setups for making use of the various printing functions.

This training is important in order to get the most out of Multi LABELIST V5, so please try to follow it.

Note that the software will operate with limited features unless the HASP adaptor supplied with the production copy of Multi LABELIST V5 is used.

Before Starting Training

Is the program installation complete?

Can Multi LABELIST V5 be launched?

If HASP is not connected, the program will not operate normally. In such event as this isn't possible, please refer to the Start-Up Guide.

Then let's start practice.

1: Basic Settings and Creating Text Objects

With basic operations, we will create a layout according to a sample layout for practice. As the settings are basic, proceed with the practice while understanding the steps one by one.

■ Sample layout for practice

Printer model: CL4NX-J 08 Name: Layout Label size: 45 mm x 70 mm (height x width) Print contents: Company name, Name, Phone No.

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03-5549-4405	

We will now explain how to create a label as above. Let's get started.

1. Creating a New Layout (Creating a Label Design)

Select Windows Start Menu > Multi LABELIST V5 Di MLDesign

The displayed location of "Multi LABELIST V5" may differ depending on your OS.

Enter "user" as the password.

Click "OK". The MLDesign screen will be displayed.

D Password Confirmation		?	\times
Starting MLD Enter the adn	esign. ninistrator password.		
Password:	••••		
	ОК	Cance	2I

The Layout Design screen starts.

📵 🐚 🖷 🗒 🗉 🥑 🗉 🗧 (Layout)* - SATO Multi LABELIST V5 Standard(MLDesign)	- 0	×
HE File Home Design		۵
♥ Undo • ☆ Cut ☆ Delete ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓		
Coliects 4 Design Input Definitions Table Format	Properties	4
Select	Layout	3
	Basic settings	*
	Printer model:	
	L'esprit T408v/R408v	•••
	Paper: Free size (label)	•
	Sensor type: I-mark label	•
Shape	Paper size Height: 50 (mm) 1.9685 (inch)	
Table	Width: 50 (mm) 1.9685 (inch)	
Reverse		
	Global information file name:	
	Advanced settings	*
= L'esprit T408v/B408v_Linselected Y: 43 5000_X: 117.9167_Quantity: 0/0_123%		
Add Edit Insert Cut Copy Paste Delete Batch Search Enter part of a variable name Help		
Variable name Type No. of digits Details		
Eocal Variable List Local Table List Local Check Table List Local Graphic List	Paper width	

2. Using Sample Layout

From the File menu, select "New" then "Layout (Specify Sample Format)".

D 📄	• 📱 🤊 • 🤆 • 🔻			(Layout) - SATO Multi LABELIST V5 Standa	ard[
- 🔚 File					
0	New Create a new file.	Ctrl+N 🕨	A	Layout Create a new layout.	ł
	Open Open an existing file.	Ctrl+O ▶	A	Layout (Specify Sample Format) Specify a sample format from which to create a new layout.	e •
	Save Save the file.	Ctrl+S	Head	Header and Tail Labels Create new header and tail labels.	
B	Save As Save to a file with a different name.	Ctrl+Shift+S	abc	Global Information Create new global information.	7
i	File Information View and edit the file information.			Global Table Create a new global table.	
	Close Close the file.		Ì	Global Check Table Create a new global check table.	
3	Recent	Þ			
	Options View and edit the options.				
?	Help View the help.	F1 →			
	Exit Exit the application.				

Select a sample and click "OK".

New Layout (Specify Sample Format)	?	×
Specify a sample format from which to create a new layout. Conditions can be specified to narrow down formats.	n the sa	mple
Search condition (AND condition)		*
JANS-F5%A JANS-F5%A JF-ルJAN SATOC ST308R 1234 ¥200,000 JC ST308R 25x32 JANS-STOC JC ST308R 25x32 JC ST308R 25x32 JC ST308R 25x32 JC ST308R 25x32		*
1524 #89625- #851203568 5678 サー部: 1586 第 大中離 1586 第 大中 1586		
SCMラベル4-スキャントロニクス(4インチ) サトー 987 / 5 / 5 / 5 / 5 / 5 / 5 / 5 / 5 / 5 /		*
ОК	Cance	el

Then you can use the selected sample layout.

1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	bjects 4	Design Input Definitions Table Format	6
	Select		Layo
A	Text 🕨		Basi
	Barcode		Prir SAT
	2D code		Par
	Graphic		Ser
82	Shape 🕨		Pa
	Table		He
	Reverse		W
		20 = ????? ????????	Gl
			Adv
		SATOC ST308R Unselected Y: -7.0000, X: 38.8750 Quantity: 0/4 200% 🕞 , , , , , , , , , . , , , . , , . , .	

3. Setting the Printer

Make settings for the printer to be used.

In "Basic Settings" of the Properties pane, select the printer in "Printer model:".

In this example, select "CL4NX-J 08".

In actual practice, select the printer you will use.

*It may take several seconds until the "Select Printer Model" screen appears.

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EFile Home Design		۵
> Undo ~ ☆ Cut	Properties pan	ie
Cobjects 4 Design Input Definitions Table Format	Properties	4
▶ Select ↓ </td <td>Layout</td> <td></td>	Layout	
A Text	Basic settings	
Will Barcode	Printer model: L'esprit T408v/R408v	
2D code	Paper: Free size (label)	-
Graphic Graphic	Sensor type: I-mark label	•
Shape 🕨 20	Paper size	
Table	Height: 50 (mm) 1.9685 (inch)	
Reverse do a constanti de la c	Wiath: 54 (mm) 1.9085 (inch)	
	Global information file name:	
	Advanced settings	*
E'esprit T408v/R408v Unselected Y: 43.5000, X: 117.9167 Quantity: 0/0 123%		
E Local Variable List		
Add Edit Insert Cut Copy Paste Delete Batch Search: Enter part of a variable name IF Help		
Variable name Type No. of digits Details		
urable List 월 Local Table List 볼 Local Check Table List 드 Local Graphic List	Paper width Set the paper width.	

Select the printer and click "OK".



4. Setting the Paper

Then let's make settings for the label paper to be used for the sample layout for practice.

The size of the sample layout is 45 mm in height and 70 mm in width.

Enter the value in Height and Width of Paper size.

🚰 Proper	ties	щ
Layout		?
Basic setti	ngs	*
Printer m	odel:	
CL4NX-J	08	
Paper:	Free size (label)	•
Sensor ty	/pe: I-mark label	•
- Paper siz	7 0	
Height:	50 🗘 (mm) 1.9685 (inch)	
Width:	85 🗘 (mm) 3.3465 (inch)	
Global ir	formation file name:	

Did you enter the values?

The size of an image of the label will be changed according to the entered values.

Design Input Definitions Table Format	
	40 50 60 70 80 90 100 110
10	
30	
⁵⁰	
L'esprit T408v/R408v Text (MS Gothic)	Y: 122.8750, X: 54.0000 Quantity: 1/1 123% ⊖ , , , , , , , ⊕

5. Creating Text

Click "Text" then "Paste" on the Objects pane.

×0	bjects	ų	Design Input Definitions		
R	Select		-30 -20 -10		
Α	Text	•	A Paste		
	Barcode	•	abc Input		
	2D code	•	123▶ Sequence number		
	Graphic		Oate		
82	Shape	•	20		
	Table				
	Reverse		30		

Click on the area where you wish to create a text object on the Design screen.



When the text object is selected, the font type and size can be set in Basic settings on the Properties pane.

Design	Input Definitions Table Format	Properties 4
		Text 🕡
		Basic settings
		Item name: Text-1
ľ-		Data
10	Error	Paste •
20		
30		* Lise the Ctria Enter keys to add LE
		Ose the currenter keys to add Er.
40		Font Type: Windows fonts
		Arial
50		Size (nt)
		H: 9 W: Auto
L'esprit T4	8v/R408v Text (MS Gothic) Y: 57.5000, X: 32.2500 Quantity: 1/1 123% 😑 👤	
		BIUABAdvanced
3 🗱	Sarethy Enter and of a unichile same	Specify the area

In this sample layout, the company name is displayed in Chinese characters.

Change the font type.



In this example, "Arial" is selected.

Font						_
Type:	Windows	fonts			•	•
Arial					-	•
Size (p	t)					-
H:	9	•	W:	Auto	•	
B	IU		A B↓	Advar	nced	
Spec	ify the are	ea				_

Double-click the text "Error" and enter the company name.



After entering the company name, press Enter. The company name will then appear on the image of the label.



Is it displayed?

Then enter the name and telephone number in the same way. Then compare it against the completed label diagram shown below.



Is your label complete?

That's the end of layout design creation.

6. Saving the Layout and Exiting ML Design

Select "Save" from the File menu, name the file for example "Layout", and save it in your desired location. The saved file can be used later.



From the File menu, select Exit to finish MLDesign. Thank you for your efforts!

7. Printing the Layout

Double-click the "Layout.mllayx" file saved before in order to start MLPrint.

Enter the number of copies to be printed in "Print quantity" then click "Start Printing".

File	Home Edit View			
Output Destinatio	Start Printing	v Data File ODBC	First Previous Next Last	1 /1
	Print	Data	Page	
🔀 Fil	ter 🐻 Clear			12
т	(All)			Ba
No.	Print quantity			
X 1	1			^
*				_

Is the label printed?

This is the end of "1: Basic Settings and Creating Text Objects".

Useful Functions

1. Print Alignment Function

You can align multiple print items to the top or center with a click of a button.

Now we are ready to print. Move the mouse to select multiple items to be aligned.



Select "Left" from the Position menu.



Is the top position for the selected items aligned? Let's check the other buttons.



2: Editing Entered Items and Print Screen

We will now go to the next step, based on what we learned in "<u>1: Basic Settings and Creating Text Objects</u>". Also review "<u>1: Basic Settings and Creating Text Objects</u>" when required.

We will use the sample layout created in "<u>1: Basic Settings and Creating Text Objects</u>" for practice. In "<u>1: Basic Settings and Creating Text Objects</u>", we created text objects directly on a sample layout ("Layout"). In this section, insert a company name, name, and a telephone number when printing the label.

Sample layout for practice

Printer model: CL4NX-J 08 Name: Layout 2 Label size: 45 mm x 70 mm (height x width) Print contents: Company name, Name, Phone No.

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We will explain how to create the sample layout as shown above. Let's get started.

1. Opening the layout file

Select Windows Start Menu > Multi LABELIST V5 D MLDesign

The displayed location of "Multi LABELIST V5" may differ depending on your OS.

Enter "user" as the password.

Click "OK". The MLDesign screen will be displayed.

D Password	?	×				
Starting MLDesign. Enter the administrator password.						
Password:	••••					
	ОК	Cance	el			

From the File menu, click "Open" then "Layout...".



Select the layout created in "1: Basic Settings and Creating Text Objects", and click "Open".

D Open Layout File	×
\leftarrow \rightarrow \checkmark \uparrow \bigcirc SATO \rightarrow MLV5 \checkmark \circlearrowright Search	h MLV5 🔎
Organize 🔻 New folder	III 🔹 💶 (
Documents Name	Date modified
Osawa 👑 Layout.mllayx	12/13/2019 11:32 AM
Pictures	
- 電子メールの添付ファイル	
💻 This PC	
🧊 3D Objects	
Cesktop	
Documents	
🖶 Downloads	
👌 Music	
E Pictures	
Videos	
" OS (C:)	
······································	>
File name: Layout.mllayx V Layo	ut (*.mllayx) ~
	Open Cancel

🖸 | 🖿 • 🖶 🤊 • 🦱 - = | (Layout)* - SATO Multi LABELIST V5 Standard[MLDesign] ٥ × File Home Design G Ð Posițion Roțate Order Group \wp mm mm ÷ Display Unit of Rotate Items Coordinates Paper • Zoom In Zoom Out 🛱 Paste Screen Size▼ View Settings Edit Layout 🞘 Objects Design Input Definitions Table Format Properties Layout 0 Select * Basic settings A Text ۲ Printer model Barcode ۲ CL4NX-J 08 2D code ۲ 10 Paper: Free size (label) SATO CORPORATION Graphic Graphic Sensor type: I-mark label 20 Shape ۲ Paper size 45 (mm) 1.7717 (inch) 70 (mm) 2.7559 (inch) Table Height: TARO SATO 30 Width: Reverse 03-5549-4405 Global information file name: 40 50 Advanced settings × L'esprit T408v/R408v Unselected Y: 43.5000, X: 117.9167 | Quantity: 0/0 | 123% 😑 💭 🕀 🕀 🔐 Local Variable List л

 Image: Second Edit
 Image: Se Help Variable name Type No. of digits Details Paper width Set the paper 🎬 Local Variable List 🛛 😫 Local Table List 🛛 💥 Local Check Table List 🗔 Local Graphic List

The layout created in "1: Basic Settings and Creating Text Objects" is displayed.

Is it displayed?

Then go to the next step.

2. Creating a Variable

We will create a layout by entering "Company name," "Name" and "Phone No.", and print it. In this section, we will create variables to assign to these print items.

Let's open the Variable Settings screen.

Click "Add" on "Local Variable List" at the lower part of the screen.

Cal Variable List				щ
Add idit Insert Cu	t Copy Paste Delete Batc	Search: Enter part of a variable name	I P Help	
Variable name	Type No. of	digits Details		
				*
🔛 Local Variable List	😫 Local Table List 🛛 🕌 Local	Check Table List 🔚 Local Graphic List		

Multi LABELIST V5 has "Global variables" and "Local variables" as variables.

"Local variables" are unique information that can only be used in the layout being created. They are stored in a layout file.

"Global variables" are the global information that can be used by another layout. They are stored in a global information file other than a file for layout.



Setting items depend on the type of Variables.

Туре	Description
Input	Set variables of text such as product name or price that is input when printing.
Сору	Set a variable that is a duplicate of another variable. By switching between "Before editing" and "After editing", specify whether to copy the original variable value or to copy the variable value after editing such as comma editing.
Join	Set a variable that joins the fixed value and variable.
Sequential number	Set variables that include condition settings such as count up by 1 or count down by 2, etc.
Date	Set variables such as the current date and time and the date and time after adding the elapsed value.
Calculation	Set variables for calculation formula such as four arithmetic operations.
Symbol	Set variables for special symbols that set application identifiers (AI) such as GS1-128 barcodes in data.

In this example, we will use an Input variable.

Select "Input" as the variable type and "Character" as the Input variable type. Then enter "Company Name" as the Variable name and "20" as the No. of digits and click "OK".

D Variable Settings							?	×
Set the variable setting	IS.							
Input	Inp	ut varia	ble type: Character	•				
Сору	Edi	it param	neters					
Join		Order	Edit items	Setting items	Setting details			
Sequence number	•	1	Table conversion	No ·				
		2	Tax editing	No	-			
Date		3	Comma editing	None	•			
Calculation		4	Currency editing	No	•			
Symbol		5	Justification editing	None	•			
Symbol		6	Leading zero filling	No	•			
								Ŧ
1	Ta Var	riget ch	aracter:		Preview After editing:	o. of digits:	20	:
						ОК	Cano	el

The input variables are displayed on the Local Variable List.

🚰 Local Variable List		
Add Edit Insert Cut Copy Pas	Image: Search: Enter part of a variable name Image: Search: Image: Search: <t< td=""><td></td></t<>	
Variable name Type	No. of digits Details	
Company Name Input	20 Input type: Character	*
🖀 Local Variable List 🛓 Local Ta	able List 🛛 🕌 Local Check Table List 🛛 🗔 Local Graphic List	

Is it displayed?

Enter "Name (10 digits)" and "Phone No. (12 digits)", using the same procedure.

Then the screen shown below is displayed.

🚰 Local Variable List		щ
Image: Add Image: Add Edit Image: Add Add Image: Add Add Add Add Add Add Add Add Add Ad	Batch Search: Enter part of a variable name Help	
Variable name Type	No. of digits Details	
Company Name Input	20 Input type: Character	*
Name Input	10 Input type: Character	
▶ 🖉 Phone No. Input	12 Input type: Character	
		-
Local Variable List	🗳 Local Check Table List 🛛 🖾 Local Graphic List	

Is it displayed?

We will continue the practice, using these variables.

3. Assigning Variables

Assign the variables set in the previous steps to the layout created in "<u>1: Basic Settings and Creating Text</u> <u>Objects</u>".

Display the set variables.

Method 1: Drag & drop the variables from the Local Variable List.

While keeping the company name clicked on the Local Variable List, move the mouse to the object to which the variable is to be assigned, and release the mouse when the color of the frame around the object changes to yellow-green.



The display changes to "????????...".



Method 2: Select on the Properties Pane

Click the target object.

D 🗁 • 🖶 🤊 • 🥙 - =	Layout(Layout)* - SATO Multi LABELIST V5 Trial[MLDesign]	o ×
File Home Design		۵
 Undo Cut Redo Copy Select All Faste 	Image: Section Rotate Organ Image: Section Size Image: Section Size Image: Section Size Lavout Zoom Zoom Size Unit of Items Rotate	
X Objects #	Design Input Definitions Table Format	4
Select A Text IIIII Barcode 2D code IIIII Graphic IIIIIIII Shape IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	1/30 10 <	
	L4NX-J 08 Text (Arial) Y: 21.6250, X: 106.3750 Quantity: 1/3 133% 😐 💭 🐨 🗍 👘 🗐 🖉 🖓 🗛 🗛 🗛 🗛 🗛 🗛 🗛 🗛 🗛 🗛 🗛 🗛 🗛	

Set "Data" in "Basic settings" on the Properties pane to "Variable" and click "Name".

Basic settings
Item name: Text-4
Variable 🔹
Name:
Fill Pref.: Suffix:
Font
Type: Windows fonts 🔹
Arial
Size (pt)
H: 11 • W: Auto •
$\mathbf{B} \mathbf{I} \mathbf{U} \triangleq \mathbf{A} dvanced}$
Specify the area

The Select Variable dialog box is displayed. Select the variable to be connected and click "Select".

	D	Select Variable				?	×
s	eleo	ct the variable.					
		ocal variable *					
	Se	arch condition (AN	ID condition)				~
		Variable name	Type	No. of diaits	Details	-	
	•	Company Name	Input	20	Input type: Character		^
		Name	Input	10	Input type: Character		1
		Phone No.	Input	12	Input type: Character		
			[New	Salaat	(
				<u>N</u> ew	Select	Cance	:1

The selected variable is connected to the text object.

Basic settings	*
Item name: Text-1	
Data	
Variable 🔹	
Name: (Local) Company Name	
Fill Pref.: Suffix:	
Font	
Type: Windows fonts	•
Arial	•
Size (pt)	
H: 11 • W: Auto •	
BIUA Advanced	-
Specify the area	

Assigning Variables

Using the same method as <u>Method 1</u> or <u>Method 2</u>, assign the variables "Name" and "Phone No." to the corresponding items in the layout.

Does your Design screen look like as shown below?

D 🖻 • 🗐 🤊 • 🥙 • =	Layout(Layout)* - SATO Multi LABELIST V5 Trial[MLDesign]	– 0 ×
File Home Design		۵
♥ Undo ▼ ☆ Cut ♥ Delete ♥ Redo ▼ ○ Copy ♥ Select All Pos Frit	tition Rotate Order Group I avoidt Javoidt J	
Concerts The Design	n Input Definitions Table Format	Properties 4
A Text		Layout Constant Const
Barcode Definition of the second seco	222222222222222222222222222222222222222	CL4NX-J 08 ···· Paper: Free size (label) ··
Shape 20 IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	?????????	Sensor type. Final Klader Paper size Height: 45 \$ (mm) 1.7717 (inch) Width: 70 \$ (mm) 2.7559 (inch) 1.7717 (inch)
40 =	222222222222	Global information file name:
50		Advanced settings 😽
CL4NX	-J 08 Unselected Y: 54.0000, X: 93.5000 Quantity: 0/3 133% 🕞 💭 🕀	
Image: Second system Image: Second system <td< td=""><td># E Batch Search: Enter part of a variable name Help</td><td></td></td<>	# E Batch Search: Enter part of a variable name Help	
Variable name Type	No. of digits Details	
Name Input	20 input type: Character 10 Input type: Character	
APhone No. Input	12 Input type: Character	
		lauout
🖀 Local Variable List 🛓 Local Table List	🗳 Local Check Table List 🔚 Local Graphic List	Set the layout.

This completes creating the design.

Then we will go to the next step to create the print screen for printing a name label.

4. Saving the Layout

Change the name of the currently opened file "Layout.mllay" to "Layout2.mllay" and save it.





Enter the file name and click "Save". The file is saved with the new name.

D Save As	×
\leftarrow \rightarrow \checkmark \bigstar This PC \Rightarrow Documents	✓ Č Search Documents
Organize 💌 New folder	
This PC Name	Date modified Type
🗊 3D Objects	No items match your search.
E Desktop	
🔮 Documents	
Downloads	
k tr -	,
File <u>n</u> ame: Layout2	~
Save as type: Layout (*.mllayx)	~
∧ Hide Folders	<u>S</u> ave Cancel

5. Creating the Print Screen

Create the print screen.

To display the print screen, click the "Input Definitions" tab at the top left of the layout Design screen. To change to the layout Design screen, click the "Design" tab on the print screen.

Design Input Definitions	able Format
Company Name	Name: Phone Nd.
	200000000x : B00000000000 : : : : : : : : : : : :
: :	•••••••••••••••••••••••••••••••••••••••
No. Print quantity	
1 XXXXXX	· · · · · · · · · · · · · · · · · · ·
2 4	
	*
Unselected	🕒 Standard (100%) 100% 😑 🔶 🕂
Unselected	L Standard (100%) 100% - +
Unselected Design Input Definitions	Table Format
Design Input Definitions	Table Format 100% 100% 100% 0 0 10 20 30 40 50 60 70
Design Input Definitions	Table Format 100% 100% ++ 0 0 10 20 30 40 50 60 70
Design Input Definitions	Table Format 100% 9
Design Input Definitions	Table Format 100% 100% 100% 0 0 10 20 30 40 50 60 70
Design Input Definitions	Table Format 0 10 20 30 40 50 60 70
Design Input Definitions	Table Format 0 10 20 30 40 50 60 70
Design Input Definitions	Table Format Image: Constraint of the second se
Design Input Definitions	Table Format Image: Constraint of the second se
Unselected Design Input Definitions -30 -20 - -30 - -30 -20 - -30 - - -30 - - - - - - - - - - - - - -	Table Format Image: Constraint of the second se
Design Input Definitions	Table Format Image: Constraint of the second se
Design Input Definitions	Table Format Image: Constraint of the second se
Design Input Definitions	Table Format Image: Constraint of the second se
Design Input Definitions -30 -20	Table Format 10 10 20 30 40 50 60 70 10 10 20 30 40 50 60 70 10 10 20 30 40 50 60 70 10 10 20 30 40 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 11 10 10 10 10 10 10 10 10 11 10 10 10 10 10 10 10 10 10 10 12 10 10 10 10 10 10 10 10 10 10 13 10 10
Design Input Definitions -30 -20	Table Format 10 10 20 30 40 50 60 70 11 11 11 11 11 11 11 11 11 10 10 20 30 40 50 60 70 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 12 11 1
Design Input Definitions -30 -20 -30 -20 -30 -20 -30 -20 -30 -20 -30 -20 -30 -20 -30 -20 -30 -20 -30 -20 -30 -20 -30 -20 -30 -20 -30 -30 -30 -30 -30 -30 -30 -30 -30 -30 -30 -30 -30 -30 -30 -30 -30 -30 -30 -30 -30 -30 -30 -30 -30 -30 -30 -30 -30 -30 -30 -30 -30 -30 -30 -30 -30 -30	Table Format 0 10 20 30 40 50 60 70 1

Is the screen shown above displayed?

Start the practice from the print screen.

To print the label, what you only need to do is enter the data and the print quantity, and send the print instructions, regardless of the design. Creating the print screen independently of the design makes it possible to print labels easily and quickly.

Then let's create the print screen.

The "Company Name", "Name", and "Phone No." are displayed in the header. Move these three input items to the Row section.

🔆 Objects 🛛 🖡	Design Input Definitions Table Format	Header
Select	Company Name Name Name Phone Nd.	
A Text		
Image		
XX Button		
Line		
Rectangle	No. Print quantity	
Triangle	1 XXXXXX	*
Circle	2 4	
		Powe

Operations differ depending on whether the input item is in the Header or the Rows section. Items in the Header are added to all Rows.

As an example, the same data are input on the print screens below.



-	No.	Destinations	Product Name
	1	Meguro	Orange
	2	Meguro	Banana
_			

Let's try moving items from the Header to the Rows.

Click "Company Name" and then drag and drop it to the Rows section.

	Desigr	1	Inp	ut De	efini	tio	ns	Ta	able	e Fr	orn	nat																																						
3	Comp	an	y Na	me	::	: :	: :	::	Ν	an	ne	÷	: :		÷	F	h	bņ	e	No	5.		÷			÷	÷			:	÷	: :	÷	÷		÷	÷		:	÷	÷			:	÷			÷	÷	•
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	No.		Pri	qua	antil	ty																																												
		1	xx	xxx																																														•
		2	4																																															

Does your screen now look like the figure below?

Design	Input Definitions	Table Format
		Name Phone No.
::::	: : : : : : : : : : : : :	::: <mark>1</mark> 0000000000 : <mark>2</mark> 00000000000 ::::::::::::::::::::::::::
::::		•••••••••••••••••••••••••••••••••••••••
::::		
	: : : : : : : : : : : : :	
_		
No.	Print quantity C	ompany Name
-	1 XXXXXX X	*
	2 3 4	

Move the "Name" and "Phone No." items to the Rows using the same method.

Desi	gn	Input Definitions	Table Format		
	•••				
	• •				
	•••				
	•••				
	÷÷				
	::				
	::				
::::	::				
<u> </u>					
No	•	Print quantity C	Company Name	Name	Phone No.
	1	XXXXXXX	000000000000000000000000000000000000000	XXXXXXXXXXXXXX	XXXXXXXXXXX *
	2	1 2	2	3	4

Then sort the input items.

Move the input items for "Company Name" to the left of Print quantity.

Click the title for "Company Name", and then drag and drop it on "Print quantity".

	De	sig	ın	1	I	np	ut	D	ef	in	it	io	ns	5	Γ	Ta	ab	ole	e F	0	rn	na	at																																																								
		-	•	-			1	1	1	-	-	-	•	1	1			-				· · ·			•	-	•	-	•			•	•		•					•	•		•						•		•	-	•	•		•				•	-					•	•			-								-	1
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11.1		•	•	•	• •		•	•	•	•	•	•	•	•	•	•	•			•				•	•	•	•	•				•	•	•	•					•	•	•	•						•	•	•	•	•	•	•	•	•	•	•	•						•	•	•							1	•	•	•	1
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Does your screen now look like the figure below?

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Move "Name" and "Phone No.", using the same method.

Does your screen now look like the figure below?

Save the current status of the screen.

	Desi	gn	Input Definitions	Table Format	t			
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I.	:::	::						
ŀ	• • •	•••						
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II.	:::	::						
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II.	:::	::						
ŀ								
ŀ	• • •	•••				• • • • • • • • • • • •		
L P	<u></u>	<u></u>						
	No		Company Name	Na	ame	Phone No.	Print quantity	
		1	****	XXXXXXX XX	XXXXXXXXXX	*****		*
		2	1	2		3	4	
ſ								

In this practice, we will use the print screen we just designed.

Now, let's enter data and print a label.

Complementary Information: Move the row items to the Header section

Click the title row of "Company Name" and drag and drop it to the Header section.



Is the item moved to the Header section?

C)esign	Input Definitio	ns Table Format
(Compan	iy Name	
	xxxx	****	xxx ::::::
: :			: : : : : : : :
: :	::::		
: :	::::		
: :	::::		
: :	::::		
:	::::		
÷			• • • • • • • • • • • • • • •
	No.	Name	Phone No.
	1	XXXXXXXXXXX	XXXXXXXXXXXXX
	2	2	3

6. Printing the Layout

We will print the label based on the layout and the layout print screen that have been created.

When you have finished creating the layout, be sure to save it.

If you finish creating the label without saving, the contents that you have created or changed will be lost.

Double-click the "Layout2" file that has been saved.



Enter each item and click "Start Printing". Printing the label will start.

P	- 🖻	🖥 💿 + 📄 + 📼 I					Layou	t3(Layout) - SAT(O Multi LA
	File	Home Edit	View						
De	Output estinatio	Start Printing	Preview	🧿 🖆 Dąta File	ODBC	🗸 First	Previous Next	Last Page:	1 / 1
		Print		Dat	ta		Pa	age	
×	Filt	er 🐻 Clear							
۲		(All)	(A	JI)	(All)		(All)		В
	No.	Company Name	Na	ime	Phone No.		Print quantity		
I	1	SATO CORPORATION	N TA	RO SATO	03-5549-4	4406	10		*
	*								

Is the label printed?

This completes "2: Editing Entered Items and Editing the Print Screen".

3: Making Various Characters

Let's try applying what we learned in 1. Basic Settings and Creating Text Objects, and use various characters.

1. Fixed Characters

This is an application of "<u>1. Basic Settings and Creating Text Objects</u>". Let's try setting a fixed value and presenting characters.

Use the Printer font.

"Printer font" is a character font built-into the printer, which allows fast printing and reduces the amount of data that has to be sent.

Characters used in "1. Basic Settings and Creating Text Objects" is "Windows fonts". As "Windows fonts" are treated as image data, the printing process may be slow, and the amount of transmitted data may increase. When "Windows fonts" are used, larger characters will be produced with higher-resolution results compared with "Printer fonts".

Open the design screen for layout registration from MLDesign in Multi LABELIST V5, and create a new layout. If you don't remember how to create a layout, refer to "<u>1. Basic Settings and Creating Text Objects</u>".

Basic Settings for the Layout

Printer model: CL4NX-J 08 Label size: 45 mm x 70 mm (height x width)
Select "Text" on the Objects pane and enter "12345".

90 100 110
123% 🗩 🗍 🕂

As default, Font Type is "Windows fonts". Select "Printer fonts" and "X21" and specify Size (Magnification) to 2 for H (height) and 3 for Width.

Basic settings 🔗	Basic settings 🔷
Item name: Text-1	Item name: Text-1
Data	Data
Paste •	Paste 👻
12345	12345
* Use the Ctrl+Enter keys to add LF.	* Use the Ctrl+Enter keys to add LF.
Font	Font
Type: Windows fonts	Type: Printer fonts
Arial -	X21(17x17) •
Size (pt)	Size (Magnification)
H: 9 • W: Auto •	H: 2 🗘 Width: 3 🗘
$\mathbf{B} \mathbf{I} \mathbf{U} \mathbf{A} \mathbf{B} \mathbf{A}$ Advanced	B C P A B Advanced
Specify the area	Specify the area

Did you enter the values?

Enter "ABCDE", using the same method.

Specify "Printer fonts" to "X23" and 2 for H (height) and 2 for Width.



Does it look like the screen as above?

Then go to the next step.

2. Rotating the Characters and the Design Screen

First, let's practice rotating the displayed characters.

Select the item you want to rotate. (You can select the item by clicking it with your mouse.)



Click "Rotate" on the tool bar to display the sub-menu and select the type of rotation.



Do you understand how to rotate the selected text? Then rotate multiple items.

Select the area where there are items to be rotated.

Design	Input Definitions	Table Format						
-30	-20 -10	0 10	20 30	40 5	0 60	70 80	90 100	110
•								
10		1	2345					
Ĩ								
20			ABC	DΕ				
30								
40								
50						/]	
CL4NX-J 12	Unselected			Y: 39.4167	X: 58.0833	Quantity: 0/2	123% 😑 🚬 🖓	• • • • • •

When you specify the area, characters in the area are selected.

Design	Input Definitions	Table Format					
	30 -20 -10	0 10	20 30	40 50	60 70	00 00 00 00 00 00 00 00	
10			2345				
20			ABC	DE			
30							
40							
50							
CL4NX-J 1	2 Text (X21(17x17))		Y: 32.7500, X:	119.4167 Quanti	ity: 2/2 123% 😑)(

Click "Rotate180°" of "Rotate" on the tool bar.



Did the character items turn as shown below?

Design	Input Definitions	Table Format						
-30	-20 -10		20 30	40 	50 60	70 80	90 10	20 110
]	
10		L D	רחב	a A				
20			303					
30			9	1 2 3 4	L			
40								
CL4NX-J 12	Text (X21(17x17))		Y: 45.916	57, X: 73.3333	Quantity: 2/2	123% 😑 📙	· · · · · · · · · · ·

Until now the items are selected and rotated. The MLV5 can change the print direction so that you can create a label as usual and print it by turning by 90° or 270°.

For example, to print the label rotated by 90° or 270° from the normal direction (characters can be read normally) as shown below, you have to rotate the objects or you have to tilt your head to check the label balance.



To create a new layout, make settings as described below. Printer model:CL4NX-J 08 Label size:45 mm x 70 mm (height x width)

Click the arrow button at the top left to change the print direction.

Design Input Definitions Table Format	
	60
50	/
CL4NX-J 12 Unselected Y: -2.5000, X: 43	3.6667



When the arrow direction is 90° or 270°, the orientation of the paper is changed.

The arrow changes as shown below each time the button is clicked.



Design the label by setting the arrow direction to 90°, and print it.



Is the label printed in the direction shown below?



3. Starting a New Line

If there are too many characters in the print item and they cannot fit into the label area, you can start a new line and perform multi-line printing. Let's practice to start a new line easily.

For the text to paste

Click "Text" on the Objects pane.

🔀 Objects		
k	Select	
Α	Text	•
	Barcode	•
	2D code	•

Enter the characters before starting a new line.

Design Input Definitions Ta	ole Format
-30 -20 -10	0 10 20 30 40 50 60 70 80 90 100 110 0 100 100 100 100 100 110 100 110 ABCD ABCD <td< th=""></td<>
CLANX 112 Text (Aria)	V. 50 4167 V. 107 1667 Output the 1/1 1229
CL4NX-J 12 Text (Arial)	Y: 59.4167, X: 107.1667 Quantity: 1/1 123% 😑 💛

To start a new line, press the Enter key while holding down the Ctrl key.

Design Input Definitions Ta	le Format
CL4NX-J 12 Text (Arial)	Y: 29.9167, X: 55.3333 Quantity: 1/1 123% 😑 🚬 🕂 🕂

Enter the characters on the next line.

Design	Input Definitions	ble Format
	30 -20 -10	0 10 20 30 40 50 60 70 80 90 100 110
CL4NX-J 1	2 Text (Arial)	Y: 22.6667, X: 62.0000 Quantity: 1/1 123% 😑 💭 🕕

Enable the "Line feed" button on the Basic setting pane.

Basic settings	*
Item name: Text-1	
Data	
Paste 🔹	
ABCD FEG	
* Use the Ctrl+Enter keys to add LF.	
Font	_
Type: Windows fonts	-
Arial	•
Size (pt)	
H: 9 • W: Auto •	
BIUA Advanced	
Specify the area	

How does that look?

Could you start a new line?



When the "Line feed" button is disabled, you cannot start a new line on the Preview.

ABCDEFG	

You can also start a new line in character strings that have already been pasted.

Display the Basic settings pane for the text to paste.

Move the cursor to the point where you want to start a new line and press the Enter key while holding down the Ctrl key.

Basic settings	Basic settings 🔷
Item name: Text-1	Item name: Text-1
Data Paste •	Paste -
ABCDFEG	ABCD FEG
* Use the Ctrl+Enter keys to add LF.	* Use the Ctrl+Enter keys to add LF.
Font	Font
Type: Windows fonts 🔹	Type: Windows fonts 🔹
Arial	Arial
Size (pt)	Size (pt)
H: 9 • W: Auto •	H: 9 • W: Auto •
BILA Advanced	BIUA Advanced
Specify the area	Specify the area

Enable the "Line feed" button.

Basic settings		~
Item name:	Text-1	
Data		
Paste	•	
ABCD FEG		
* Use the C	Ctrl+Enter keys to add LF.	
Font		
Type: Wind	dows fonts	•
Arial		•
Size (pt)		
H: 9	• W: Auto •	
BI Specify th	L Advanced	

Could you start a new line?

For the input variable character

Click "Advanced..." on the Basic settings pane for the input variable character

Basic settings
Item name: Text-2
Data Variable •
Name: (Local) Name ····
Fill Pref.: Suffix:
Font
Type: Windows fonts 🔹
Arial
Size (pt)
H: 9 • W: Auto •
BIUA Advanced
Specify the area

Enable the "Line feed" button in "Adjust text" block on the Printer Font Settings screen.

Printer Font Settings	? ×	
Set the printer font.		
Character type: X20(5x9) Font size (zoom level) (x) Height: 1 Vidth: Adjust text B P P A B	1	
D Windows Font Settings		? ×
Set the Windows font.		
Font: Agency FB Algerian Arial Arial Rounded MT Bahnschrift Baskerville Old Face Bauhaus 93 Bell MT Bernard MT Font size (pt) Height: 11 Line feed settings Pitch between lines: 0 \$ (mm) Line feed character length: 0 \$ (mm) Forced line feed symbol: \$	Style: Normal Condensed Italic Condensed Italic Bold Condensed Bold Bold Italic Condensed Bold Italic Black Obliaue Effect setting Pitch between fixed characters Angle (horizontal direction reference, clockwise Character set: Standard character set	■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■
		OK Cancel

Setting items for Line-feed settings depend on the Font type.

·When Printer fonts are used

Set the "Pitch between lines" and "No. of line feed digits (Line-feed character length)" and then click "OK". The display, "No. of line feed digits" or "Line feed character length", depends on the font selected.

Line feed settings	
Pitch between lines:	1 🗘 (mm)
No. of line feed digits:	10 🗘 (digits)
Forced line feed symbol:	•

 $\cdot \text{When Windows fonts are used}$

Set the "Pitch between lines" and "Line feed character length", and then click "OK".

Line feed settings	
Pitch between lines:	1 🗘 (mm)
Line feed character length:	10. 🗘 (mm)
Forced line feed symbol:	•
Supported line feed symbols:	

Can you start a new line?

The line-feed method for "<u>Input variable character</u>" is also used for "<u>Text to paste</u>". Line feed is enabled using the Line-feed character length without using Ctrl+Enter.

4. Editing Characters

Up to now, we have printed entered characters and set characters as they are. In this section, we will edit the entered characters to make them easier to read or to enter them easily.

This example shows how to add "¥" and "," to the entered characters when printing the price.

Set variables for editing characters.

Add "Price" to the variable used in "2: Editing Entered Items and Editing the Print Screen".

Comma editing and currency editing

Open the layout and click "Add" in "Local Variable List" at the lower part of the screen.

Recal Variable List		4
D ¶ D D C Cut Copy Paste Delet	e Batch Search: Er	ter part of a variable name
Variable name Type	No. of digits	Details
Company Name Input	20	Input type: Character
Ame Input	10	Input type: Character
Phone No. Input	12	Input type: Character
		•
Local Variable List	🗳 Local Check Table Li	st 🔚 Local Graphic List

Select "Input".

D Variable Settings ?										
Set the variable settings.										
Input	In	put varia	ble type: Character	•						
Сору	Ec	dit paran	neters							
Join		Order	Edit items	Setting items	Setting details					
Sequence number	٠	1	Table conversion	No ··			*			
		2	Tax editing	No •						
Date		3	Comma editing	None -						
Calculation		4	Currency editing	No 🝷						
Combal		5	Justification editing	None -						
Symbol		6	Leading zero filling	No -						

Set "Setting items" for "Comma editing" on the "Edit parameters" tab to "Single-byte".

٠	D Variable Settings										
Se	Set the variable settings.										
1											
	Input	Input variable type: Character									
	Сору	Ec	dit paran	neters							
	Join		Order	Edit items		Setting items		Setting details			
	Sequence number		1	Table co	onversion	No					
			2	Tax edit	ing	No	•				
	Date	r	3	Comma	editing	Single-byte	•				
	Calculation		4	Currence	y editing	None					
	Control		5	Justifica	tion editing	Single-byte					
	Symbol		6	Leading zero filling		Double-byte					

Select "Setting items" for "Currency editing", check "Edit currency", select "¥" for "Character", and click "OK".

۵	D Variable Settings										
S	Set the variable settings.										
	Input		Inp	ut varia	able type: Character	•					
	Сору		Edit parameters								
	Join			Order	Edit items	Setting items	Setting details				
	Sequence number			1	Table conversion	No					
				2	Tax editing	No •					
	Date			3	Comma editing	None 🔹					
	Calculation		•	4	Currency editing	No •					
	Sumbol			5	Justification editing						
	Symbol			6	Leading zero filling	Edit currency					
				Character: ¥(U-		Character: ¥(U+0	00A5) -				
						🔲 Make blank if zer	o				
						OK	Cancel .::				

Enter "Price" in Variable name, set "8" in No. of digits, and click "OK". Then the variables are added.

Target character: Preview IIII After editing:		
Variable name: Price	No. of digits:	8 🗘
	ОК	Cancel

Are they displayed?

Image: Search Image: Search<	H	C Local	Variable	List										ф
Variable name Type No of digits Details	[A	dd Edi	🗂 t Insert	X Cut	Copy	Paste	🗱 Delete	Batch	Search: En	nter part of a variable n	ame 🔳 🗈	Help		
Variable hame hyper holor digits becaus		Variab	e name		Туре			No. of dig	gits	Details				
Company Name Input 20 Input type: Character		🕢 🖉	npany Na	me	Input				20	Input type: Character				
Name Input 10 Input type: Character		🛹 Nar	ne		Input				10	Input type: Character				
APhone No. Input 12 Input type: Character		🛹 Pho	ne No.		Input				12	Input type: Character				
APrice Input B Input type: Character	•	🛹 Pric	e		Input				8	Input type: Character				

Leading zero editing

If you wish to automatically add 0s (zeros) to the start of the character string, use "Leading zero editing".

Open the layout and click "Add" in "Local Variable List" at the lower part of the screen.

Cocal V	/ariable List										4
Add idit	M K Insert Cut	Copy Paste	🗱 Delete	Batch	Search: En	ter part of a variable na	ame 🔄	► He	elp		
Variable	e name	Туре		No. of dig	its	Details					
«Com	pany Name	Input			20	Input type: Character					*
🛹 Nam	e	Input			10	Input type: Character					
🛹 Phor	ne No.	Input			12	Input type: Character					
Price	2	Input			8	Input type: Character					

Select "Input".

D Variable Settings	D Variable Settings ? X							×
Set the variable setting	IS.							
Input	Inp	out varia	ble type: Character	•				
Сору	Edit parameters							
Join		Order	Edit items	Setting items	s Setting details			
Sequence number	•	1	Table conversion	No				*
Data		2	Tax editing	No	•			
Date		3	Comma editing	None	•			
Calculation		4	Currency editing	No	•			
Symbol		5	Justification editing	None	٠			
Symbol		6	Leading zero filling	No	•			

Set "Leading zero filling" on the "Edit parameters" tab to "Yes".

٦	D Variable Settings ? X							×	
S	et the variable setting	s.							
	Input	In	put varia	ble type: Character	•				٦
	Сору	E	dit paran	neters					
	Join		Order	Edit items	Setting items	Setting details			
	Sequence number		1	Table conversion	No			*	
			2	Tax editing	No 🝷				
	Date		3	Comma editing	Single-byte 🔹				
	Calculation		4	Currency editing	No 🝷				
	Sumbal		5	Justification editing	None 👻				
	Symbol	1	6	Leading zero filling	No				
					No				
					Yes				

Set "Leading zero filling" in Variable name, "10" in No. of digits, and click "OK". Then the variables are added.

	Variable name	Туре	No. of digits	Details	
	🛹 Company Name	Input	20	Input type: Character	
	🛹 Name	Input	10	Input type: Character	
	쟫 Phone No.	Input	12	Input type: Character	
	🛹 Price	Input	8	Input type: Character	
۲	쟫 Leading zero filling	Input	10	Input type: Character	

Set variables for "Price" and "Leading zero filling" to the print items using the procedure in "<u>2: Editing Entered</u> <u>Items and Editing the Print Screen</u>" and print it.

Preview of Editing Results

When editing ¥ Fill or Zero Fill in Variables, the results after editing can be checked in preview.

Double-click the variable "Price" created before.

Enter the original value in "Target character" and click "Preview". Then the value after "Comma editing" and "Currency editing" set in "After editing" is displayed.

Variable Settings		? ×					
Set the variable setting	5.						
Input	Input variable type: Character						
Сору	Edit parameters						
Join	Order Edit items Setting items Setting details						
Sequence number	Table conversion No ···	<u> </u>					
Date	2 Tax editing No * 3 Comma editing None *						
Calculation	4 Currency editing No •						
Symbol	5 Justification editing None						
	6 Leading zero filling No •						
Target character: Preview After editing:							
Target character: Preview III After editing:							
	Variable name: Price No. of digits: 8						
		OK Cancel					

When "1200" is entered, "¥1,200" is displayed.

Target character: 1200 Preview IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	I					
		Target character:	1200	Preview III	After editing:	¥1,200
	L					

5. Copying Characters

As practiced in the previous procedure, there may be a case to print with "¥" or "," filling for one and with "Zero Fill" for another for one Input item.

In this situation, use the variable "Copy" for editing.

"Copy timing" of "Copy" enables you to select when the target variable is to be copied, "Before editing" or "After editing". "Before editing copy" copies the value before editing such as the input value of input variables and "After editing copy" copies the value after editing the input value, using the settings for Edit parameters such as Comma editing.

We will now practice "Before editing copy" and "After editing copy".

Specify "Before editing copy" and "After editing copy" for one Input Variable.

Create a new layout.

Basic Settings
 Printer model: CL4NX-J 08
 Label size: 45 mm x 70 mm (height x width)

· Variable Settings

- (1) Variable name: PriceNumber of characters: 8Edit: "¥" editing, "Comma" editing, Right align
- (2) Variable name: Leading zero fillingNumber of characters: 10Edit: Leading zero editing, Right align

🔐 Local Variable List				д
Add Edit Insert Cut	Copy Paste Delete	Batch Search: En	ter part of a variable na	me I Help
Variable name	Туре	No. of digits	Details	
Herice Review	Input	8	Input type: Character	A
A Leading zero filling	Input	10	Input type: Character	
				Ψ
Figure 2 Cocal Variable List	🛂 Local Table List 🚦	Local Check Table Lis	st 🛛 🖾 Local Graphic Lis	t

Could you set the variables?

Before editing copy

Click "Add" in Local Variable List to display the Variable Settings screen.

Select "Copy" and "Before editing" for Copy timing.

۵	D Variable Settings				
S	et the variable setting	js.			
	Input	Copy timing: Before editing 🔻			
	Сору	Copy Edit parameters			
	Join	Copy variable:			
	Sequence number	Start position: 1 🗘 End position: 1 🗘			
	Date				
	Calculation				
	Symbol				

Select "Price" for Copy variable and set "Start position" to "1" and "End position" to "8".

0	D Variable Settings				
S	et the variable setting	5.			
	Input	Copy timing: Before editing -			
	Сору	Copy Edit parameters			
	Join	Copy variable: Price			
	Sequence number	Start position: 1 🗘 End position: 8 🗘			
	Date				
	Calculation				
	Symbol				

Enter "Copy Price Before Editing" in "Variable name", set "8" in "No. of digits", and click "OK". Then the variable is added.

Variable name:	Copy Price Before Editing	No. of digits:	8 🗘

After editing copy

Click "Add" in Local Variable List to display the Variable Settings screen.

Select "Copy" and "After editing" for Copy timing.

(D Variable Settings				
s	et the variable setting	15,			
	Input	Copy timing: After editing 🔻			
	Сору	Сору			
	Join	Copy variable:			
	Sequence number	Start position: 1 🗘 End position: 1 🗘			
	Date				
	Calculation				
	Symbol				

Select "Price" for Copy variable and set "Start position" to "1" and "End position" to "8".

(D Variable Settings				
s	et the variable setting	5.			
	Input	Copy timing: After editing 🔹			
	Сору	Сору			
	Join	Copy variable: Price 👻			
	Sequence number	Start position: 1 🗘 End position: 8 🗘			
	Date				
	Calculation				
	Symbol				

Enter "Copy Price After Editing" in "Variable name", set "8" in "No. of digits", and click "OK". Then the variable is added.

Variable name: Copy Price After Editing	No. of digits:	8 🗘
---	----------------	-----

Does it look like the screen shown below?

🔐 Local Variable List			4
Add Edit Insert Cut Copy Paste Dele	ete Batch	Enter part of a v	variable name
Variable name	Туре	No. of digits	Details
<i>🖉</i> Price	Input	8	3 Input type: Character
Leading zero filling	Input	10	D Input type: Character
Copy Price Before Editing	Сору	8	3 Copy timing: Before editin
 Copy Price After Editing 	Сору	8	3 Copy timing: After editing
Local Variable List Local Table List	볼 Local Check Table	List 🗔 Local	I Graphic List

Using the same method, add variables to "Before editing copy" and "After editing copy" for Leading zero filling.

Could you make settings as shown below?

Local Variable List			4
Add Edit Insert Cut Copy Paste Dele	ete Batch	Enter part of a	variable name
Variable name	Туре	No. of digits	Details
<i>🖉</i> Price	Input	8	Input type: Character
🥔 Leading zero filling	Input	10	Input type: Character
Copy Price Before Editing	Сору	8	Copy timing: Before editin
Copy Price After Editing	Сору	8	Copy timing: After editing
Copy Price Before Leading Zero Filling	Сору	10	Copy timing: Before editin
Copy Price After Leading Zero Filling	Сору	10	Copy timing: After editing
🖉 Local Variable List 🛛 A Local Table List	W Local Chark Table	List 🔽 Local	Cranhie Liet
			oraphic List

Reflect these settings in the layout design.

					1
	Copy Price Before Editing		(Copy Price After Edi	ting
		77777777	7	????????	
		??????????	? 7	??????????	
Copy Price Before Leading Zero Filling			Copy Price After L	eading Zero Filling	

Could you reflect the settings in the design?

Now we are ready to print.

Make sure to save the layout before closing the design. Save as "Copy Practice.mllayz".

6. Checking the Print Results

Double-click the layout file saved in the previous procedure.

The print screen of MLPrint starts.

Enter "1000" in "Price" and "5000" in Leading zero filling.

📔 🛅 + 🔚 🚳 + 🖶		Layout(Layout)[Reference mode] - SAT	ю
File Home Edit View			
Output DestinationStart PrintingCancel PrintingPreview	Data File ODBC	First Previous Next Last	/ 1
Print	Data	Page	
Price Leading zero filing 1000 5000			B
🔀 Filter 💀 Clear			_
T (All)			LŻ
No. Print quantity			
 Ⅰ 1 ↓ 		^	
*			

Does it look like the printout shown below?



This completes "3: Making Various Characters".

Useful Functions

Opening the screen from the layout file

You can open the print screen and design screen by right-clicking or double-clicking a file directly, as well as by opening it from the menu.

· Opening the print screen

Method 1. Double-click a layout file.

Method 2. Right-click a layout file, and then select "Open".



· Opening the design screen (MLDesign)

Right-click a layout file, and then select "Edit".



4: Creating Barcodes and Making Various Settings for Barcodes

Let's try creating a barcode and using various editing functions.

1. Creating a Barcode

In this section, we will set a fixed value and present a barcode. Also, we will add a description character to the barcode.

"Description character" is for alphanumeric characters and symbols written under a barcode to describe the content of the barcode. It has various notation methods for the barcode such as containing the entire content of the barcode or only part of the content.



JAN/EAN code

Create a new layout in MLDesign. Printer model: CL4NX-J 08

Label size: 45 mm x 70 mm (height x width)



Click "Barcode" on the "Objects" pane.

🕅 0	bjects	щ
	Select	
A	Text	•
	Barcode	►
	2D code	•
	Graphic	
86	Shape	
	Table	
۳°	Reverse	

Move the mouse cursor to the position you wish to print the barcode, and then click.

Design	Input Definitions	Table Format			
	80 -20 -10		30 40	50 	60
12					
20					
50					
CL4NX-J 1	2 Unselected		Y:	-2.5000, X: 43.	6667

The barcode is pasted.

Design Input Definitions Table Format	
-30 -20 -10 0 10	20 30 40 50 60
CL4NX-J 12 Unselected	Y: -2.5000, X: 43.6667

Make settings for "Basic settings" on the Properties pane.

Enter the barcode data in "Data", select "JAN/EAN13" in Type and "Yes (guard bar disabled)" in H.Readable in Barcode settings.

Basic settings	*
Item name:	Barcode-1
Data	
Paste	•
1234567890)12
Barcode setti	nas
Type:	JAN/EAN13 -
H.Readable:	Yes (guard bar disabled) 🔹 🛄
Height:	10 📮 (mm)
Level:	2 🗘 (x)

To set the font for the description character, click "…" to display the Barcode Description Character Font Settings

0010011.				ac beschption entitieter i ont bettings			
			Set the d	lescription character font for the barcode.			
H.Readable:	Yes (guard bar disabled)	->	Type:	Windows fonts	-		
			Font:			Style:	
				Microsoft YaHei UI		Normal	
				Microsoft Yi Baiti		Oblique	
				MingLiU_HKSCS-ExtB		Bold	
				MingLiU-ExtB		Bold Oblique	
				Mistral		* Italic	
				Modern No. 20		* Bold Italic	
				Mongolian Baiti			
				Monotype Corsiva			
				MS Gothic			
				MS Mincho	÷		
			Heigh	it: 9 • Width:	Auto •		
			Adjust	text ABC Pitch between characters: 0	(mm)		
			Descrip Vertica Horizo	al position: 1.25 \$ (mm)			
						ОК	Cancel

Open "Advanced settings" on the Properties pane and select "JAN/EAN (modulus 10)" in C/D add. If the entire data of 13 digits are input as data without C/D, select "No".

Advanced settings				
C/D add.:	JAN/EAN (modulus 10)	•)	

In "Attribute settings", numeric values can be set for the print position (unit: mm).

Attribute	settings	*
- Print po	sition (mm)	
V:	7.5 🗘 H: 7.5 🛟	
Rotate:	0° •	
Print:	Print Settings	
Save	to history	
Mouse o	peration: 📐	

Is the barcode displayed?



CODE39

Multi LABELIST V5 can automatically add start/stop codes used in some barcode types such as NW-7 and CODE39.

Add them to a layout you created in "JAN code".



Click "Barcode" on the "Objects" pane.

% 0	bjects	4
k	Select	
A	Text	•
	Barcode	►
	2D code	•
	Graphic	
82	Shape	•
	Table	
Ľ	Reverse	

Move the mouse cursor to the place you wish to print the barcode, and click the mouse.

Make settings for "Basic settings" on the Properties pane.

Enter the barcode data in "Data", and select "CODE39" in Type, "Yes" in H.Readable, and "2"in Level in Barcode settings.

Basic settings						
ltem name:	Barcode-2					
Data Paste •						
1234ABCD						
Remove trailing spaces						
Туре:	CODE39 -					
H.Readable:	Yes 🔹					
Height:	10 🗘 (mm)					
Level:	2 🗘 (x)					
Bar ratio:	1:2 Arbitrary Ratio					

Enter "*" in the Start code and Stop code of "Advanced settings".

If the input data includes the start and stop codes, select "No".

Advanced settings								
C/D add.:	No							
Start code:	* •							
Stop code:	* •							

In "Attribute settings", numeric values can be set for the print position (unit: mm).

Attribute	settings	*			
Print po	sition (mm)				
V:	25.5 🗘 H: 6.5 🗘				
Rotate:	0° •				
Print:	Print Settings				
Save to history					
Mouse o	peration:				

Is the barcode displayed?



2. Join

Some barcode may contain not only one character string, as practiced up to here, but multiple items in one barcode.

For example, in the JAN code, a barcode contains several items such as "Country code", "Manufacturer code", "Item code", and "CD".

To combine multiple items in one barcode, use a variable "Join".



Creating a JAN code using Join

Create a new layout in MLDesign.

Printer model: CL4NX-J 08

Label size: 45 mm x 70 mm (height x width)



Create variables using what we learned in "2-2. Creating a Variable".

- (1) Variable type: InputVariable name: Manufacturer codeNumber of digits: 5
- (2) Variable type: Input

Variable name: Item code Number of digits: 5

Could you make settings as shown below?

🚰 Local Variable List			џ
Add Edit Insert Cut C	Copy Paste Delete	Batch Search: Enter	r part of a variable name
Variable name	Туре	No. of digits	Details
Manufacturer Code	Input	5	Input type: Character
🕨 🛹 Item Code	Input	5	Input type: Character
🔐 Local Variable List 🧾	🕽 Local Table List 🛛 🕌	Local Check Table List	Local Graphic List

Then we can create a join item.

Click "Add" in Local Variable List.

Select "Join" on the Variable settings screen.

(D Variable Settings								
s	Set the variable settings.								
	Input		Select Cl	hild Items Edit					
	Сору		No.	Туре	Data	No. of	Attribute		
	Join		• *	•					
	Sequence number								
	Date								
	Calculation								
	Symbol								

Select "Fixed" in "Type" and enter "49" in "Data".

	Select Child Items Edit								
			No.	Туре		Data	No. of digits	Attribute	
			1	Fixed	•	49	2	Fixed character: 49	
		۲	*		•				
r									

Select "Variable" in "Type" and enter "Manufacturer Code" in "Data".

	Select Child Items Edit									
		No.	Туре		Data	No. of digits	Attribute		Add	
		1	Fixed	•	49	2	Fixed character: 49	*		
	I	2	Variable	•	Manufacturer Code 🔹	5	Variable type: Input, Input type: Ch.		<u>D</u> elete	
er		*		•						

Select "Variable" in "Type" and enter "Item Code" in "Data".

Se	lect C	hild Items [Edit					
	No.	Туре		Data		No. of digits	Attribute	
	1	Fixed	-	49		2	Fixed character: 49	*
	2	Variable	-	Manufacturer Code	٠	5	Variable type: Input, Input type: Ch	
۲	3	Variable	-	Item Code	•	5	Variable type: Input, Input type: Ch	
-	*		•					

Enter "Barcode" in "Variable name" and click "OK".

Variable name:	Barcode	No. of digits:	12 🌻

Could you enter variable items as shown below?

W	¹ Local Variable List 4							
Ad	d Edit Insert Cut d	Copy Paste Delete	Batch Search: Ente	r part of a variable name				
	Variable name	Туре	No. of digits	Details				
	🖉 Manufacturer Code	Input	5	Input type: Character				
	쟫 Item Code	Input	5	Input type: Character				
•	🕘 💼 Barcode	Join	12	Remove specified c				
-	🛕 Fixed character	Fixed	2	Fixed character: 49				
	🛺 Manufacturer Co	Input	5	Input type: Character				
	🛺 Item Code	Input	5	Input type: Character				
				•				
	Local Variable List	🌢 Local Table List 🛛 🕌	Local Check Table List	🖬 Local Graphic List				
Set the created "Join" in the barcode object shown below as data.

Barcode type: JAN/EAN13

Add description character: Yes (guard bar disabled)

C/D add: JAN/EAN (modulus 10)

Does it look like the screen shown below?



Now enter a "Manufacturer code" and "Item code", using MLPrint, and check the print results.

3. Sequential Numbers

You can add a sequential number to the label.

Depending on the layout of the label, sequential numbers such as serial numbers and lot numbers can be printed. In this section, we will practice how to add sequential numbers.

Create a new layout in MLDesign.

Printer model: CL4NX-J 08

Label size: 45 mm x 70 mm (height x width)

▲ -30 -20 -10 0 10 20 30 40 50	60
	luuluu
CL4NX-J 12 Unselected Y: -2.5000, X:	43.6667

Click "Add" in Local Variable List.

Select "Sequential number" on the Variable Settings screen.

(D Variable Settings ?								
s	Set the variable settings.								
	Input	Sequence number type: Numeric (layout)							
	Loin	Numeric (layout) Edit parameters Base n: Base 10							
	Sequence number	Sequence number range: 1 to 99 t							
	Date	Increment/decrement value: 1							
	Symbol	Count condition: Count every time specified number of prints Specify quantity: 1 sheets	5						
	Calculation Symbol	Sequence number details Count condition: Count every time specified number of prints Seq. no. save method: None	5						

Enter "1" to "999" in Sequence number range.

A sequence number can be changed in any steps for one count by changing Increment/decrement value. For example, when 2 is entered in Increment/decrement value, the result will be "1, 3, 5, 7, 9..."

۵	D Variable Settings ?							
s	Set the variable settings.							
	Input	Sequence number type: Numeric (layout) Input when print						
	Сору	Numeric (layout) Edit parameters						
	Join	Base n: Base 10 -						
	Sequence number	Sequence number range: 1 to 999 t						
	Date	Increment/decrement value: 1 🗘						
	Calculation	Sequence number details						
	Symbol	Count condition: Count every time specified number of prints Specify quantity: 1 sheets						
		Seq. no. save method: None						
		Initialize save value: None 🔻						

Enter "Sequence number-1" in Variable name and "3" in No. of digits and click "OK".

Variable name: Sequence number-1	No. of digits:	३ 🗘
----------------------------------	----------------	-----

To edit the Sequence number print such as "Justification", select the "Edit parameters" tab and make settings.

۵	D Variable Settings							
S	Set the variable settings.							
Input Sequence number type: Numeric (layout) - Input when print								
	Сору		umeric (l	ayout) Edit parameters				
	Join Order		Order	Edit items	Setting items	Setting details		
	Sequence number	٠	1	Comma editing	None 🔹			
	Date		2	Justification editing Leading zero filling	None • No •			
	Calculation							
	Symbol							

Could you make settings as shown below?

🔐 Local Variable List		щ
☐ ¶ ☐ A ☐ Edit Insert Cut Copy Paste Delete	Batch Search: Enter part of a variable name Help	
Variable name Type	No. of digits Details	
▶ 123 ▶ Sequence number- Sequence number	3 Sequence number type: Numeric (layout), Input: No	*
		-
🔛 Local Variable List 🗄 Local Table List	🗳 Local Check Table List 🛛 🗔 Local Graphic List	

Try to print the Sequence number that has been set.

Assign the created variable "Sequence number-1" to the text object.



Could you make the settings?

Enter the "Print quantity" in MLPrint and check the print.

4. Graphics

When printing labels and tags, you may need to print not only characters and barcodes but also images such as the company's logo or items being sold. To print graphics, select "Graphic" on the Objects pane.

To create Graphics in Multi LABELIST V5, you need to prepare graphic files in BMP format in advance. Create graphic files using applications such as Windows "Paint" or other commercially available image editing software.

Create a new layout in MLDesign. Printer model: CL4NX-J 08 Label size: 45 mm x 70 mm (height x width) Pesign Input Definitions Table Format

CL4NX-J 1	2 Unselected	Y: -2.5000, X: 43.6667

Click "Graphic" on the Objects pane.

🞇 Objects						
	Select					
A	Text	•				
	Barcode	•				
	2D code	►				
	Graphic					
82	Shape	•				
	Table					
	Reverse					

Move the mouse cursor to the place you wish to print the graphic and click the mouse.



The file selection screen is displayed. Select the graphic file that has been made and click "Open".



The selected graphic is pasted.

Design	Input Definitions Table Format	
	30 -20 -10 0 10 20 30	40 50 60
CL4NX-J 1	2 Unselected	Y: -2.5000, X: 43.6667

Details for the graphics can be set on the Properties pane.

It is not necessary to change the settings in this case, but it is recommended to try various settings.

Basic settings
Item name: Graphic-1
Graphic
Paste •
File name:
Method: Capture to layout
Paint
Advanced settings
Print method Specify area
Size (mm) Image: Maintain aspect ratio Restore Size
Height: 1.75 🛟
Width: 9.5 🛟
Vertical align:
Horizontal align: 📃 🧮
Image correc Simple binary
Stretch mode Standard 🔹
Attribute settings
Print position (mm)
V: 7.5 CH: 6.5 C
Rotate: 0° •
Color: Black -
Print: Print
Save to history
Mouse operation:

Print the label of the created layout in ML by entering the value in the Print quantity.

5. Date

You can use the variable "Date" to print a best-before date for food products or a production date. The date is printed referring to the Calendar on your computer.

Create a new layout in MLDesign. Printer model: CL4NX-J 08 Label size: 45 mm x 70 mm (height x width)



Click "Add" in Local Variable List.

Select "Date" on the Variable Settings screen.

D	D Variable Settings								
Se	Set the variable settings.								
	Input Copy Join Sequence number Date Calculation Symbol	Date Date Print format: Passed value:	None						•

Click "..." in "Print format".

(D Variable Settings								
s	Set the variable settings.								
	Input	Input when print							
	Сору	Date							
	Join	Print format:							
	Sequence number	Passed value: None	•						
	Date								
	Calculation								
	Symbol								

The Edit Data and Time Format screen opens. Select "Format".

Sample format patterns are displayed.

You can select a format from the list of patterns or input the date, referring to "Format list".

w format. Fixed characters can als endar year (4 digits) endar year (2 digits) endar year (2 digits, right justified) endar year (1 digit) lendar year (2 digits)	Format %YYYY% %YYY% %YY% %YY% %Y% %Y%	Example 0000 to 9999 00 to 99 0 to 99 0 to 99 0 to 9	
endar year (4 digits) endar year (2 digits) endar year (2 digits, right justified) endar year (1 digit) lendar year (2 digits)	Format %YYYY% %YY% %YY% %Y%	Example 0000 to 9999 00 to 99 0 to 99 0 to 99 0 to 9	•
endar year (4 digits) endar year (2 digits) endar year (2 digits, right justified) endar year (1 digit) lendar year (2 digits)	Format %YYYY% %YY% %YY% %Y%	Example 0000 to 9999 00 to 99 0 to 99 0 to 99 0 to 9	* H
endar year (4 digits) endar year (2 digits) endar year (2 digits, right justified) endar year (1 digit) lendar year (2 digits)	Format %YYYY% %YY% %YY% %YY% %Y% %Y%	Example 0000 to 9999 00 to 99 0 to 99 0 to 99 0 to 99	*
endar year (4 digits) endar year (2 digits) endar year (2 digits, right justified) endar year (1 digit) lendar year (2 digits)	%YYYY% %YY% %YY% %Y% %Y%	0000 to 9999 00 to 99 0 to 99 0 to 99 0 to 9	* H
endar year (2 digits) endar year (2 digits, right justified) endar year (1 digit) lendar year (2 digits)	%YY% %_Y% %Y%	00 to 99 0 to 99 0 to 9	E
endar year (2 digits, right justified) endar year (1 digit) lendar vear (2 digits)	%_Y% %Y%	0 to 99 0 to 9	Ξ
endar year (1 digit) lendar vear (2 digits)	%Y%	0 to 9	
lendar vear (2 digits)	0/3/3/0/		
	%XX%	1 to 99	
	%MM%	1 to 12	
gits)	%0M%	01 to 12	
gits, right justified)	%_M%	1 to 12	
abet characters)	%MMM%	Jan/Feb/Mar/Apr/	
	%DD%	1 to 31	
5)	%0D%	01 to 31	
s, right justified)	%_D%	1 to 31	
3 digits)	%03JD%	001 to 366	-
		•	
	igits, right justified) habet characters) s) s, right justified) (3 digits) ""	igits, right justified) %_M% habet characters) %MMM% %DD% s) %0D% (3 digits) %03JD% ////////////////////////////////////	igits, right justified) %_M% 1 to 12 habet characters) %MMM% Jan/Feb/Mar/Apr/ %DD% 1 to 31 s) %0D% 01 to 31 s, right justified) %_D% 1 to 31 (3 digits) %03JD% 001 to 366 ///////////////////////////////////

Set "Western calendar year (4 digits)", "Month (2 digits)", and "Day (2 digits)".

Double-click the selected format on the Format list to display it in "Format" and click "OK".

D Edit Date and Time Format				?	\times
Select the preset format that will be the base an	nd the	n create a new format. Fixed characters can also	be entered.		
Format	Sa	mple			
%YYYY%/%MM%/%DD%	20	019/12/20			
%YYYY%年%MM%月%DD%日	Fo	rmat list			_
%YYYY%-%MM%-%DD%		Content	Format	Example	
%YYYY%/%MM%/%DD%	•	Western calendar year (4 digits)	%YYYY%	0000 to 9999	*
%YY%年%0M%月%0D%日		Western calendar year (2 digits)	%YY%	00 to 99	
%XX%年%0M%月%0D%日		Western calendar year (2 digits, right justified)	%_Y%	0 to 99	=
%WW%曜日		Western calendar year (1 digit)	%Y%	0 to 9	
%ww%-%0D%-%0M%		Japanese calendar year (2 digits)	%XX%	1 to 99	
%HH%時%FF%分		Month	%MM%	1 to 12	
%HH%:%FF%		Month (2 digits)	%0M%	01 to 12	
%0H%:%0F%		Month (2 digits, right justified)	%_M%	1 to 12	
%2H%:%FF%		Month (alphabet characters)	%MMM%	Jan/Feb/Mar/Apr/	
% 2 2 2 4 () () () () () () () () () (Day	%DD%	1 to 31	
%MM% E%SN%		Day (2 digits)	%0D%	01 to 31	
		Day (2 digits, right justified)	%_D%	1 to 31	
		Julian date (3 digits)	%03JD%	001 to 366	-
	•			•	
				OK Cance	

Enter "Today" in "Variable name" and click "OK".

D Variable Settings		?	×
Set the variable settings.			
Input Input when	print		
Copy			
Join Print format:	%YYYY%/%MM%/%DD% ····		
Sequence number Passed value:	None		
Date			
Calculation			
Symbol			
Variable name:	Ioday	10 ,	
	ок	Cance	1

Could you make settings as shown below?

	Variable name	Туре	No. of digits	Details
1	™ Sequence number-	Sequence number	3	Sequence number type: Numeric (layout), Input: No
+	🗿 Today	Date	10	Date and time: Base date, Format: %YYYY%/%MM%/
				*
	Local Variable List	🛓 Local Table List 🚦	🔮 Local Check Table Lis	it 🔄 Local Graphic List

Add the setting to display the date three days after with the Variable name of "After 3 days", using the same method as above.

Click the column of "Passed value:" and make settings shown below.

Add the passed value: Enabled

Passed value type: Fixed

Pass direction: Future

Pass date and time: 3 Day

When you complete settings, click "OK".

	Nee
assed value:	
	Add the passed value
	Passed value type: Fixed 🔹
	Fixed
	Pass direction: Future Past
	Passed date and time: 0 🗘 Year 0 🗘 Month 3 🗘 Day 0 🗘 Hoi
	Variable
	Year: (No addition)
	Month: (No addition)
	Day: (No addition)
	Time: (No addition)
	Minute: (No addition)

"Passed value" is the value to show how many days and hours have passed after the date and time that have been set (based on the computer's calendar in this case). Entering the above values, the date added the passed value will be displayed and printed.

Enter "After 3 days" in Variable name and click "OK".

C	Variable Settings		?	×
Se	et the variable setting	gs.		
1	Input	Input when print		
	Сору	Date		
	Join	Print format: %YYYY%/%MM%/%DD% ····		
	Sequence number	Passed value: Fixed (Direction: Future, Year: 0, Month: 0, Day: 3, Hour: 0, Minute: 0)		
	Date			
	Calculation			
	Symbol			
	ſ	Variable name: After 3 days	10 🕽	
	L			
		ок	Cancel	

Could you make settings as shown below?

Hacal Variable List			4
Add Edit Insert Cut	Copy Paste Delete	Batch Search: En	ter part of a variable name
Variable name	Туре	No. of digits	Details
O Today	Date	10	Date and time: Base date, Format: %YYYY%/%MM%/%DD%
After 3 days	Date	10	Date and time: Base date, Format: %YYYY%/%MM%/%DD%
Placal Variable List	Local Table List	🗳 Local Check Table Lis	st 🔚 Local Graphic List

Reflect the settings in the Print Items.

To set the titles "Today" and "After 3 days", set the text to paste and place the characters to which the variables are assigned on the right of each text string.

Design	Input Definitions	Table Format							
	-30 -20	-10 0 1111	10 20	30 40	50	50 70	80 111 111 11	90 111111	100
10		· ·	Today	?????	?????				
20									
30			After 3 days	?????	?????				
40									
50									
CL4NX-J 0	8 Unselected			Y: 54.0000, X:	72.7500 Q	uantity: 0/4	133% 😑 -	<u>.</u>	, Đ

Could you reflect the settings in the print items?

Enter the Print quantity in MLPrint and print the label. Does the print result look like the screen on the left?

Today	2019/1/1
After 3 days	2019/1/4

This completes "4. Creating Barcodes and Making Various Settings for Barcodes".

5: Creating Tables

The "Table" function enables you to convert a value, using the input value as a key.

In this section, we will practice creating a table.

1. Creating a Table

Create a new layout in MLDesign. Printer model: CL4NX-J 08 Label size: 45 mm x 70 mm (height x width)



Click the "Local Table List" tab at the lower part of the screen and click "Add".



Enter the table items.

D Register Table	? ×
Edit <u>V</u> iew <u>D</u> ata <u>T</u> ools	
Insert Cut Copy Categories Categories Search: Enter part of the data	
Table type: ML table • AB Field Input Permission Item Type: Alphabet • Disable Mask Delete all trailing space characters	5
Table Name: 🚺	
No. Conversion value Conversion range Condition Conversion A Conversion B Conversion C	Conve
• * ·	*
Ine setting item input field switches between enabled and disabled depending on the table type.	
ОК	Cancel

Base information for tables

Item	Description
Input Permission Item Type	Select "Numeric" or "Alphabet" that is to be set in "Conversion value".
Conversion value	Enter the value used as the key to recall the table when printing.
Conversion range	To specify the range such as "Convert the value from 10 to 20 to something", enter the last value of the range. Example) To convert 10 to 20, set "Conversion value: 10" and "Conversion range: 20".
Condition	Select "= (equal)" or "< > (not equal)".
Conversion A	Enter the content for the entered Conversion value.

Enter "Table" in Table Name and the values in Conversion value, Condition, Conversion A.

	Tal	ble N	lame: Table							
	1	No.	Conversion value	Conversion range	Condition	Conversion A	Conversion B	Conversion C	Conve	
)		1	01		=	Blue				*
		*			-					

Enter as shown below.

When you complete entering the required data, click "OK".

D Regis	ster Table					?	,	×	
<u>E</u> dit <u>V</u> iew <u>D</u> ata <u>T</u> ools									
Indo Redo Insert Cut Copy Paste Delete Capture Output									
Table type: ML table									
Table N	lame: Table								
No.	Conversion value	Conversion range	Condition	Conversion A	Conversion B	Conversion C	Conve	•	
1	01		- •	Blue				*	
2	02		- •	Red					
• 3	03		- •	Yellow					
•									
🛕 The	e setting item input fiel	ld switches between en	abled and disabled dep	pending on the table typ	oe.				
OK Cance									

Could you add a table as shown below?

LA Local Table List ♣								
Add Edit Copy Past	Image: Copy Paste Delete Import Export Search: Import Export							
Table name	Table classification	Table type	No. or registered r					
▶ Table	Alphabet	ML table	3					
Relocal Variable List	1A Local Table List	K Local Check Table Lis	List 🕞 Local Graphic List					

2. Creating Table Variables

In this section, we will assign the table we created to a variable.

Click the "Local Variable List" tab at the lower part of the screen and click "Add".

ļ	the los	l Variable I	List										4
	Add E	it Insert	X Cut	Copy P	aste Dele	lete Batch	Search: E	inter part of a variable r	name	•	? Help		
Ï	Varia	ble name		Туре		No. of digits	Details						
													•
H			_										•
	🔐 Loc	al Variable	List	14 Local	Table List	🕌 Local Ch	eck Table Li	ist 🛛 🖾 Local Graphic I	List				

Select "Input". Then select "Character" in Input variable type and click "Setting items" of Table conversion.

۵	D Variable Settings								
S	Set the variable settings.								
Input Variable type: Character 🔹									
	Сору		Ed	lit param	neters				
	Join		Order		Edit items	Setting items		Setting details	
	Sequence number		۲	1	Table conversion	No			
	Dete			2	Tax editing	No	•		
	Date			3	Comma editing	None	•		
	Calculation			4	Currency editing	No	•		
	Cumbral			5	Justification editing	None	•		
	Symbol			6	Leading zero filling	No	•		

Enable the check box "Convert table", select "Table" in Table name (table created in <u>5-1. Creating a Table</u>) and "A" in Cell item ("Conversion A" when creating a table), and click "OK".

D Table Conv	ersion	?	×				
First select whether to convert the table. If the table will be converted, set the table conversion settings.							
🗹 Conver <u>t</u> t	able						
Table convers	ion settings						
Table type:	Local						
	C Global:						
Table name:	Table		•				
Cell item:	Α -						
	Use other variable value for table conversion key:						
			-				
	ОК	Cance	2				

Enter "Table" in "Variable name", set "2" in "No. of digits", and click "OK".

Variable name:	Table	No. of digits:	2 🗘

Are the variables set as shown below?

Hereit Cocal Variable List			4
Add Edit Insert Cut o	Copy Paste Del	ete Batch	Search: Enter part of a variable name
Variable name	Туре	No. of digits	Details
🕨 🛹 Table	Input	2	Input type: Character
🖀 Local Variable List 🛓	💲 Local Table List	🕌 Local Ch	eck Table List 📃 Local Graphic List

This can now be reflected in the design.

3. Reflecting a Table in the Layout Design

Click "Text" on the Objects pane and click the position on the Design screen where you want to print.



Drag and drop the "Table" created before to the text object on the Design screen.



When the text "Error" changes to "??", the assigning of the variable is completed.

Design Input Definitions Table For	nat		
	40 50 60 70 80	90 100 110 12	0 130 140
20			
30			E
40			
50			
			· ·
CL4NX-J 12 Text (MS Gothic)	Y: 62.0000, X: 108.4	167 Quantity: 1/1 123% 🤤	• • • • • • • • • • • • • • • • • • •

To make the text larger, change the Size of Font on the Properties pane.

Basic settings	*
Item name: Text-1	
Data	
Variable 🔹	
Name: (Local) Table ···	•
Fill Pref.: Suffix:	
Font	
Type: Windows fonts	
MS Gothic -	
Size (pt)	-
H: 50 • W: Auto •	
BIUA Advanced	
Specify the area	_

Does it look like the screen shown below?



You can now save the file with the name "Table", print it, and check the results.

4. Entering Table Items and Printing

Select a layout file created and double-click it.

📕 🛃 📊 🖛 sato		_		×			
File Home Share			~ 🕐				
\leftarrow \rightarrow \checkmark \uparrow Windo.	> sato 🗸 🤞	5	Q	Search s			
📃 Desktop 🖈 ^ 🛛 N	lame						
🕂 Downloads 🖈 🛛 🍋	👹 Layout.mllayx						
🔮 Documents 🖈 🛛 🕴	Layout2.mllayx						
📰 Pictures 🛛 🖈 🛛 🕴	👹 Barcode.mllayx						
🁌 Music 🛛 🖈 !	Sequence.mllayx						
sato	Save history.mllavx						
Videos	👹 Table.mllayx						
	🕷 Check table.mllayx						
 OneDrive < 				>			
7 items 1 item selected 0 bytes							

The Print screen is displayed.

📔 🖿 - 🖪 🚳 - 🚔 - 🗉		Layout(Layout)[Refe	rence mode] - SATO	Multi LABELIST V5	Trial[MLPrint]			-	- 0	\times
File Home Edit View										۵
Output Destination Printing Printing	ata Fije ODBC First	Previous Next Last	Page:	Print Print Action Setting	Sequence Num Settings	ber				
Print	Data	Page			Settings					
Table			6	Base date						4 ×
-			E	ase date:	2019/12/1	3			-	
Filter To Clear				Print Preview						4 ×
(All) De Print quantity										
			*	44 4 6 6	Þ.					
Search: Enter a search string.	Standard	(100%) 100% 😑	. (→	Page: 0/0				100% 🖯		
😰 Data List 📄 Output Log 🔓 Error List										
F1: Help F2: Open F3: Find Nex	ext F4: Print	F5: Preview F6:	Access data F7	Access file F	8: List input		F10: Sequence	F11: Operation	F12: Exit	

Enter the table items and check the result.

Select "01" in "Table". Then "Blue" is printed.





Select "02" in "Table". Then "Red" is printed.



Select "03" in "Table". Then "Yellow" is printed.



This completes "5: Creating Tables".

6: Setting the Input Check Table Function

When you intend to perform various checks on the entered data, use the "Input Check function". To limit the input value to that registered in the table, use the "Check Table".

We will now practice making settings for the input check table.

1. Creating a Check Table

Create a new layout in MLDesign. Printer model: CL4NX-J 08 Label size: 45 mm x 70 mm (height x width)

Design	Input Definitions	Table Form	nat				
	30 -20 -10		10	20 30	40	50	60
							1
	Í						
~							
20							
30							
40							
	l					J	
50							
Ē							
CL4NX-J 1	2 Unselected				Y: -2.50	000, X: 43.6	667

Click the "Local Check Table List" tab at the lower part of the screen and click "Add".



Enter the check table items.

D Register Check Table	?	×
Edit View Data Tools		
Image: Construction of the data Image: Construction of the data Image: Construction of the data Image: Construction of the data Image: Construction of the data Image: Construction of the data		
Input Permission Item Type: Alphabet		
Table name: 0		
No. Value 1 Range 1 Condition 1		
		-
		*
Iest Check condition: 1 Data: Test		
ОК	Cance	4

Base information for a Check Table

Item	Description
Input Permission Item Type	 Select "Numeric" or "Alphabet" that is to be set in "Value x". Numeric: Enter a number from 0 to 9 as the valid value. Alphabet: Enter Chinese characters and alphanumeric characters as the permissible value.
Value 1	Enter the value to perform the input check when printing.
Range 1	To specify the range, enter the last value of the range. For example, to specify the range 10 to 20, set "Value: 10" and "Range: 20".
Condition 1	Select "= (equal)" or "< > (not equal)".

Enter "Check Table" in Table name and set "Value" and "Condition" as shown below.

D Register Check Table	?	×
<u>E</u> dit <u>V</u> iew <u>D</u> ata <u>T</u> ools		
Insert Cut Copy Paste Delete Capture Output		
Input Permission Item Type: Alphabet		
Table name: Check Table		
No. Value 1 Range 1 Condition 1		
1 Meguro = 👻		*
2 Shibuya =		
3 Shinjuku = 👻		
4 Ikebukuro = 🔹		
		-
Tart		
		_
Check condition: 1 • Data:		
ОК	Cance	el 📄

2. Creating a Variable for the Check Table

In this section, we will assign the check table we created to a variable.

Click the "Local Variable List" tab at the lower part of the screen and click "Add".

Loc	cal Va	ariable l	ist									
D Add	1 1 dit	nsert	X Cut	Copy	Paste	X Delete	Batch	Search: Ente	r part of a variable na	ame	۲. He	elp
Varia	able	name		Туре		N	o. of digits	Details				
			_									
🔐 Loo	cal Va	ariable l	List	1A Loc	al Table	List 1	🗳 Local Ch	neck Table List	🗔 Local Graphic Li	st		

Select "Input". Then select "Character" in Input variable type.

D Variable Settings								
Set the variable setting	Set the variable settings.							
Input Variable type: Character -								
Сору	Edit parameters							
Join		Order	Edit items	Settir	ng items	Setting details		
Sequence number	•	1	Table conversion	No				
Data		2 Tax editing		No	•			
Date		3	Comma editing	None	• •			
Calculation		4	Currency editing	No	•			
Sumhal		5	Justification editin	g None	• •			
Symbol		6	Leading zero filling	g No	•			

Enter "Check Table" in Variable name, set "6" in No. of digits, and click "OK".

Variable name:	Check Table	No. of digits:	6	;

Are the variables set as shown below?

🚰 Local Variable List			4
Add Edit Insert Cut	Copy Paste De	k 🗟	Search: Enter part of a variable name
Variable name	Туре	No. of digits	Details
Check Table	Input	6	Input type: Character
	11	14	
Local Variable List	🛓 Local Table List	: 🗳 Local Ch	eck Table List 🔚 Local Graphic List

This can now be reflected in the design.

3. Reflecting Variables Created in the Layout Design

Click "Text" on the Objects pane and click the position on the design screen where you want to print.



Drag and drop the "Check Table" created before from the Local Variable List to the text object on the Design screen.

D 🗁 • 🖶 🤊 • C • 🔹	Layout(Layout)* - SATO Multi LABELIST V5 Trial[MLDesign]
File Home Design	
● Undo → Cut Select All C Redo □ Copy Select All □ Paste □ Copy □ Copy	Posițion Rotate Order Group Zoom Zoom Screen In Out Size Unit of Rotate Rotate Order Group Zoom Screen
	Layout Zoom View Settings
Coluct *	Design Input Definitions Table Format
▲ Text 0 Image: Barcode 0 Image: Barcode 1 Image: Docode 1 Image: Constraint of the second se	
-	
	⁰ = *
Hariable List	±
Add Edit Insert Cut Copy Paste	Image: Search: Enter part of a variable name Delet Batch Image: Search: Enter part of a variable name Image: Search: Enter part of a variable name
Check Table Input	6 Input type: Character

When the text "Error" changes to "?????", the assigning variable is completed.



Are they displayed?

Then change the screen to "Input Definitions" and make input check settings.

4. Making Input Check Settings

Click the "Input Definitions" tab at the top of the layout screen to switch the screen.

Design	Input Definitions	Table Format
	altie C	
No.	Print quantity	
1	XXXXXX	
2	2	

Click the item for which the input check is to be set.

Design	Input Definitions	Table Format
No. 1	Print quantity XXXXXX 2	
	n I	

Click "Input check" on the Properties pane to open the setting screen.

Basic settings		*	ĥ
Item name: Check Ta	able		
Type: Header Tar	rget: Local variable		
Input item			
ltem name display:	Display at top of inp	•	
Table display:	No		
Edit display:	No		
Input check:	No		
Input digit limit:	No	•	
Font			

Enable the check box "Perform input check", select "Check table" in Other check type and Table name (created in <u>6-1. Creating a Check Table</u>) and "1" in Condition ("Value 1" when registering a check table), and click "OK".

D Input Check	?	\times
First select whether to perform an input check. If an input will be performed, set the basic settings of the input check and the other check settings.	neck	
Perform input check		*
Input type: Do not check Display error if <u>n</u> ot input		
Display error if all digits are not input Other Check Settings		*
Other check type: Check table Advanced settings Table type: Occal Global:		
Table name: Check Table Condition: 1		
ОК	Cancel	

When you return to the Input Definitions screen, click "Print Action" on the upper part of the Home ribbon.



The "Print Action Settings" screen opens. Click "Input settings", check the check box of "Check data during input", and click "OK".

D Print Action Settings			?	×
Set the action for when data is	nput from the Print dialo	g box.		
Print action Input settings Header/tail label output Error processing Other	Timing for displaying i Header area: When Row area: When Check data during in Move to <u>n</u> ext item w	initial value of input item screen displayed focus moves to input item put hen maximum no. of digits for the data have been en	tered	•
		ОК	Cance	el

When you have finished making settings, save the file with a new name such as "Check table", and check the results on the Print screen.

5. Checking the Input Check Function on the Print Screen

Select a Check Table file created and double-click it.



The Print screen is displayed.

🔁 i 🗁 - 📰 🧯	🔊 • 🖨 • =		Layout(Layout)[Re	eference mode] - SATO I	/Julti LABELIST V5 7	Trial[MLPrint]		-	٥	×
File Ho	ome Edit View	1								۵
Output Destination	Start Cancel Printing Printing	review Data File OC	DBC First Previous Next L	Page: ast 1/0	Print Print Action Settings	Sequence Number Settings				
	Print	Data	Page		Se	ettings				
Check Table					Base date					Ψ×
				Ba	ase date: 🛛	2019/12/13			- [-
Filter	💀 Clear				Print Preview					Ŧх
T (All	l)									
No. Print	it quantuty			, II		Þ		(in 10) 1000 (in 10)		
Search: Enter a	a search string.		Standard (100%) 100% 😑	(+) Pa	ige: 0/0			100% 🖯		
Data List	Output Log	r List	t FE Denviou	F6. A	A	Listing PAN	F10. Carry	E11. Occurtion	F12, F	
i i neip	r2: Open	13.1 MO Next F4: Ph	n PD: Preview	FO: Access data F7: 7	Access me 188	cost input r9: Nex	Sato printer	CL4NX-J 12	Driver name	0

Enter the value in the input check table, and check whether any values that have not been registered to the "Input check table" will return an error.

The values shown below are entered in the input check table.

	No.	Value 1	Range 1	Condition 1	
۲	1	Meguro		=	•
	2	Shibuya		=	-
	3	Shinjuku		=	•
	4	lkebukuro		=	•

When "Meguro" is entered in the check table, it is enabled to input.

	Print	Data	Page	_
Check Table Meguro	Print	Uata	rage	B
Filter	Clear			
No. Prir	of quantity			

If "Osaki" is entered in the check table, it is checked and an error message of Input Check is displayed.

FIIIL	Data	rage	
Check Table Osaki		Ba	
	MLPrin	t	×
	4	Input check 'Check table' error.	
Filter ≅ Clear		ОК	
T (All) No. Print quantity 1 1			

This completes "6. Setting the Input Check Table Function".