

# **THERMAL PRINTER OPERATION MANUAL**

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## PACKING DETAILS:

- **Printer** ----- **1 SET**
- **Paper** ----- **1 ROLL**
- **Adapter** ----- **1 PC**
- **Software** ----- **1 PC**
- **Manual** ----- **1 PC**
- **Cable: printer to computer**----- **1 PC**
- **Cable: printer to scale** ----- **1 PC**

# 1. BASIC RULES FOR OPERATING THE PRINTER

**! FOLLOW INSTRUCTIONS CLOSELY  
! MAY CAUSE DAMAGE TO THE UNIT**

- The printer is operated ONLY with its own DC adapter.
- When inserting the paper roll be careful not to let any pins, paper clips or other hard objects fall inside the printing mechanism.
- Do not spill liquids of any kind on the device.
- Print only on thermal label paper-rolls.
- Don't force paper out from the printing mechanism.
- Should the printer behave unusually during operation immediately turn it off!
- Printer repairs are performed only by service technicians. Do not attempt to repair the unit yourself.

***ATTENTION!*** *The printer operates with paper rolls with sizes:*

- *roll with labels: width 58-110mm*
- *maximum diameter of roll: 100 mm*

## 2. OUTER VIEW OF CONTROL

### 2.1. General description of the printer

The printer is designed to print all sized labels(1-4inch) and large paper storehouse. It is particularly useful when printing information, arranged in a template form, which has to be partially modified under customer demand.

The memory of the printer contains a command file which stores data for the arrangement and design of the separate graphic elements, easing your work considerably when you have to print a greater number of labels. The built-in 2 matrix fonts with different sizes, as well as the freely selectable option for additional scaling and rotation, gives you greater freedom in designing the inscriptions on your labels. If those fonts do not

satisfy your requirements you are free to load additional fonts in the memory of the device.

The device may be used to print information from Windows (Word, Notepad or other programs) after the installation of the necessary driver.

In conclusion, the printer offers fast and flexible printing at a quality which is very similar to that of most contemporary laser printers (printing density - 203 dpi).

## **2.2. Indicators:**

<b>POWER</b>	Lights in green when printer is ON.
<b>ERROR</b>	Normally when printer is ON it is active.
<b>PAPER</b>	ON during normal printer status. Lights in red when paper is over and blinks in red if no label is found.

## **2.3. Specifications:**

Print mode: thermal print.

Speed of print: 70mm/s

Paper size:58-110mm can be selected

Life of printing head:50km

Interface:RS-232,USB

Power: 24VDC/2A

Weight of printer : about 1000g ( without paper )

Work temp. : 0— 50 °C

Label Editor: design label by yourself

Available scale : weight scales, counting scales, price-computing scales.

## **3. Detailed description of the SOFTWARE**

### **3.1. Install the software**

Press click



2.NLP Printer editor.exe

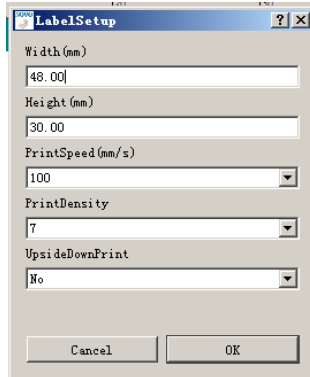
to run the software.

### 3.2. Choose language of software.



### 3.3. Set the label size.

Press the “Edit” and select the “Label Setup” on the drop down list,or press



the icon



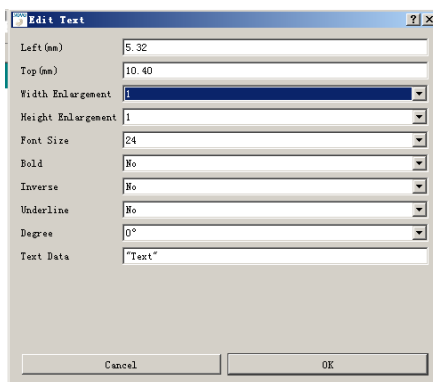
Now can design the width and height of the label.

### 3.4. Working with text:

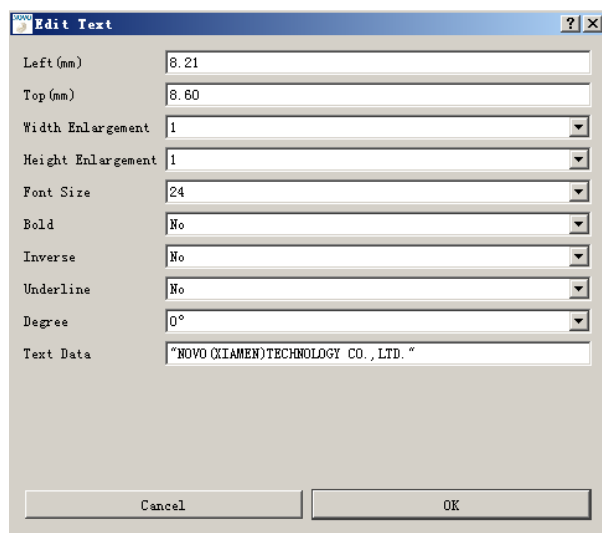
Press



,



**Example:**



### 3.4.1. Setting date and time

Press , ,

1. Date code is TD, not use "

Left (mm)	11.80
Top (mm)	19.46
Width Enlargement	1
Height Enlargement	1
Font Size	24
Bold	No
Inverse	No
Underline	No
Degree	0°
Text Data	TD

Cancel OK

2. Time code is TT

Left (mm)	11.80
Top (mm)	19.46
Width Enlargement	1
Height Enlargement	1
Font Size	24
Bold	No
Inverse	No
Underline	No
Degree	0°
Text Data	TT

Cancel OK

**Note:** 1) no need “ ”

### 3.5. Working with variables and counters

**Define Variables and Counters**

☒ Variables  
☐ Counters

Length:   
 Justify:   
 Fill char:   
 Prompt:   
 Value:

New From Printer  
 Delete Delete All  
 Cancel OK

Press New to set variables :

Here provide scale's variables:

### 3.5.1 Counting scale:

**Define Variables and Counters**

☒ Variables  
☐ Counters

Length:   
 Justify:   
 Fill char:   
 Prompt:   
 Value:

V0  
 V1  
 V2  
 V3  
 V4  
 V5  
 V6


New From Printer  
 Delete Delete All  
 Cancel OK

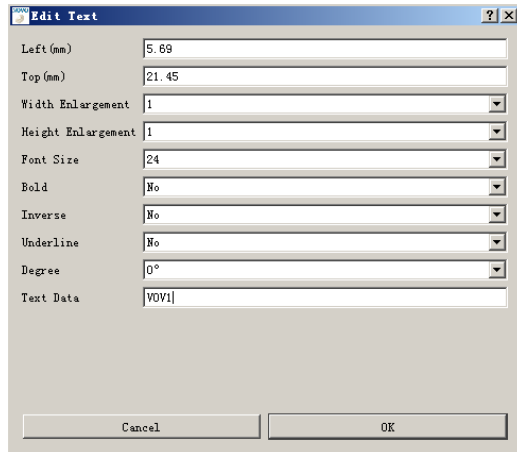
- V0 10 (Gross weight)
- V1 Kg / g (Unit)
- V2 8 (Net weight)
- V3 1.40 (Tare weight)
- V4 0.12345 (piece weight)
- V5 Kg / g (Unit of piece weight)



V6 9999 (quantity)

Example:

Gross weight is V0, Unit is V1 , Press  , put into V0V1, no need " "

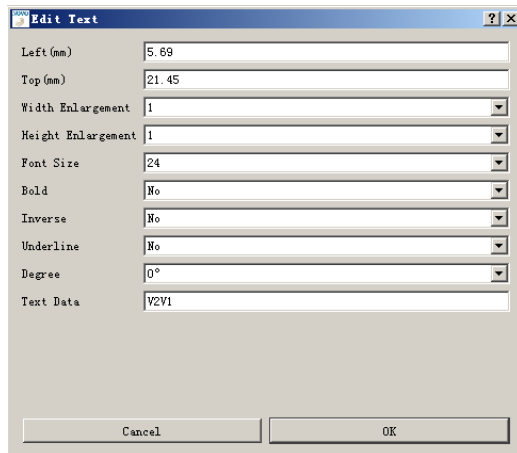


The 'Edit Text' dialog box shows the following settings:

Property	Value
Left (mm)	5.69
Top (mm)	21.45
Width Enlargement	1
Height Enlargement	1
Font Size	24
Bold	No
Inverse	No
Underline	No
Degree	0°
Text Data	V0V1

Buttons: Cancel, OK

Net weight is V2, Unit is V1 , Press  , put into V2V1, no need " "

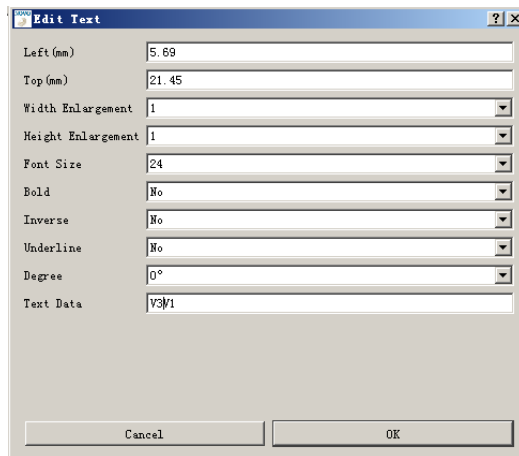


The 'Edit Text' dialog box shows the following settings:

Property	Value
Left (mm)	5.69
Top (mm)	21.45
Width Enlargement	1
Height Enlargement	1
Font Size	24
Bold	No
Inverse	No
Underline	No
Degree	0°
Text Data	V2V1

Buttons: Cancel, OK


Tare weight is V3, Unit is V1 , Press  , put into V3V1, no need " "

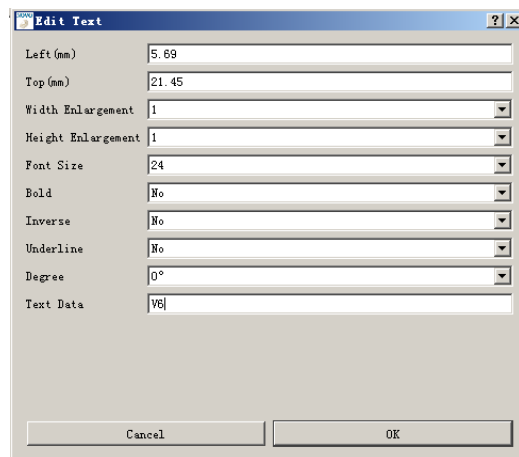


**Edit Text**

Left (mm)	5.69
Top (mm)	21.45
Width Enlargement	1
Height Enlargement	1
Font Size	24
Bold	No
Inverse	No
Underline	No
Degree	0°
Text Data	V3/M1

Cancel OK

Quantity is V6, press , put into V6, no need " "



**Edit Text**

Left (mm)	5.69
Top (mm)	21.45
Width Enlargement	1
Height Enlargement	1
Font Size	24
Bold	No
Inverse	No
Underline	No
Degree	0°
Text Data	V6

Cancel OK

**Now it generate a print formate as below:**

# NOVO(XIAMEN)TECHNOLOGY CO.,LTD.

NAME: SCREWS 2018-12-25 11:28:38

PIECE WEIGHT: 2.000g

TARE WEIGHT: 1.000kg

NET WEIGHT: 2.000kg

GROSS WEIGHT: 3.000kg

QUANTITY: 1000PCS

## 3.5.2. Weighing scale:press



Define Variables and Counters

☒ Variables  
☐ Counters

Length: 8  
Justify: Center  
Fill char:   
Prompt: GROSS WEIGHT  
Value: 0.500

V0  
V1  
V2  
V3

New From Printer  
Delete Delete All  
Cancel OK

V0 10 (Gross weight)

V1 Kg / g (Unit)

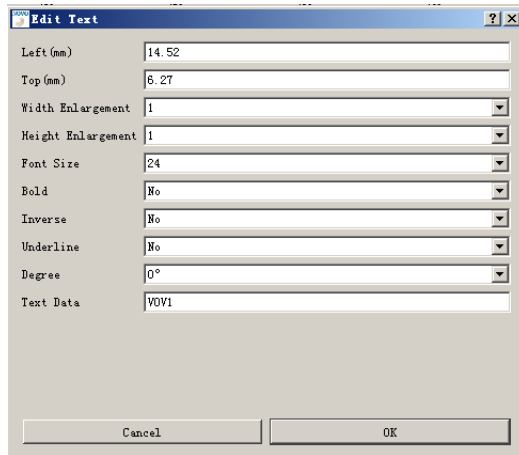
V2 8 (Net weight)

V3 1.40 (Tare weight)

Gross weight is V0, Unit is V1 , Press

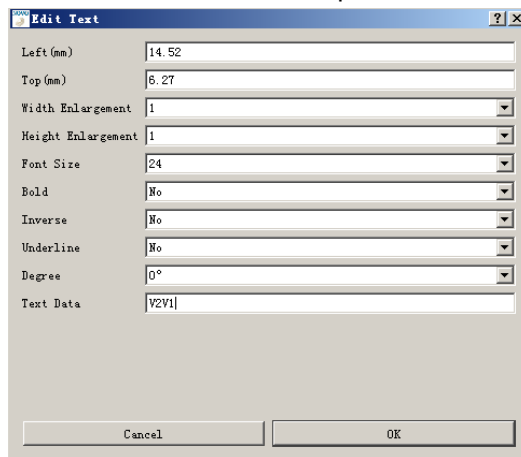


, put into V0V1, not need " "



Edit Text  
 Left (mm) 14.52  
 Top (mm) 6.27  
 Width Enlargement 1  
 Height Enlargement 1  
 Font Size 24  
 Bold No  
 Inverse No  
 Underline No  
 Degree 0°  
 Text Data VOV1  
 Cancel OK

Net weight is V2, Unit is V1 , Press  , put into V2V1, not need " "



Edit Text  
 Left (mm) 14.52  
 Top (mm) 6.27  
 Width Enlargement 1  
 Height Enlargement 1  
 Font Size 24  
 Bold No  
 Inverse No  
 Underline No  
 Degree 0°  
 Text Data V2V1  
 Cancel OK

Tare weight is V3, Unit is V1 , Press  , put into V3V1, not need " "

Left (mm)	14.52
Top (mm)	8.27
Width Enlargement	1
Height Enlargement	1
Font Size	24
Bold	No
Inverse	No
Underline	No
Degree	0°
Text Data	V3V1

Cancel OK

**Now it generate a print formate as below:**

NOVO(XIAMEN)TECHNOLOGY CO., LTD.  
2018-12-25 11:36:13

SCALE ID:0001

TARE WEIGHT: 1.000kg

NET WEIGHT: 2.000kg

GROSS WEIGHT: 2.500kg

\*V0 is a variable and changes randomly according to the actual weighing of the scale.

\*Each parameter setting must refer to the above parameter list.

### **3.4.3 Defining a counter**

Define Variables and Counters ? X

☐ Variables  
☒ Counters

C0

Length 6  
Justify None  
Fill char  
Increment 0  
Prompt Counter 0  
Value

New From Printer  
Delete Delete All  
Cancel OK

Define Variables and Counters ? X

☐ Variables  
☒ Counters

C0

Length 6  
Justify None  
Fill char  
Increment 0  
Prompt Counter 0  
Value 1

New From Printer  
Delete Delete All  
Cancel OK

Press **A**

Edit Text ? X

Start X(mm) 13.00  
Start Y(mm) 10.76  
Size X 1  
Size Y 1  
Font 0 (12x24)  
Style Normal  
Rotation None  
Text Data C0

Cancel OK

Now it generate a print formate as below:

NOVO(XIAMEN)TECHNOLOGY CO.,LTD.

2018-12-25 11:44:36

TARE WEIGHT: 1.000kg


NET WEIGHT: 2.000kg

GROSS WEIGHT: 2.500kg

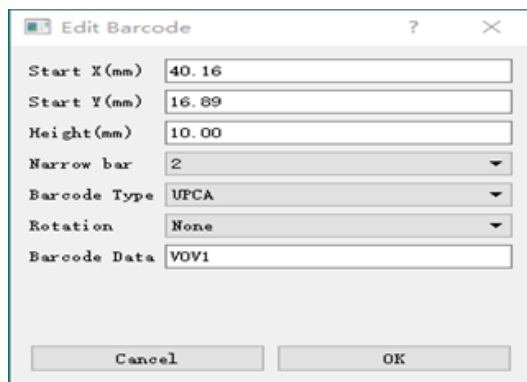
COUNT:001

### 3.6. Set Barcode:

The barcode should be set according to the customer's

requirement.press , each customer uses different barcode rules.If a customer wants to CODE128, in same time,the barcode should be changed according to the weight:

e.g.:



Start X(mm)	40.16
Start Y(mm)	16.89
Height(mm)	10.00
Narrow bar	2
Barcode Type	UPCA
Rotation	None
Barcode Data	V0V1

Cancel OK

In the barcode date, you can put into V0V1, then the barcode can be changed as V0V1

NOVO(XIAMEN)TECHNOLOGY CO.,LTD.

2018-12-25 11:44:36

TARE WEIGHT: 1.000kg

NET WEIGHT: 2.000kg

GROSS WEIGHT: 2.500kg

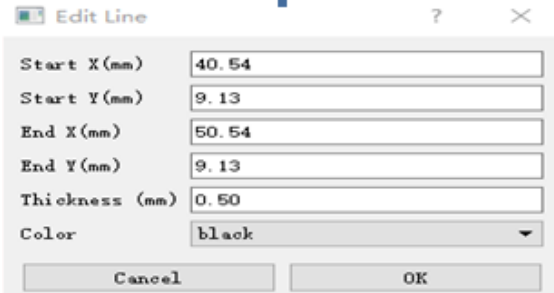
COUNT:001



2 . 5 0 0 k g

### 3.7 Add A Dash

press , the line can adjust the length randomly.

A dialog box titled "Edit Line" with a close button (X) and a help button (?). It contains several input fields for defining a line: Start X (mm) with value 40.54, Start Y (mm) with value 9.13, End X (mm) with value 50.54, End Y (mm) with value 9.13, Thickness (mm) with value 0.50, and a Color dropdown menu set to "black". At the bottom are "Cancel" and "OK" buttons.

Start X (mm)	40.54
Start Y (mm)	9.13
End X (mm)	50.54
End Y (mm)	9.13
Thickness (mm)	0.50
Color	black
<div>Cancel OK</div>	

NOVO(XIAMEN)TECHNOLOGY CO.,LTD.

2018-12-25 11:44:36

TARE WEIGHT: 1.000kg

NET WEIGHT: 2.000kg

GROSS WEIGHT: 2.500kg

COUNT:001



2 . 5 0 0 k g

### 3.8 Set a QR code



The QR code shall be set according to the customer's



requirements,press , display the QR code editing dialog box. The size and data of the QR code can be set. The QR code data shall be input.

**Edit QRCode**

Left (mm) 34.03

Top (mm) 14.61

Unit Width 3

Error Correction L

QRCode Data "Hello"VOV1TTTD|

NOVO(XIAMEN)TECHNOLOGY CO.,LTD.

2018-12-25 11:44:36

TARE WEIGHT: 1.000kg



NET WEIGHT: 2.000kg



GROSS WEIGHT: 2.500kg

COUNT:001



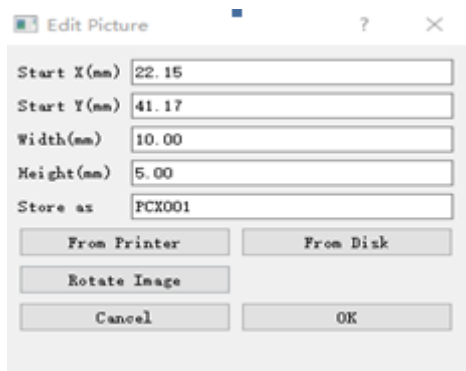
2 . 5 0 0 k g

### 3.9 Set a picture

Press



,display the edit image dialog box.




You can select the required picture from the computer. If you have saved the picture in the printer, you can also choose from the printer. The picture size can be adjusted and moved freely. The LOGO trademark usually used by the company is mostly processed, as follows:





**\*Note: the image format must be a monochrome bitmap. Color bitmaps are not supported.**

Now it generate a label as you need. You can test print it.

To see the result of printing, you can choose to try printing, press the . If the printing is not good, you can adjust it accordingly.

## 4.Storage of labels

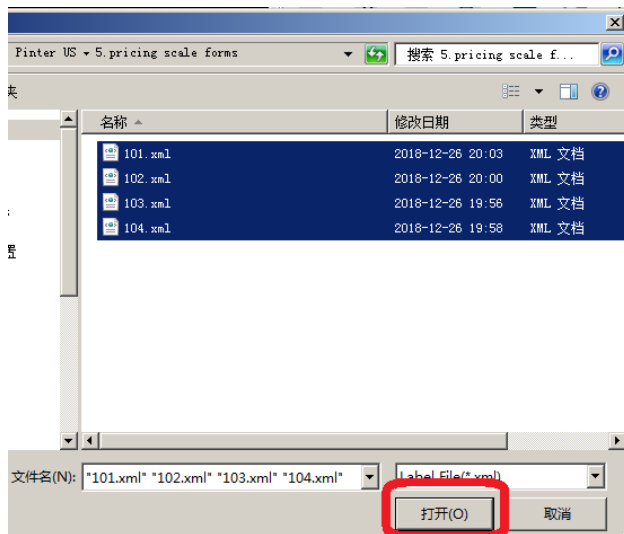
4.1.Save the label to the computer, press the button , you can save the edited label to the computer.

4.2. Save the label to the printer and press the button  to save the edited label to the printer.

4.3. Save many labels into printer.



Click ---- then click store multi label forms into printer.

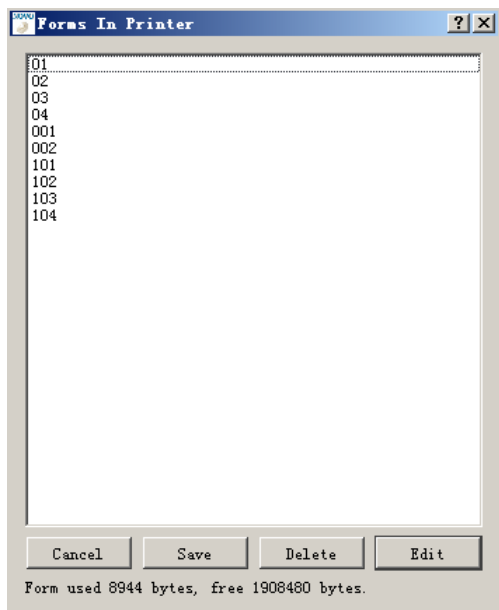


Choose all these files and click open. When hear the bi of the printer. The forms will be stored into printer.

4.4 Check the forms in the printer.



Click ---- then ,click retrieve forms in printer.



It will show all the fomrs in the printer.

## **5. The printer connect to the scale**

### **5.1 VARIABLES OF NOVO SCALES**

#### **COUNTING SCALE**

V0 : Gross Weight

V1: Unit

V2: Net Weight

V3: Tare Weight

V4: Piece Weight

V5: Piece unit

V6: Quantity

C0: COUNT

#### **WEIGHING SCALE**

V0: Gross Weight

V1: Unit (Kg or Lb)

V2: Net Weight

V3: Tare Weight

C0: COUNT


## PRICE COMPUTING SCALE


V0: WEIGHT

V1: Unit Price

V2: Amount

## 5.2 OPERATION WITH SCALES

5.2.1 AWD, Press the key  and it will show NO 01, use numeric keys to choose correct form no.

5.2.2 ACD, Press the key  and it will show

INPAGE	No 001
	0

Use numeric keys to choose correct form no. Use the key

5.2.3 APD, press the key MR and it will show

INPAGE	E NO
	0

Use numeric keys to choose correct form no. Use the key CG to print.