

T-Scale

Operation Manual

IP30

Label Printing Scale

CONTENTS

1. SAFTY INSTRUCTIONS.....	- 1 -
2. PRODUCT DESCRIPTION.....	- 3 -
2.1. General.....	- 3 -
2.2. Touch Screen.....	- 3 -
2.3. Label Printer.....	- 3 -
2.4. Interfaces.....	- 3 -
2.5. Models.....	- 4 -
2.6. Touch Screen (Example of Operation / User Interface).....	- 5 -
2.7. Customer Display.....	- 6 -
3. INSTALLATION.....	- 7 -
3.1. Unpacking.....	- 7 -
3.2. Leveling Device.....	- 7 -
3.3. Mounting Platter.....	- 8 -
3.4. Rear Display Installation.....	- 9 -
3.5. Cassette Label Printer.....	- 10 -
3.6. Cassette receipt printer (Optional).....	- 12 -
3.7. Power Connection	- 14 -
3.8. Start Up.....	- 14 -
3.9. Transport and Storage.....	- 15 -
3.9.1. Decommissioning.....	- 15 -
4. DISPLAY & KEY FUNCTIONS.....	- 16 -
4.1. Operator Mode (Default Operation Interface).....	- 16 -
4.2. Display and Key Functions.....	- 16 -
4.3. Built-in Keypad.....	- 18 -
4.4. Client Display.....	- 19 -
4.5. Main Menu.....	- 20 -
5. OPERATION.....	- 22 -
5.1. Function.....	- 22 -
5.1.1. Power-Up.....	- 22 -
5.1.2. Display Range.....	- 22 -
5.1.3. Zero Setting.....	- 22 -
5.1.4. Tare.....	- 22 -
5.1.5. Preset Tare.....	- 23 -
5.1.6. PLU (Price Look Up).....	- 23 -
5.1.7. Quantity.....	- 23 -
5.1.8. Gravity.....	- 23 -
5.1.9. Printing.....	- 23 -
5.1.10. Software Version.....	- 23 -
5.2. Operator Mode Operation.....	- 24 -
5.2.1. PLU (Product Look Up) Search.....	- 24 -
5.2.2. Manually Enter Unit Price/Quantity.....	- 25 -
5.2.3. Sales Operation.....	- 26 -
5.3. Receipt Mode Operation.....	- 36 -
5.3.1. Direct Product Look-up:.....	- 36 -
5.3.2. In-direct Product Look-up:.....	- 36 -

5.3.3. Manually Enter Unit Price/Quantity.....	- 36 -
5.3.4. Weighed Item PLU Operation.....	- 37 -
5.3.5. Non- Weighed Item/ PCS PLU Operation.....	- 37 -
5.3.6. Single item deletion.....	- 38 -
5.3.7. All items deletion.....	- 38 -
5.3.8. Checkout.....	- 38 -
5.4.9. Sales Return Operation.....	- 41 -
6. CALIBRATION.....	- 42 -
7. TROUBLE SHOOTING.....	- 44 -
7.1. Error messages.....	- 45 -
8. TECHNICAL DATA.....	- 46 -
8.1. General Specification.....	- 46 -
8.2. Label Printer Specification.....	- 47 -
8.3. Receipt Printer Specification.....	- 47 -

1. SAFTY INSTRUCTIONS



WARNING

DISCONNECT ALL POWER TO THIS UNIT BEFORE INSTALLING, CLEANING, OR SERVICING. FAILURE TO DO SO COULD RESULT IN BODILY HARM OR DAMAGE THE UNIT.



CAUTION

- **Permit only qualified persons to service the instrument**
- **Before connecting or disconnecting any components, remove the power.**
- **Failure to observe these precautions bodily harm or damage to destruction of the equipment.**



SAFTEY INSTRUCTION

The weighing scale is a precision electronic instrument, handle it carefully.

- 1) The device must only be operated by personnel trained in the operation of this equipment.
- 2) The operating personnel must read and understand the safety instructions in these operating instructions.
- 3) To prevent any accident, only qualified service personnel is authorized to open this device!
- 4) Verify the local voltage and receptacle type are correct for the scale.
- 5) Only use original adaptor, other could cause damage to the scale.
- 6) Pluggable equipment must be installed near an easily accessible socket outlet.
- 7) Avoid unstable power sources. Do not use near large users of electricity such as welding equipment or large motors.
- 8) Avoid sudden temperature changes, vibration, wind and water.
- 9) Avoid strong pressure or scratching the surface with hard, sharp or pointed objects.
- 10) Avoid heavy RF noise.
- 11) Scale is not waterproof and insect prevention. Do not spray or immerse scale in water. Please keep scale clean.
- 12) Do not install the scale in direct sunlight.
- 13) Do not use tools to open the casing.
- 14) Do not use organic acid, alkaline solutions, scouring powders or plastic dissolving cleaning agents for cleaning.

2. PRODUCT DESCRIPTION

2.1. General

The IP30 T-Touch label printing scale series include full-fledged features, interfaces, 7 inch definition customer displays.

The standard models are high end products for customers who aim for luxurious functions. T-touch Intelligent scale functions ensure that user can easy to find the PLU's , fast and reliable.

With the use of a Touch Screen user interface it is possible to also control Self-Service scales from the back office by using T-Touch Central Software.

Major Features

- Linux Operating System
- ARM CORTEX A17 processor based design
- Resistive Type Touch screen
- HD LCD
- 2GB RAM, up to 99999 PLU storage
- Different methods of communications: RS232 , Ethernet, Wi-Fi, USB Host for keyboard /Mouse/Scanner interface.
- Three ranges and selectable basic unit such as kg, g, lb, oz, tj, gj,lb:oz.
- All options are controlled from menu. No spec list provided and easy to operate.
- Mapping of logical devices to physical devices option enables rerouting of data output/input to working physical device.

2.2. Touch Screen

- IP30 delivered with Resistive type TFT Touch Screen Display
- The Touch Screen functions based on the resistive type, Touch Screen Display only depends on the applied pressure and not on the material itself; So that the Touch Screen can also be operated with finger tips, pen tips and rubber gloves.
- The resolution of the 10" display is 1280 x 800 pixels

2.3. Label Printer

IP30 is equipped with Cassette System Label printer.Printing resolution is 8dots/mm, printing speed 100mm/s, max printing width 54mm.Optional receipt printer.

2.4. Interfaces

IP30 is equipped with 1xRJ45, 1xRJ11, 2xUSB2.0, and 2 x RS232 interface



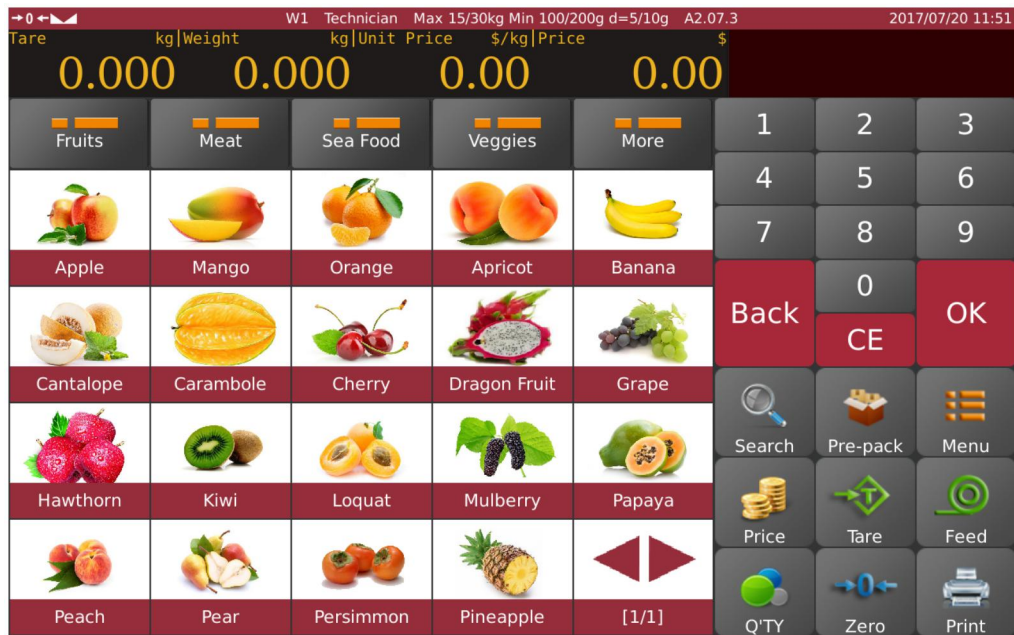
No.	Interface	Quantity	Description
1	OTG	1	For update system software
	USB2.0		For mouse, keyboard, bar code scanner, avoid using for charging other device
2	USB2.0	1	For mouse, keyboard, bar code scanner, avoid using for charging other device
3	RJ45	1	Ethernet (Giga LAN)
4	RJ11	1	Cash drawer (12V)
5	RS-232	2	For printer or other supported equipment

2.5. Models

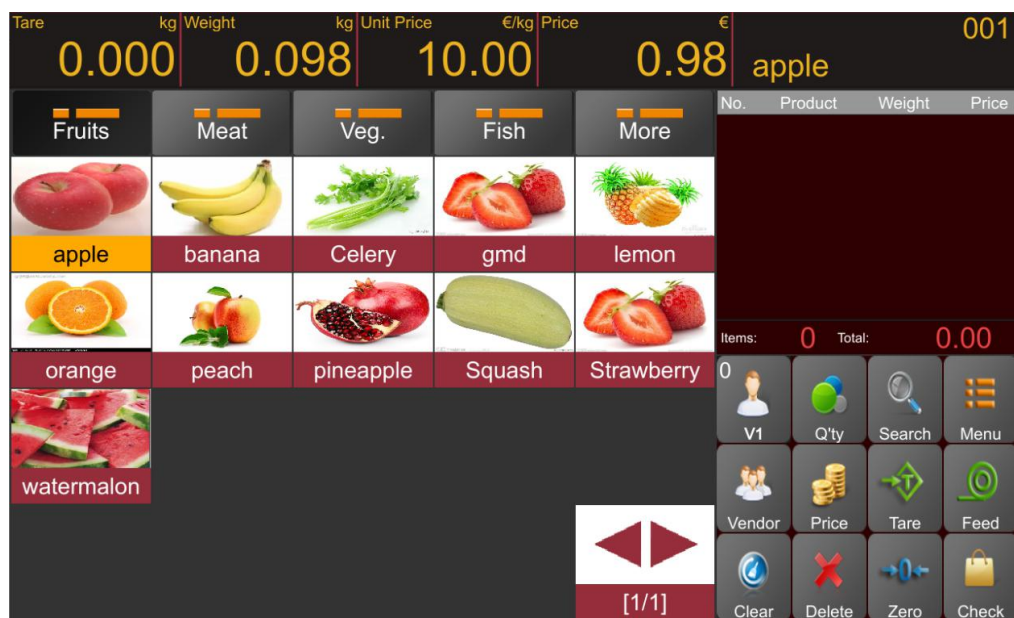
The IP30 T-Touch label printing scale series include full-fledged features, interfaces, and choice of 7" Pole type normal definition customer displays.



2.6. Touch Screen (Example of Operation / User Interface)

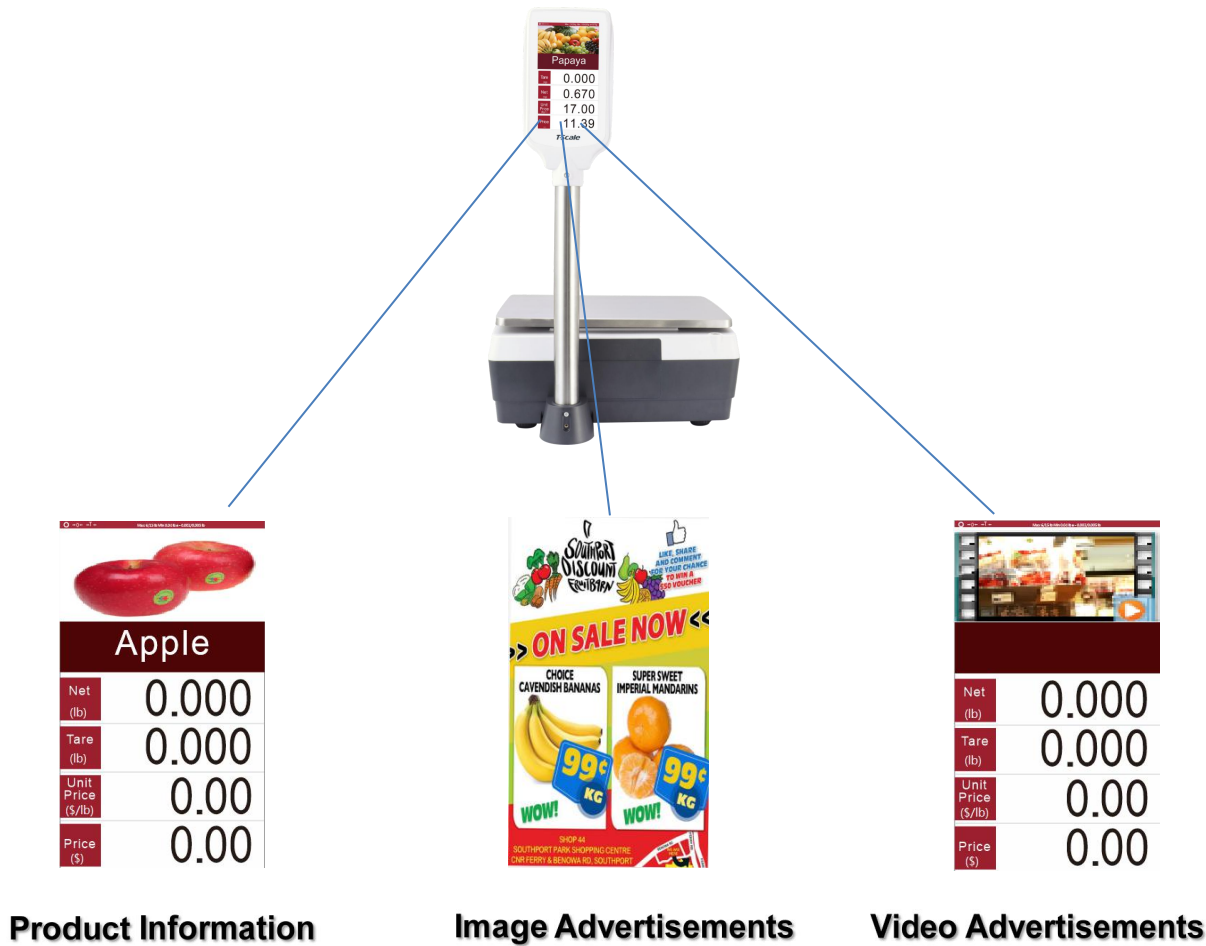


Labeling Mode



Receipt Mode

2.7. Customer Display



3. INSTALLATION

3.1. Unpacking

Carefully take the scale out of its package, make it sure its not damaged and all accessories are included.

Accessories

- 1.Scale
- 2.Pole display assembly
- 3.AC main power cord
- 4.Stainless steel pan
- 5.Product manual

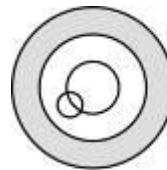
Keep the packaging material for your future use.

3.2. Leveling Device

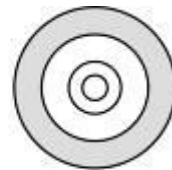


The installation, leveling and application are handled by TSCALE authorized person.

Scale should only be connected to the mains with the power cord
The water level is used to level your scale. It is fixed at the back of the device.



Not Level



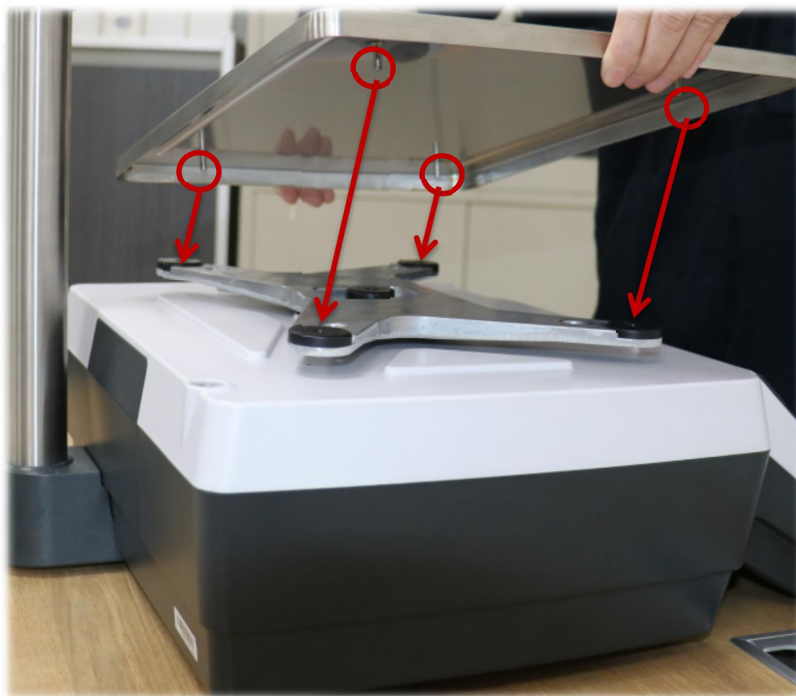
Level

Water Level

- ✓ Bubble has to be in the center of the water level.
- ✓ The correct alignment of the device can be achieved by adjusting the adjustable scale feet.
- ✓ The water level should be checked regularly to assure a correct level reading.
- ✓ When moving the scale, the level should be checked and corrected if necessary.

3.3. Mounting Platter

Platter has to be installed correctly on the pan receptacle



The platter surface should be checked regularly to assure any foreign materials stored.

3.4. Rear Display Installation



① Take out pole display assembly



② Connect male and female connectors well



③ Take the cable connectors into the pole



④ Insert pole with cable to the holder

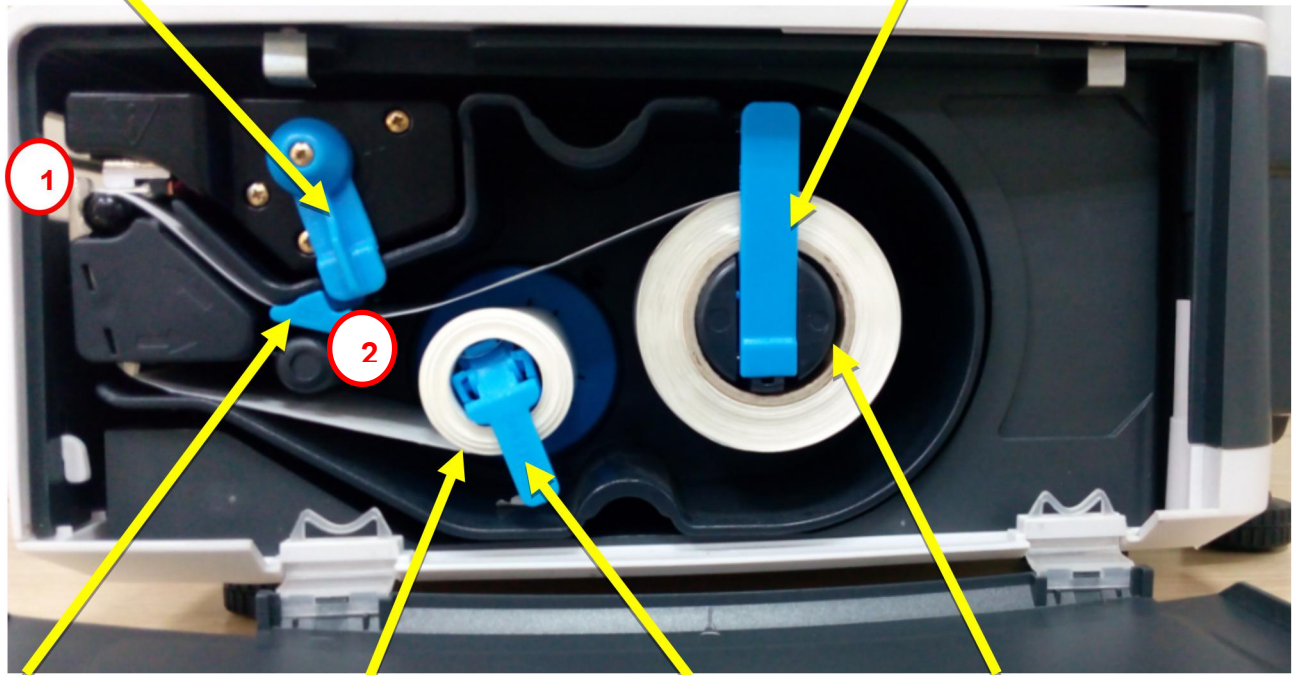


⑤ Using the screw to fix the pole to the holder

3.5. Cassette Label Printer

Cassette Release Lever

Roll Stopper Lever



Paper Lock

Winding Bobbin

Back Paper
Stopper Lever

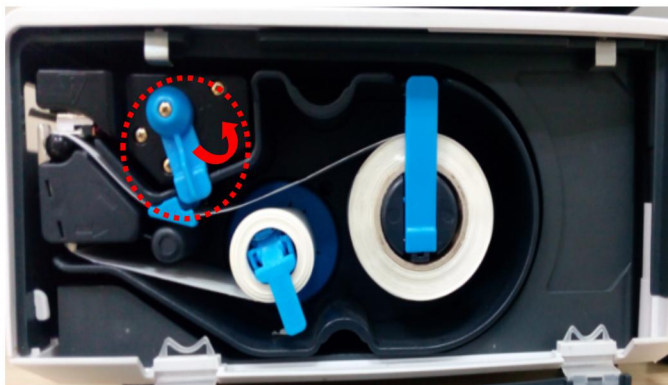
Roll Holder

- ① Label paper must be against the platen roller edge
- ② Back paper must go under this bar

Replacement of Label Roll



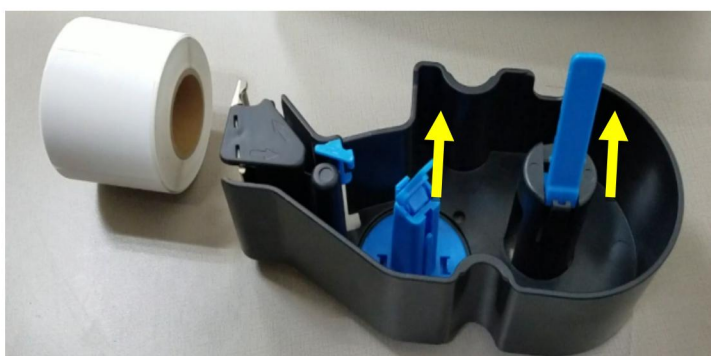
① Open the printer cover



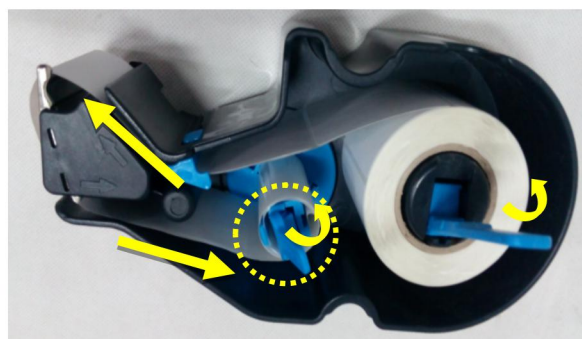
② Turn lever to open position



③ Remove the cassette



④ Release stopper levers then
Remove back paper roll and label core



⑤ Load new label roll, then insert
Back paper under the slot of winding
Bobbin and close the stopper levers



⑥ Insert the Cassette and Turn lever to
close position



⑦ Close the printer cover

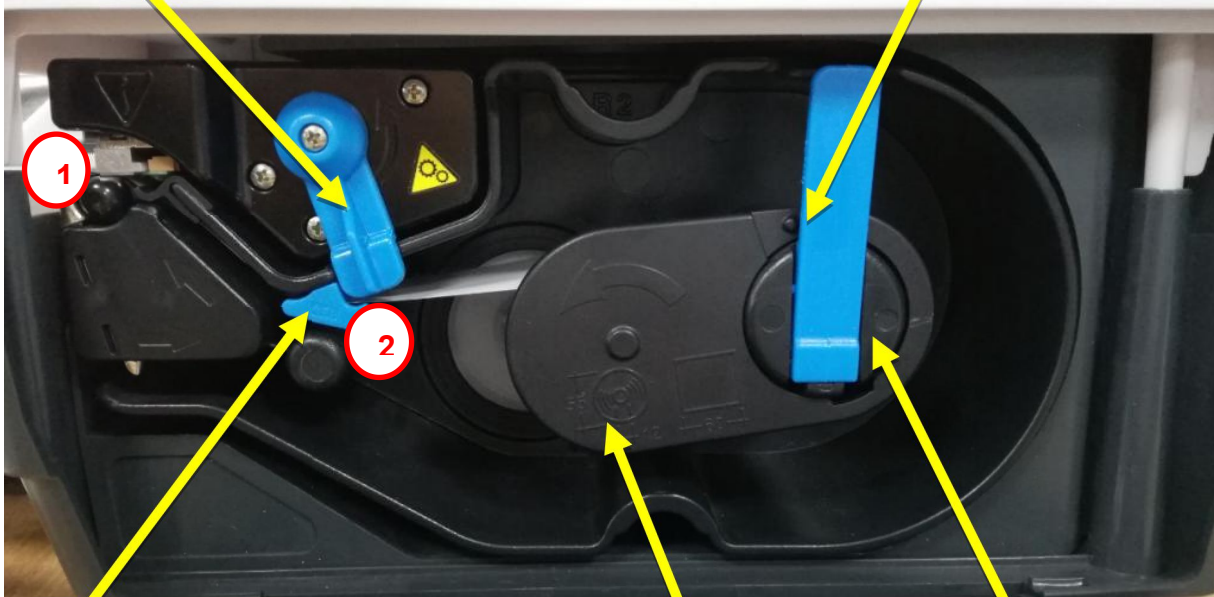


⑧ Press the feed key

3.6. Cassette receipt printer (Optional)

Cassette Release Lever

Roll Stopper Lever



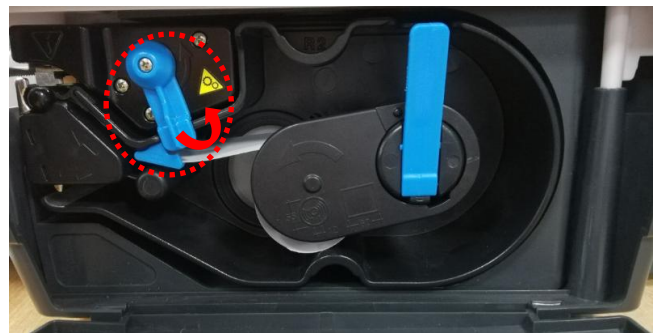
Paper Lock

Receipt roll bracket

Roll Holder

- ① Receipt paper must be against the platen roller edge
- ② Receipt paper must go under this bar

Replacement of Receipt Roll



- ① Open the printer cover

- ② Turn lever to open position



③ Remove the cassette



④ Release stopper levers then
Remove receipt roll bracket and receipt roll



⑤ Load new receipt roll, then insert
Receipt paper under the slot of winding
Bobbin



⑥ Insert the bracket ,one side to receipt
roll ,the other side to roll holder



⑦ Turn lever to close position under the
arrow position ,one side of bracket
should be aligned with the hole position.



⑧ Turn lever to close position

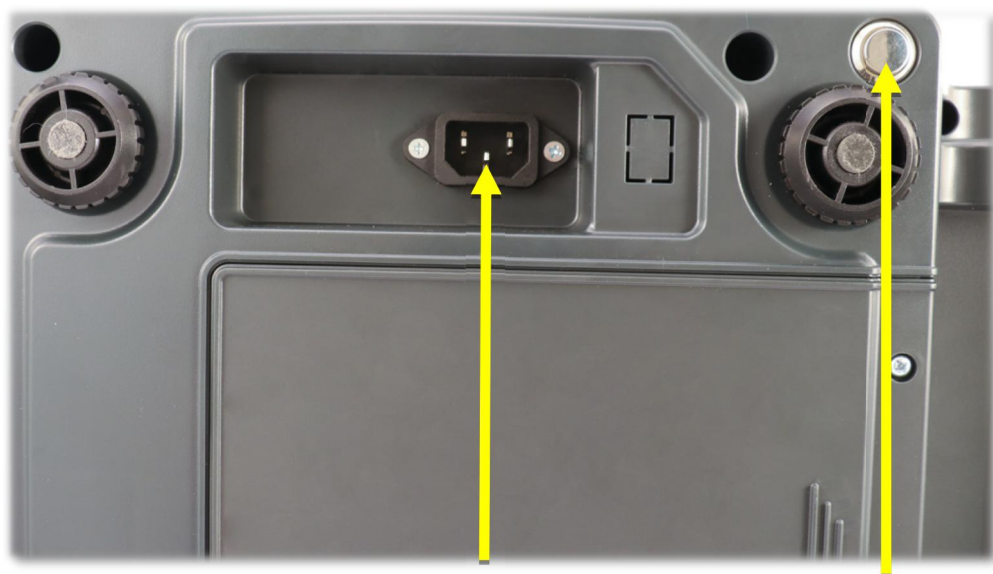


⑨ Close the printer cover



⑩ Press the feed key

3.7. Power Connection



Power Cord Socket

Power On/Off key

A) Connect the supplied power cable to the power connection socket of the scale.

B) Plug the power plug into a correctly grounded power outlet.

3.8. Start Up



Putting into operation.

The device has been installed properly and connected to the mains power supply.
The scale must not be loaded.


1) Once connected to the mains power supply ,the scale will be switched on automatically.

2) Switch on device

Power on: The power-on button is located below the scale.


Long press power-on button until hearing the” beep” sound and the scale is on.

3) Power off

Method 1: Press  key at the main menu screen, and press “Power Off” at the pop up screen to power off

Method 2: Long press power-on button, the power will be off.

4) Restart scale

Press  key at the main menu screen, and press “Restart” at the pop up screen to restart the scale, scale will power off and then come to normal weighing mode.

Note: Avoid disconnecting the mains power supply directly when switch off the scale, otherwise the weighing data will be lost.

3.9. Transport and Storage

Always transport and store the device in its original packaging.

3.9.1. Decommissioning

Switch off the scale

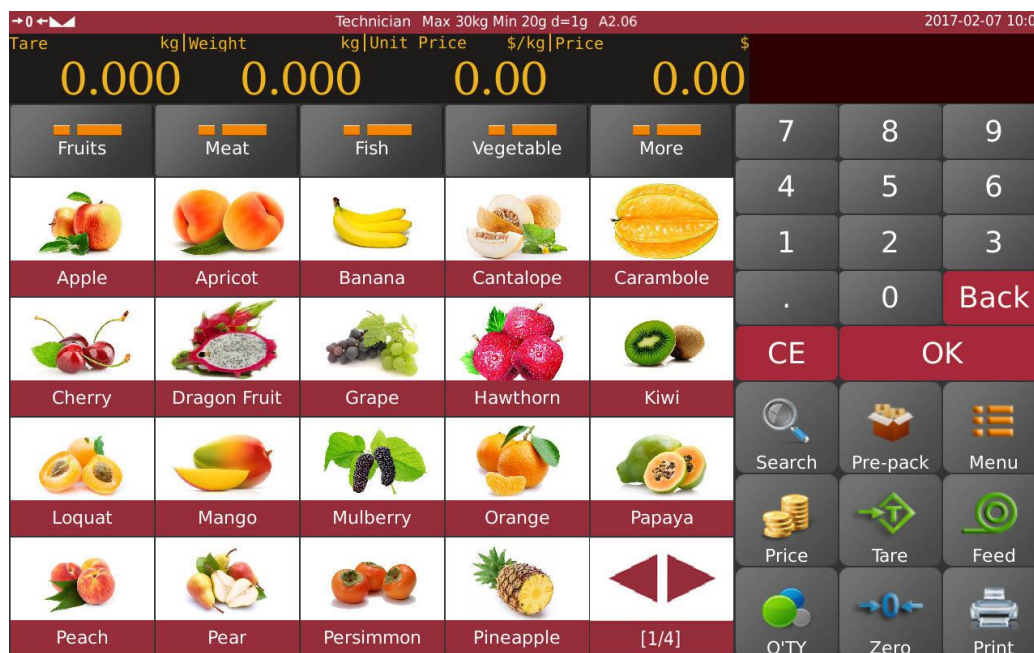
Remove all cables and connections from the scale

Clean the scale as per the cleaning instructions

Store the device in its original packaging


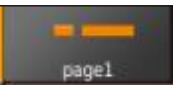











4. DISPLAY & KEY FUNCTIONS

4.1. Operator Mode (Default Operation Interface)



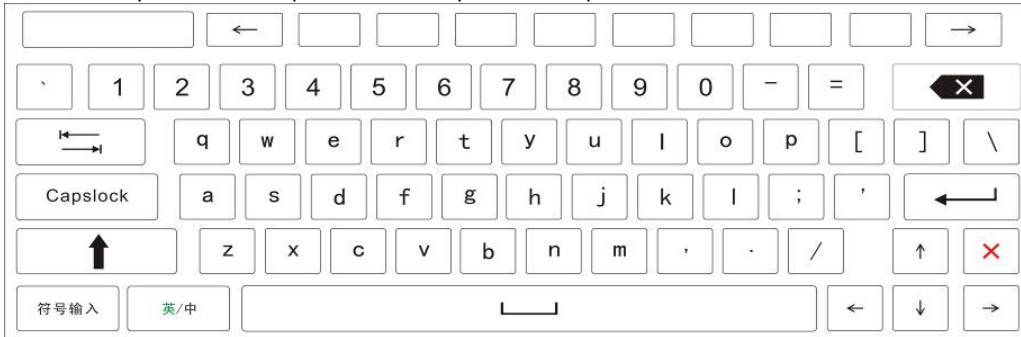
4.2. Display and Key Functions

No	Indicator	Name	Description
1		Zero	For displaying current weighing status
		Stable	
2		Operator	For display operator
3		Capacity	For capacity, division and minimum weight
4		Software version	For displaying software version
5		Date & Time	For displaying date & Time
6		Tare Display	For displaying tare weight value
7		Weight Display	For displaying weight value
8		Price Display	For displaying unit price
9		Total Display	For displaying total price

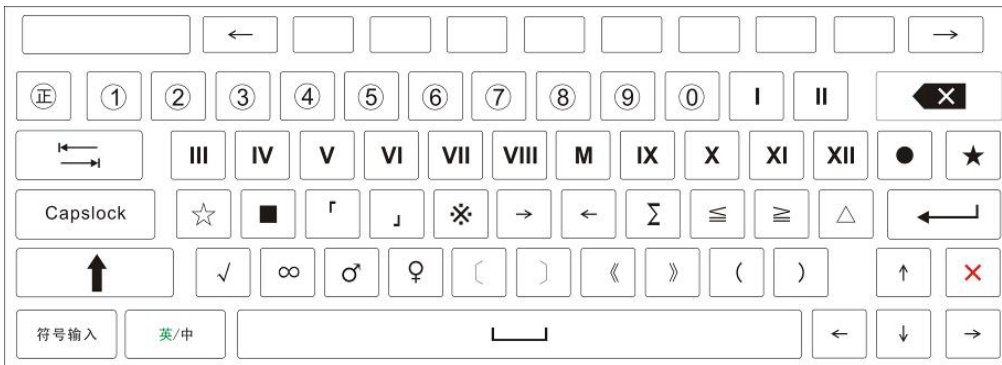
10		Product Display	For displaying the current product
11		Group Key	To categorize products in different groups
12		PLU Keys	For display PLU name & number or PLU picture & name
13		PLU look-up Key	To look-up PLUs
14		Price Key	To enter unit price manually
15		Q'ty Key	Enter product quantity (Product unit price should be entered first)
16		Clear Key	To clear selected products and numeric keys
17		Tare Key	Use this key to perform tare.
18		Zero Key	Use this key to zero the scale.
19		Menu Key	To enter main page
20		Feeding Key	To test if the printer is feeding paper correctly
21		Print Key	To print out label
22		Pre-Pack Key	To print multi- labeling

4.3. Built-in Keypad

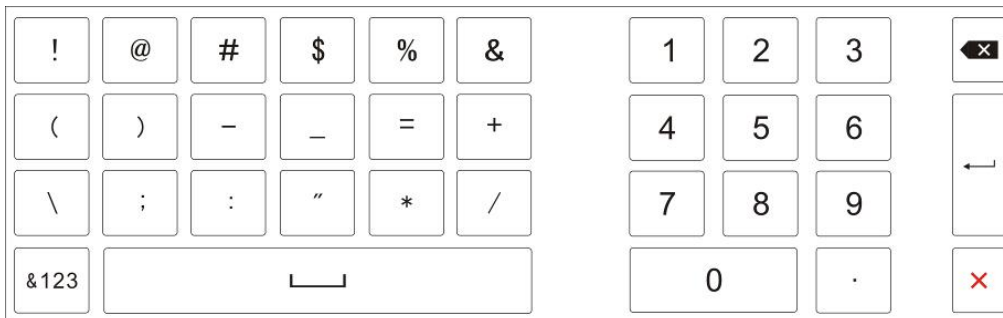
On-Screen Keyboard will be open automatically to edit or input new data



Special symbols keyboard

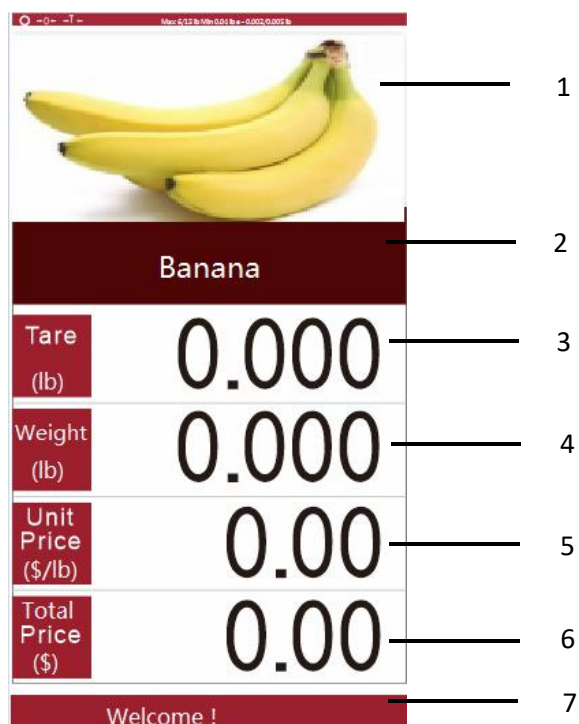


Numeric keyboard



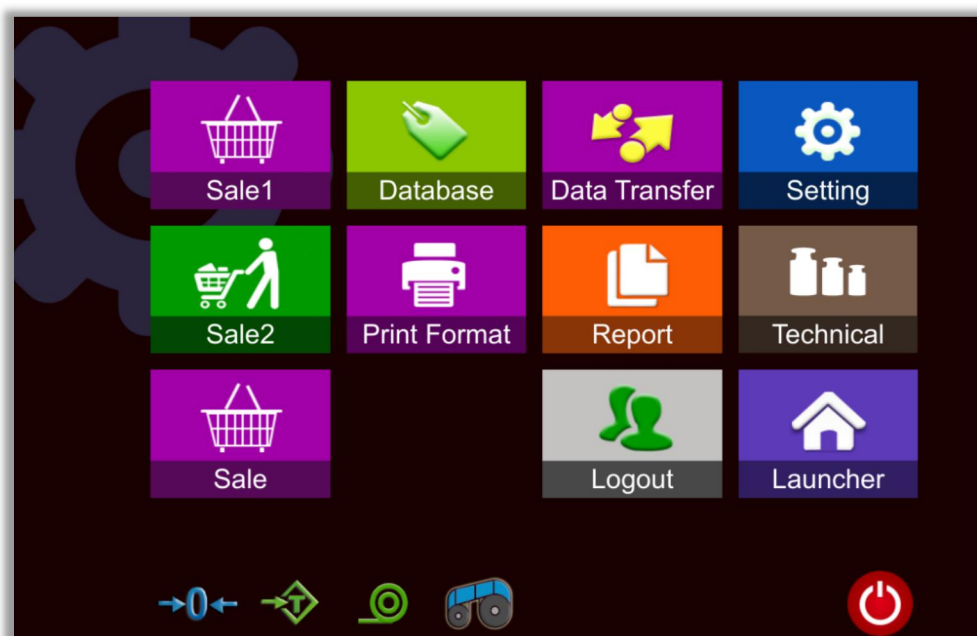
	Backspace
	When input text, use this key to change line
	Special symbols and numeric keys.
	Close key board
	Shift to Capital letter / small letter.
	Press here to change sign


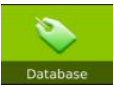







4.4. Client Display


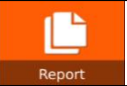

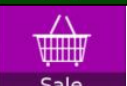

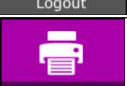
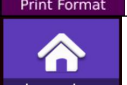


No.	Display/Indicator	Description
1	Product image	To display the selected product image
2	Product name	To display the selected product name
3	Tare	To display tare weight
4	Weight	To display product's weight
5	Unit Price	To display the unit price
6	Total Price	To display the total price
7	Slogan	To display slogan

4.5. Main Menu



	Icons	Name	Description
1		Sales Button	Operation View
2		Database Settings	Product, Category, Format..
3		Data Transfer	Data import and export
4		Basic Settings	General Settings
5		Technical Settings	Technical Settings
6		Power Button	Power Off
7		Zero Button	Perform Zero
8		Tare Button	Perform Tare
9		Feed Button	Paper Feed/Calibrate Test

10		Paper Recycle Switch	Recycle on/off
11		Report Button	Check/Print Reports
12		Sales 2	Used for checkout application
13		Sale	Used for custom UI
14		Logout Button	Logout from current account
15		Print Format	Receipt Format Management
16		Launcher programme	Used for system setting and network communication,ect.

5. OPERATION

5.1. Function

5.1.1. Power-Up

On Power-up, the scale will first perform to show system T-Touch and follow to show company logo. After that the scales will establish the current weight as a new zero reference and then automatically start up in menu mode from where the mode for weighing can be selected.


It's may be secured (username & password may require to access, if it's add operators name) to access the menu mode and weighing mode (sale mode).

5.1.2. Display Range

The scales will display weight from –Max (tare function) to Max (gross weight)

5.1.3. Zero Setting




Zero setting allows to do by pressing  key, only it's possible when the load receptor is not in motion.

5.1.4. Tare

Label scales are provided with a semi-automatic subtractive tare.



The weight of any container can be tared by pressing  button so that with subsequent weighing the net weight of the object being weighed is always displayed.

Tare Operation:


1) Load weight on the platform.



2) Press  key. Zero is displayed, and tare is subtracted.


3) Remove weight on the platform. Tared weight is displayed. It can set only one tare value. It will be shown with a minus value.



4) This Tare value can be cleared by pressing  key, when there is no load on the platter. This tare entry cannot take place, if the platter is in motion.

5.1.5. Preset Tare



Label scales have a preset tare function, Press and hold  key until to show a pretare window to input the tare value, by clicking “OK” key allows to store “Tare” value as per input.

5.1.6. PLU (Price Look Up)

T-Touch Label scales can store up to 99999 unit price values, these are accessed using the PLU keys or PLU Searching Key.

5.1.7. Quantity

PLU allows calculating total quantity price, however, not be regarded as the weighing results.

5.1.8. Gravity

The scales have the gravity compensation function making it possible to perform the verification at a place with another gravity constant than the place of use.

5.1.9. Printing



The scales have a built-in printer, when the user clicks the  option, the label can be printed out.

5.1.10. Software Version

The software is separated in weighing software, application software, screen key board software, and printing software.


5.2. Operator Mode Operation

5.2.1. PLU (Product Look Up) Search

Product names allows to search by the assigned UI keys (Direct PLU) or by using Search key

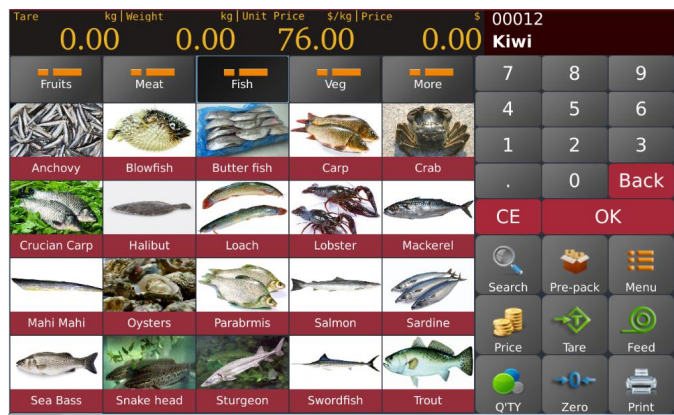
5.2.1.1. Direct PLU

Click the PLU from the pages.

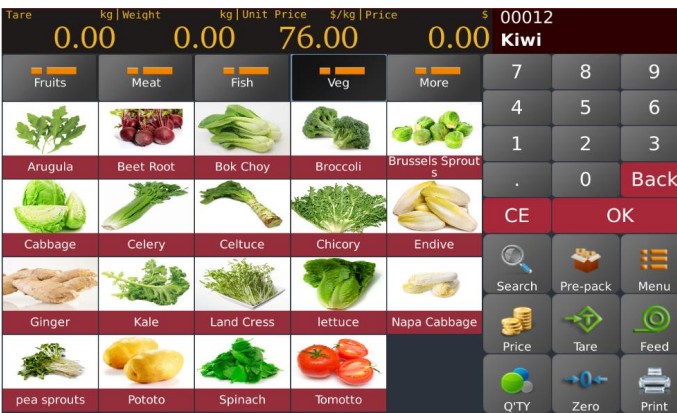
Use group key  to select different product groups or category.



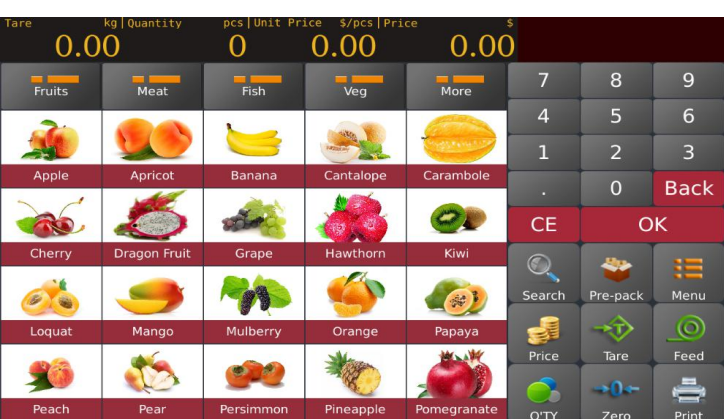
Meat group



Fish group



Veg Group



Fruit Group



More Page/Group Window list

Note: Page/ Group list will be available according to the Pre-Key Settings only.

5.2.1.2. In-direct Product Look-up



Click key to enter product look-up page.

a) Product searching by using PLU number

PLU	Product	Price	#	1	2	3	4	5	6	7	8	9	0	Print	Label
11050	nectarine	0.00	A												
20027	agarics	11.00	B												
10034	apple	20.00	C												
11015	apricot	0.00	D												
11075	areca	29.80	E												
10030	avocado	30.00	F												
11116	bacon	13.80	G												
10012	balsam pear	12.80	H												
29317	bamboo shoot	35.00	I												
10032	Banana	20.00	J												
10022	beef	15.60	K												
			L												
			M												
			N												
			O												
			P												
			Q												
			R												
			S												
			T												
			U												
			V												
			W												
			X												
			Y												
			Z												
			123	<<	CE	Back									

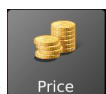
b) Product searching by using names

PLU	Product	Price	#				
11050	nectarine	0.00	A				
20027	agarics	11.00	B				
10034	apple	20.00	C				
11015	apricot	0.00	D				
11075	areca	29.80	E				
10030	avocado	30.00	F				
11116	bacon	13.80	G				
10012	balsam pear	12.80	H				
29317	bamboo shoot	35.00	I				
10032	Banana	20.00	J				
10022	beef	15.60	K				
			L				
			M				
			N				
			O				
			P				
			Q				
			R				
			S				
			T				
			U				
			V				
			W				
			X				
			Y				
			Z				
			123	<<	CE	Back	
			ABC				

PLU	Product	Price	#	AP			
10288	apple	22.00	A				
10292	apricot	33.00	B				
			C				
			D				
			E				
			F				
			G				
			H				
			I				
			J				
			K				
			L				
			M				
			N				
			O				
			P				
			Q				
			R				
			S				
			T				
			U				
			V				
			W				
			X				
			Y				
			Z				
			123	<<	CE	Back	
			ABC				

5.2.2. Manually Enter Unit Price/Quantity

1)When the product info is not pre-established in the scale;



2) Click key to enter unit price manually;

3)Click OK to confirm and follow to weigh;

4)For Non weight product, enter unit price and follow to enter quantity manually to get the PCS of the products;



5)Click key to enter manually enter quantity.

5.2.3. Sales Operation

5.2.3.1. Weighed Item PLU Operation

- a) Select a Weight PLU from the direct PLU list or Indirect PLU list.



- b) Display will show selected product name & number

Tare	kg Weight	kg Unit Price	\$/kg Price	\$ 10288
0.000	0.000	22.00	0.00	apple

- c) Place the item on the pan and wait to get weight stable,

Tare	kg Weight	kg Unit Price	\$/kg Price	\$ 10288
0.000	0.650	22.00	14.30	apple



- d) Then press **Print** key to get print out label.

- e) Remove item from the pan for the next operation



Note: By pressing **CE** key allows clearing the current product name & price, or by selecting a new PLU key will be clear existing PLU name & price automatically.



5.2.3.2. Non- Weighed Item/ PCS PLU Operation

- a) Select a Non –Weighed PLU from the direct PLU list or Indirect PLU list.

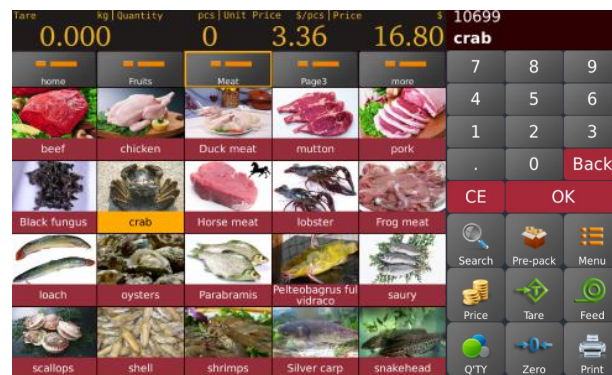


- b) Display will show selected product name & number and default number of item.

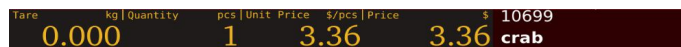
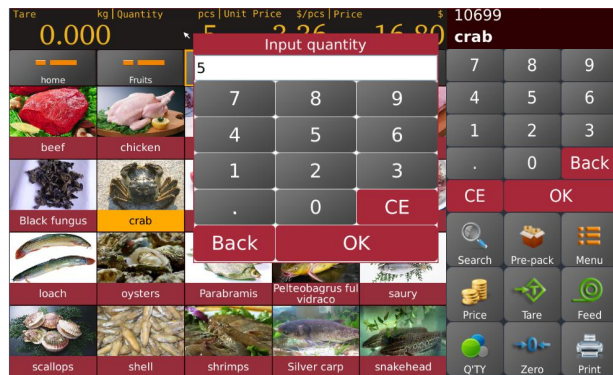
Tare	kg Quantity	pcs Unit Price	\$/pcs Price	\$ 10699
0.000	1	3.36	3.36	crab



- c) By clicking **Q'TY** key




or By clicking  Quantity Window allows to input required PCS value



d) Then press  key to get print out label.



Note: By pressing  key allows clearing the current product name & price, or by selecting a new PLU key will be clear existing PLU name & price automatically.

5.2.3.3. Pre-Pack Operation-Weighed Items

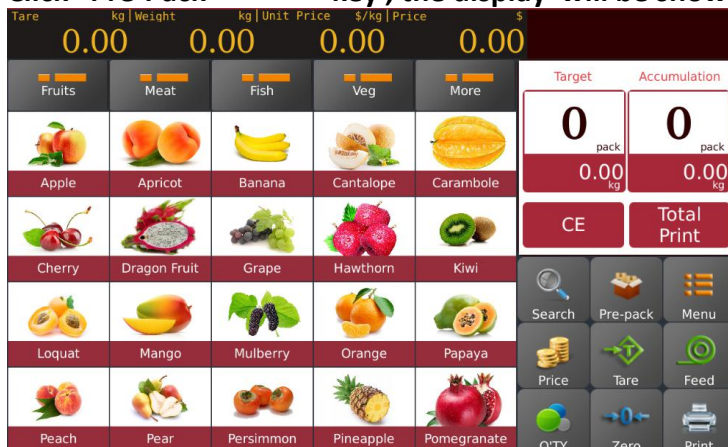
Note: For choosing Pre-Pack mode of operations, Please refer Settings > Operation Settings > Pre -Pack Mode

By pressing  key once will start pre-pack function start for printing

5.2.3.3.1. Pre-pack Mode - When in Stable operation for No of item/package


It's allows to do the print automatically when the loaded item gets stable and should be return to zero and load an item for next printing .

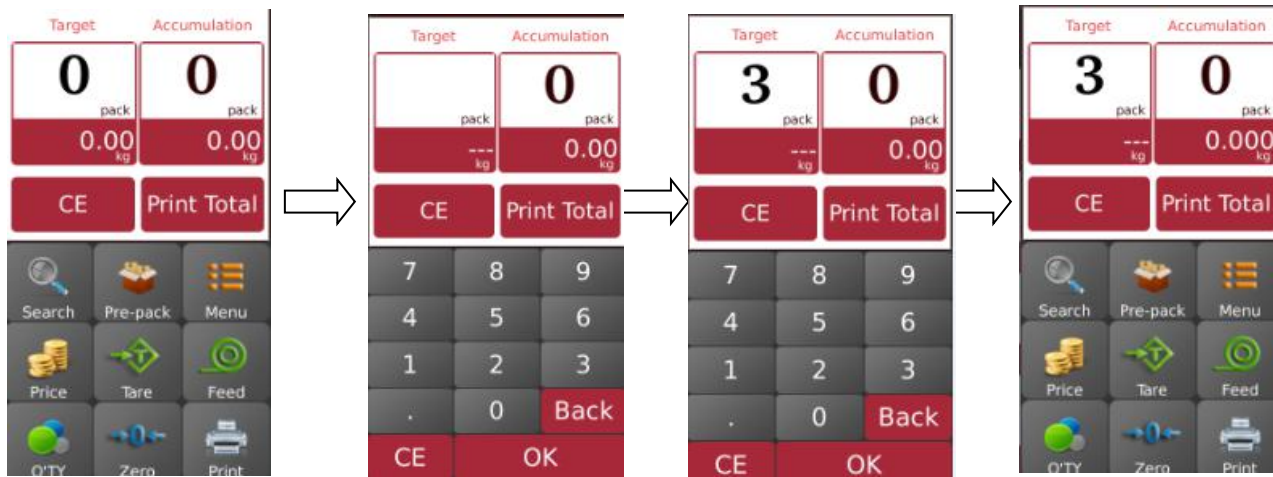
Click  Pre-pack key, the display will be show pre-pack operation




- Select a Weight PLU from the direct PLU list or input values for non-PLU.
- Display will show selected product name & number

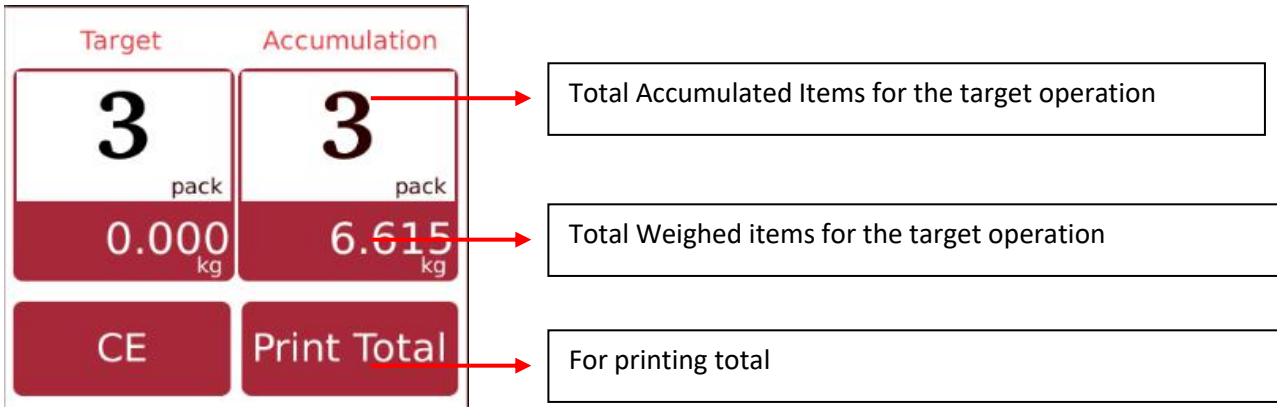


- Click target Window  to input number of pack and follow to click OK key



- Place the goods on the pan and wait for getting stable, then press  key to start to print out labels.
- Remove goods from the plater and load a new item on the plater for labeling, it will print automatically next label.





c) Remove item from the pan for the next operation

Note: By pressing **CE** key allows clearing the current product name & price, or by selecting a new PLU key will be clear existing PLU name & price automatically.

5.2.3.3.2. Pre-Pack Mode - When in Stable operation for No of weight/package

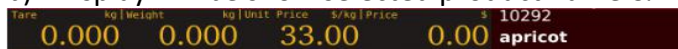
It's allows to do the print automatically when the loaded item gets stable and should be return to zero and load an item for next printing .


Click **Pre-Pack** key, the display will be show pre-pack operation



a) Select a Weight PLU from the direct PLU list or input values for non-PLU.

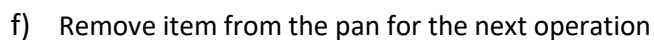
b) Display will be show selected product name & number



c) Click target weight Window  for inputting weight of the pack and follow to click OK key



- Figure 1 displays two screenshots of a mobile application interface for a fruit market. The interface shows a grid of fruit categories (Meat, Fruits, Sea Food, Veggies, More) and a list of fruit items (Apple, Mango, Orange, Apricot, Banana, Cantalope, Carambole, Cherry, Dragon Fruit, Grape, Hawthorn, Kiwi, Loquat, Mulberry, Papaya, Peach, Pear, Persimmon, Pineapple). The top section displays the total weight (0.000 kg) and the total price (2.205, 260.00, 573.30). The bottom section shows the selected item (Apricot) and the target weight (0.000 kg) and accumulation (1 pack, 2.205 kg).



- 30 -

5.2.3.3.3. Pre-Pack Mode – Repeat Print

It's allows to do the print multi labels automatically when the printed label removed

By item/weight package settings operation as per the section 2.2.3.3.1 & 2

PS: Must be choose the function, Operation Settings > Print after paper is removed > ON for printing next label when the printed label removed


5.2.3.3.4. Pre-Pack Mode – Manual Print



It's allows to do the print manually by pressing  key when the loaded item gets stable and should be return to zero and load an item for operation .

5.2.3.4. Non PLU - Weight item Operation



a) Click the  key input unit price for the item and follow to click OK to confirm

b) Place the item on the pan and wait to get weight stable,

Tare	kg Weight	kg Unit Price	\$/kg Price	\$
0.000	0.650	2.75	1.79	



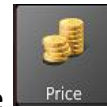
c) Then press  key to get print out label. Label will be print "Other" instead of product name

d) Remove item from the pan for the next operation

Note: By pressing




key allows clearing the current unit price, or Click the



key to input **new** unit price..


5.2.3.5. Non PLU - Non- Weighed Item/ PCS Operation



a) Click the  key input unit price for the item and follow to click OK to confirm




Quantity	pcs
0	

b) By clicking  key or By clicking  Quantity Window allows to input required PCS value

c) Display will be show the number of PCS and total price accordingly,

Tare	kg Weight	pcs Unit Price	\$/pcs Price	\$
0.000	25	3.50	87.50	



d) Then press  key to get print out label. Label will be print “Other” instead of product name

Note: By pressing



key allows to clearing the current quantity & price, or clicking



key or



key for inputting new values.

5.2.3.6. Pre-Pack Operation-Non-Weighed Items

Note: It should be choose a Non-Weighing PLU or enter the Qty items in advance for operate Pre-Pack Mode




By pressing  key once will start pre-pack function for printing

5.2.3.6.1. Pre-Pack Mode – Repeat Print

It's allows to do the print multi labels automatically when the printed label removed

PS: Must be choose the function, Operation Settings > Print after paper is removed > ON for printing next label when the printed label removed




Select a Non- Weight PLU from the direct PLU list or input quantity for non-PLU and follow to Click  key , the display will be show pre-pack operation

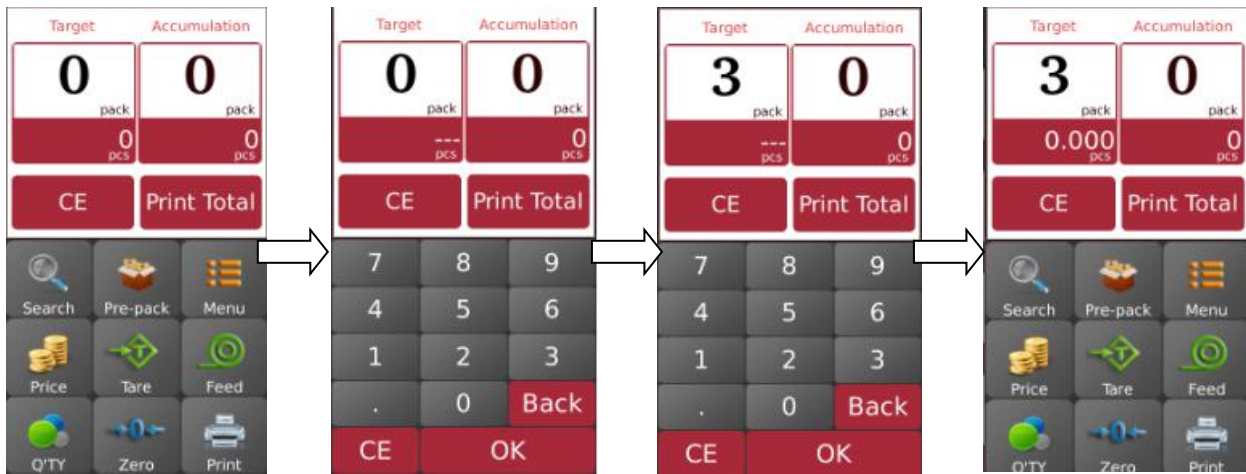
Tare	kg Quantity	pcs Unit Price	\$/pcs Price	\$	00001
---	3	10.75	32.25		Apple
Meat	Fruits	Sea Food	Veggies	More	7 8 9
Apple	Mango	Orange	Apricot	Banana	4 5 6
Cantalope	Carambole	Cherry	Dragon Fruit	Grape	1 2 3
Hawthorn	Kiwi	Loquat	Mulberry	Papaya	. 0 Back
Peach	Pear	Persimmon	Pineapple	[1/2]	CE OK
					Search Pre-pack Menu
					Price Tare Feed
					Q'TY Zero Print


Target

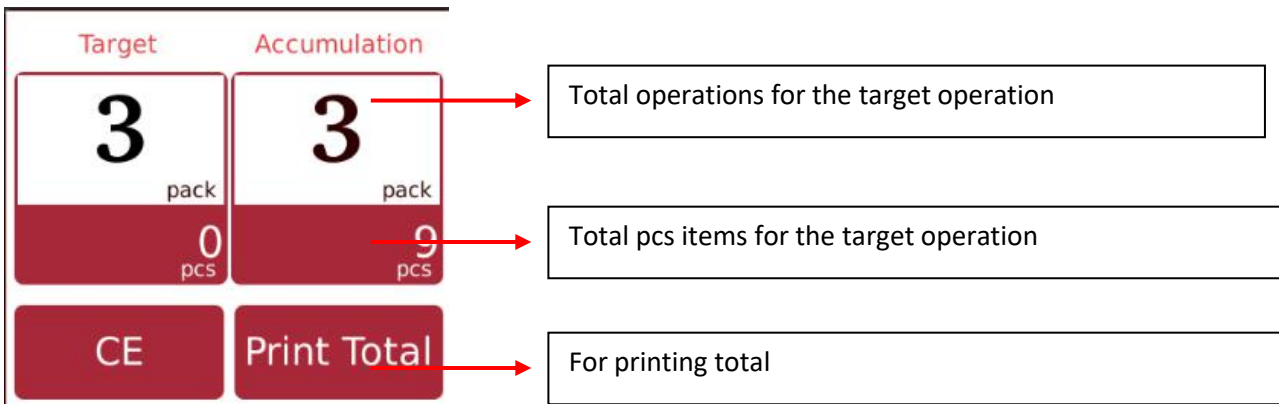
0


pack

a) Click target Window  to input number of pack and follow to click OK key



- b) Then press  key to start to print out labels.
c) It will print automatically next label when it's removed printed label.



Note: By pressing  key allows clearing the current product name & price, or by selecting a new PLU key will be clear existing PLU name & price automatically.

5.2.3.6.2. Pre-Pack Mode – Manual Print



It's allows to do the print by pressing **Print** key when the printed label removed

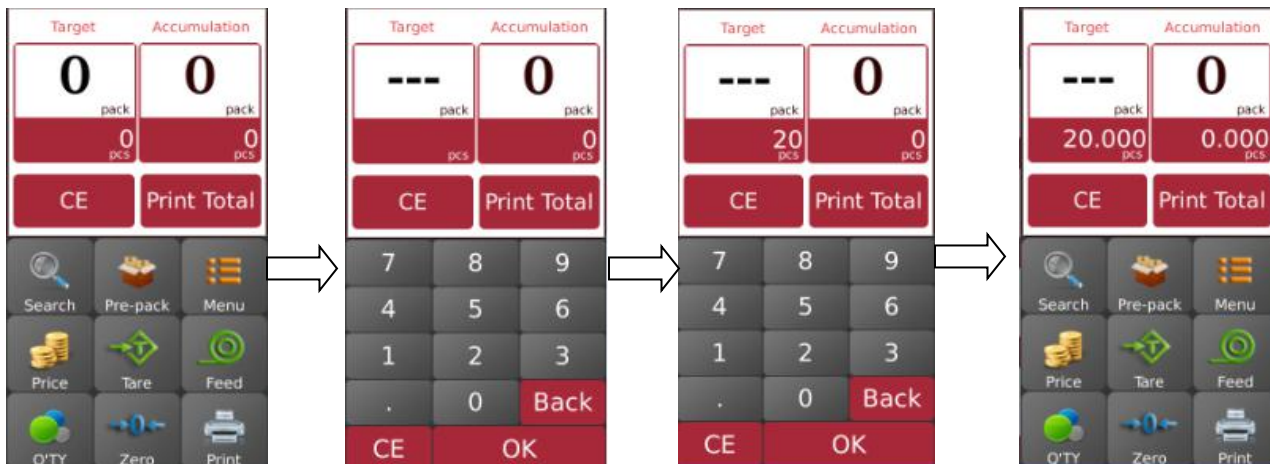
- a) Select a Non- Weight PLU from the direct PLU list or input quantity for non-PLU and follow to Click



Pre-pack key , the display will be show pre-pack operation



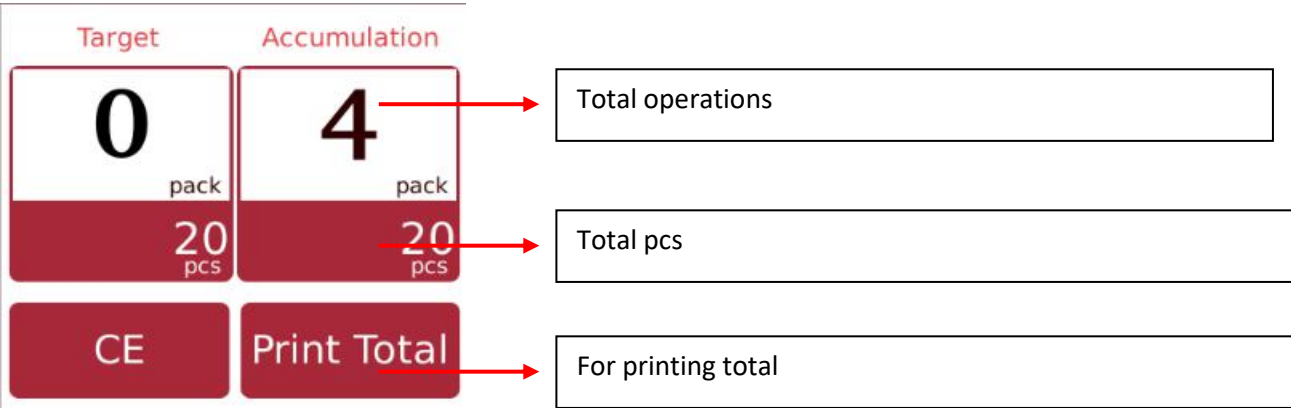
- b) Click target Window **0** pack to input number of pack and follow to click OK key



- d) Then press **Print** key to start to print out labels.



- e) Remove the label and press **Print** key to start to print out next label.



Note: By pressing **CE** key allows clearing the current product name & price, or by selecting a new PLU key will be clear existing PLU name & price automatically.



2) Click **Price** key to enter unit price manually;

3) Click OK to confirm and follow to weigh;

4) For Non weight product, enter unit price and follow to enter quantity manually to get the PCS of the products;



5) Click **Q'TY** key to enter manually enter quantity.

5.3.4. Weighed Item PLU Operation

a) Select a Weight PLU from the direct PLU list or Indirect PLU list.
















































b) Display will be show selected product name & number

Tare	kgWeight	kgUnit Price	/kgPrice		
0.00	0.00	1.00	0.00	apple	001



c) Select **V1** key to save.

The accumulated items will be displayed in the ACC list.

Tare	kgWeight	kgUnit Price	/kgPrice																																
0.00	0.00	19.00	0.00	Carambola	009																														
category1	category2	category3	category4	More																															
																																			
apple	Apricot	Banana	Carambola	Kiwi																															
																																			
Orange	Papaya	Pear	Pineapple	Strawberry																															
					<table><tr><th>No.</th><th>Product</th><th>Weight</th><th>Price</th></tr><tr><td>1</td><td>apple</td><td>1.00</td><td>1.00</td></tr><tr><td>2</td><td>Carambola</td><td>0.62</td><td>11.78</td></tr><tr><td colspan="2">Items: 2</td><td>Total:</td><td>12.78</td></tr></table>	No.	Product	Weight	Price	1	apple	1.00	1.00	2	Carambola	0.62	11.78	Items: 2		Total:	12.78														
No.	Product	Weight	Price																																
1	apple	1.00	1.00																																
2	Carambola	0.62	11.78																																
Items: 2		Total:	12.78																																
					<table><tr><td>2</td><td></td><td></td><td></td><td></td></tr><tr><td></td><td>V1</td><td>Q'ty</td><td>Search</td><td>Menu</td></tr><tr><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td>Vendor</td><td>Price</td><td>Tare</td><td>Feed</td></tr><tr><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td>Clear</td><td>Delete</td><td>Zero</td><td>Check</td></tr></table>	2						V1	Q'ty	Search	Menu							Vendor	Price	Tare	Feed							Clear	Delete	Zero	Check
2																																			
	V1	Q'ty	Search	Menu																															
																																			
	Vendor	Price	Tare	Feed																															
																																			
	Clear	Delete	Zero	Check																															
					<div> [1/1]</div>																														

5.3.5. Non- Weighed Item/ PCS PLU Operation

a) Select a Non –Weighed PLU from the direct PLU list or Indirect PLU list.

b) Display will be show selected product name & number and default number of item.











Tare	kgQuantity	kgUnit Price	/kgPrice		
---	1	19.00	19.00	Carambola	009



c) By clicking **Q'TY** key allows to input required PCS value.



d) Click **V1** key to save

Tare	kgQuantity	kgUnit Price	/kgPrice		
---	5	19.00	95.00	Carambola	009
category1	category2	category3	category4	More	
					
apple	Apricot	Banana	Carambola	Kiwi	
					
Orange	Papaya	Pear	Pineapple	Strawberry	

5.3.6. Single item deletion

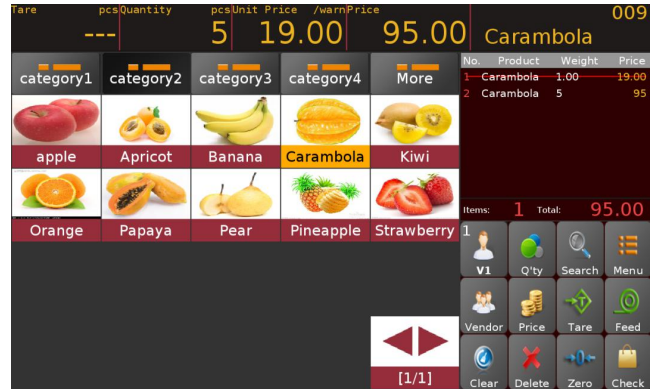
a) Select the items to be deleted in the ACC list;



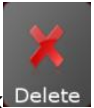
b) Click **Delete** key to delete the selected item, this item will display a red line;



c) Select the deleted item, click **Delete** key again to clear the red line.

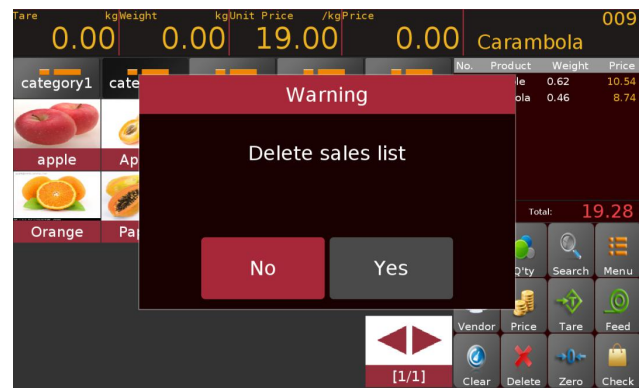


5.3.7. All items deletion



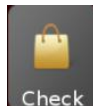
a) Click **Delete** key, the "delete sales list" prompt will pop up.

b) Click "Yes" to delete acc list, click "No" to exit.



5.3.8. Checkout

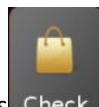
5.3.8.1. Quick checkout



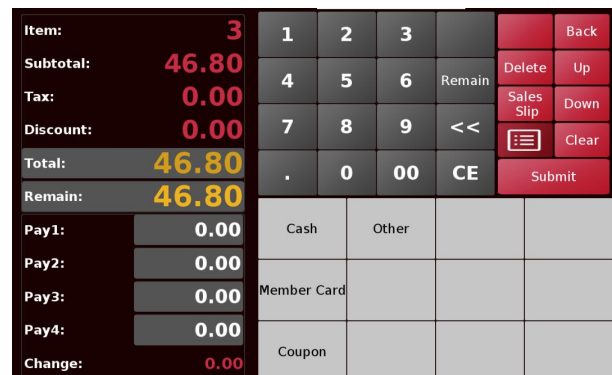
After accumulating the items, click **Check** key to checkout and print receipt.



5.3.8.2. Detailed checkout



a) After accumulating the items, long press **Check** key to enter the detailed page;



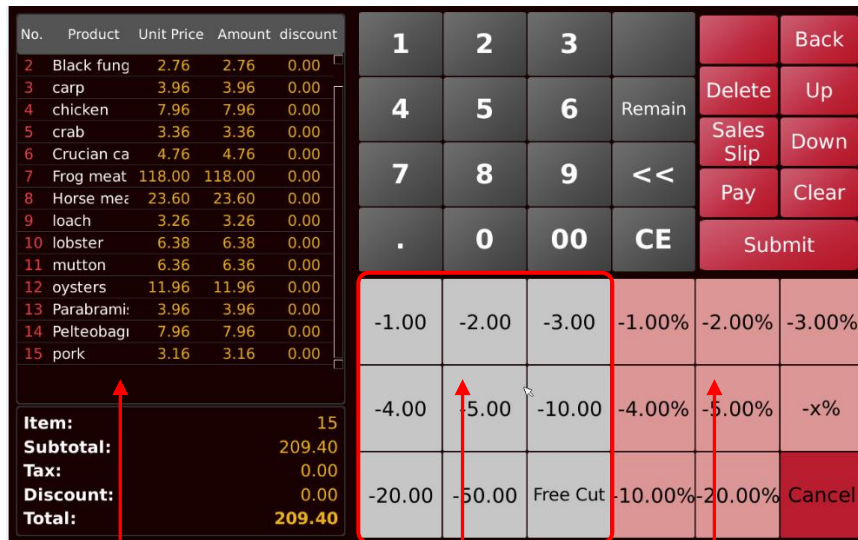


b) Click key to jump out of the payment method;

Submit

c) Choose a payment method, click key;

d) After completing this transaction and printing out the receipt, the screen returns to the normal sales page.



Sales List Window

Discount value by
fixed amount



Discount value by
fixed percentage

1	0	to	Numeric Key	For payment amount input
2	Remain		Remain key	The remaining payment will be generated automatically
3	CE		Clear Key	To clear current number input
4	Delete		Delete Key	To delete sales item
5	Sales Slip		N.A	Reserved
6	Pay		Payment Key	Continue to payment process
7	Back		Back Key	Return to the sales window
8	Up Down		N.A	Reserved

9	Clear	Clear Key	To clear current payments
10	Submit	Submit	To confirm payment
11	-1.00	Value Discount Key	To apply fixed discount
12	-1.00%	Percentage Discount Key	To apply percentage discount
13	Cancel	Cancel Key	To clear discount values
14	Detail	Sales Detail key	To check sales details
15	Cash	Cash Key	To apply Cash Payment entries
16	Card	Card Key	To apply Card Payment entries
17	Coupon	N.A	Reserved
18	Other	N.A	Reserved

Discount Keys:

Discount keys are used to store fixed / percentage values.

Press and hold  or  keys to store values, numeric keys window will pop up.

-0.00	-0.00	-0.00	-0.00%	-0.00%	-0.00%
-0.00	-0.00	-0.00	-0.00%	-0.00%	-x%
-0.00	-0.00	Free Cut	-0.80%	-0.00%	Cancel

No.	Product	Unit Price	Amount	discount	1	2	3		Back
2	Black fung	2.76	2.76						
3	carp	3.96	3.96						
4	chicken	7.96	7.96						
5	crab	3.36	3.36						
6	Crucian ca	4.76	4.76						
7	Frog meat	118.00	118.00						
8	Horse mei	23.60	23.60						
9	loach	3.26	3.26						
10	lobster	6.38	6.38						
11	mutton	6.36	6.36						
12	oysters	11.96	11.96						
13	Parabrami	3.96	3.96						
14	Pelteobagi	7.96	7.96						
15	pork	3.16	3.16						
Item:					15				
Subtotal:						209.40			
Tax:						0.00			
Discount:						0.00			
Total:						209.40			
					Back	OK			
					-0.00	-0.00	-0.00	-0.00%	-0.00%
					-0.00	-0.00	Free Cut	-0.80%	-0.00%
					-0.00	-0.00	-0.00	-0.00%	-x%
					-0.00	-0.00	Free Cut	-0.80%	-0.00%
					-0.00	-0.00	-0.00	-0.00%	-x%
					-0.00	-0.00	Free Cut	-0.80%	-0.00%
					-0.00	-0.00	-0.00	-0.00%	-x%
					-0.00	-0.00	Free Cut	-0.80%	-0.00%
					-0.00	-0.00	-0.00	-0.00%	-x%
					-0.00	-0.00	Free Cut	-0.80%	-0.00%
					-0.00	-0.00	-0.00	-0.00%	-x%
					-0.00	-0.00	Free Cut	-0.80%	-0.00%
					-0.00	-0.00	-0.00	-0.00%	-x%
					-0.00	-0.00	Free Cut	-0.80%	-0.00%
					-0.00	-0.00	-0.00	-0.00%	-x%
					-0.00	-0.00	Free Cut	-0.80%	-0.00%
					-0.00	-0.00	-0.00	-0.00%	-x%
					-0.00	-0.00	Free Cut	-0.80%	-0.00%
					-0.00	-0.00	-0.00	-0.00%	-x%
					-0.00	-0.00	Free Cut	-0.80%	-0.00%
					-0.00	-0.00	-0.00	-0.00%	-x%
					-0.00	-0.00	Free Cut	-0.80%	-0.00%
					-0.00	-0.00	-0.00	-0.00%	-x%
					-0.00	-0.00	Free Cut	-0.80%	-0.00%
					-0.00	-0.00	-0.00	-0.00%	-x%
					-0.00	-0.00	Free Cut	-0.80%	-0.00%
					-0.00	-0.00	-0.00	-0.00%	-x%
					-0.00	-0.00	Free Cut	-0.80%	-0.00%
					-0.00	-0.00	-0.00	-0.00%	-x%
					-0.00	-0.00	Free Cut	-0.80%	-0.00%
					-0.00	-0.00	-0.00	-0.00%	-x%
					-0.00	-0.00	Free Cut	-0.80%	-0.00%
					-0.00	-0.00	-0.00	-0.00%	-x%
					-0.00	-0.00	Free Cut	-0.80%	-0.00%
					-0.00	-0.00	-0.00	-0.00%	-x%
					-0.00	-0.00	Free Cut	-0.80%	-0.00%
					-0.00	-0.00	-0.00	-0.00%	-x%
					-0.00	-0.00	Free Cut	-0.80%	-0.00%
					-0.00	-0.00	-0.00	-0.00%	-x%
					-0.00	-0.00	Free Cut	-0.80%	-0.00%
					-0.00	-0.00	-0.00	-0.00%	-x%
					-0.00	-0.00	Free Cut	-0.80%	-0.00%
					-0.00	-0.00	-0.00	-0.00%	-x%
					-0.00	-0.00	Free Cut	-0.80%	-0.00%
					-0.00	-0.00	-0.00	-0.00%	-x%
					-0.00	-0.00	Free Cut	-0.80%	-0.00%
					-0.00	-0.00	-0.00	-0.00%	-x%
					-0.00	-0.00	Free Cut	-0.80%	-0.00%
					-0.00	-0.00	-0.00	-0.00%	-x%
					-0.00	-0.00	Free Cut	-0.80%	-0.00%
					-0.00	-0.00	-0.00	-0.00%	-x%
					-0.00	-0.00	Free Cut	-0.80%	-0.00%
					-0.00	-0.00	-0.00	-0.00%	-x%
					-0.00	-0.00	Free Cut	-0.80%	-0.00%
					-0.00	-0.00	-0.00	-0.00%	-x%
					-0.00	-0.00	Free Cut	-0.80%	-0.00%
					-0.00	-0.00	-0.00	-0.00%	-x%
					-0.00	-0.00	Free Cut	-0.80%	-0.00%
					-0.00	-0.00	-0.00	-0.00%	-x%
					-0.00	-0.00	Free Cut	-0.80%	-0.00%
					-0.00	-0.00	-0.00	-0.00%	-x%
					-0.00	-0.00	Free Cut	-0.80%	-0.00%
					-0.00	-0.00	-0.00	-0.00%	-x%
					-0.00	-0.00	Free Cut	-0.80%	-0.00%
					-0.00	-0.00	-0.00	-0.00%	-x%
					-0.00	-0.00	Free Cut	-0.80%	-0.00%
					-0.00	-0.00	-0.00	-0.00%	-x%
					-0.00	-0.00	Free Cut	-0.80%	-0.00%
					-0.00	-0.00	-0.00	-0.00%	-x%
					-0.00	-0.00	Free Cut	-0.80%	-0.00%
					-0.00	-0.00	-0.00	-0.00%	-x%
					-0.00	-0.00	Free Cut	-0.80%	-0.00%
					-0.00	-0.00	-0.00	-0.00%	-x%
					-0.00	-0.00	Free Cut	-0.80%	-0.00%
					-0.00	-0.00	-0.00	-0.00%	-x%
					-0.00	-0.00	Free Cut	-0.80%	-0.00%
					-0.00	-0.00	-0.00	-0.00%	-x%
					-0.00	-0.00	Free Cut	-0.80%	-0.00%
					-0.00	-0.00	-0.00	-0.00%	-x%
					-0.00	-0.00	Free Cut	-0.80%	-0.00%
					-0.00	-0.00	-0.00	-0.00%	-x%
					-0.00	-0.00	Free Cut	-0.80%	-0.00%
					-0.00	-0.00	-0.00	-0.00%	-x%
					-0.00	-0.00	Free Cut	-0.80%	-0.00%
					-0.00	-0.00	-0.00	-0.00%	-x%
					-0.00	-0.00	Free Cut	-0.80%	-0.00%
					-0.00	-0.00	-0.00	-0.00%	-x%
					-0.00	-0.00	Free Cut	-0.80%	-0.00%
					-0.00	-0.00	-0.00	-0.00%	-x%
					-0.00	-0.00	Free Cut	-0.80%	-0.00%
					-0.00	-0.00	-0.00	-0.00%	-x%
					-0.00	-0.00	Free Cut	-0.80%	-0.00%
					-0.00	-0.00	-0.00	-0.00%	-x%
					-0.00	-0.00	Free Cut	-0.80%	-0.00%
					-0.00	-0.00	-0.00	-0.00%	-x%
					-0.00	-0.00	Free Cut	-0.80%	-0.00%
					-0.00	-0.00	-0.00	-0.00%	-x%
					-0.00	-0.00	Free Cut	-0.80%	-0.00%
					-0.00	-0.00	-0.00	-0.00%	-x%
					-0.00	-0.00	Free Cut	-0.80%	-0.00%
					-0.00	-0.00	-0.00	-0.00%	-x%
					-0.00	-0.00	Free Cut	-0.80%	-0.00%
					-0.00	-0.00	-0.00	-0.00%	-x%
					-0.00	-0.00	Free Cut	-0.80%	-0.00%
					-0.00	-0.00	-0.00	-0.00%	-x%
					-0.00	-0.00	Free Cut	-0.80%	-0.00%
					-0.00	-0.00	-0.00	-0.00%	-x%



key is used for direct discount amount input.



key is used for direct percentage discount input.

-1.00	-2.00	-3.00	-1.00%	-2.00%	-3.00%
-4.00	-5.00	-10.00	-4.00%	-5.00%	-x%
-20.00	-50.00	Free Cut	-10.00%	-20.00%	Cancel

5.4.9. Sales Return Operation

- 1 Sales return operation is for customer returns.
- 2 Select an unused Vendor key from the list.
- 3 Place the goods on the platform and select the product name.



- 4 Press and hold the key. The item will be add into sales list. The weight and price will be displayed as negative values.

POS Admin Max 30kg Min 200g d=10g AZ 00.87 10802 2016-03-23 15:32									
Tare	kg weight	kg Unit Price	RMB/kg Price	RMB	0.00 1.00 11.98 11.98 ome				
Ranking	Group 1	Category 2	Page 3	More	No.	Product	Weight	Price	
aloe	apple	apricot	banana	Carambole	1	mango	-1.00	-15.96	
cherry	durian	figs	grapefruit	grapes	2	grapes	-1.00	-2.56	
haerthorn	kiwi	litchi	loquat	mango	3	ome	-1.00	-11.98	
mangosteen	mulberry	nectarine	nuts	ome	Items: 3 Total: -30.50				

- 5 Once the returning accumulation is completed, Click once



key to enter quick check out or press & hold to enter the normal the check out page.

- 6 If it's normal check out Select key to confirm.



- 7 Return total amount to the customer then confirm the amount. The sales return ticket will be printed.

No.	Product	Unit Price	Amount	discount	1	2	3		Back	
1	mango	15.96	-15.96	0.00	4	5	6	Remain	Delete Up	
2	grapes	2.56	-2.56	0.00	7	8	9	<<	Sales Slip Down	
3	ome	11.98	-11.98	0.00	.	0	00	CE	Pay Clear	
					Submit					
					-1.00	-2.00	-3.00	-1.00%	-2.00%	-3.00%
					-4.00	-5.00	-10.00	-4.00%	-5.00%	-x%
					-20.00	-50.00	Free Cut	-10.00%	-20.00%	Cancel
Item: 3										
Subtotal: -30.50										
Tax: 0.00										
Discount: 0.00										
Total: -30.50										

Note: Check Out Window's "Print" key can print additional receipts.

Note: Accumulating operation and return operation cannot be used concurrently.

No.	Product	Unit Price	Amount	discount	1	2	3		Back	
1	mango	15			Check Out				Delete	Up
2	grapes	2			Total: -30.50				Sales Slip	Down
3	one	11							Pay	Clear
									Submit	
Return:					30.50				-2.00%	-3.00%
										</

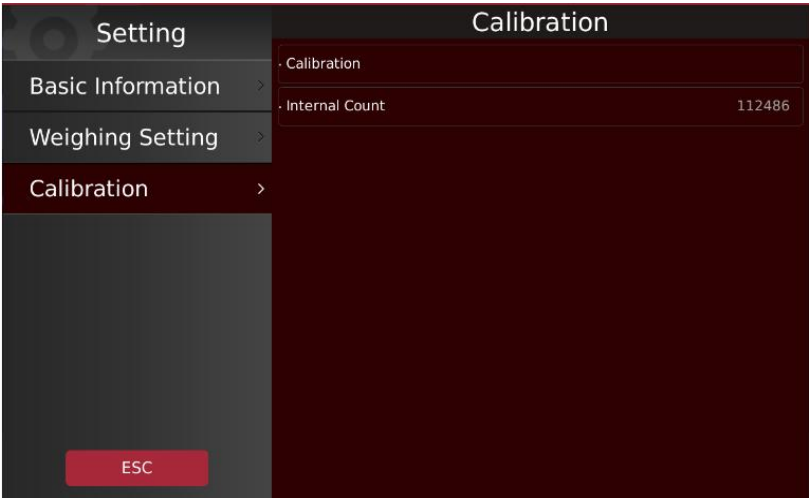
6. CALIBRATION

It's allows you to do the calibration by using different ways to use in the different environments.

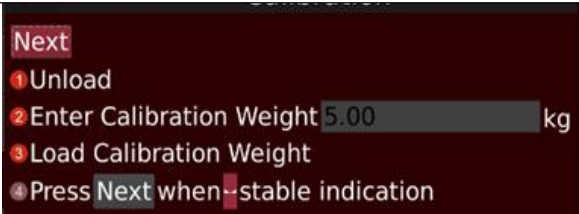
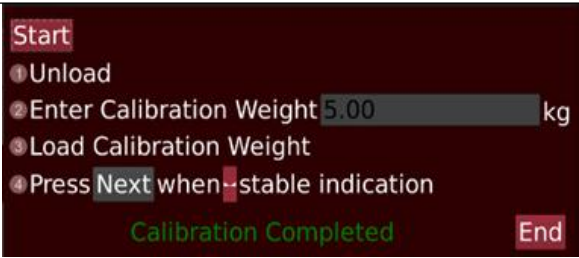


Click **Technical** key to enter parameter setting It may be ask to input password to access the parameter,

The default password is 999999999. Before to enter calibration mode, it's required to press calibration switch, locating below the scale.



Steps	Remarks
Calibration. Click "Start" key. 1) Unload (Remove goods from the plater, if any)	
Click "Next" key. 2) Enter Calibration Weight (Click the weight value field for entering test weight value. Better to use minimum 1/3 of the scale capacity)	

<p>Click “Next” key.</p> <p>3) Load Calibration Weight</p> <p>(Place the test weight on the platter)</p>	
<p>Click “Next” key.</p> <p>4) Press “Next” key</p> <p>(Calibration Completed)</p> <p>Click the “End” key for close the window or If the display shown fail, click “Start” key for continue again.</p>	

Note: OIML approved version must be press the calibration switch for accessing legally relevant function.

7. TROUBLE SHOOTING

The following table lists the most common problems along with their solutions and assists you to solve problems.

Problem	Possible cause	Common solutions
Cannot turn on power	Mains power is turned off Power supply is not plugged in Power supply faulty Display is turned off	Check power switch is turned on, and power LED is working. Verify the voltage going to the scale matches the power supply labels on the power module or scale.
Display is unstable	Air variation Pan is in contact with foreign materials or not installed correctly Sample is moving Vibrations from table Dramatic Temperature changed Power supply / battery faulty	Verify the scale is in an acceptable location and on a good table / surface. Verify the power supply is correct for the scale.
Weight value incorrect	Calibration error, Linearity error, Linearity calibrated with inaccurate weights Balance not leveled some materials between the sample and cover, Wrong weighing unit displayed	Calibrate again, pay attention to the test weight used, the stability of the scale, and the required weighing unit. If it's required do the linear calibration. Check pan is installed correctly. Verify installed in an acceptable location.
Cannot use Full Capacity	Overload Stopper touching pan support or bottom of the load cell *Transportation lock not removed, A/D circuit problem, Parameters set incorrectly, Load Cell or mechanics Damaged	Verify any objects under the pan or load cell, transporting lock, and verify pan installation. Check the weighing units used.
Not Linear	Overload stopper touching, Load cell or mechanics damaged A/D damaged	Verify any objects under the pan or load cell, transporting lock, and verify pan installation. Re calibrate and linear calibrate with ideal standard weights
Off Center Loading error	Adjust mechanism. Overload Stops not correct. Load Cell damaged	Verify any objects under the pan or load cell, transporting lock, and verify pan installation. Ensure load cell fixed correctly.
Touch screen incorrect	Touch screen need do correction Housing assembled by over tighten.	Connect a mouse, use mouse to enter touch screen correction for to calibrate touch screen. Loose housing screws, if overtighten.
System hang	Software error, need restart	Hold ON/OFF key for 6 seconds to restart the scale.

		Disconnect battery and charger, connect again and turn on the power
Disconnect AC adapter will turn off power	Battery low	Verify the batteries are rechargeable types and charging voltage getting proper. Plug AC adapter to charge battery. Replace battery
LCD off but power LED on	Scale in sleep mode System hang	Press ON/OFF key to back to working mode Hold ON/OFF key for 6 seconds to restart the scale. Disconnect battery and charger, connect again and turn on the power
Can't turn on power after update software by USB	System hang Update software incorrect, Used old core software.	Disconnect battery and charger, connect again and turn on the power. Use another USB flash driver to update software. Update core software.
Not Printing	Printer Format not select,	Select the print format as default or for the specific product .

7.1. Error messages

--ol--	Over load	Remove the load. Re calibrate
--UI--	Underload	Minus weight, check the platform and restart or calibrate.
Err 4	Zero setting error	Zero setting range exceeded due to switching on.(4%max) Make sure platform empty.
Err 19	Initial zero setting error	Calibrate the scale

In the case of errors which you cannot eliminate yourself and which are not described in these operating instructions, please contact T-Scale technical support team.

8. TECHNICAL DATA

8.1. General Specification

MODEL	IP30
Display	Operator Display: 10.1" TFT LCD Display Customer Display: 7" Colored Display
Display Resolution	10": 1280*800 px; 7":800*480;
Max Capacity	6kg/15kg; 15kg/30kg
Min Capacity	40g; 100g
Readability	2g/5g; 5g/10g
Max. Divisions	2x3000e
Weighing Units	kg, g, tj, gj, lb, oz, lz
Pan size	380x272 mm
Accuracy Class	Class III
Housing	ABS Plastic and Stainless Steel pan
Touch Control Mode	Resistance Screen
CPU	A17 Quard Core
OS	LINUX
RAM	2G
Data memory	16G NAND flash
Interface	2*RS232; 1*RJ11; 4*USB2.0; 1*RJ45 ;WIFI
Optional	Receipt bracket
Operation Temperature	-10° C to 40° C
Operation Humidity	<85%
Stabilisation Time	1 Seconds typical
Power	100~240VAC main power cord ; Optional Adapter: Out put :DC 24V/6350mA
ADC	Sigma delta
Internal counts	600,000
ADC update	Max 60 times /second
Load Cell	BX6 C3 (T-Scale) or L6D C3 (Zemic)
Load cell drive voltage	Max 5V/150mA
Net weight	8.5 kg
Gross weight	9.5 kg
Dimension	L:508xW:400xH:589

8.2. Label Printer Specification

Name	Description
Printer Type	Cassette Type
Printing Method	Direct Thermal
Printing Speed	100mm/s
Label Roll	Max Outer Diameter of Roll: 100mm Inner Diameter of Roll: 40mm Max Label Width: 60mm
Label Print Area	54 x 100mm (Max Width x Length)
Resolution	8dots/mm
Printing Type	Graphics, Logo, Large/small lettering, various font types and sizes, EAN barcodes, QR code
Label Base	Weight: 70~85g/m ² Thickness: 0.06 to 0.09mm Opacity: Min 85% Gloss: Min 65%
Paper Base	Weight: 67g/m ² Thickness: 55 to 65 microns Opacity: Min 43%

8.3. Receipt Printer Specification

Name	Description
Printer Type	Cassette Type
Printing Method	Direct Thermal
Printing Speed	90mm/s
Label Roll	Max Outer Diameter of Roll: 55mm Inner Diameter of Roll: 12mm Max Receipt Width: 58mm
Max Print width	48 mm

***Specifications are subject to change without notice.

T-Scale

TScale Electronics Mfg. (Kunshan) Co., Ltd.

99, Jingwei Road, Kunshan, Jiangsu, China

Tel : +86 512 57669080

www.t-scale.com