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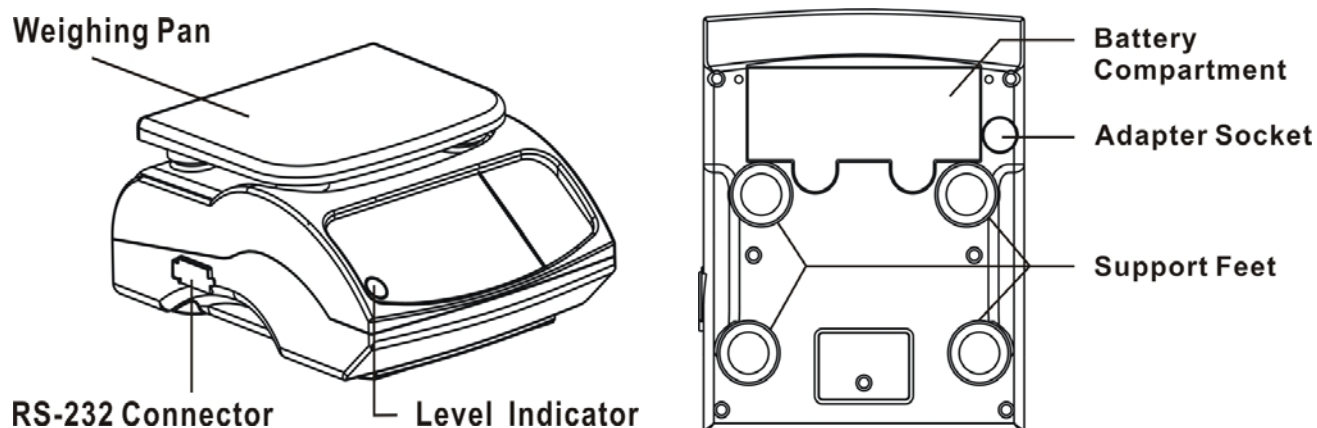
【Features】

- Internal resolution 1/60,000
- Stainless steel weighing pan
- Meets IP65-class dustproof and water-resistant
- 2 direct PLUs and 10 indirect PLUs
- Pay change function
- Power supply : AC adapter, rechargeable battery, or dry battery(optional)
- Auto power-off : 5, 10, 30, 60, 90 minutes or none selectable
- Auto zero tracking
- Optional RS-232 interface

【Precaution】

1. To install the scale onto a flat and steady base.
2. To avoid placing the scale in an environment where there are air heating, air cooling, vibrating and/or rotating devices around.
3. To avoid placing the scale in an environment where there is rapid temperature change.
4. To avoid placing the scale in an environment where electromagnetic field is generated around.
5. Do not impact directly upon the scale body and/or the weighing pan.
6. When the scale would not be used for a long period of time, then clean the scale and put it into the original box. Charge the scale every 3 months for assuring the life of the battery. Do charge the scale first before the next coming use.

【Product Overview】

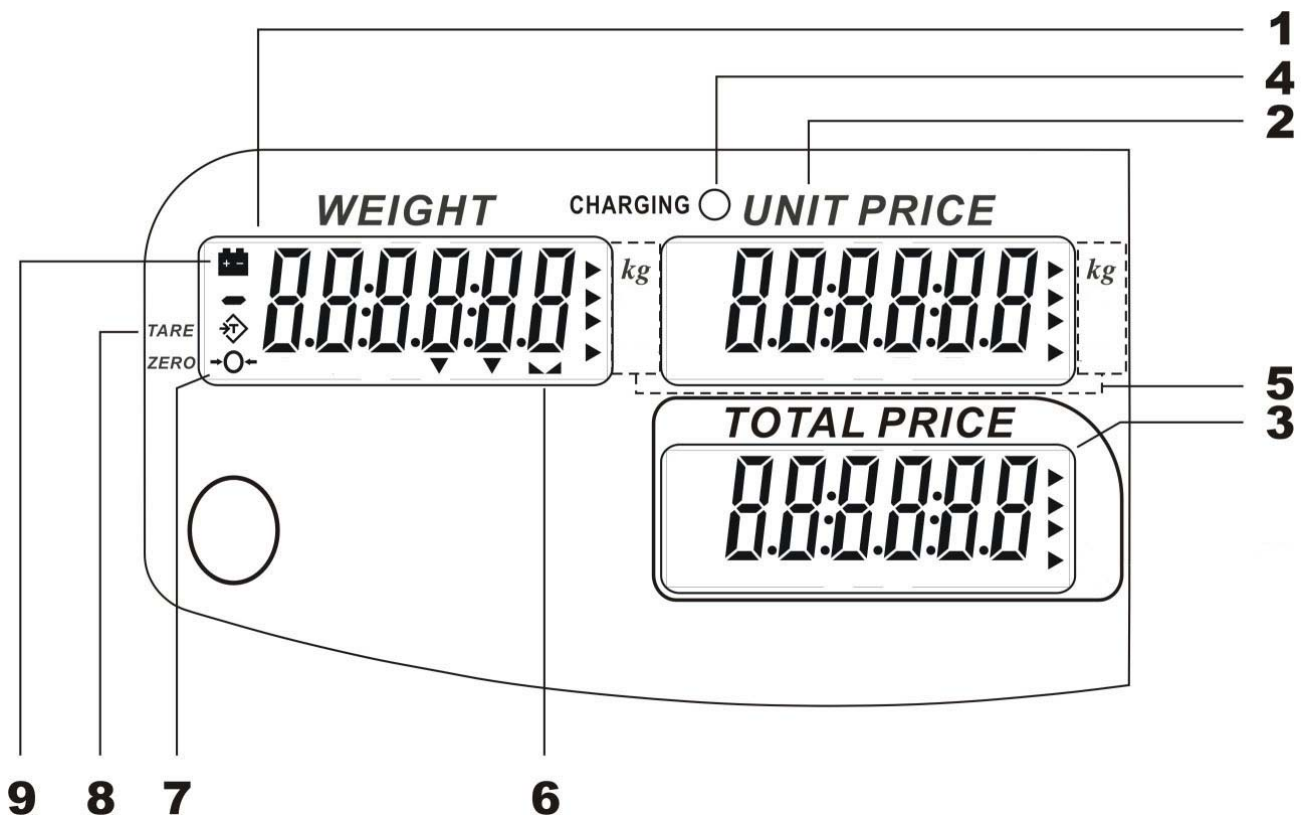






The locations of battery compartment and adapter socket are shown in the figure above. Be sure to use the right power supply — 9V/DC 400mA rated AC/DC adapter, or 6V/3Ah rechargeable battery or six pieces of UM-2 dry batteries(optional).

【Prior To Use】

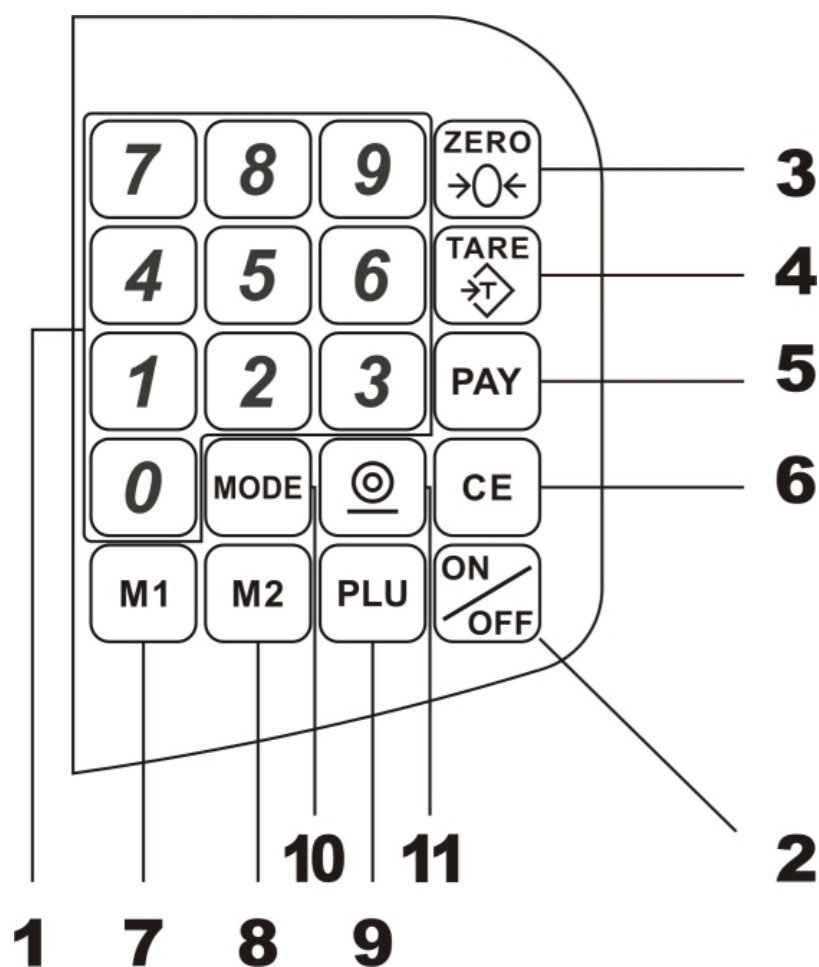
1. Charge the scale first before use.
2. Check whether your power supply voltage complies with that of the scale. Use independent power supply for avoiding interference.
3. Place the scale onto a flat and steady base. Adjust the feet on the bottom so that the bubble of leveling indicator is at the central.
4. Install the weighing pan correctly for assuring no direct and indirect interference.
5. Warm up the scale for at least 10 minutes before use for assuring more stable and accurate weighing result.








【Display Panel】








1. : Weight display
2. : Unit price display
3. : Total price display
4. **CHARGING** : Battery charging indicator
5. : Weighing unit indicator
6.  : Stable indicator
7.  : ZERO indicator
8.  : TARE indicator
9.  : Low battery indicator

【Keyboard Functions】



1.  ~  : Numerical keys.
2.  : On/off switch.
3.  : To reset the weight display to zero.
4.  : By pressing this key when a container is placed on the weighing pan, the weight of the container will be set as the tare weight. If without any weight placed on the pan, pressing the key will clear the tare weight.
5.  : In weighing price computing mode, press this key and then by numerical keys to input the pay amount, and the display will show the change. (Refer to the Chapter of Operation Functions)
6.  : To clear unit price input or to clear PLU data. (Refer to the Chapter of Operation Functions)

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7.  : Quick unit price recall key. To recall pre-set unit price
 8.  : Quick unit price recall key. To recall pre-set unit price
 9.  : Indirect unit price recall key. To recall pre-set unit price(up to 10 indirect PLUs available, from 0 to 9)
 10.  : To select the next parameter in the parameters setup mode.
 11.  : To activate a printer connected to print.

【 Operation Functions 】

■ Parameters Setting

In normal weighing mode, press **MODE** to enter parameters setting mode. Or press **MODE** without releasing and switch on the scale to enter parameters setting mode. In WEIGHT display, parameter's value is shown. In UNIT PRICE display, parameter's name is shown. In TOTAL PRICE display, the number sequence of parameter is shown (P-X).

P-1 : Auto power-off

Press **M1** or **M2** to select one of [OFF、5、10、30、60、90] (minutes) for activating auto power-off function. Press **CE** to save the change and return to normal weighing mode, or press **MODE** to the next parameter setting.

P-2 : Backlight

Press **M1** or **M2** to select one of [OFF、AUTO、ON], as shown in the table below. Press **CE** to save the change and return to normal weighing mode, or press **MODE** to the next parameter setting.

OFF	:	Backlight function is turned off
AUTO	:	Backlight function is automatic turned on when weighing load is stable.
ON	:	Backlight function is turned on.

P-3 : Warning/indicating beep

Press **M1** or **M2** to select one of [OFF、ON] for disable/enable warning/indicating beep. Press **CE** to save the change and return to normal weighing mode, or press **MODE** to the next parameter setting.

P-4 : Auto zero tracking

Press **M1** or **M2** to select one of [OFF、ON] for disable/enable auto zero tracking. Press **CE** to save the change and return to the normal weighing

mode, or press **MODE** to the next parameter setting.

P-5 : **Printer type connected**

Press **M1** or **M2** to select one of [OFF · NRML-2 · BP-443 · NRML-1], as shown in the table below. Press **CE** to save the change and return to normal weighing mode, or press **MODE** to the next parameter setting.

BP-443	:	BP-443 printer
NRML-1	:	SH-24 printer

P-6 : **Decimal point**

Press **M1** or **M2** to select one of [0 · 1 · 2 · 3 · 4] for the number of digit(s) right to the decimal point of UNIT PRICE as well as TOTAL PRICE. Press **CE** to save and return to the normal weighing mode, or press **MODE** to the next parameter setting.

P-7 : **BAUD rate**





Press **M1** or **M2** to select one of [9600 · 4800 · 2400 · OFF] for RS-232 data transmission rate. Press **CE** to save the change and return to normal weighing mode, or press **MODE** to the next parameter setting.

P-8 : **Printing mode**



Press **M1** or **M2** to select one of [KEY · CONT · STABLE · OFF] for printing mode function. Press **CE** to save the change and return to normal weighing mode, or press **MODE** to the next parameter setting.

KEY	:	Data will be sent to print only when printing key is pressed
CONT	:	Data will be sent to print continuously
STABLE	:	Data will be sent to print when stable sign appears
OFF	:	Printing function off



P-9**Auto clear unit price**

Press  or  to select one of [OFF \ ON] for disable/enable auto unit price clear function. (When the function is enabled, the scale will clear UNIT PRICE automatically whenever the object is removed and the weighing pan is empty for 5 seconds.) Press  to save the change and return to the normal weighing mode, or press  to the first parameter setting.



P-10**Currency symbol**

Press  or  to select one of [OFF \ ON] for disable/enable the Euro coin symbol for print out. When this function is enabled will the Euro currency symbol be printed out from the SH-24 dot matrix printer. When this parameter is disabled will the \$ sign be printed out from the SH-24 dot matrix printer. (Please contact your dealer for a customized label printout for the BP-443 label printer.)

■ ZERO

1. Press  to set/reset the scale's indication to zero. The Zero sign  will appear in the weight display.

■ Tare function

1. Put a container onto the weighing pan. Press  to activate tare function and tare symbol will appear in the weight display.
2. When tare function is no longer needed, empty the weighing pan, and then press .

■ Price computing weighing

1. Put one item onto the weighing pan. Key in the item's unit price. And then unit

price, weight, and total price will be shown, respectively.

2. Press back to the normal weighing mode.

■ Pay change

1. In normal price computing mode. Press , Display will show "0", "PAY", "Total Price" in WEIGHT, UNIT PRICE and TOTAL PRICE display.

Key in the amount paid by customer, this amount will be shown in WEIGHT display, and the calculated changes will be shown in TOTAL PRICE display with repeated beeps. Press or will return the scale back to normal weighing mode.

■ PLU set-up(frequent unit price memories)

This scale offer two sets of direct PLU(and) and 10 indirect PLU () which allow user to pre-set some unit prices for frequent use.

1. Direct PLU(and) set-up
 Press for three seconds, will be shown in UNIT PRICE display.
 Press to clear the digits on TOTAL PRICE and then key in the unit price data. (Unit price data will be flashing shown in TOTAL PRICE display.) Press to confirm. (The set-up procedure for is the same with)
2. Indirect PLU () set-up
 Press for three seconds, "item" will be shown in WEIGHT and "0" flashing in UNIT PRICE. Press then , the TOTAL PRICE display will be flashing. Key in the first unit price to be memorized and then to confirm.
 Now the "item" will be shown in WEIGHT and "0" flashing in UNIT PRICE again

for user to key in the second indirect PLU. Press **1** then **CE** , then the second unit price.

Repeat the above to set up the contents of up to 10 PLU. For leaving the PLU set-up mode, press **CE** key right after “item” , “0” flashing shown

■ PLU recall

1. Press **M1** or **M2** for direct PLU recall.
2. Press **PLU** follow by **0** ~ **9** to select the indirect PLU number to be recalled.

【Options】

Optional RS-232 could be provided with JPG for connecting with printer or PC. Whenever RS-232 option is needed, please contact your local agent.

RS-232 Output

Baud Rate : 2400 、 4800 、 9600

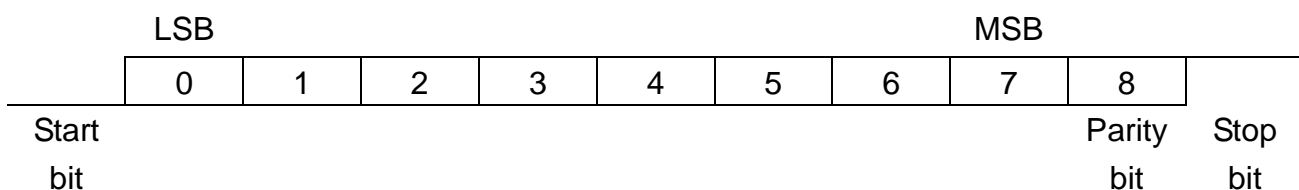
Data Bit : 8

Parity : N (None)

Stop Bit : 1

Code : ASCII

Bit Format :



Printing examples :

<u>SH24 printer</u>
Wt : 5.25 kg
Ut : 100
Tt : 525

【Error Messages & Troubleshooting】

Error message	Error status	Possible solutions
<i>EUnSt</i>	The scale is in an unstable state when power on.	<ol style="list-style-type: none"> 1. There may be interference to the weighing pan. 2. Check whether battery capacity is OK 3. Inquire agent/rep for service
<i>PHI</i>	The initial zero point more than +10% of the maximum capacity	<ol style="list-style-type: none"> 1. Recalibrate the scale 2. Check whether there is interference to the weighing pan.
<i>PLo</i>	The initial zero point less than -10% of the maximum capacity	<ol style="list-style-type: none"> 1. Recalibrate the scale 2. Check whether there is interference to the weighing pan
<i>EnoEE</i>	Malfunction in parameters memory storage and/or the EEPROM IC	<ol style="list-style-type: none"> 1. Recalibrate the scale 2. Inquire agent/rep for service
<i>ECALF</i>	There is no calibration data stored.	Recalibrate the scale
-----	The weight load is over the maximum weighing capacity + 9e.	Remove the over weight