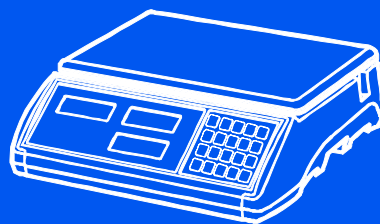


ER^{JR} SERIES

Price Computing Scale



CAS

www.globalcas.com

OWNER'S MANUAL

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PRECAUTIONS

Warning

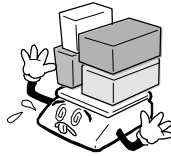
Precautions when installing the scale. To ensure that you get the most from your scale, please follow these instruction.

Do not disassemble the scale.

When any damage or defect occurs, contact your CAS authorized dealer immediately for proper repair.



Do not overload beyond the maximum weight limit.



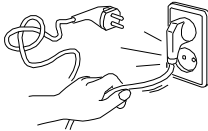
Scale must be grounded to minimize electricity static.

This will minimize defect or electric shock.

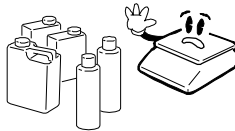


Do not pull the plug by its cord when unplugging.

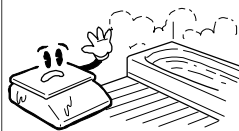
Damaged cord could cause electric shock or fire.



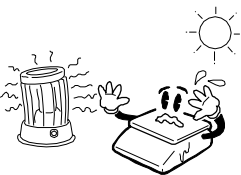
To prevent from fire occurring, Do not place or use the scale near flammable or corrosive gas.



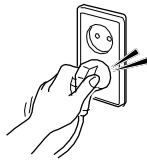
To reduce electric shock or incorrect reading, Do not spill water on the scale or place it in humid condition.



Avoid placing the scale near heater or in direct sunlight.

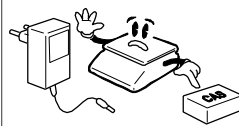


Insert plug firmly to wall outlet to prevent electric shock.



Use proper Adapter.

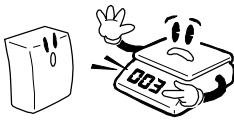
Incorrect adapter could damage the scale.



Attention

Make sure to plug your scal into the proper power outlet. For maximum performance, plug into a power outlet 30 minutes before the usage for warm up.

For consistent and accurate reading, maintain periodical check by your CAS authorized dealer.



Avoid sudden shock to the scale.



Grab on the bottom of the scale when moving.



Keep the scale away from other electromagnetic generating devices.

This may interfere with accurate reading.



Place the scale on firm and temperature consistent environment.



By adjusting 4 corners of the scale, set the scale even using the built in scale leveling indicator.



Take the battery out when scale is not in use for long time. Leakage from the batteries is hazardous.



Risk of explosion if battery is replaced by an incorrect type. Dispose of used batteries according to the instruction.



Correct type of battery

PREFACE

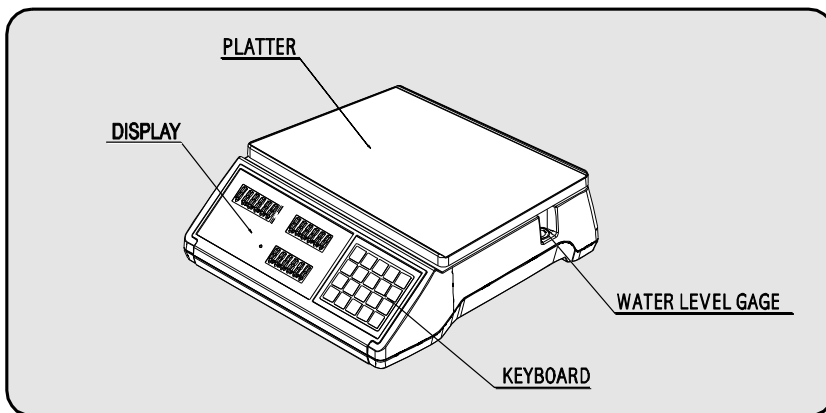
Thank you for purchasing your CAS ER^{JR} scale.

CAS scales are designed and produced under rigid quality control to deliver outstanding performance, reliability and long life.

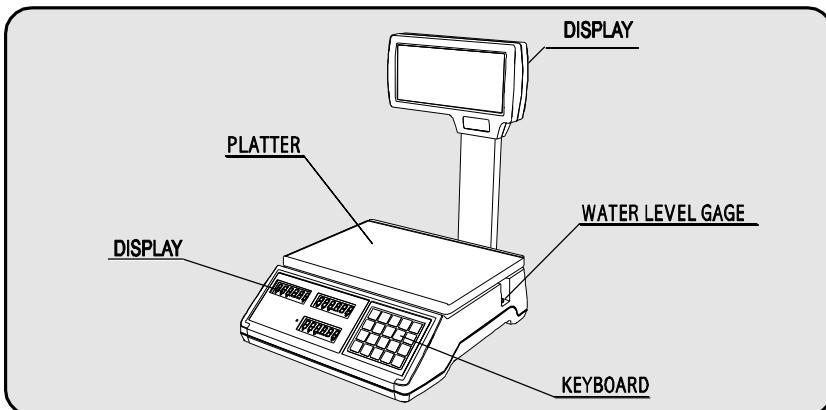
This manual will help you with the proper operation and care of your new CAS ER^{JR}. Please review the ER^{JR} scale manual before you use the scale and keep it handy for future reference.

OVERALL VIEW

STANDARD TYPE

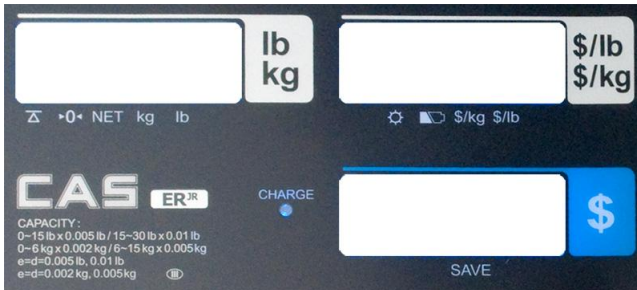


POLE TYPE

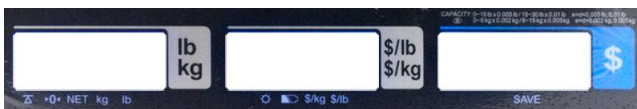


DISPLAY & KEYBOARD

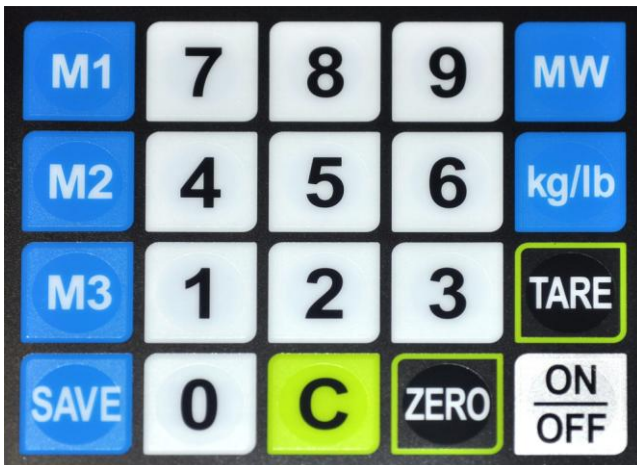
Front Display




Rear Display







KEYBOARD



■ Table : Key Functions

KEYS	FUNCTIONS
0 ~ 9	Numbers import
M1 ~ M4	Direct PLU keys
*	Function key, PLU restore, Push more than 2 second when using PLU Restore mode or finalize sales transaction
+	To make several sales transaction by adding up
C	To clear data
▷0◁	To set zero
▷T◁	To set up or clear tare value
	To turn on/off the scale or backlight

■ Table : Symbols on Display

SYMBOL	DESCRIPTION
 (▼)	Weight steady
▷0◁ (▼)	To adjust zero
NET (▼)	Tare on
 (▼)	Backlight on
 (▼)	Low power warning
SUM (▼)	Used to call a total price of add up transactions
	Charge status

OPERATIONS

Programming Mode

Chapter 1. Basic Operation

- a. To turn on/off scale
- b. To turn on/off backlight
- c. Zero function
- d. Tare function
 - One time tare
 - Successive tare

Chapter 2. PLU Saving & Calling-up

- a. Saving unit price on PLU
- b. Saving PLU name (option)
- c. Calling up PLU

Chapter 3. User' s Set-up Mode

- a. Auto power - off
- b. Backlight ON/OFF function
- c. Brightness function
- d. Low battery backlight auto off function
- e. Selecting the printer

Chapter 4. Formatting Printing Receipt

- a. Using Printer
- b. Receipt header setting
- c. Receipt currency (unit) setting
- d. Receipt date setting

Sales mode

Chapter 5. Sales transaction

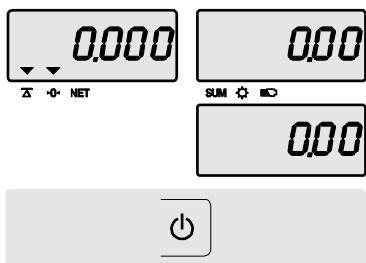
- a. Input the unit price through the number key
- b. Input the unit price through calling up the PLU
- c. Add up the total amount
- d. Inspect or clear the total amount

Chapter 6. EURO Setting Method (Option)

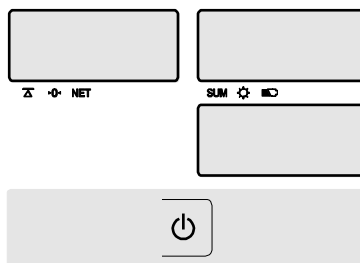
- a. Saving EURO rate
- b. Switching currency

Chapter 1. Basic Operation

a. To turn on/off the scale

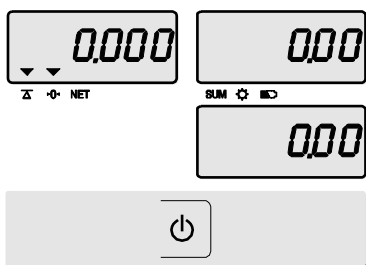


① Press the **ON/OFF** key to turn on.

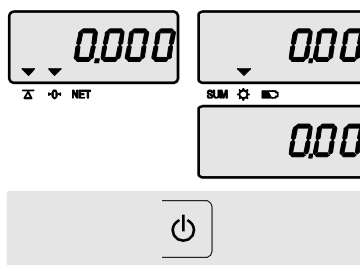


② Press the **ON/OFF** key for a few seconds to turn off.

b. To turn on/off the backlight

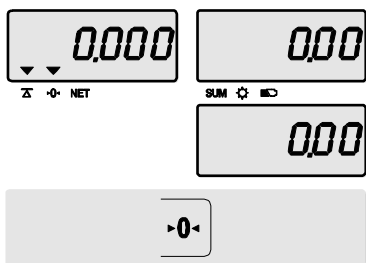


① Press **ON/OFF** key for a few seconds under the power on.



② Press **ON/OFF** key again under the backlight on.

c. Zero function

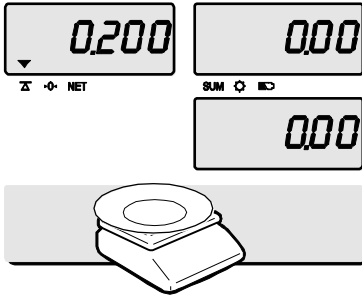


① Press **ZERO** key to set Zero

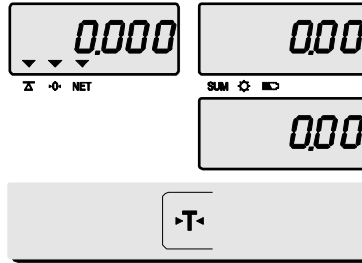
d. Tare function

Tare means the weight of container. You may use tare function when you weigh an item with container and measure only the weight of item.

■ One time tare

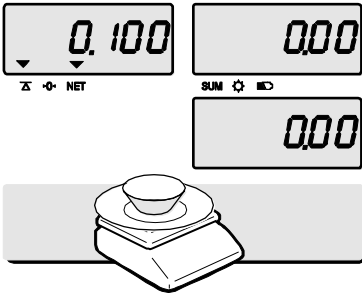


① Place a container on the platter.
EX) 200g of tare.

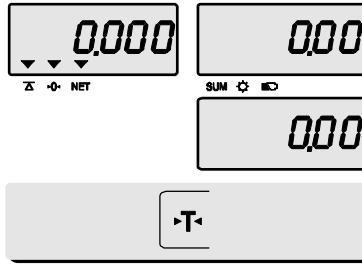


② Press TARE key to set zero point.
EX) 200g of tare.

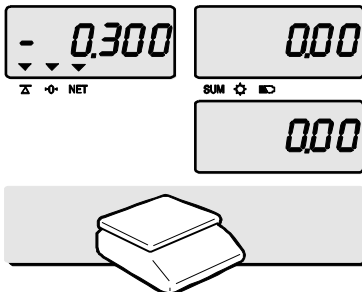
■ Successive tare



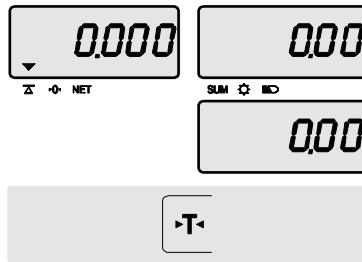
③ Place another container on the platter. EX) 100g of tare.



④ Press TARE key to set zero point.



⑤ After weighing item remove all of the container from the platter.



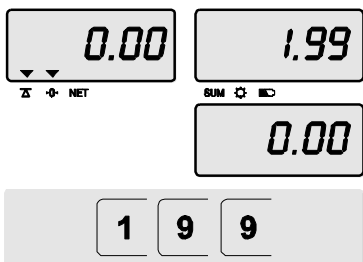
⑥ Press TARE key again to set zero.

Chapter 2. PLU Saving & Calling-up

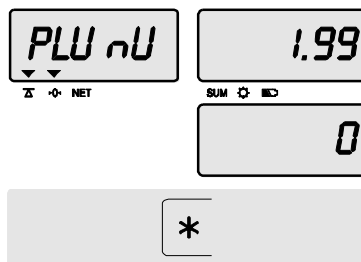
a. Saving unit price on PLU

This section explains how to save unit price in PLU.

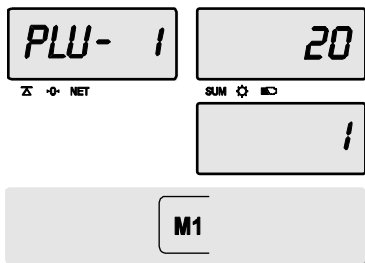
	Number of PLU	Range	Remarks
PLU name	4	1~4	



- ① Press number key to input unit price you wish to have. EX)1.99



- ② Press “*” key for a few seconds to enter the PLU's state can be pre-establish

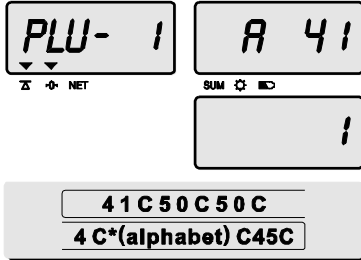


- ③ Press PLU key (**M1** ~**M4**) to input a direct PLU address.

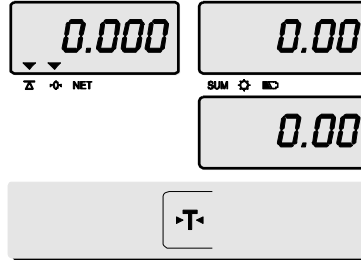
Ex) **M1**

b. Saving PLU name (Option)

- **C** key is to input, save a character, and move to next character (or byte).
- **TARE** key is to move next programming menu.

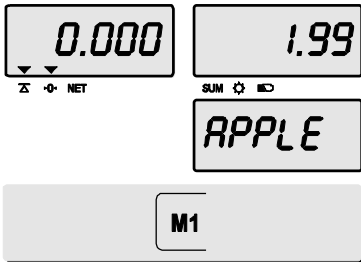


① Input appropriate ASCII codes to save the PLU name.
 Ex) "APPLE" is "4, 1, C, 5, 0, C, 5, 0, C, 4, C(alphabet), C, 4, 5, C".

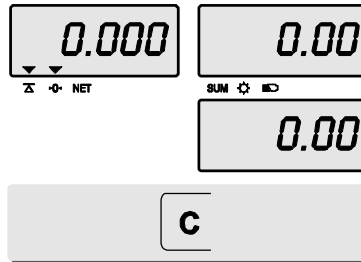


② Press **TARE** key to exit to normal weighing mode or **C** key up to maximum 8th byte. Then automatically exit to normal weighing mode.

c. Calling up PLU



① Press **M1 ~ M4** key to call up PLU. e.g. Press **M1** key.

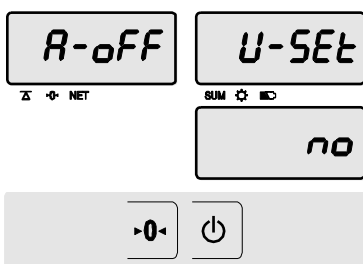


② Press **C** key to clear and return to the normal weighing mode.

Chapter 3. User's Set-up Mode

This section explains how to set up the following functions.

Functions	Options	Remarks
a. Auto power-off	NO/10/30/60	
b. Backlight ON/OFF	OFF/ON/3/5/10	
c. Brightness function	1 ~ 7	Default 3
d. Low battery backlight auto off	OFF/ON	
e. Printer selection	NON/DEP-50/DLP-50	



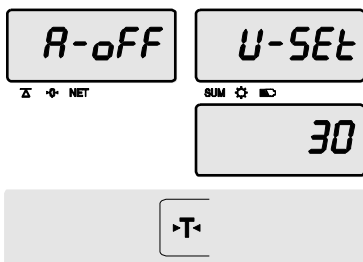
① To get into "User's Set-up Mode" press **ON/OFF** key pressing and holding **ZERO** key.

- Press **ZERO** key to save current option and move to next function setting mode.
- Press **TARE** key to move to other next option.

a. Auto power-off

This section explains how to set backlight on & off function and automatic off function.

Options	Description	Remarks
NO	<ul style="list-style-type: none"> • No auto power-off. 	
10 (minutes)	<ul style="list-style-type: none"> • Auto power-off in 10 minutes when no use. 	
30 (minutes)	<ul style="list-style-type: none"> • Auto power-off in 30 minutes when no use. 	
60 (minutes)	<ul style="list-style-type: none"> • Auto power-off in 60 minutes when no use. 	

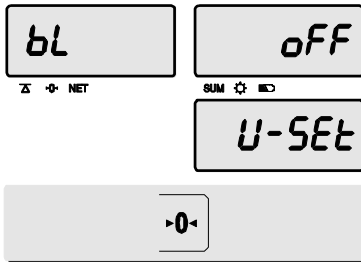


① Select an option you wish to have by using **TARE** key. Ex) 30 (minutes).

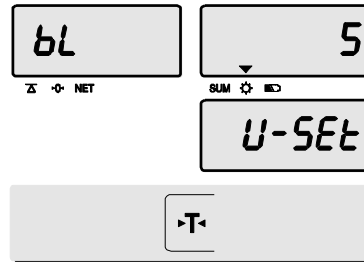
b. Backlight ON/OFF function

This section explains how to set backlight on & off function and automatic off function.

Options	Description	Remarks
OFF	Backlight always off	
ON	Backlight always on	
3 (Seconds)	Automatic backlight-off when not in use for 3 seconds.	
5 (Seconds)	Automatic backlight-off when not in use for 5 seconds.	
10 (Seconds)	Automatic backlight-off when not in use for 10 seconds.	



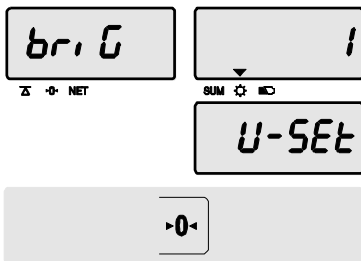
① Press **ZERO** key to move next function setting, backlight **ON/OFF**.



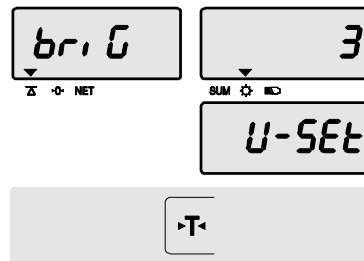
② Use **TARE** key to select one of backlight auto power-off option or backlight **ON/OFF**.
Ex) Select 5 seconds auto power-off option.

c. Brightness function

This section explains how to set brightness level (1 ~ 7)



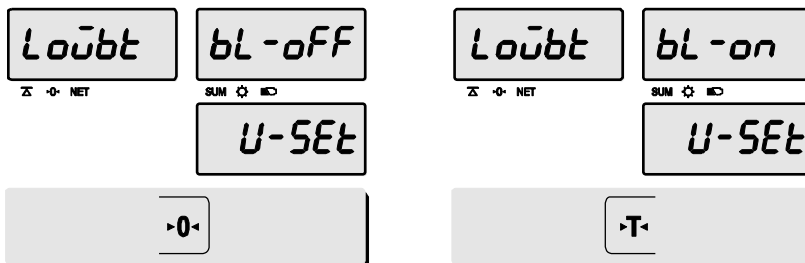
③ Press **ZERO** key to move next function setting, backlight brightness.



④ Press **TARE** key to select brightness (1~7).

d. Low battery backlight auto off function

This section explains how to set Backlight Auto Off. If the scale uses backlight Auto Off function, it will turn off when low battery indicator occurs



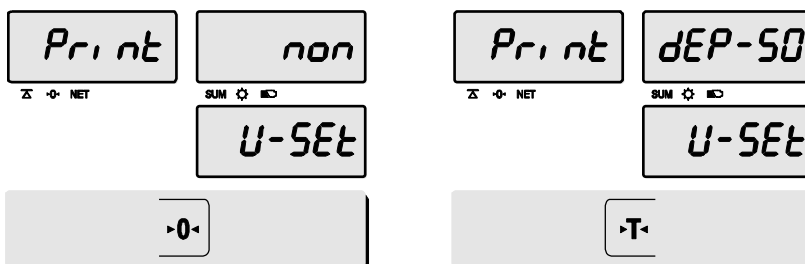
① Press **ZERO** key to move next function setting, low battery backlight auto off.

② Press **TARE** key to select backlight on/off.

e. Selecting the printer

This section explains how to select the printer option when you'd like to use the printer connected to ER^{JR}.

Options	Description	Remarks
NON	No printer in use	
DEP-50	DEP-50 printer interface	
DLP-50	DLP-50 printer interface	



① Press **ZERO** key to move next function set selecting the printer.

② Select the printer you're using with ER^{JR} by pressing **TARE** key. EX) DEP-50

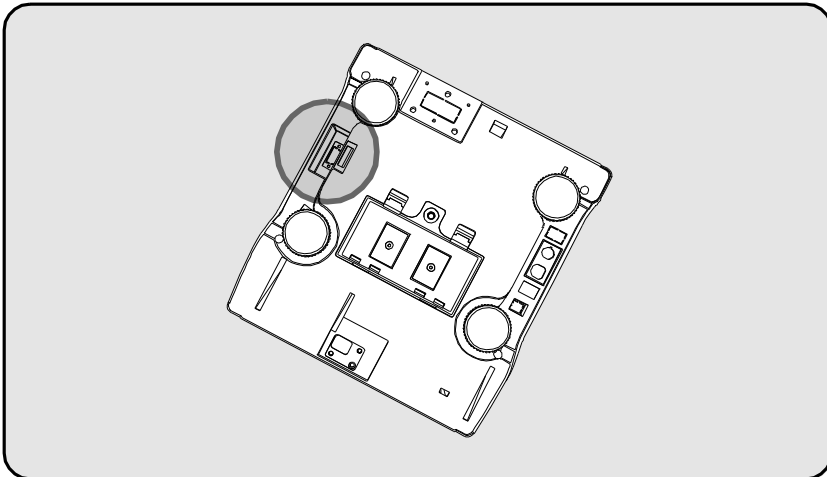
Chapter 4. Formatting Printing Receipt

This chapter explains how to set the receipt format in the following fields.

Options	Description	Remarks
HEADER	To input characters you wish to have on the receipt header.	Maximum 1,2 line / 24 characters, 3 line / 16 characters for each line
UNIT	To input currency symbol or characters you wish to have on the receipt.	Maximum 8 characters
DATE	To input date on the receipt.	

a. Using Printer

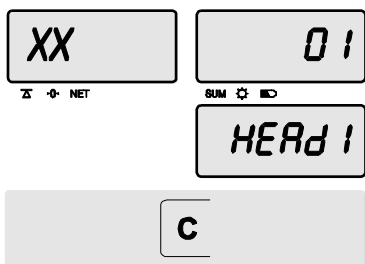
Please connect your printer to RS-232C port, which is located at the gray part on the picture, using RS-232C cable.



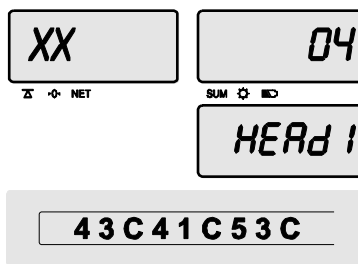
b. Receipt header setting

Options	Description	Remarks
HEADER	To input characters you wish to have on the receipt header.	Maximum 1,2 line / 24 characters, 3 line / 16 characters for each line

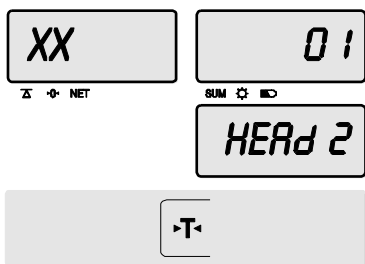
User may input the name of store, telephone number, or other expressions he/she wishes to have on the receipt.



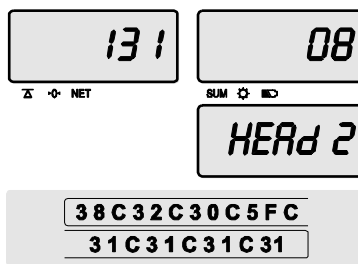
① Hold down **C** key and press **ON/OFF** key under the scale power off. "01" on the "Unit Price" display represents that you are ready to input the first character.



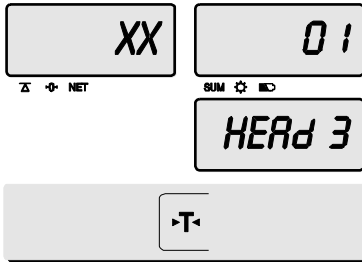
② Input appropriate ASCII codes (page on 30) you wish to have. Ex) CAS.



③ To save it and go next header line press **TARE** key.

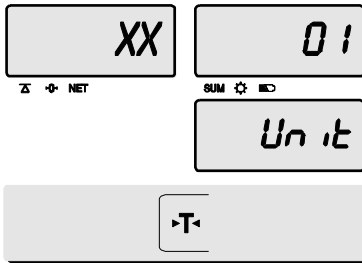


④ Using ASCII code you can input appropriate data on Header 2.
Ex) 820-1111, telephone #.

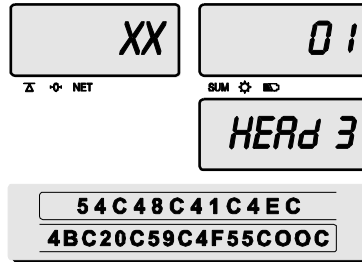


⑤ To save it and go next header line press TARE key.

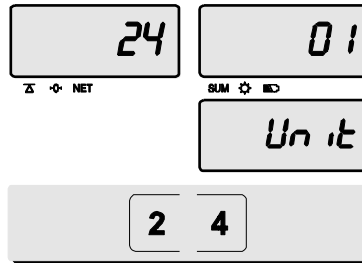
c. Receipt currency (unit) setting



① Initial currency (unit) display status.

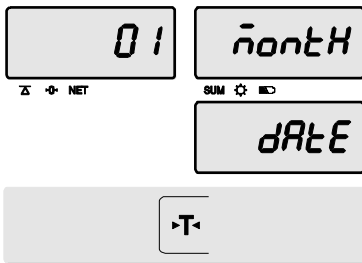


⑥ Using ASCII code you can input appropriate data on Header 3.
Ex) THANK YOU

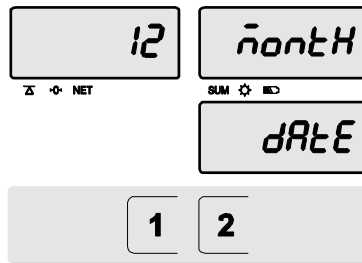


② Using ASCII code you can input appropriate character or currency symbols on UNIT.
Ex) \$

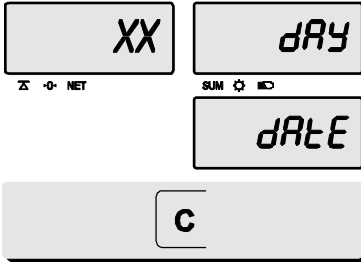
d. Receipt date setting



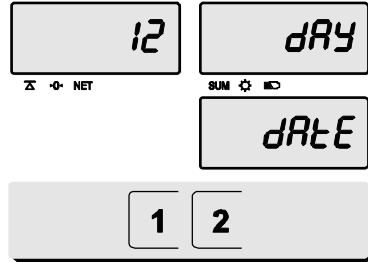
① To save it and go to "Initial DATE display" status press TARE key.



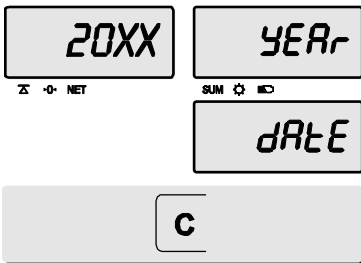
② Just input appropriate month you wish to have, not using ASCII code.
Ex) 12 (December)



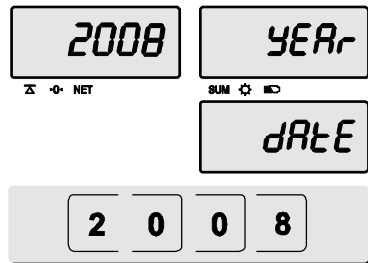
③ Press **C** key to go to next "DAY" setting.



④ Just input appropriate day you wish to have, not using ASCII code.
Ex) 12th day



⑤ Press **C** key to go to next "YEAR" setting.



⑥ Just input appropriate year you wish to have, not using ASCII code.
Ex) Year 2008

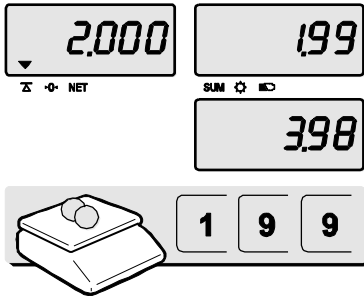
- If you press **C** or **T(TARE)** key you can automatically go to normal weighing mode.

Chapter 5. Sales transaction

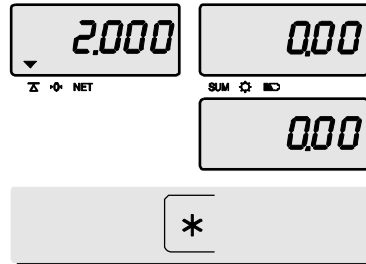
ER^{JR} can provide inputting the unit price through the numeric key and calling up PLU.

a. Input the unit price through the numeric key

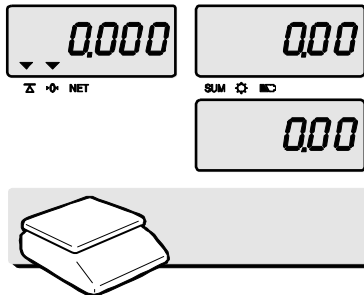
This section explains how to input the unit price through the numeric key and complete the sales transaction.



① Place an item on the platter and press appropriate numeric keys to input unit price. EX) 1.99 for unit price.

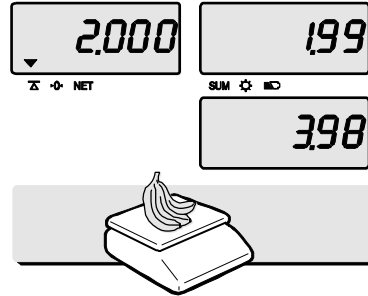
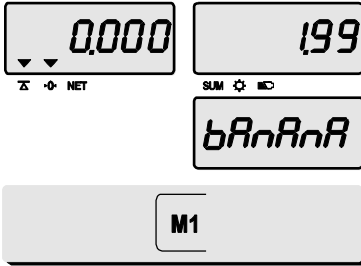


② If you press * key add this transaction to daily total amount and number of sales data., Unit-price & total-price window is clear.
*if the scale is connected printer, sale transaction data will printed out.



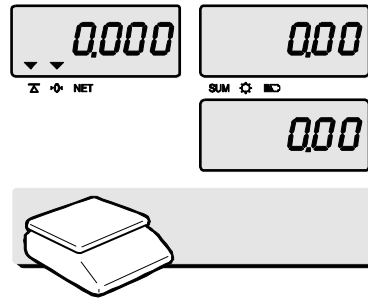
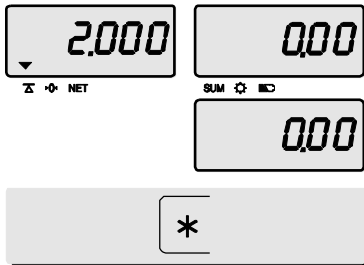
③ Remove the item from the platter.

b. Input the unit price through calling up PLU



① Press **M1~M4** key can call up the PLU. EX) **M1**

② Place an item on the platter.



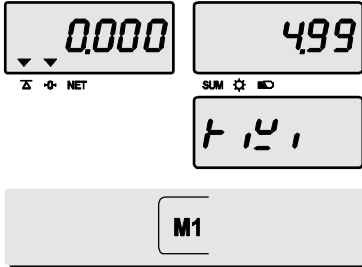
③ If you press “*****” key add this transaction to daily total amount and number of sales data.,Unit-price & total-price window is clear.

④ Remove an item on the platter.

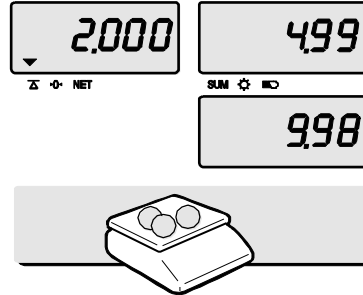
***if the scale is connected printer, sale transaction data will printed out**

c. Add up the total amount

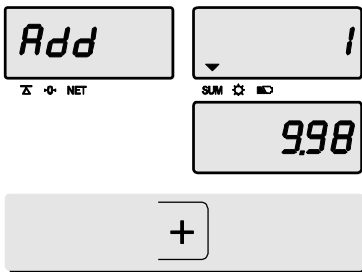
Press **+** key to make the adding-up transactions. You may either call up PLU directly to input the unit price.



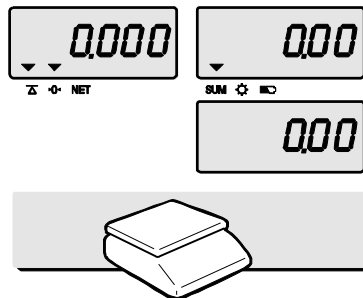
① Press **M1~M4** key to call up the PLU directly. e.g. **M1**.



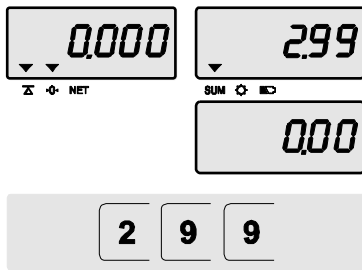
② Place an item on the platter.



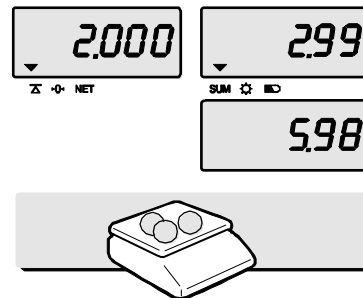
③ Press **+** key.



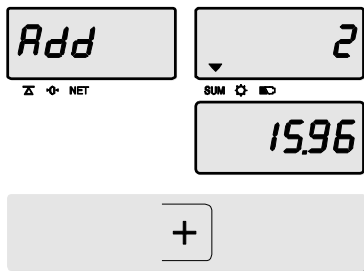
④ Remove the item from the platter.



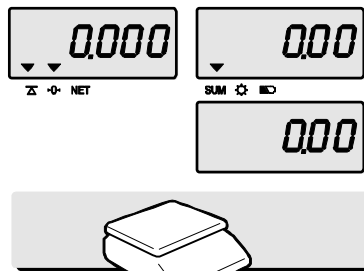
⑤ Input the unit price through the number key.
EX) 2.99 for peanut dessert.



⑥ Place the item on the platter.



⑦ Press + key. " Total price " display says total price added. And " Unit " display says the number of sales transactions added

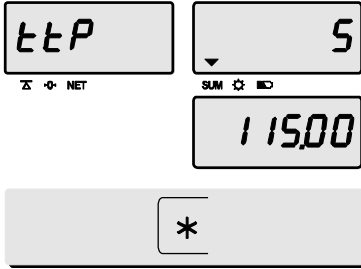


⑧ Remove the item from the platter

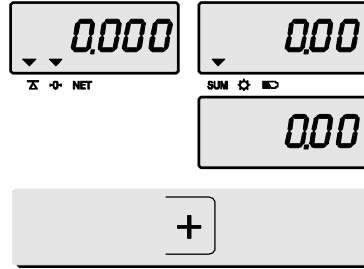
**You can also place the item on the platter first, and then input the unit price
The maximal adding-up times is 1000, and the maximal total price is 999,999**

d. Inspect or clear the total amount

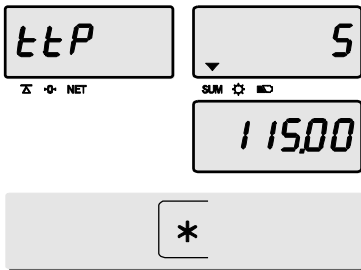
Checking total account.



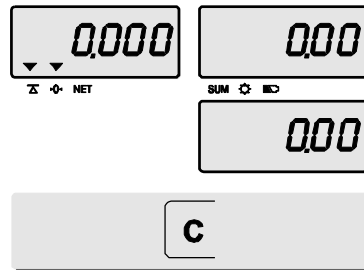
① Press * key to inspect the total amount.
e.g. total amount=115.00. total number of transaction = 5



② Press + Key to go to normal weighing mode.



③ Press *key to inspect the total price.
e.g. total amount=115.00, total number of transaction=5.



④ Press C key to clear the total amount, and exit to the normal weighing mode.

Chapter 6. EURO Setting Method(Optional)

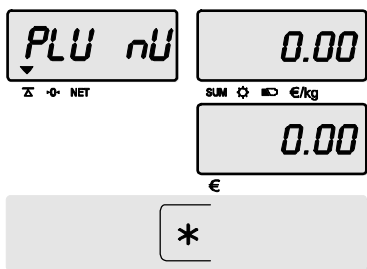
■ KEYBOARD



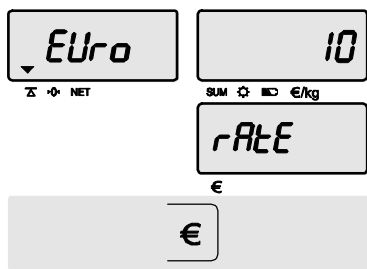
■ Table : Key Functions

KEYS	FUNCTIONS
0 ~ 9	Numbers import
M1 ~ M4	Direct PLU keys
*	Function key, PLU restore, Push more than 2 second when using PLU Restore mode or finalize sales transaction
€	Used to set Euro to local currency, and vice versa
C	To clear data
>0<	To set zero
>T<	To set up or clear tare value
⏻	To turn on/off the scale or backlight

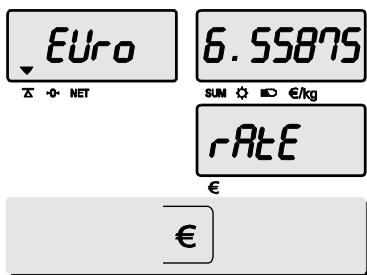
a. Saving EURO rate



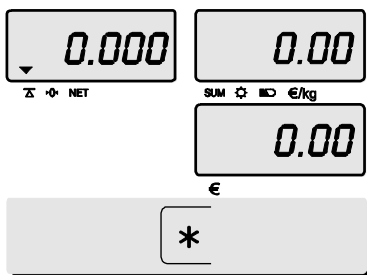
① Press the * key for a few seconds



② Press the € If you have entered the EURO rate before, you will see the previous EURO rate '10' in the unit price display.

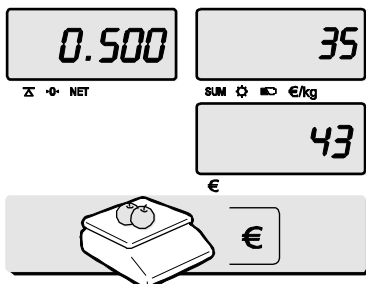


③ Enter appropriate euro rate.
For example, enter €1 = 6.55878 (local currency). To move decimal point press € key five time in the total price display.
You can't input '0' as EURO rate value

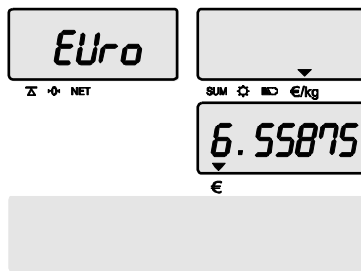


④ Press the * key for a few seconds to save it, then you will go to normal mode.

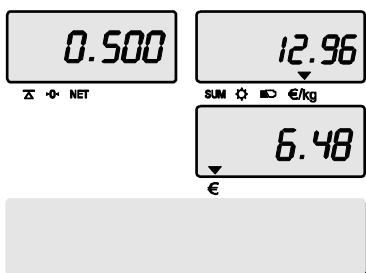
b. Switching currency



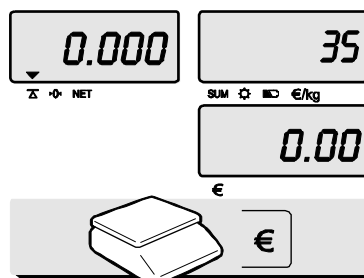
- ① Place an item on the platter and press **€** key in the normal weighing mode



- ② You will see the EURO currency rate for 2 seconds and this message is disappeared.



- ③ Please make sure EURO currency symbol is on.



- ④ Remove the item from the platter and press **€** key to go back to the normal weighing mode.

*NOTE : € 6.55875 \approx € 6.56 in this example
 € 6.55475 \approx € 6.55 in this example

*EURO Conversion Option

- PLU Unit price is only available in NON EURO.
- Total Price(TTP Call, DTP Call) is automatically showed in the display that depending on the current unit
- ADD mode is only available when you use EURO or NON EURO currencies separately.

Ex) You could not add 2 items of EURO currency and add another item in NON EURO item in order to do so, after the Total Price Transaction then you would be able to use the NON EURO currency

ERROR MESSAGES & SPECIFICATION

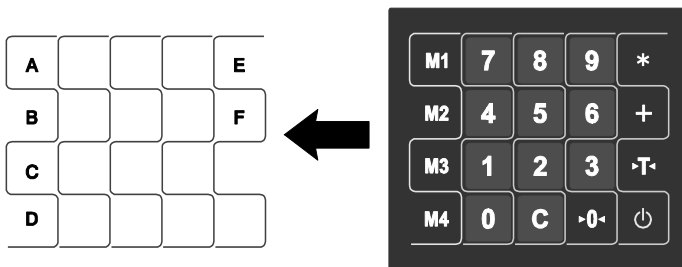
■ Table : Error Message

Error Message on Display	Description	Solution
"Err 0"	The "Err 0" occurs when scale is not stable.	Remove unstable facts.
"Err 1"	The "Err 1" occurs when a current zero point has shifted from the last span calibration.	Please call your CAS dealer.
"Err 3"	The "Err 3" is an overload error.	Please remove the weight.
"Err 4"	The "Err 4" is leakage of payment.	Scale needs more payment.
"Err 5"	The "Err 5" means there is already tare.	Remove the tare.
"Err 6"	The "Err 6" means total price summation is over.	Please change unit price or remove some weight.
"Err 8"	The "Err 8" means Euro rating price is over.	Please change unit price or change euro rate.
"Err 13"	The "Err 13" means the soft key code is broken.	Please try to find out which key lost soft key code and then input this code again.
"Err 15"	The "Err 15" means 1/2 or 1/4 unit price is over.	Please change unit price

Table: ASCII Code

HIGH ORDER LOW ORDER	2	3	4	5	6	7	8	9
0	SP	0	@	P	'	p		
1	!	1	A	Q	a	q		
2	~	2	B	R	b	r		
3	#	3	C	S	c	s		
4	\$	4	D	T	d	t		
5	%	5	E	U	e	u		
6	&	6	F	V	f	v		
7	'	7	G	W	g	w		
8	(	8	H	X	h	x		
9	)	9	I	Y	i	y		
A	*	:	J	Z	j	z		
B	+	;	K	[	k			
C	,	<	L	¥	l			
D	-	=	M	]	m			
E	.	>	N	^	n			
F	/	?	O	_	o			

Picture1: Alphabet location on the Keyboard



■ Table : SPECIFICATION

MODEL	ER ^{JR}		
CAPACITY	<u>Dual Interval</u> Max 3/6kg e = 1/2g	<u>Dual Interval</u> Max 6/15kg e = 2/5g	<u>Dual Interval</u> Max 15/30kg e = 5/10g
DISPLAY	5 / 6 / 6 (Weight/Unit Price/Total Price)		
SYMBOL ON DISPLAY	Charge, Stabilization, Zero, Tare, Low battery, Sum, Backlight		
MAXIMUM TARE	- 2.999 kg	- 5.998 kg	- 14.995 kg
OPERATING TEMPERATURE	-10°C~ +40°C		
POWER SOURCE	12V DC Adaptor		
POWER CONSUMPTION	Approximately LCD Type 7W(Charging)		
PLATTER SIZE (mm)	290(W) x 209(D)		
PRODUCT SIZE (mm)	304(W) x 324(D) x 112(H)		
PRODUCT WEIGHT	3.3kg		
MINIMUM VOLTAGE LEVEL OF THE BATTERY	About 5.6V		
BATTERY LIFE	When battery is charged for 12 hours		
	Approximately 200 hours (backlight off)		
BATTERY TYPE	Pb battery, 6V 3.6Ah/20Hr		
OPTIONS	Pole, Backlight,RS-232C		

※ Notice : specifications are subject to change for improvement without notice.

MEMO

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ER SERIES

Price Computing Scale



**CAS BLDG., # 440-1, SUNGNAE-DONG,
GANGDONG-GU, SEOUL, KOREA**

TEL_ 82 2 2225 3500

FAX_ 82 2 475 4668

www.globalcas.com