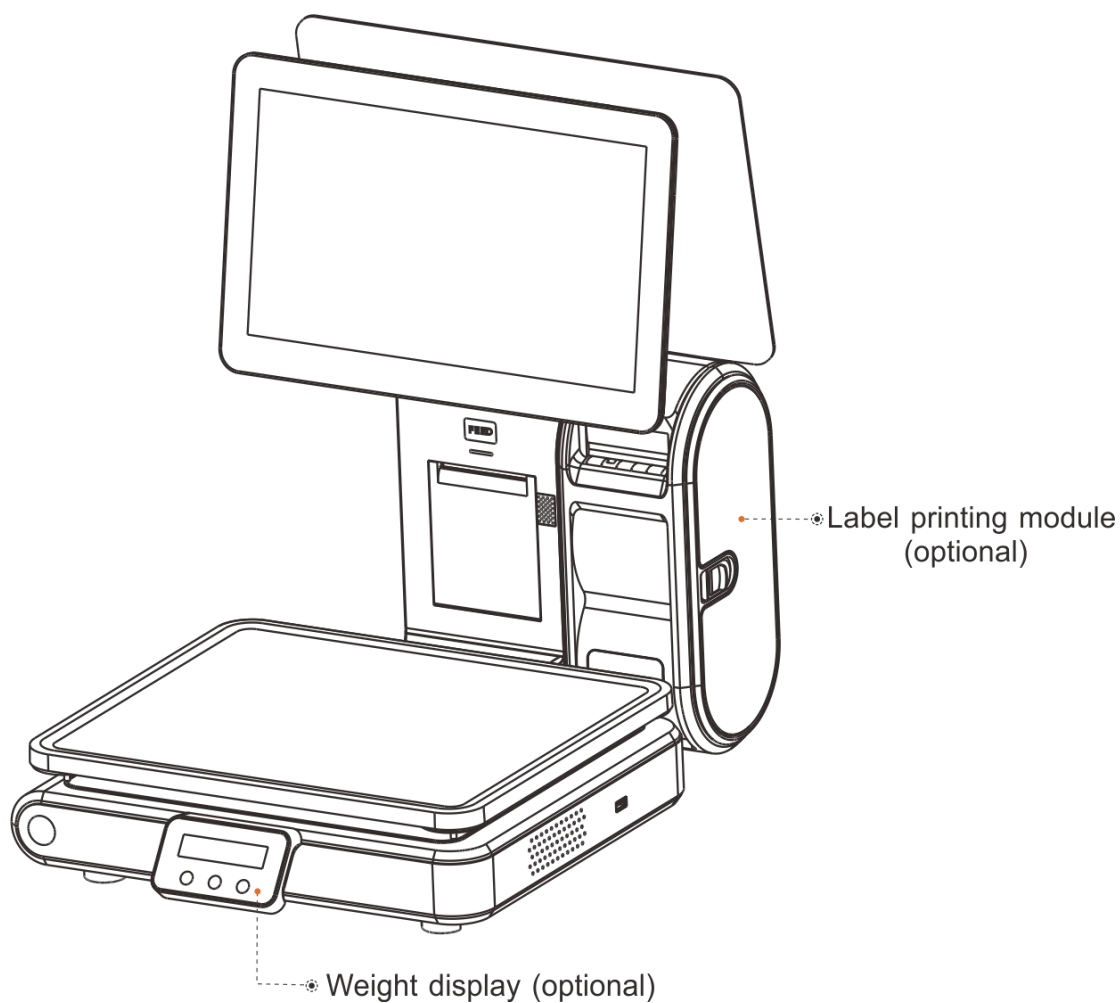


AURORA Series PC SCALE



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Introduction

Thank you for choosing our PC Scale. In order to operate PC Scale correctly, User manual is detailed in function and operation method of PC Scale, which help user with doubt quickly when come up against mechanical fault .

Rongta research, develop, produce and sale the PC Scale independently, which is high-performance PC Scale.

PC Scale is the best choice for user in label printing business line with fashion appearance, power function and high durable, which make PC scale more popular in store ,fresh food supermarket ,farmers market and so on.

Note : this product information are subject to change without prior notice.

This information is for reference only. In addition to China's existing laws and regulations, the company does not undertake any due to the direct or indirect losses caused by use of this information.

The company reserves the final interpretation.

1. Specification of PC scale register

- The Weighing range and accuracy:

Max weight: 15kg

Max weight: 30kg

Min weight: 40g

Min weight: 100g

0kg to 6kg * 0.002kg (e=2g)

0kg to 15kg * 0.005kg (e=5g)

6kg to 15kg * 0.005kg (e= 5g)

15kg to 30kg * 0.01kg (e= 10g)

- The accuracy grade: **III**

- Resolution

Input sensitivity: greater than or equal to 50μV/D

zero-point adjustment range: ±60MV

temperature coefficient: ±0.0012%CTYP

[Zero] ±(0.2μV+0.0008% of Dead Load)/°CTYP

Nonlinearity: 0.01%F.S.

A/D resolution: Max 30000 resolution

Display resolution: 1/3000

A/D conversion rate: 10 times/second

- Regular:

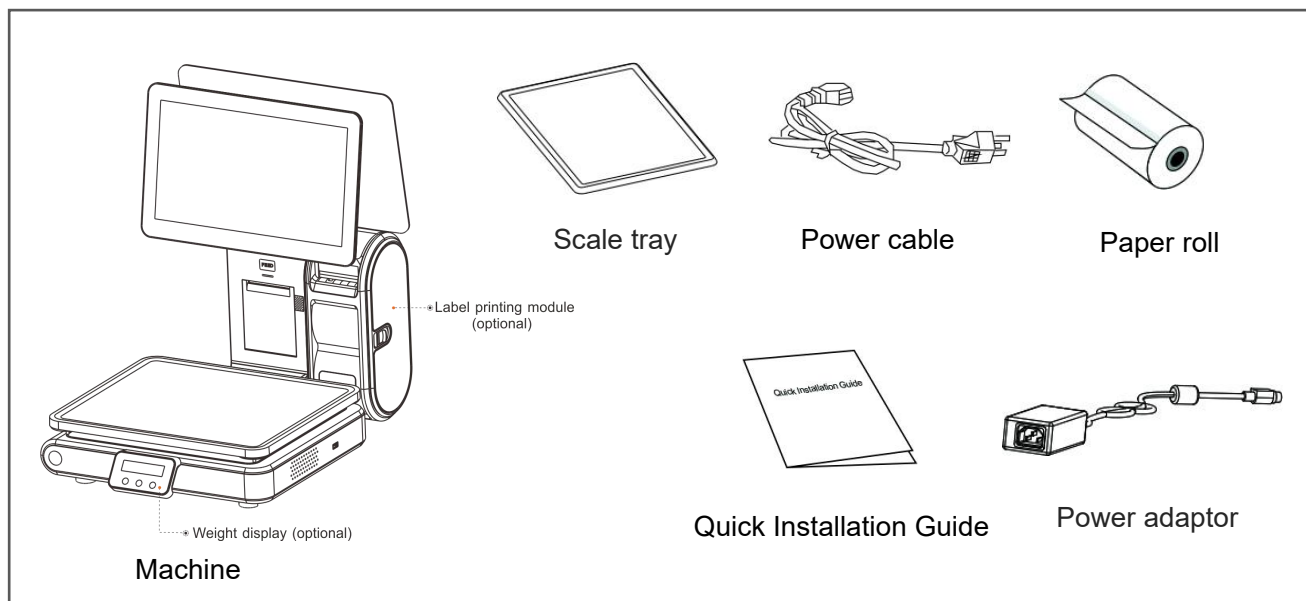
Power supply: AC100~240V, 50/60Hz

Power consumption: Standby 25W, printing 45W

operating temperature: 0°C-40°C

Physical appearance: 372×450×500mm

2. Standard configuration of PC scale register



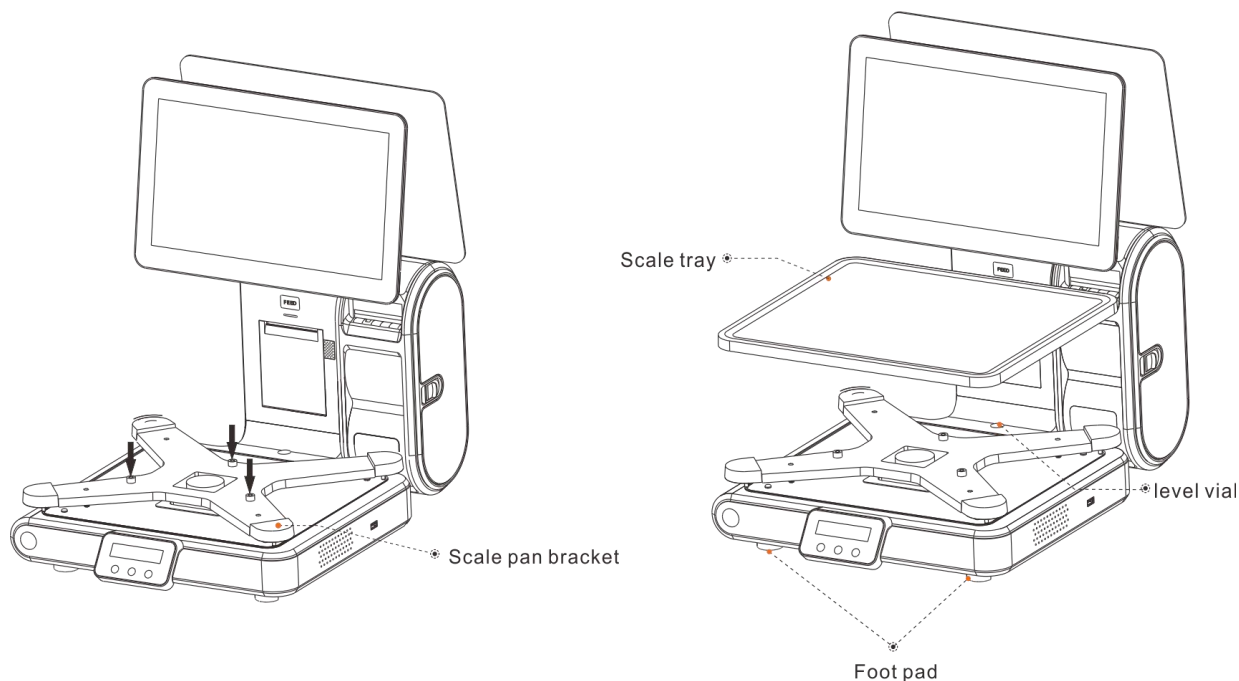
☺ The pictures of AURORA series and derivative models (main screen, customer display, small screen, label module, etc. are optional) are for reference only, and the actual product shall prevail.

3. PC scale installation steps

3.1 Assembly step

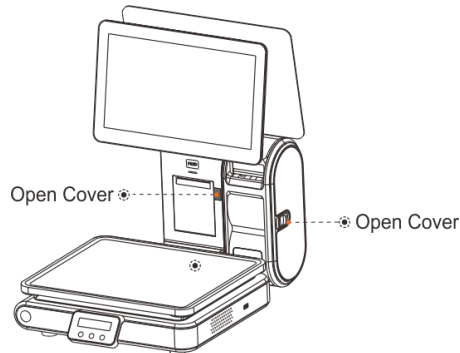
1. Place the scale in a level and stable place and remove the three transport protection screws from the scale pan bracket.

2. Observe the level vial, Adjust the feet to make the level tool inside the little circle. Place the scale pan horizontally on the scale body.

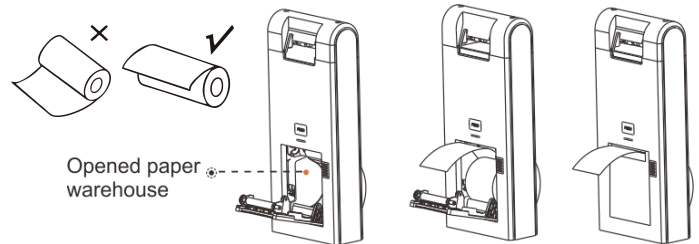


3.2 The installation of the thermal receipt paper

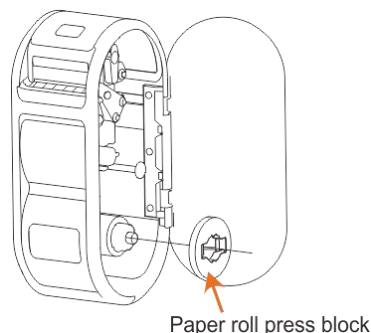
- Pull the Open Cover to open the paper warehouse.



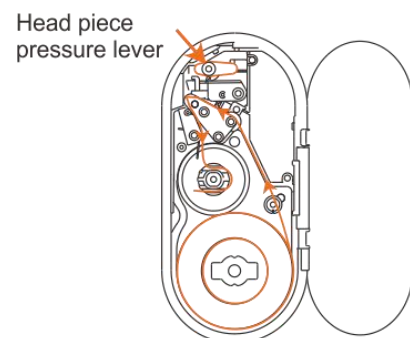
- Put the paper roll into the paper warehouse as shown in the figure
- Close the cover of the printer, press upward gently until the cover closed with a "click" sound.



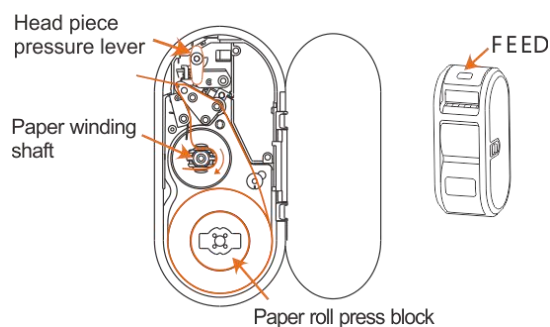
- Open the side cover, remove the paper roll press block



- Unscrew the head piece pressure lever and load paper as shown in the figure.(There are decorative paper tips in the module)

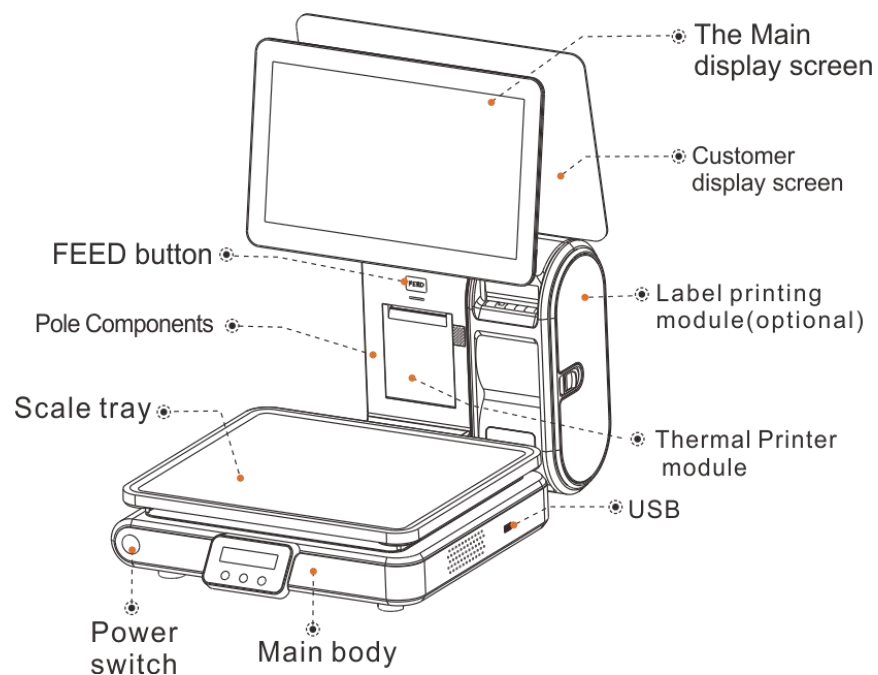


- Close the paper roll press block, tighten the paper winding shaft, screw the head piece pressure lever, close the side cover of printer, Long press the FEED button until the light flashes and then let go.

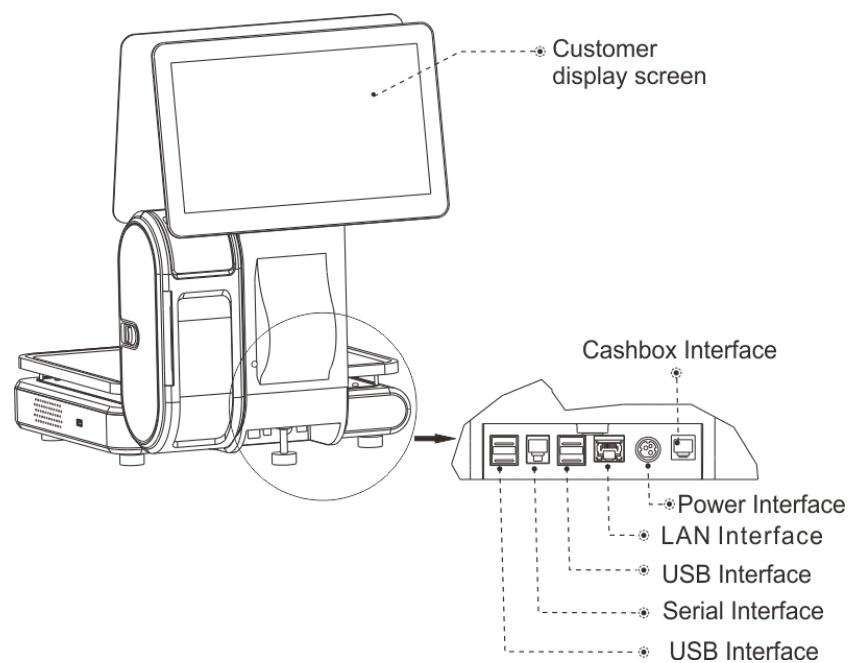


4. Overall Appearance

4.1 Front view



4.2 Rear view

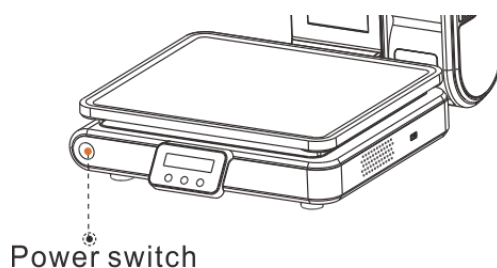


5. Common easy-to-use operations

5.1 Switch on and off

Hard disk switch:

After connecting power supply, long press the black POWER button on the front of PC scale register for 3s until the display is turned on. After entering the normal operation screen, the program will automatically run and perform self-test counting to verify whether the CRC is correct. If verification fails, the scale cannot work normally.

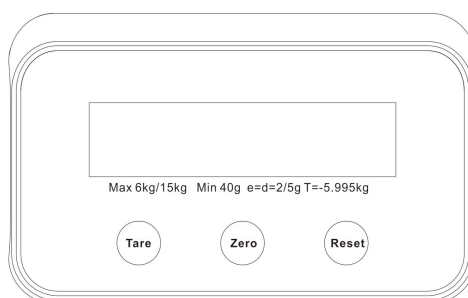


⚠ Attention: Under self-test situation, please do not press any button and make sure nothing is on the scale, otherwise it can't work normally

Soft disk switch on/off:

Touch [Power Off] in the system or Please switch on the power button, then press the button [ON/OFF] for 3 seconds.

5.2 Weight display



Key Description

Tare: This operation is only suitable for weighing commodities that need to be packaged, such as eggs, beans, etc.

There are two methods used when the package is separated from the product and the package is not separated from the product.

Zero: Press button [ZERO] to make zero of all the data. (Note: more than 300g can not be returned to zero)

Reset: Used to restart the weighing module.

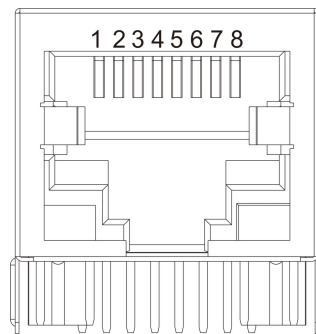
5.3 Communication Interface

The factory communication interface of the product is fixed at COM2 and cannot be changed through other software. Communicating through other interfaces is also not supported.

5.4 PC scale interface

5.4.1 Ethernet interface

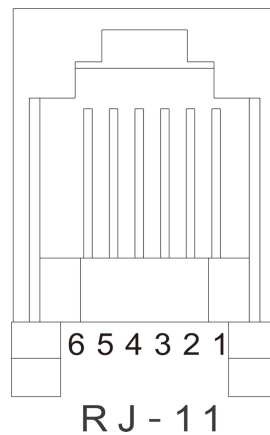
The Ethernet interface socket of PC scale is standard RJ45-8P, it supports 10M/100M network, and the transmission speed is adaptive.



Pin number	Description	Illustration
1	TX+	Send differential line+
2	TX-	Send differential line-
3	RX+	Receive differential line+
4	NC	No function
5	NC	No function
6	RX-	Receive differential line-
7	NC	No function
8	NC	No function

5.4.2 Cashbox Interfaces of Printers

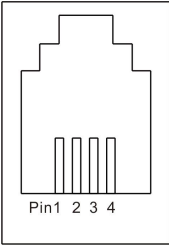
The cashbox interface of the printer adopts RJ-11 standard, 6-wire socket, and outputs DC 24V/1A power signal to drive the cashbox. Insert the RJ-11 crystal connector of the cashbox into the cashbox interface to open the cashbox through the printer.



Pin number	Signal	Description
1	GND	Power supply ground
2	Dk1	Negative pole of cashbox 1#
3	DK-1N	Start detection
4	PWR	Positive pole of power supply/cashbox
5	Dk2	Negative pole of cashbox 2#
6	GND	Power supply ground

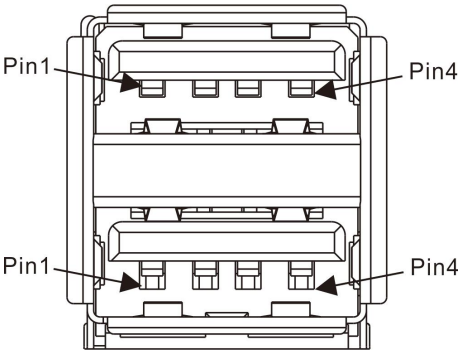
5.4.3 Serial Interfaces of Printers

The serial port of the PC scale adopts the RJ9 standard, and the functions of each pin of the serial interface are defined as follows:



Pin number	Model	Signal source	Description
1	3.3V	Host	Power supply 3.3V
2	TXD	Host	The printer sends data to the host.
3	RXD	Printer	The printer receives data from the host.
4	GND	Host	Signal ground

5.4.4 USB interface



PIN	SIGNAL NAME
1	VVC 5V
2	D-
3	D+
4	GND

6. Troubleshooting of PC scale register

6.1 Crash or fail to start

- Reasons:
- a. Power board error
 - b. Power line and interface error
 - c. Main board error

- Solutions:
- a. Re-plug the power line
 - b. Press the [Power] button for 3 seconds. If the printer indicator is off, it means the power board is abnormal; otherwise, the main board is abnormal

6.2 The main display screen or customer display screen does not display or the display screen is blurred

- Reasons:
- a. Screen line error
 - b. Poor contact of screen line connector
 - c. The display screen is damaged, or the main board is damaged
- Solutions:
- a. Reconnect the screen line aerial connector and confirm that the line sequence is correct
 - b. Re-plug the screen line connector
 - c. If it still fails, it may be caused by screen damage or main board damage

6.3 The touch screen cannot be used or is not sensitive

- Reasons:
- a. Display cable error.
 - b. Display driver error.
- Solutions:
- a. Reconnect the screen line aerial connector and confirm that the line sequence is correct
 - b. Reinstall the correct driver

6.4 Unable to print

- Reasons:
- a. Print wire error.
 - b. The driver is not installed correctly.
 - c. Print board error.
- Solutions:
- a. If the printer indicator is off after turned on, it means the wires are defective.
 - b. Reinstall the correct driver.
 - c. Press and hold FEED button to print the self-test page.

6.5 Unable to weigh properly (please contact the After-sales Service)

- Reasons:
- The main board or AD board fails, sensor fails, or CRC check fails.
- Solutions :
- Please contact with us, we will provide you new version AD board program or weighing software.

7. Appendix Comparison Table of Gravitational Acceleration Corrected Value

COUNTRY	CITY	G(m/sec ²)	COUNTRY	CITY	G(m/sec ²)
Greece	Athens	9.800	Scotland	Glasgow	9.816
South	Cape town	9.796	Spain	Madrid	9.800
Netherland	Amsterdam	9.813	Singapore	Singapore	9.781
Norway	Oslo	9.815	Argentina	Buenos Aires	9.797
New	Auckland,NZ	9.799	United	London,Greenw	9.812
New	Wellington,NZ	9.801	Australia	Melbourne	9.800
Taiwan	Taichung	9.789	Australia	Sydney	9.797
Taiwan	Taiwan	9.788	Italy	Milano	9.806
Taiwan	Taipei	9.790	Italy	Rome	9.803
Denmark	Copenhagen	9.815	India	Calcutta	9.788
Germany	Fankfurt	9.810	Japan	Tokyo	9.798
Mexico	Mexico City	9.779	Canada	Ottawa	9.806
U.S.A	Birmingham	9.813	Canada	Vancouver,BC	9.809
U.S.A	Chicago	9.803	Cuba	Havana	9.788
U.S.A	Los Angles	9.796	Kuwait	Kuwait	9.795
U.S.A	New York	9.802	Cyprus	Nicosia	9.797
U.S.A	San Francisco	9.800	Thailand	Bangkok	9.783
U.S.A	Washington,DC	9.784	Portugal	Lisbon	9.801
Belgium	Brussels	9.811	France	Paris	9.809
Brazil	Rio de Janeiro	9.786	Finland	Helsinki	9.819
Sweden	Stockholm	9.818	Philippines	Manila	9.784
Switzerlan	Zurich	9.807			
COUNTRY	CITY	G(m/sec ²)	COUNTRY	CITY	G(m/sec ²)
Greece	Athens	9.800	Scotland	Glasgow	9.816
South	Cape town	9.796	Spain	Madrid	9.800
Netherland	Amsterdam	9.813	Singapore	Singapore	9.781
Norway	Oslo	9.815	Argentina	Buenos Aires	9.797
New	Auckland,NZ	9.799	United	London,Greenw	9.812
New	Wellington,NZ	9.801	Australia	Melbourne	9.800
Taiwan	Taichung	9.789	Australia	Sydney	9.797
Taiwan	Taiwan	9.788	Italy	Milano	9.806
Taiwan	Taipei	9.790	Italy	Rome	9.803
Denmark	Copenhagen	9.815	India	Calcutta	9.788
Germany	Frankfurt	9.810	Japan	Tokyo	9.798
Mexico	Mexico City	9.779	Canada	Ottawa	9.806
U.S.A	Birmingham	9.813	Canada	Vancouver,BC	9.809
U.S.A	Chicago	9.803	Cuba	Havana	9.788

- It should be handled by person in our company or dealers if want to adjust acceleration of gravity



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