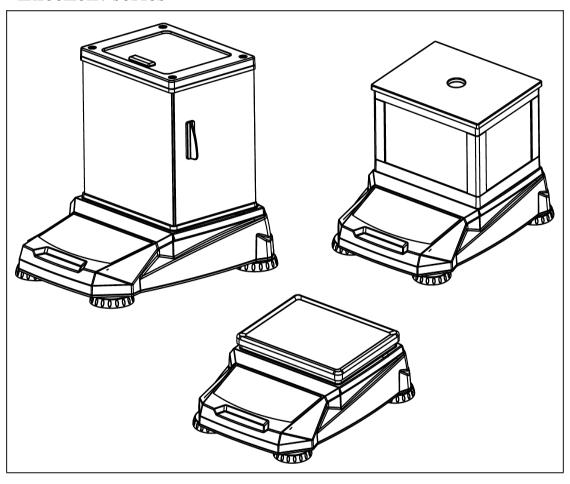
User's Manual

Excellent series



Contents

1. Introduction	
1.1 Safety Prevention measures	3
1.2 Avoid Installing and using occation	3
1.3 Product features	3
2. Install	
2.1 Install list	4
2.2 Accessories assembly process	5
2.2.1 EX300/EX300H assembly	5
2.2.2 EX600-1500/EX600H-1500H assembly	6
2.2.3 EX3000/EX3000H assembly	7
2.3 Adjust level	7
2.4 Connect to power	8
3. Operation panel and key functions	
3.1 Operation panel	8
3.2 Key functions definition	8
4. Operating instructions	9
4.1 Powerboot	9
4.2 Time setting	9
4.3 Initial calibration	9
4.4 Unit setting	9
4.4.1 Setup unit	9
4.4.2 Unit detail	10
4.5 Zero	10
4.6 Tare	10
4.7 Sample	10
5. RS232 Print setting	10
5.1 Setup RS232 print	10
6. Normal fault and solving countermeasure	
7. Technical instructions	11
7.1 Technical parameters	11
7.2 Product engineering drawing.	

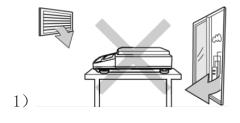
1.Introduction

1.1 Safety Precautions

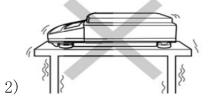
Please use these Safety Precautions

- Verify that the AC Adapter input voltage matches the local AC power supply.
- Install and dismantle the balance, need to cut off the power
- Using the balance only in correct environment, work temperature 10°C - 40°C
- Avoid strong wind and vibration
- Don't operate the balance in harmful environment
- Don't drop object to the scale
- Don't inversion the balance by tray or supporting
- Service should be performed only by authorized personnel.
- Before using the balance, should warm-up 20-30 minutes
- 1.2 Avoid Installing and using occation

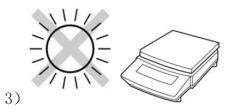
Assure that the stability and reliability, Please to avoid follow occation:



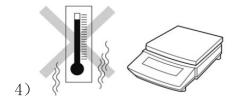
Avoid the gate with the wind (air-condition, window)



No vibration



Avoid direct sunlight



Avoid excessive temperature and humidity

- 1.3 Product features
- 1. Appearance style hale, fashion and brief, sporty powerful;
- 2. The body is made of PC alloy materials, hard and durably;
- 3. Scale is made of high quality stainless steel with SUS304, simply and fluency;
- 4.Large screen LCD display, backlight is soft and easy to read;

- 5. Humanization design, fast responce;
- 6. With the features of easy counting weighing mode, easy to operate;
- 7. Equipped with the unit g, kg;
- 8.Full range taring function;
- 9.Standard RS232 function, can connect with the printer, computer or others equipment;
- 10. AC/DC multiple function, rechargeable battery(option);
- 11. The windshield with pure white glass is used to ensure the stability of the weighing accuracy.

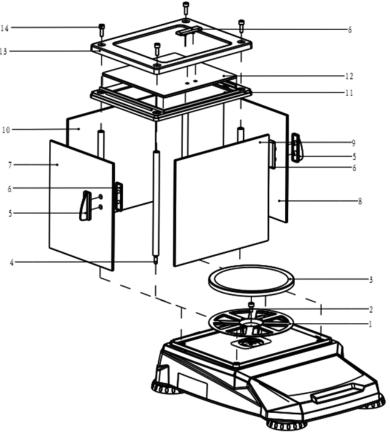
2.Install

2.1 Install list

Balance install list						
No.	Part	Specification	qty	EXA	EXB/STE	EXC/STC
1	Circular pan	Stainless steel 304, Ø118(mm)	1			
2	Pan Support	PC alloy Ø117.2(mm)	1			_
3	M4 Hexagon screw	M4x8(flat cushion, spring washer)	1	•	•	_
4	glass(left Door)	Pure white glass(Include handle assembly)157.5x132x3.2(mm)	1	•	_	_
5	glass(right Door)	Pure white glass(Include handle assembly)157.5x132x3.2(mm)	1	•	-	_
6	glass(front Door)	Pure white glass 173.5x155.5x3.2(mm)	1	•	-	_
7	glass(back Door)	Pure white glass 163.5x155.5x3.2(mm)	1	•	_	_
8	glass(top Door)	Pure white glass(handle2) 136x131x3.2(mm)	1	•	_	_
9	Support pillar	Stainless steel Ø8x164(mm)	4	•	_	_
10	M4 Hexagon screw	Stainless steel M4x12	4	•	_	_
11	Top holder	PC alloy 179.4x139.4x8.5(mm)	1	•	_	_
12	Bottom holder	PC alloy 179.4x139.4x10.5(mm)	1	•	_	_
13	Square pan	Stainless steel 304, 145x115x7(mm)	1		Тп	
14	Square pan support	PC alloy 144x114x15(mm)	1	_		_
15	Top,Bottom fixed base	PC alloy 188x148x15(mm)	2	_		_
16	L type support	PC alloy 91x20x20(mm)	4	_		_
17	cover	PC alloy 193x153x6(mm)	1	_		_
18	PMMA(left, right)	117x90.5x2(mm)	2	_		_
19	PMMA(font,back)	157x90.5x2(mm)	2	_		=
20	Large square pan	Stainless steel 304, 188x148x11(mm)	1			
21	Large square pan support	PC alloy 186.9x146.9x24(mm)	1	_		•
22	M5 Hexagon screw	M5x10(Include flat washer, spring washer)	2	_	_	•
Note	: Please check accesso	ries according to product type, "•"means	s have, "	-"means	none, "□" is	option

2.2 Accessories assembly Process

2.2.1 EX300/EX300H assembly procedure(with glass windshield)



1. Circle tray support
2. M4x8 screw(Include flat
washer, spring washer)
3. Stainless steel tray
4. Support pillar(Qty:4)
5. Handlel(Qty:2)
6. Handle2(Qty:3)
7. Left glass
8. Right glass
9. Front glass
10. Back glass
11. Bottom fix frame
12. Top glass
13. Top fix frame
14. M4x12 screw(Qty:4)

Install process:

1) Tightening circle support



2 Put down circle tray



3) Screwing stainless steel support pillar



4) Insert glass fully into Frame(left, right, front, back), Pay attention to the handle set direction as follow picture show:





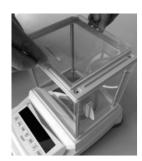




C

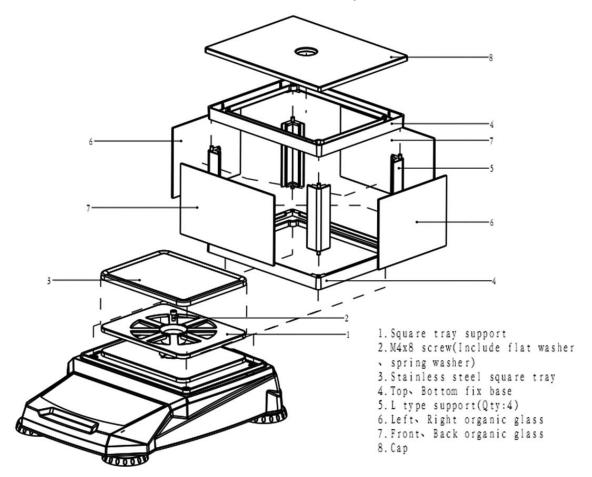
- 5) Cover bottom fix frame, make sure the glass edge and support pillar end into the slot of frame.
- 6) Put top glass into door
- 7) Put top frame down, Tightening screws







2.2.2EX600-1500/EX600-1500H assemly procedure (simple windshield)



Install process:

1) Tightening square tray support



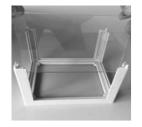
2) Put down square tray



3) Install L type support to fix frame

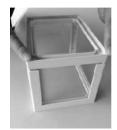


4) Install organic glass into the groove (left& right, front& back)





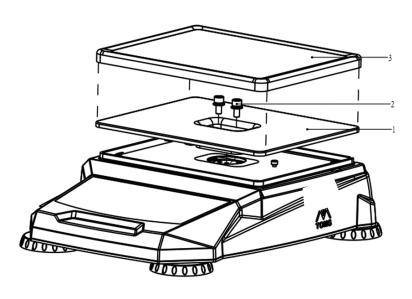
5) Press the top fix frame



6) Put down the cap



- 7) Put the simple windshield on the balance
- 2.2.3EX3000/EX3000H assembly procedure



Large square tray support
 M5x10 screw(Include flat washer, spring washer, Qty:2)
 Large stainless steel tray

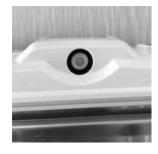
Install process:

- 1) Tightening large square support (using cross screwdriver)
- 2) Put down large square tray

2.3 Adjust level

Level the balance on a stable desk. When the bubble is in the center of the circle, balance is leveled. Avoid locations with excessive air current, vibrations, heat sources or rapid temperature changes. As follow picture:





2.4 Connect to power

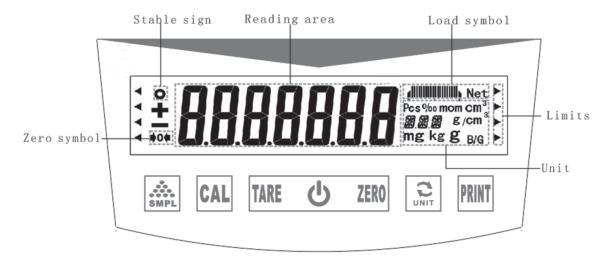
Power adapter one end is connected to balance, the other end to AC base





3. Operation panel and key functions definition

3.1 Operation panel introduction



3.2 Key definition

Key	Operation	Function description
ooo oooo SMPL	Short press	In the mode of PCS/%/% to operate (NON-CERTIFIED)
CAL	Long press 3s	Initiates Span Calibration by long press 3s (NON-CERTIFIED)
TARE	Short press Long press 3s	Tare the weighing Display extended 0.1e
心	Short press	Turns balance on/off,
ZERO	Short press	sets display to zero
UNIT	Short press	through active units (Certified only g and ct)
PRINT	Short press	Sends data

4. Operating instructions

4.1 Powerboot

Short press on/off switch, LCD, EL, LED all light,

- 4.2 Time setting
- 1) On the opening state, press [2ERO] 3sec, enter the user setting, LCD display: rt[-5ft (RTC-SET), then display" yff of the press [2ERO] set Years, press the change digital position to set years, press confirm;
- 2) LCD jump to set Months, display "non ", press set months, press change digital position to set months, press confirm;
- 3) LCD jump to set Days, display" dfly dfl", press ZERO set days, press TARE confirm;
- 4) LCD jump to set hours, display" nour !! ", press ERO set hours, press tare change digital position to set hours, press confirm;
- 5) LCD jump to set minutes, display", press zero set minutes, press change digital position to set minutes, press confirm, finish the time setting.
- 4.3 Initial calibration (Non-certified model)

To assure the balance accuracy, The first time to using the balance, must to do calibration, This product calibration with external, Before calibration, it need to adjust the balance level.

Calibration as follow:

- 1) Press **b** to open balance, firstly warm-up 20-30 minutes;
- 2) Calibration, press CAL 3sec, LCD display "[AL []", waiting for a sign "----", then LCD display twinkling numerical data (Remark: press CAL can change different corresponding weights), At this time, put down the corresponding weight, then waiting for a sign again "-----", then LCD display corresponding weight, when LCD display "4", remove weight, LCD display 0, completed calibration.
- 4.4 Unit setting
- 4.4.1 Set unit (Non-certified model)
- 1) Started balance, long press 3sec, enter the user settings, LCD display "un #5ft " (UNITSET), then LCD display" ";
- 3) Then press changing weighing unit, if confirm, press to confirm. When changing weighing unit, can press to close or open the unit, after setting the unit, press to confirm.

4.5 Zero

No load on the balance, short press [250], LCD firstly display "¿Fra" (ZERO), then display 0, Zero effect is inside of the maximum 4% 4.6 Taring

When there is a load on the balance, short press TARE, LCD firstly display "EARE" (TARE), then display 0, Have the full range taring function.

4.7 Sample (Non-certified model)

1) On the opening state, At the mode of PCS, %, % to sample, short press, LCD display "5- 5", short press (chose numerical data, place specific objects, press (chose numerical data), then load-off the objects, finish sampling (chose numerical data).

2) On the opening state, At the mode of B/G unit, short press, into B/G mode, LCD display proportion value "BBBBB", press to set numerical data, press to change the digital position, after setting proportional value, press to confirm.

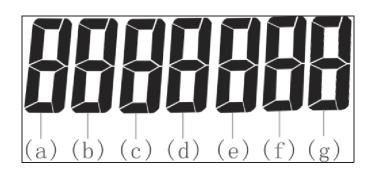
5. RS232 print setting

5.1 RS232 print set

1) Connect RS232 to the adaptor, Analysis weighing data, through RS232 sending out. Press RS232

2) Press (TARE) to set numerical data, press (TARE) to change the digital position. According to the definition about (a), (b), (c), (d), (e), (f), (g) to setting. after setting, press (to confirm.)

(a), (b), (c), (d), (e), (f), (g) definition:



- (a) 0=9600 1=19200
- (b) 0=continuous output 1=stable output 2=press output (c) 0=none 1=output date 3=not output
- (d) 0=none
- (e) 0=PC work 1=print by tag paper 2=print by continuous paper 3=Micro
- (f) 0
- (g) 0

6. Normal fault and solving countermeasure

Error information	Reasons analysis	Solution
Can't turn on	No power	Check adaptor connect or battery voltage is ok?
Reading not correct	No calibration balance by right way Work environment not stable	calibration balance Put the balance by stable
Can't calibration the balance	No calibration balance by right way Work environment not stable	calibration balance Put the balance by stable
Auto turn off	Battery voltage too low (only cell supply power)	charge
OVER	Check the weighing (if over the max capacity 9e)	Check the weighing Check the pan whether interference with the limit screw or support block
Err1	weight less than -20d	Check no set scale

7. Technical Instructions

7.1 Technical data

Working Temperature: 5°C-40°C

Working Voltage: DC12V

Working humidity range: 40%-85%

Adaptor data: Input: AC100-240V 50/60Hz 0.3A, Output: DC12V 1000mA

7.2 Product engineering drawings EX series outline dimension, unit: mm

