# OCS-X High Resolution Digital Crane Scale

User Guide

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Version: V1.0A-1

Please read this manual carefully before using.

### 1. Safety Guide

For good performance and precise measurement, be careful with daily operation and maintenance.

- ① Do NOT overload scale. This will damage loadcell and void warranty.
- ① Do NOT leave load hung on the scale for long. This will decrease scale's accuracy and shorten loadcell's life.
- i Inspect shackle and hook before using. Check clips, pins and screws regularly.
- (i) Check battery frequently. When scale runs out of power, charge battery with its dedicated charger.
- (i) Rotate load rather than scale if needed.
- (i) Do NOT use scale under thunder or rain.
- (i) Hang scale on shelf in dry and well-ventilated room. Do NOT place scale on the ground directly.
- **(i)** Do NOT attempt to repair scale yourself. Contact your local representative.

#### 2. Features

This scale is a combination of sound and proven mechanical design, with today's most advanced electronics to provide a superb feature set. It is versatile, reliable, accurate and easy to operate.

- Superb Quality. Strictly in accordance with OIML R76, Chinese GB/T11883-2002 national standards, and European CE directives.
- ☑ Great Safety. Aluminum-casting case, high firm hook and

- shackle, dedicated weighing loadcell for safety installation.
- Strong Reliability. Cutting-edge technology, quality integrated circuit for high performance and long time stability.
- **Broad Applicability**. Popular and applicable in storage, textile, metallurgy industry, and so forth.
- **Easy to Use**. Ultra-red remote controlling design. Easy to operate on the scale or in distance.
- **▼** Complete Function. Resolution switch, unit conversion, auto power-off, battery inspection, etc.

## 3. Specifications

A agrana gra Class	Chinese GB/T 11883-2002 Class III
Accuracy Class	Equivalent to OIML R76
Tare Range	100% F.S.
Auto Zero	± 20% F.S.
Manual Zero	± 4% F.S.
Stable Time	≤10sec
Overload	100% F.S. + 9e
Safety Load	150% F.S.
Ultimate Load	400% F.S.
Battery	6V/4.0Ah lead acid rechargeable battery.
Chaman	100~220VAC 50/60Hz input
Charger	7.2VDC/1000mA output
Display	35mm (1.4inch) LED module
Op. Temp.	-10°C ~ +40°C
Op. Humidity	20°C ≤90%

# 4. Capacity

Modal	Мах. Сар.	Min. Cap.	Res.	Division
OCS-1-X	1,000kg	10kg	0.5kg	2,000
OCS-2-X	2,000kg	20kg	1kg	2,000
OCS-3-X	3,000kg	20kg	1kg	3,000
OCS-5-X	5,000kg	40kg	2kg	2,500

# 5. Display & Keys

### Scale Keys

Key	Name	Function
ெ	0.100	Press 1s to power on/off scale.
ON/OFF	On/Off	Return to weighing mode.
<del>-0+</del>	7.070	Manual Zero.
ZERO	Zero	Increase flashing digit.
<b>-</b> T+l	Tare	Tare in/out.
		Right scroll flashing digit.
	TT 11	Lock/unlock reading.
HOLD	Hold	Confirm.

### Remote Keys

Key	Name	Function
	Zero	Same as ZERO.
	Tare	Same as THE TARE.
	Hold	Same as HOLD.
	Acc.	Accumulate weight.

		Decrease flashing digit.
		Delete last weight.
	Del.	Clear all weight.
		Left scroll flashing digit.
0	F1	View.
PI	F1	Input decimal point.
<b>○ F2</b>	F2	Unit switch.
	Off	Press 1s to power off.
<u>်</u>	Oli	Return to weighing mode.
	2nd	2nd function.

### Indicators

LED	Name	Note
STB.	Stable	lit when weight is stable
ZERO	Zero	lit when weight is at zero
TARE	Tared	lit when scale is tared
HOLD	Hold	lit when scale is locked
lb	lb	lit when unit is lb
kg	kg	lit when unit is kg

### Message

Message	Stand for	Note
		detect weight
-		in Idle Mode
SELUP	SETUP	User Setup Menu
6AL	BATtery	battery life percentage
P0000	Password	in Password Mode
End	END	save and exit

oFF	OFF	power off
ouEr	OVERload	overloading
Znd	2ND	2nd function
Err	ERRor	invalid operation
ACC	ACCumulate	accumulate weight
dEL	DELete	delete last weight
ELr	CLeaR	delete all weight

### 6. Operations

#### Power On/Off

- Press of for 1s to power-on scale. Scale perform initialization and power-on test, **B.B.B.B.** shows twice, then capacity **5000** shows, battery life percentage **b.A.L. 90** shows, weight detection  **- -** shows and then auto zero.

  For information about Auto-Zero, refer to Scale Configuration in Technical Manual.

  Press of or **1s** to power-off scale. Battery life
- Press or of for 1s to power-off scale. Battery life percentage **b F b 1** shows, off message **b F c** shows, and then cut off power.

#### Zero

- Press or to zero. ZERO light on.
- i If load is in motion, or tared, or out of Manual-Zero Range, Err shows.
- For information about Manual-Zero Range, refer to Scale Configuration in Technical Manual.

#### Tare In/Out

$\overline{\mathbf{V}}$	In gross mode, press or to tare in. TARE light on.
<b>(i)</b>	If load is in motion, or negative, or out of Tare Range,
	Err shows.
	Tare will reduce the apparent overload range of scale. For
	example, if a 5000*2kg scale has a 1000kg container as its tare,
	the scale will overload at a new weight of 4018kg (5000 – 1000 +
	additional 9 divisions).
$\overline{\mathbf{V}}$	In net mode, press $\xrightarrow{\text{TARE}}$ or $\bigcirc$ to tare out. TARE light off.
	Lock/unlock
$\overline{\mathbf{V}}$	Press or to lock screen. HOLD light on.
	Press or to unlock screen. HOLD light off.
	Accumulate
<u></u>	Press to accumulate current weight.
	shows, indicating weight is accumulated. Scale uses
	displayed weight, so gross or net weight is added into the same
_	accumulator.
<b>(i)</b>	If load is in motion, or negative, or does not return to zero
	before, Err shows.
	View
$\overline{\mathbf{V}}$	Press oto enter View mode.
	Display flashes accumulated weight.
$\overline{\mathbf{V}}$	Press HOLD or to view high 5-digit or low 5-digit.
$\overline{\mathbf{V}}$	Press on to exit View mode.
	Delete Last Weight
.✓	<u></u>
	Press to delete last accumulated weight.
	dEL shows, indicating last accumulated weight is

	deleted. Delete function only deletes the last weight.
<b>①</b>	If last accumulated weight has been deleted, <b>Err</b> shows
	Clear All Weight
V	Press first and then press to clear all accumulated
	weight.  [Lr shows, indicating all weight is cleared.
	Unit Switch
$\overline{\mathbf{V}}$	Press oto switch unit in between kg, lb, and User Unit.
	When unit is kg, kg LED light on. When unit is lb, lb LED light
	on. When unit is User unit, <b>kg</b> and <b>lb</b> LED all light off.
	For more information about User Unit, refer to Scale
	Configuration in Technical Manual.
<b>7.</b> 1	User Setup
V	Press first and then press or to enter User Setup menu. <b>SELUP</b> shows.
	Auto-Off Timing
	Press or to enter Auto-Off Timing.
	shows.
<b>₹</b>	Press or and to change timing value.
€>	Auto-Off Timing can be set to: $\square$ (disabled), $\backsim$ (5min),
	(10 min), (15 min), (30 min), (60 min). It is
	disabled by default.
	Auto-Off function maximizes scale's battery life against people's
	carelessness not to power off scale when it's not working.
	Auto-Off starts countdown timer when there's no action or load
	is stable. Any key pressing or motion in load restarts

countdown timer.

	Display Brightness
V	Press or to enter Display Brightness.
	shows.
$\overline{\mathbf{V}}$	Press or and to change brightness value.
€	Display Brightness can be set to: \(\(\)(\(\)(\)(\)(\)(\)(\)(normal), \(\)\(\)(\)(bright).
	Dim LED brightness saves battery power dramatically.
	Idle Mode Timing
$\overline{\checkmark}$	Press or to enter Idle Mode Timing.
	shows.
$\overline{\mathbf{V}}$	Press or and to change timing value.
€	Idle Mode Timing can be set to: $\square$ (disabled), $ olimits_{\bullet}$ (5sec),
	☐ (10sec), ☐ (15sec), ☐ ☐ (30sec), ☐ ☐ (60sec). It is 30sec by
	default.
	To maximize battery life, scale automatically enters Idle Mode,
	when there's no action or the load is stable. In Idle Mode, scale
	works in low-power consumption status. Any key pressing or
	motion in load wakes up scale from Idle Mode.
$\overline{\mathbf{V}}$	Press or to exit User Setup.

## 8. Battery Maintenance

To maximize battery life, please note the following battery maintenance guide.

- **(i)** This scale is powered by a 6V4.0Ah rechargeable lead-acid battery.
- **(i)** Battery is permanently fixed inside battery house.
- (i) Depending on LED brightness and idle mode setting, battery

- works from 60 hours to 200 hours.
- in order to conserve battery life, enable Auto-Off and Idle Mode, dim LED brightness.
- (i) Charging time for a completely discharged battery is approximately 12 hours.
- **(i)** To obtain maximum service life, battery should be stored between -20°C (-4° F) and +50°C (122° F). Stored batteries should be recharged every three months.
- ① During charging, green LED indicates full of power, while red indicates that charging is going on.

## 9. Troubleshooting

Simple problems can be resolved as below listed solution. If problems still exist, please contact your local representative.

Symptom	Possible Cause	Suggested Solution
not power-on after On/Off is pressed	discharged /	check battery and
	defective battery	charge
	defective On/Off	press harder and keep
	key	pressing 2s
	defective power	open front panel,
	cable	check power cable
	defective	contact representative
	mainboard	
display	discharged battery	charge battery
flashes		
no action	scale is disturbed	re-plug power cable
taken after	defective key	contact representative
key pressed		

	load in motion	keep load stable
weight	weak Anti-Motion	change Anti-Motion
		level
reading not	damped loadcell or	dry loadcell or
stable	mainboard	mainboard
	defective	contact representative
	mainboard	contact representative
weight	discharged battery	charge battery
reading not	load-cell stressed	hang scale in storage
zero when	too long	
no load	discharged battery	charge battery
lange opner in	scale not zeroed	manual Zero scale before loading
	before applying	
	load	
large error in	wrong unit	switch to correct unit
weight reading	scale requires	calibrate scale
	calibration	
	defective loadcell or	contact representative
	mainboard	
battery can	defective charge	contact representative
not be	board	
recharged	defective battery	contact representative
short remote	discharged /	ranlaca ramata
controlling	defective remote	replace remote controller batteries
distance	battery	