CS*α*

Advanced Wireless Crane Scale

CE ✓RoHS2 2011/65/EU ANDROID APP ON Google play Download on the App Store

CS*α* drafts new standards for safety & features to crane scales. It is the perfect solution for safe, speedy, data, flexible and easy connectivity, and managerial reports / data of crane weighing applications.

Thanks to the built-in 24 bit Low-Noise Delta to Sigma (Δ-Σ) AD converter, high speed micro-processor, unsurpassed innovative program, new linearity calculating method, wide range of flexible and selectable operation parameters, **CS*α*** always deliver affordable & unexceptional fast, accurate and stable results to your crane weighing requirements.

Functions

- **Crane Weighing, Peak Hold, Animal function**
- **Manual, Auto, Continuous and Repetitive Tare**
- **Powerful Android and iOS Apps available**
- **Apps Support both Bluetooth and WIFI Connection**
- **Capacity Tracking Bar to Show Applied & Remaining Capacity**
- **Multiple Units: - kg, lb and Newton**
- **Equipped with Second Battery to Provide Continuous Operation**
- **Fast Plug and Unplug Battery Changing Method, no Tools Required**
- **Battery Recharging can be done through Scale or Externally**
- **Supports also Numeric Calibration**

Operation Features & Management Data

- **Testified Ultimate Overload = 500%**
- **IR Remote Controller**
- **Simple and User-Friendly Operation**
- **Configurable Machine ID, Group Number & Operator Number**
- **Customer Name and Product Code in English and/or Numeric**
- **Memory Accumulation & Statics Data Output**
- **Automatic, Manual, and Q&A Data Output**
- **Accept Key, Operation Result Inquiry and System Parameter Setting Command through PC**

- **All Current Operation Results Output in Data Base Format Increases Ease & Efficiency of Data Management, Processing & Analysis**
- **Support both Ticket Printer and Label Printer (Datecs LP-50 & TSC TDP-225, TDP-247, TDP-345, TTP-225, TTP-247, TTP-345)**
- **5 x Selectable Portrait / Landscape Ticket Printout Format**
- **Configurable Custom Printout Format**
- **Real Time Clock**
- **Supervisor Password to Prevent Illegal Access to the WIFI and Bluetooth Module Settings**

Versatility, Functionality and Accuracy are always Built-in

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Connectivity

- 2 x Independent Configurable Wireless Communication Ports: -
  - o Comport 1 = TTL Output or Bluetooth 2.0 or Bluetooth 4.0 (Standard)
  - o Comport 2 = WIFI (Optional)
- 9 x Baud Rate (1200 ~ 256000)
- 10 x Selectable Fixed plus 1 x User Programmable PC Output Protocols
- 10 x Data Transmission Time Interval

WIFI Module (Optional) Supports: -

- **Both aCrane Android App & iCrane iOS App**
- **Access Point (AP) only, Station (STA) only & AP+STA Working Mode**

Apps for Smart Phones & Devices

iOS App (iCrane) & Android App (aCrane) are available for free download at App Store and Google Play respectively. Both Apps support connection via Bluetooth and WIFI.

These Apps are so powerful that actually they turn your smart devices into a handheld terminal, remote display, remote data input center and controller of your FM product connected.

Bluetooth 2.0 Supports: -

- aCrane Android App
- CT-10 Bluetooth Barcode Reader for Customer & Product Code Entries
- DP250 Bluetooth Ticket Printer
- Other Devices with Bluetooth 2.0 Communication

Bluetooth 4.0 Supports: -

- iCrane iOS App
- Other Devices with Bluetooth 4.0 Communication

User Configurable Parameters

- 6 x Auto Power Off Time
- 5 x Display Brightness
- 3 x Filter Strength
- 6 x Auto Power Off Time
- 3 x Filter Intensity Mode
- Keypad Lock Function
- Configurable Number of Print Copy (1~8)

Distributor Configurable Parameters

- 10 x Initial Zero Range
- 10 x Manual Zero Range
- 12 x Auto Zero Tracking Range
- Gravity Compensation
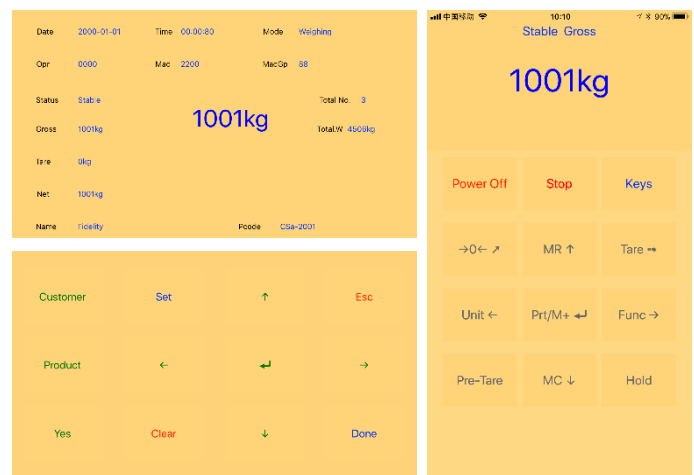
Smart IR Remote Controller

- **10-Keys Design Provides One Touch Operation to All Operation Control**
- **IR Transmission to Eliminate Possible Interference of Multi-Scale Application**
- **Built-in Indicator to show Signal is being Transmitted**

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Data Base Output Format Examples

Opr	Seq	Mode	Mac	MacGp	Date	Time	Name	PCode	Gross	Tare	Net	Total.W	Unit
22	1	0	2200	88	2017/11/3	10:53:54	Fidelity	CSa-2001	1001	0	1001	1001	kg
22	2	0	2200	88	2017/11/3	10:53:56	Fidelity	CSa-2001	1001	0	1001	2002	kg
22	3	0	2200	88	2017/11/3	10:54:06	Fidelity	CSa-2001	2003	0	2003	4005	kg
22	4	0	2200	88	2017/11/3	10:54:13	Fidelity	CSa-2001	501	0	501	4506	kg

Lab 3 Data Base Output Content Illustration for Crane and Animal Weighing

Opr	Seq	Mode	Mac	MacGp	Date	Time	Name	PCode	Tare	Peak	Unit
22	3	2200	88	2017/11/3	11:09:07	Fidelity	CSa-2001	501	1001	kg	
22	3	2200	88	2017/11/3	11:09:25	Fidelity	CSa-2001	501	1001	kg	
22	3	2200	88	2017/11/3	11:09:31	Fidelity	CSa-2001	0	501	kg	
22	3	2200	88	2017/11/3	11:09:36	Fidelity	CSa-2001	501	1502	kg	

Lab 3 Data Base Output Content Illustration for Peak Hold

Standard Printout Format Examples

Crane Weighing		Peak Hold		Animal Weighing	
Time	10:48:26	Time	10:49:44	Time	10:50:42
Date	2017/11/3	Date	2017/11/3	Date	2017/11/3
Seq	001	Name	Fidelity	Seq	001
Name	Fidelity	Pcode	CSa-2001	Name	Fidelity
Pcode	CSa-2001	Peak	1502kg	Pcode	CSa-2001
Net	1001kg			Hold.W	1001kg
Tare	0kg			Total	1001kg
Gross	1001kg				
Total	1001kg				

Lab 2 Output Content Illustration for Various Modes

```
              Lab 4                                  Lab 5
Name       Fidelity                   Name       Fidelity
Pcode      CSa-2001                    Pcode      CSa-2001
Opr        22                          Opr        22
Mac        2200                        Mac        2200
MacGp      88                          MacGp      88

Date       2017/11/3                   Date       2017/11/3
Time       11:14:28                    

   Seq      Gross      Net                Seq      Time      Net
001          501      501   kg        001      11:18:26      501   kg
002         1001     1001   kg        002      11:18:35     1001   kg
003         1001     1001   kg        003      11:18:39     1502   kg
004         1502     1502   kg        004      11:18:45     2003   kg
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004         4005     kg               004      Total        5007   kg

Max         1502     kg               Max         2003     kg
Min          501     kg               Min          501     kg
Diff        1001     kg               Diff        1502     kg
x          1001.3    kg               x          1251.8    kg
Sd          408.7    kg               Sd          646.4    kg
Srel      40.8169    %                Srel      51.6376    %
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Max = Maximum Value

Min = Minimum Value

Diff = Differentiation (Max - Min)

x = Mean (Average) Value

Sd = Standard Deviation

Srel = Relative Standard Deviation

Lab 4 & Lab 5 Output Content Illustration for Crane and Animal Weighing

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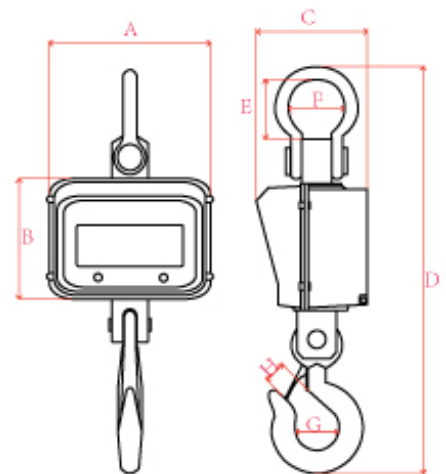
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Specifications

Model	Capacity			Readability (Standard)			Readability (High)		
	kg	lb	Newton	kg	lb	Newton	kg	lb	Newton
CSa-1T	1000	2204	9806	0.5	1	5	0.2	0.5	2
CSa-2T	2000	4408	19612	1	2	10	0.5	1	5
CSa-3T	3000	6614	29420	1	2	10	0.5	1	5
CSa-5T	5000	11024	49030	2	5	20	1	2	10
CSa-10T	10,000	22046	98060	5	10	50	2	5	20
CSa-15T**	15,000	33070	147.10K	10	20	0.1K	5	10	0.05K
Weight Units	kg, g, Newton								
Display	• 5 x Super Bright 30mm LED Display • Capacity Tracking Bar • Memory Accumulation, IR, Bluetooth & WIFI Data Transmission Indicators • Zero, Net, kg, lb and Newton Indicators								
A/D Converter	24 bit Low-Noise Delta to Sigma (Δ-Σ)								
Power Source	• Built-in Rechargeable Battery = 6V, 4AH, • External Battery Charger = DC 6.9V, 1A								
Accessories	DC6V/1A Battery Charger, Second Rechargeable Battery and IR Remote Controller								
Tare Range	To Capacity by Subtraction								
Operation Environment	-10 ~ 40ºC. Non-condensed. R.H.≦ 85%								

In the interest of improvement, specifications may change prior to notice

** Not yet submitted for the 500% ultimate overload test

Options

- WIFI Module
- Free of Charge Bluetooth 2.0 Module (to replace the Built-in BT4.0 BLE module)
- WM-SP Wireless Communication Module for RF Transmission
- CT-10 Bluetooth Barcode Reader (Bluetooth 2.0 only)
- DPP250 Bluetooth Thermal Ticket Printer (Bluetooth 2.0 only)
- 3" or 5" Remote Display
- LP-50, TDP-225, TTP-225, TTP-247, TTP-345 Label Printer

Dimensions & Weight

Model	A	B	C	D	E	F	G	H	Net Weight
CSa-1T	255	190	205	580	70	67	46	35	13.5kg
CSa-2T	255	190	205	580	70	67	46	35	13.5kg
CSa-3T	255	190	205	580	70	67	46	35	13.5kg
CSa-5T	255	190	205	680	88	73	60	45	18.5kg
CSa-10T	255	190	205	780	114	92	71	59	30.0kg
CSa-15T	255	190	205	830	120	97	77	65	36.5kg

Dimensions Unit = mm