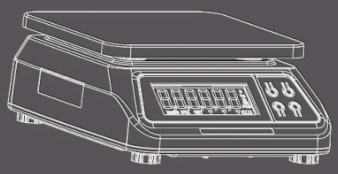
PrimeUSAScales

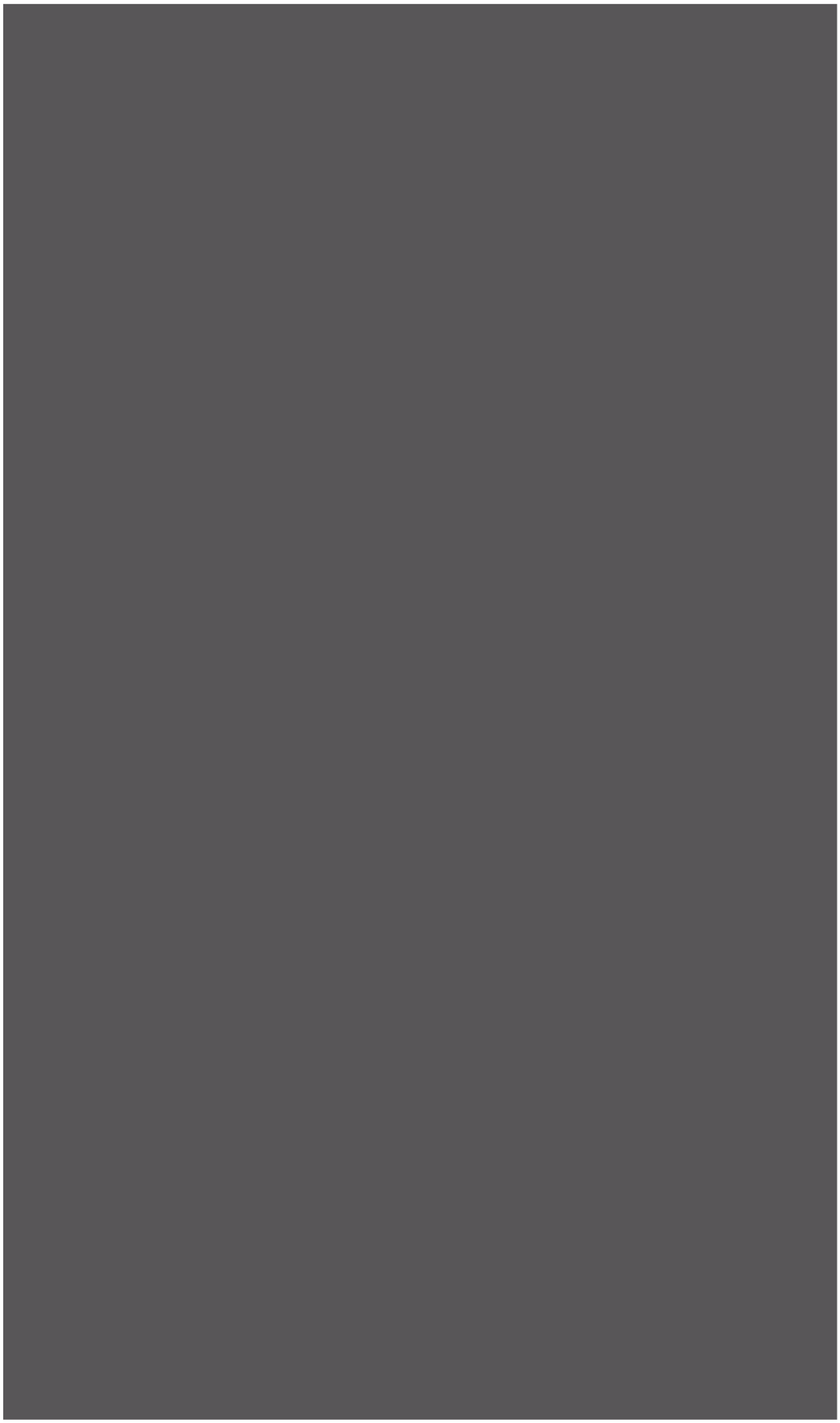
"Best Scale at the Best Price"

DSW-100

Owner's Manual



Ver 1.3 2023.9



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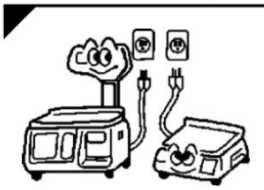
OPERATIONAL WARNING

Please follow the instructions below to operate the product to ensure product and personal safety.



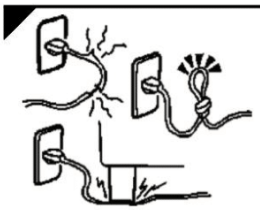
Before installation, it is important to check whether the power supply indicated by the brand matches to ensure the normal operation.

Keep your fingers dry when inserting or removing the power Plug to avoid electric shock.

Sharing sockets with other high-power devices can cause large fluctuations. Make sure that one scale uses a matching power outlet.

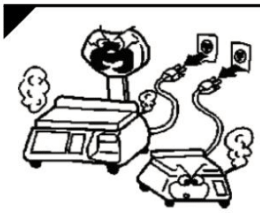
Metal objects or liquids can cause fire or rust in the scale. Keep an appropriate distance from the scale to avoid damage.

Do not insert metal or flammable objects on the interface to avoid damage to the machine or fire.



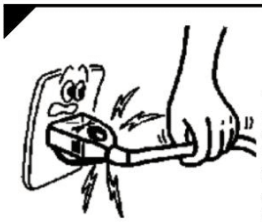
Do not scratch or modify the power cord, bend excessively or place heavy objects on top to avoid fire or short circuit.

If the scale falls, please turn off the switch and power Plug immediately, suspend use, and contact the service personnel in time to avoid fire or electric shock.

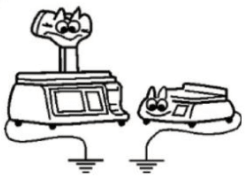


When the scale emits smoke or strange smell, please stop using it immediately, turn off the switch and power supply, and contact the service personnel in time.

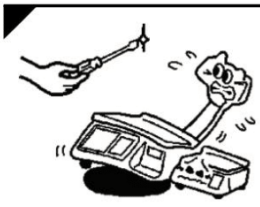
Immediately turn off the switch and Plug when metal fragments or liquids enter the interior, suspend use and contact service personnel to avoid fire or electric shock.



To avoid disconnection of the power cord or peeling of the cord when unPlugging the power cord, do not pull on the cord.



Make sure that the scale and extension cable are properly grounded, as this can cause external metal parts to be electrostatically charged to prevent fire or electric shock.



Do not remove, repair or modify the scale body, high-voltage, high-heat parts or internal edges to ensure personal safety.

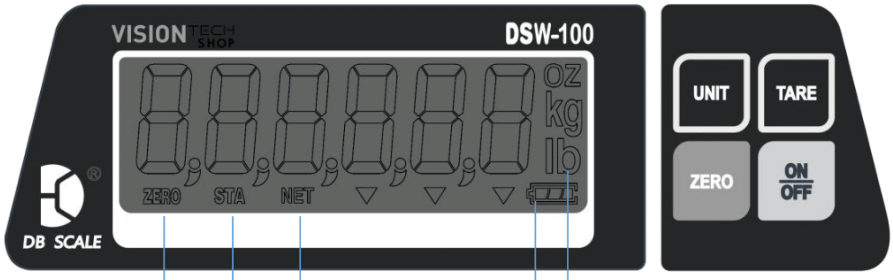
*NOTICE
If you have any questions,
please contact your local
dealer or visit our website:
www.VisionTechShop.com
Thank you.

1. CONVENTIONAL

1.1 Product Specification

SPECIFICATION				
Model	DSW-100			
Maximum capacity	6 lb	15 lb	30 lb	60 lb
Minimum graduation	0.002 lb	0.005 lb	0.01 lb	0.02 lb
Maximum tare weight	-5.998 lb	-14.995 lb	-29.99 lb	-59.98 lb
Auxiliary capacities	3000 g	6000 g	15000 g	30000 g
	3.000 kg	6.000 kg	15.000 kg	30.000 kg
	6.000 lb	15.000 lb	30.000 lb	60.00 lb
	96.00 oz	240.00 oz	480.00 oz	960.0 oz
A/D conversion speed	10 Updates / SEC			
Internal resolution	1/60000			
Display type	LCD display			
Power source	D size battery 1.5V x 4EA (6V), DC 9V 300mA			
Batt. Life	Alkaline Battery:with backlight : 50 hr without backlight : 1000hr			
Operating temp.	-10°C~40°C / 14°F~104°F			
Keys	UNIT, TARE, ZERO, ON/OFF			
Communication	RS-232C			
Power consumption	0.15 W			
Stainless weighing pan (in/mm)	(W)9.06in x (D)7.72in/ (W)230mm x (D)196mm			
Product size (in/mm)	(W)9.06in x (D)11.22in x (H)4.41in/ (W)230mm x (D)285mm x (H)112mm			
Product weight	3.31lbs/1.5 kg			
Option	Customer(Rear) Display / RS-232C Interface			

1.2 Indicator Display



· Weight zero indicator, light when the weight is "0".

·When the weight value is stable, the indicator lights.

· When the displayed value is net weight, the indicator lights.

· Remaining battery indicator

The unit of weight is “g” (gram) “/ kg” (kg) “/ lb” (pound) “/ oz” (ounce).

Notes:

When the battery power is higher than 70%, 3 grids are displayed, and the battery voltage is about 5.7V;

When the battery power is lower than 70% and higher than 30%, 2 grids are displayed, and the battery voltage is about 5.1V;

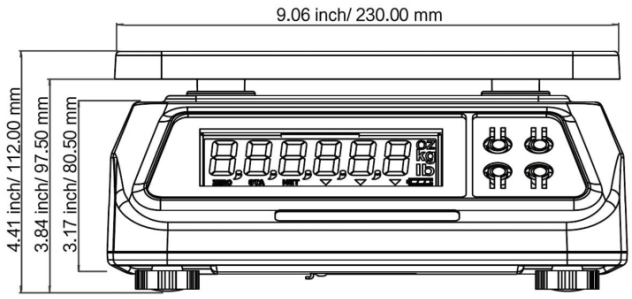
When the battery power is less than 30%, one grid is displayed, and the battery voltage is about 4.2V.

1.3 Basic Function Keys

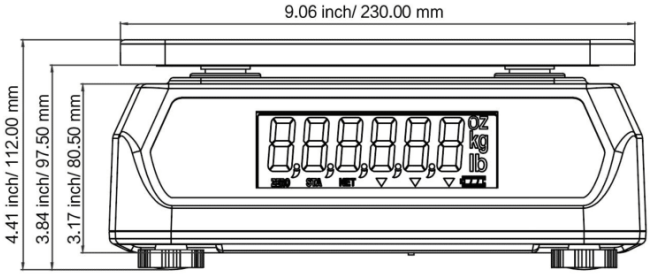
Keyboard type		Specific display
UNIT	Weight	This key is used to convert the unit of weight lb → oz → g → kg → lb.
TARE	Tare mode key	This key is used to set the tare or delete the tare *Tare = A container.
ZERO	Zero key	This key is used to correct the weight to zero.
ON OFF	Power key	Used to switch on/off the scale.

1.4 Dimension

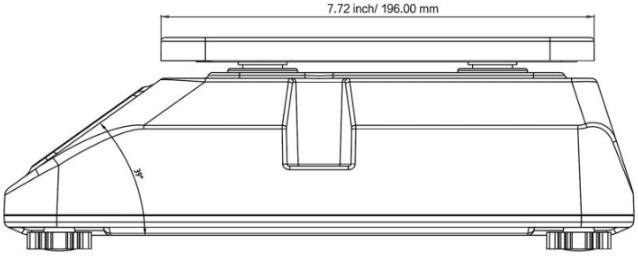
■ Front view



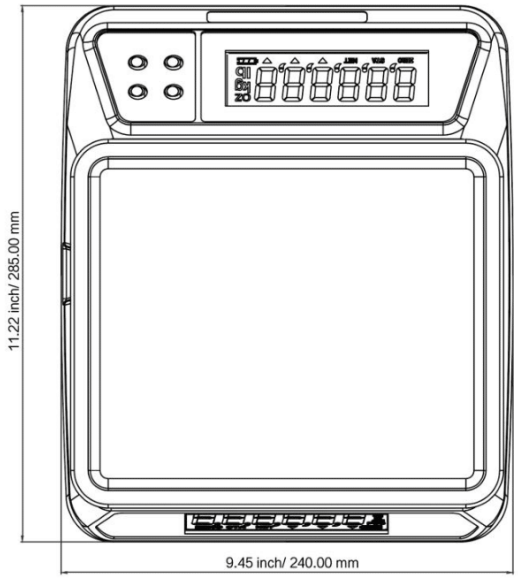
■ Back view (option)



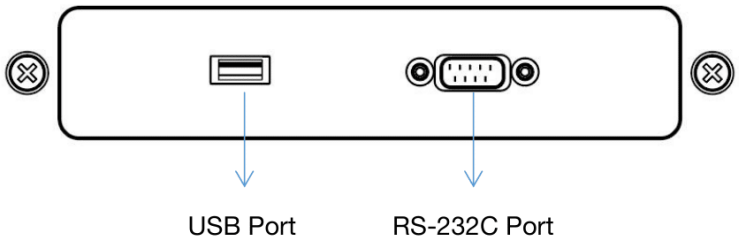
■ Side view



■ Top view

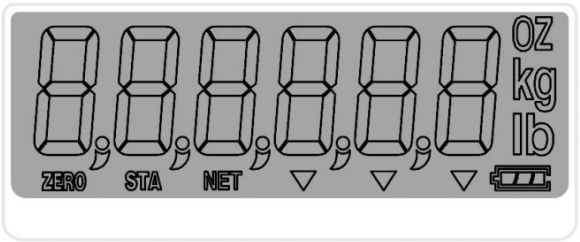


1.5 Interface (Option)



1.6 Display

■ Screen



2. BASIC OPERATION

2.1 Booting

Note:

1. During the field check, press the [ZERO] key to exit and enter the weighing mode.
2. When the battery capacity indicator shows only one bar, it means that the internal battery voltage is too low, please replace the battery. (Please use 4 alkaline batteries of R20P SIZE-D 1.5V).

2.2 Power On/Off Operation

■ Method 1: Click [ON/OFF] button to shut down.

■ Method 2: Unplug the AC power and shut down.

2.3 Zero Operation

■ Make sure that the scale is in a stable state and put a heavy object, the weight must be less than the set allowable zero setting range, such as 0.500lb.

■ Click [ZERO] and remove the heavy object, which shows -0.500lb.

■ Click [ZERO] again to reset to zero.

Note:
If the weighing item exceeds the zero range, it will sound beep beep.
Click [ZERO] again to return to the weighing mode.

2.4 Tare Operation

■Make sure that the scale is in a stable state and put on a heavy object. The weight must be less than the allowable tare range, such as 2.500lb.

■Press [Tare] key to reset the displayed weight to zero. Remove the object and the display will show the tare weight.

■Remove the heavy object, and the display will show -2.500lb.

■Click [TARE] again to resume zero setting.

Note:

If the placed weight exceeds the allowable tare range, the tare operation will not be performed after pressing the tare key.

2.5 Weight Unit Change

■Make sure the scale is stable.

■Put a heavy object on the weighing pan, such as 0.545lb.

■To enable this toggle function, SPEC03 bit.2 must be set to 1.
Click the [UNIT]key, it displays 0.247kg.
Press [UNIT] key again to exit kg mode.

■After removing the heavy object, click [ZERO] to resume zero setting.

2.6 Backlight Brightness Setting

■Make sure the scale is stable.

■Press and hold the [UNIT] key for 5 seconds, knowing that "bL.S 3" appears on the screen, and the displayed "3" is the backlight brightness level.

■Click [UNIT] to increase the brightness, the minimum brightness is 0 (without backlight), and the maximum brightness is 9.

■Click [ZERO] to save and exit.

Note: When working with batteries, decrease the backlight brightness as much as possible to reduce battery consumption and extend battery life.

2.7 Backlight Off Setting

■Make sure the scale is stable.

■Long press [ZERO] and click [UNIT] three times to enter user Settings.

■Click [ZERO] to change the default Settings.

■The figure shows the value of the backlight off. The [UNIT] key inputs “0”, the [TARE] key inputs “1”, and the order is changed from right to left.

BIT 3 / BIT 2	Backlight auto-off time setting	00:10 seconds	01:20 seconds	10:30 seconds	11:Do not close
BIT 1	Allow automatic entry into power saving mode	0:Allow		1:Forbid	
BIT 0	Automatic shutdown time setting	0: There is no automatic shutdown		1: Allows automatic shutdown	

Notes:
BIT3/BIT2: When the backlight brightness is set to 0, the backlight will not automatically get turned on.
BIT1:Power saving mode enters in 60 seconds.
The default is 0011, the backlight turns off automatically after 10 seconds; do not enter the power saving mode; allow automatic shutdown after 3 minutes of no operation.

■Modify as required and click [ZERO] to save.

■Make sure that BIT 3 is "0" in SPEC 01, which means that changing the backlight Settings is allowed. By default, the status is allowed, that is, 0.

The values are tabulated below.

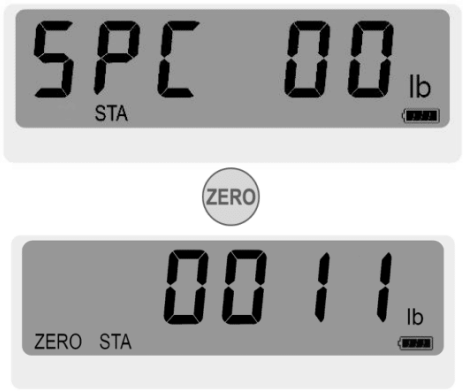
BIT 3	Backlight function settings	0:Allow		1:Forbid	
BIT 2/BIT 1/BIT 0	RS-232 baud rate setting	000: Port closed	001: 1200	010: 2400	011: 4800
		100: 9600	101:19200	110:38400	111: 57600

Notes:
The default is 0100, the backlight function is turned on; the baud rate of RS-232 is 9600.

2.8 Power Off Time / Saving Mode

■Make sure the scale is stable.

■While holding the [ZERO] key, press the [UNIT] key three times.



■Click [UNIT] key to modify Spec 00. The display will show SPC 00, and then press the [ZERO] to enter the power saving mode.
The [UNIT] key inputs “0”, the [TARE] key inputs “1”, and the order is changed from right to left.
If only BIT 1 is modified, “0” is allowed to enter the power saving mode, and “1” is unable to enter.

BIT 3 / BIT 2	Backlight auto-off time setting	00:10 seconds	01:20 seconds	10:30 seconds	11:Do not close
BIT 1	Allow automatic entry into power saving mode	0:Allow		1:Forbid	
BIT 0	Automatic shutdown time setting	0: There is no automatic shutdown		1: Allows automatic shutdown	

Notes:
BIT3/BIT2: When the backlight brightness is set to 0, the backlight will not automatically get turned on.
BIT1:Power saving mode enters in 60 seconds.
The default is 0011, the backlight turns off automatically after 10 seconds; do not enter the power saving mode; allow automatic shutdown after 3 minutes of no operation.

■Click [ZERO] to save and exit.

Note: Automatic shutdown function, only in use of dry battery effective.

3. ERROR MESSAGE

ERRORS	REASONS	SOLUTIONS
OF	Weight overload	Remove or re-calibrate the weight to clear the error message display.
UF.	Gross or net weight is negative	Zero or clear the tare to clear the error message display.
888888	When the [ZERO] button is pressed	Release the zero button to clear the error message display.
0 – E r	System zero error	Remove or re-calibrate the weight to clear the error message display.
z r . E r r	Exceeds the allowable range	Remove or re-calibrate the weight to clear the error message display.
S O n	Calibration switch is in "on" state	After the prompt appears for 5 second, the error message display will be automatically cleared.
S O F F	Calibration switch is in "off" state	After the prompt appears for 5 second, the error message display will be automatically cleared.