

# STALWART

## Semi Micro Balance with Internal Calibration STB-I Series



## Introduction

The micro balance is the latest high-performance and GMP compliant intelligent electronic balance launched by Stalwart, with a maximum design accuracy of 1  $\mu$  g. It can meet your specific needs and compliance requirements, thereby maximizing work efficiency and accuracy of experimental results. The balance adopts a brand-new monolithic sensor as the core component of the weighing device, which directly determines the speed, accuracy, and stability of weighing.

## Features

Adopt new super monolithic sensor technology - accurate, fast, stable and reliable.

- ◆ Sensitivity: unparalleled sensor design and processing technology ensure the sensitivity of micro-weighing results

- ◆ Precision: Particular super monolithic sensor technology ensures the accuracy, stability and consistency of weighing results.

- ◆ High-Speed: The sensor technology of horizontal bar, combined with excellent circuit design and software algorithm, meets the requirements of rapid weighing in the laboratory

Compliance with 21CFR Part 11 - full traceability

- ◆ Designed in accordance with FDA data integrity principles to achieve attributable, legible, contemporaneous, original, and accurate data (ALCOA).

- ◆ User administration: Three-level user administration through access control

- ◆ Electronic Signature: The user's electronic signature can be used to sign the final report of the weighing operation.

- ◆ Audit Trail and Weighing Log: An audit trail is a tamper-proof electronic log file with a timestamp that allows the reconstruction of events related to the creation, modification, and/or deletion of records.

- ◆ Data transmission security; Electronic records should be protected from any tampering.

- ◆ Data output meets GLP/GMP requirements

Operating system with full touch screen

- ◆ Operation requirement is concise and clear, so customers can conveniently operate the balance and directly read the results on the screen to have a wonderful experience. At the same time, it is necessary to consider the special requirements of users in special industries, such as non-contact operation, etc.

Adopt automatic calibration and adjustment technology

- ◆ isoCAL automatic internal calibration and adjustment function, automatically triggered by temperature and time, fully ensure the accuracy of weighing results.

Adopt automatic door technology (optional)

- ◆ The technology of automatically opening and closing door is not only to improve customer experience satisfaction, but also necessary to consider the requirements of non-contact weighing in special industries, so as to achieve the goal of not contacting the balance during the weighing operation. Besides, the balance has a function of memorizing door position.

Fully automatic electrostatic removal technology (optional)

- ◆ Built-in ionizer can automatically eliminate the effect of static electricity on weighing

Built-in multi-applications

- ◆ Built-in multi-applications, print output, & data output meet GLP/GMP requirements

Standard communication interface

- ◆ Automatically identify the printer of D&T

- ◆ Standard RS232, easy to connect with peripherals

- ◆ PC connection function not only is easy to connect to PC, but also can directly transfer weighing data to spreadsheets (Excel)

Standard USB-C interface for data storage and export functions

## Specification

Item	STB-1035I	STB-1055I	STB-1085I	STB-2035I	STB-2055I	STB-2085I	STB-1205I
Max capacity(Max)	31/120	51/120	82/120	31/210	51/210	82/210	120
Readability(d)	0.01mg/0.1mg						0.01mg
Repeatability(≤)	±0.02mg/ ±0.1mg						±0.02mg
Linearity deviation(≤)	±0.02mg/ ±0.1mg						±0.02mg
Calibration	Internal calibration						
Operation temperature	10°C~30°C						
Relative humidity	20%RH~80%RH						
Typical stabilization time	≤2.5s						
Weighing pan	Φ90mm						
Dimensions	470mm ×310mm ×320mm						
Screen size	185mm×100mm						
Weighing chamber height	230mm						
Warm-up time	30-60 minutes						
Power supply	Input:220V AC/50HZ ; Output:12V DC/2A						