

Bosche Software

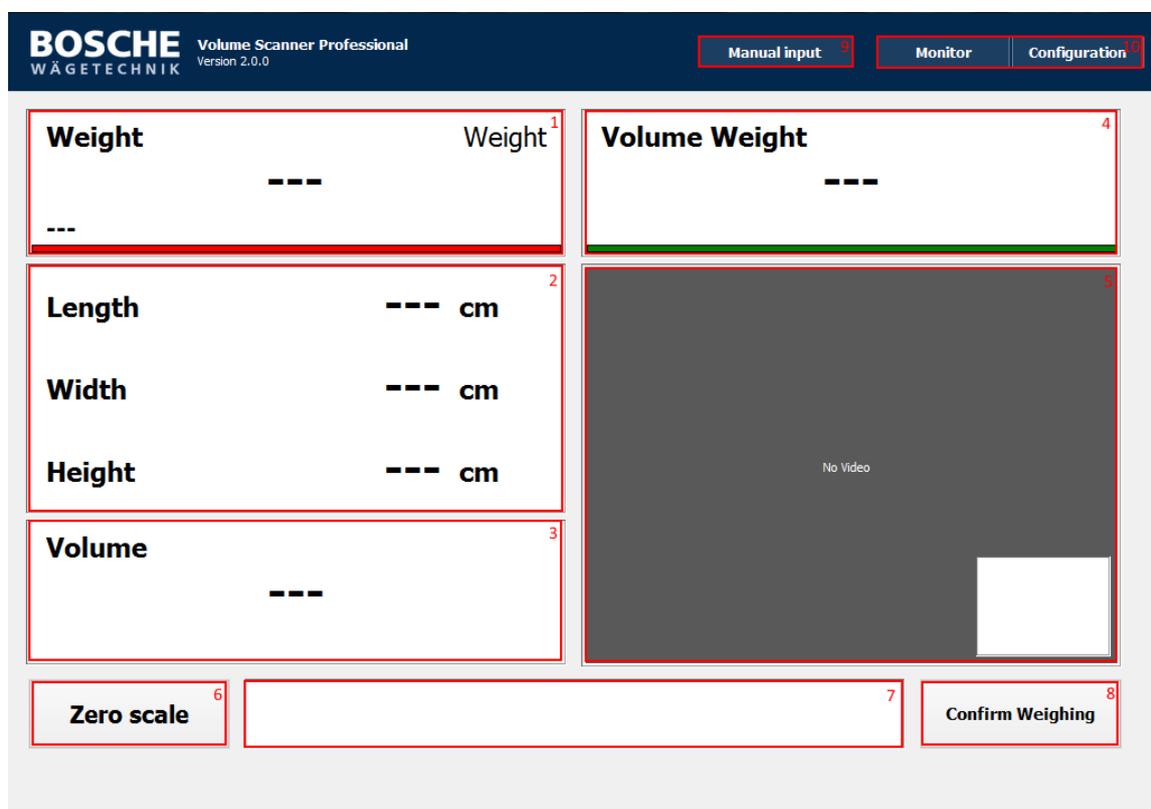
# **VolumeScannerProfessional**

*Manual*

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## 1 Explanation of the user interface



### 1. Weight:

The current weight is displayed on the scale. With the Button “change Scale” you can switch between the Main and the second scale.

### 2. Length, width, height:

The dimensions of the three axes are displayed.

### 3. Anzeige des Volumens:

The volume of the three axes is calculated.

### 4. Volume weight:

The volume weight is displayed. The volume weight is calculated by dividing the volume in  $\text{cm}^3$  by the volume weight factor. At most packaging services this factor is currently  $5000 \text{ cm}^3 / \text{kg}$ .

### 5. Camera Picture / 3D Picture / STL Model

When a camera is connected, the picture will be shown in this field. For the Zippcube there is also the possibility to show the 3D Picture or the STL Model.

### 6. Zeroing:

The scale is set to zero.

### 7. Barcode:

A Barcode can be read or entered.

### 8. Confirm weighing:

Pressing the button saves the current measurement data.

### 9. Manual Input

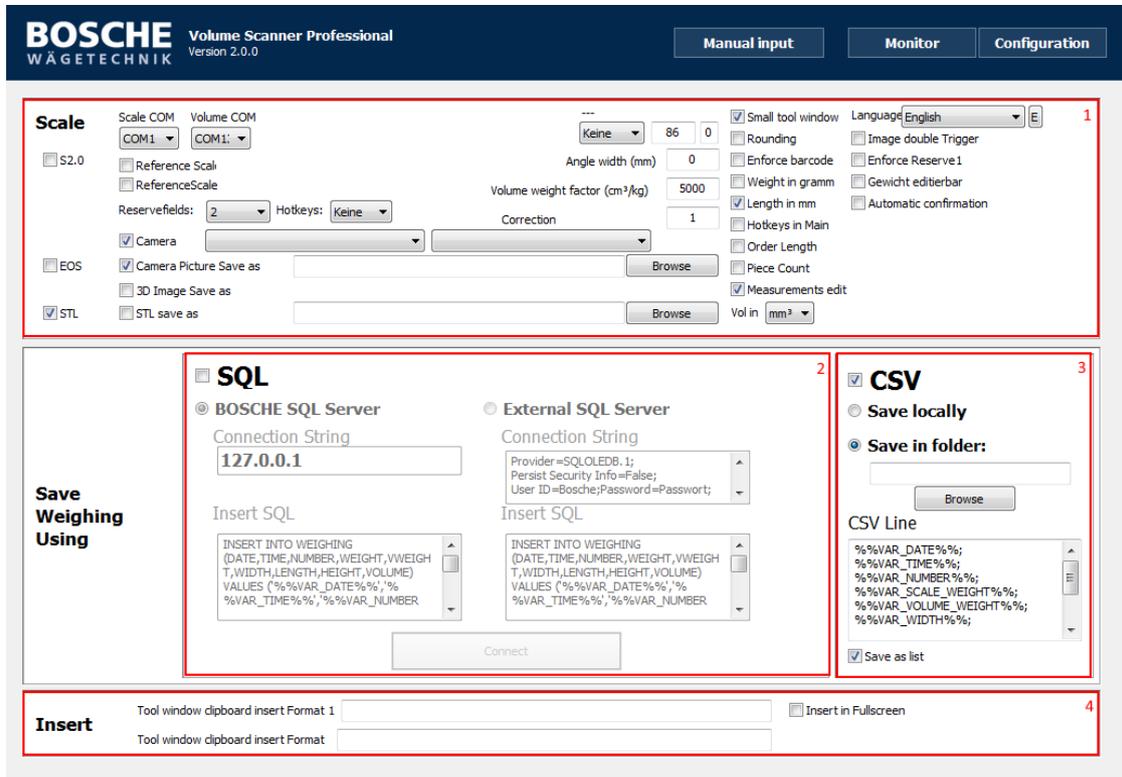
This button opens a window in which you can enter the article data via an on screen keyboard.

### 10. Monitor/Configuration

With the buttons “Monitor” and “Configuration” you can choose between the Main Screen.

and the Configuration Screen.

## 2 Explanation of the configuration interface



### 1. Configuration:

- Scale COM
  - o Interface for the Main Scale.
- Scale COM2 / ReferenceScale
  - o Interface for the Precision Scale.
- Volume COM
  - o Interface for the Lightgrid.
- Flächenerkennung
  - o Zeropoint Lightgrid (only for Bosche technician)
- Hotkeys
  - o Specify how many hotkeys are available in the window “Manual Input”. The Hotkeys can be overwritten with customer specific values and always write in the reserve field 1.
- Reservfelder
  - o Specify how many reserve fields are available in the the window “Manual Input”.
- Camera
  - o Enable the use of a USB camera.
- EOS
  - o Enable the use of a Canon EOS camera with Canon utility.
- Camera Picture save as
  - o Choose a path where you want to save the camera picture.
- 3D Image save as
  - o Choose a path where you want to save the 3D image. (Zippcube)
- STL save as

- Choose a path where you want to save the STL model.(Zippcube)
- Angle width
  - Width of the Angles when you want to measure irregular formed shapes. (3D Silence)
- Factor Volume weight
  - Here the factor value for the volume weight could be entered.
- Correction
  - The difference between measurements for updating the monitor.
- Rounding
  - The values will be rounded to 0.5cm steps.
- Enforce Barcode
  - It is only possible to save a measurement when a barcode is entered.
- Weight in gram
  - The weight is saved in gram.
- Measurements in mm
  - Measurement are shown and saved in mm.
- Hotkeys in Main
  - The Hotkeys will be shown in the Monitor.
- Order Length
  - The measurements will sorted by length.
- Piece count
  - Divide the weight by the number of pieces.
- Small Tool Window
  - By minimizing the software a Mini Tool will be open.
- Weight edit
  - The weight is manually editable.
- Vol in Cubikmeter
  - Volume will be shown and saved in m<sup>3</sup>
- Enforce Reserve 1
  - It is only possible to save a measurement when aomething is entered in the reserve field 1.
- Automatic confirmation
  - 3D Silence
    - A weighing is confirmed, if the input field receives a Carriage Return Line Feed (Enter). By default, the barcode scanner sends always a Carriage Return Line Feed at the end. That means if you place an object on the scale it is confirmed directly with the scan of the bar code, the weighing and measurement data are stored.
  - Zippcube
    - A measurement will be saved when the Lightgrid is free after a measurement.
- Edit Measurements
  - The Measurements are editable.
- Image double Trigger
  - Normally the picture will be saved when the button “Confirm Weighing” will be clicked. In this case it the camera window have to be clicked. Then this picture will be saved in a temporary file. When the button “Confirm Weighing” will be clicked the Software will save the picture which was saved in the temporary folder.
- Vol in CubikCM
  - Volume will be shown and saved in cm<sup>3</sup>

- Language
  - Change the language. To create a new Language File it is necessary to hold „CTRL Shif Alt“ and click on the E Button on the right side of the language checkbox.

## 3 Mini-Tool

The screenshot shows a software interface for a mini-tool. It features a list of measurement parameters on the left, each with a corresponding function key (F6-F11) on the right. Below the list is a 'Barcode' input field, a 'Speichern' (Save) button, and three buttons for data management: 'All data 1 (F3)', 'All data 2 (F5)', and 'Waage nullen (F4)'.

Weight	---	(F6)
Length	---	(F7)
Width	---	(F8)
Height	---	(F9)
Volume weight	---	(F10)
Volume	---	(F11)

Barcode: \_\_\_\_\_

Speichern

All data 1 (F3)    All data 2 (F5)

Waage nullen (F4)

The mini-application opens, if the software Volume Scanner Professional is minimized and mini-application has been selected in the configuration. With the mini-application you still have all the data at a glance. This tool can be operated by pressing the function keys (F3-F11). By closing this tool the minimized Volume Scanner Professional window opens again.

Description of function keys.

- F3:

All data are written to the current cursor position. It can be configured in the Configuration (Insert) in which order and which data. (Further information in section

- F4:

Zeroes the scale.

- F5:

All data are written to the current cursor position. It can be configured in the Configuration (Insert) in which order and which data. (Further information in section 3.1)

- F6:

The weight is written at the current cursor position.

- F7:

The length is written to the current cursor position

- F8:

The width is written at the current cursor position.

- F9:

The height is written at the current cursor position.

- F10:

The volume weight is written at the current cursor position.

- F11:

Das Volumen wird an die aktuelle Cursorposition geschrieben.

## 3.1 Insert-Format

You have the option to set up the data, in which order and which jumps they are transmitted with the F3 and F5 key.

Possible commands:

- „\bn“: current Barcode
- „\vg“: current weight
- „\vl“: current length
- „\vw“: current width
- „\vh“: current height
- „\vww“: volume weight
- „\vvo“: volume
- „\t“: Tab jump
- „\r“: Enter
- „\s100“: Sleep of 100ms

With these commands you may individually set up, how the data is transferred via F5.

Standard configuration:

```
\vg\t\s100\vl\t\s100\vw\t\s100\vh\t\s100\vww\t\s100\vvo\t\s100\r
```

After each insert of record, a Sleep of 100ms should be inserted, because otherwise data could be lost.