

# Intelligent Glossmeter

## BEVS 1503

### User Manual



Please read this manual before operation.

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## 1. Company Info

BEVS Industrial Co., Ltd. is a leading developer & manufacturer that specializes in coatings, ink, painting, resin testing instruments and laboratory whole solution.

We offer the complete and unique products in this field to meet customer's challenging demands of today and tomorrow, the products are complied with the standards of ISO, ASTM, DIN, BS, EN etc.

With strong supports and hard work by lots of end-users and worldwide agents, BEVS become more and more famous in the world and provides more competitive values for our customers.

## 2. Production Introduction

BEVS portable intelligent glossmeter has a wide range of applications from matt to high gloss measurements, with advanced touch screen technology and ideal for production and laboratory. Samples can be measured separately at each angle or at 2 or 3 angles simultaneously and effectively processed using the powerful built-in software.

## 3. Operation

### 3.1 Calibration

Method 1: Click Setting -> Calibration, follow the tips to calibrate.



Method 2: Long-press the power switch with the meter power off, and the meter will calibrate automatically.

Method 3: Put the meter into the calibration holder, then turn on the meter and it will calibrate automatically.

**Note:**

Ensure the standard panel clean and fit into the calibration holder. Temperature effects the test result, please calibrate the meter every half an hour if possible.

**3.2 Measurement**

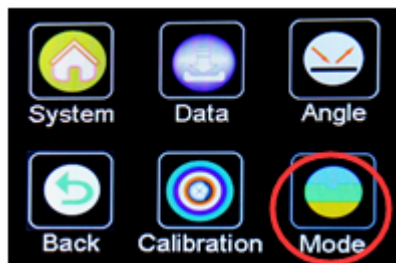
Place the meter onto the material to be tested, please ensure the orifice covers the material totally. Click button “Measure”. And you will see the result as below. White figure means a successful test while red figure stands for a failed test.

**3.2.1 Angle Setting**

Click button “Angle” as below to set.

**3.2.2 Mode Setting**

Click button ”Mode” to set.



Three mode are available, choose one as you need.

**1. Basic Mode**

It is used for basic measurement and does not calculate max value, min value or pass rate. Please set the standard value and accepted tolerance for each angle and steps as below.

Menu -> Mode -> Standard -> 20° -> 60° -> 85°

Upper Dev: the highest accepted value

Low Dev: the lowest accepted value

Please “Save” each step to finish the setting.

## 2. Continue Mode

It is set for continue test of the material surface and calculate the average, max, min value and etc.

The data is saved as a group. In this mode, set the parameter as Basic Mode first, then the times and interval (unit: s).

Steps: Menu -> Mode -> Continue -> 20° -> 60° -> 85°

## 3. Statistic Mode

It is different from the Continue Mode. This mode only measure once while Continue Mode keep the test going on. Each measurement will calculate the max, min, average, pass rate and etc.

Steps: Menu -> Mode -> Statistic -> 20° -> 60° -> 85°

“Times” can be set up to 10, the max.

## 3.3 Data

### 3.3.1 Software installation on PC

Please see the software installation manual.

### 3.3.2 Data Output

1. Double-click the software shortcut on PC.
2. Connect the glossmeter to PC via USB cable, set the “com” No. and test it.
3. Click to “Output” and you will see the data.
4. Click “File” -> “Save to Excel”.

### 3.3.3 Delete Data



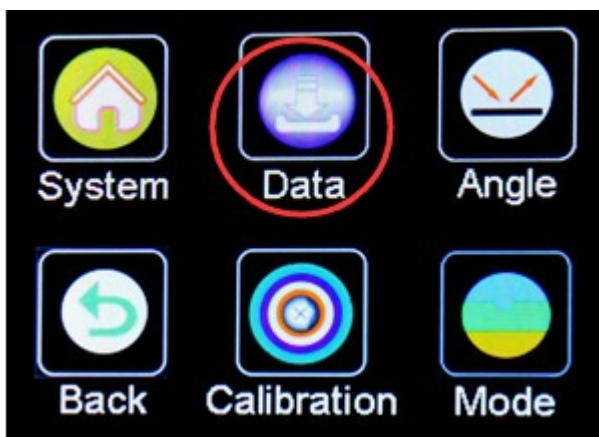
### 3.3.4 View Analyzed Result

The result of different mode is shown on the interface as below.



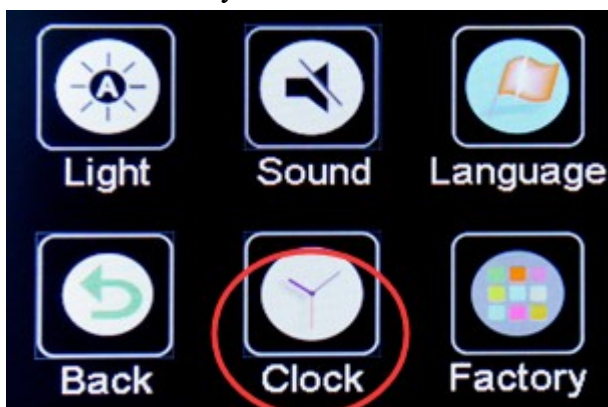
### 3.3.5 Bluetooth

Click button "Data" to open the Bluetooth.



### 3.4 Time and Date

Click Menu -> System -> Clock to set.



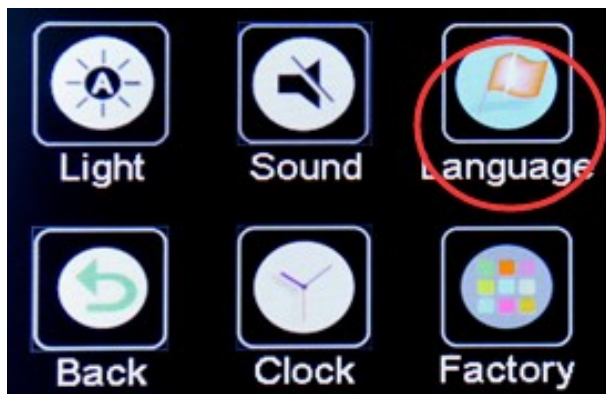


**Example:**

1. Set Date: Aug. 8, 2017, please input 180808.
2. Set Time: 8:05 am, please input 080500.

**3.5 Language**

Click Menu -> System -> Language, select the one as requested.

**3.6 Other Setting**

You can also set the brightness and sound. But “Factory” is only for the manufacturer, do not change the parameter here.

**4. Technical Specification**

- ◆ Angle: 20°, 60°, 85°
- ◆ Measurement range: 0-2000GU
- ◆ Repeatability:  $\pm 0.2(0-199.9\text{GU})$ ,  $\pm 0.2\%(200-2000\text{GU})$ ;

- ◆ Reproducibility:  $\pm 0.5(0-199.9\text{GU})$ ,  $\pm 0.5\%(200-2000\text{GU})$ ;
- ◆ Precision: 1GU
- ◆ Measuring area(mm): 10x10 (20°), 9x15(60°), 5x18(85°)
- ◆ Display resolution: 320 x 240
- ◆ Control: Touch screen with one key measurement
- ◆ Memory: Basic mode: 3000 batches  
Statistics mode: 3000 batches  
Continuous mode: 1000 batches
- ◆ Data port: USB & blue tooth

## 5. Order Info

BEVS 1503 Intelligent Tri-Glossmeter ( 20°/60°/85°)

BEVS 1503/1 Intelligent Glossmeter (20°)

BEVS 1503/2 Intelligent Glossmeter (60°)

BEVS 1503/3 Intelligent Glossmeter (85°)