



# TW1018-III/IV FOOTWEAR/WRIST STRAP TESTER INSTRUCTION MANUAL

## Product Overview

Meets the requirements of international standards, the operators grounding should be safety; this easy to use BFN-TW1018-III/IV allows you to test both wrist strap and footwear to make sure EPA safety.

With 8BIT MCU chip, independently tests the foot and wrist band and an innovative LCD screen will instantly display the test result and the measured resistances. And the test time less than 1 second.

Meanwhile, concentrate the turnstile and Attendance function to reduce the factory cost to achieved the intelligent and automation.

Work environment: Temperature 0~50 °C, RH20%~85%,

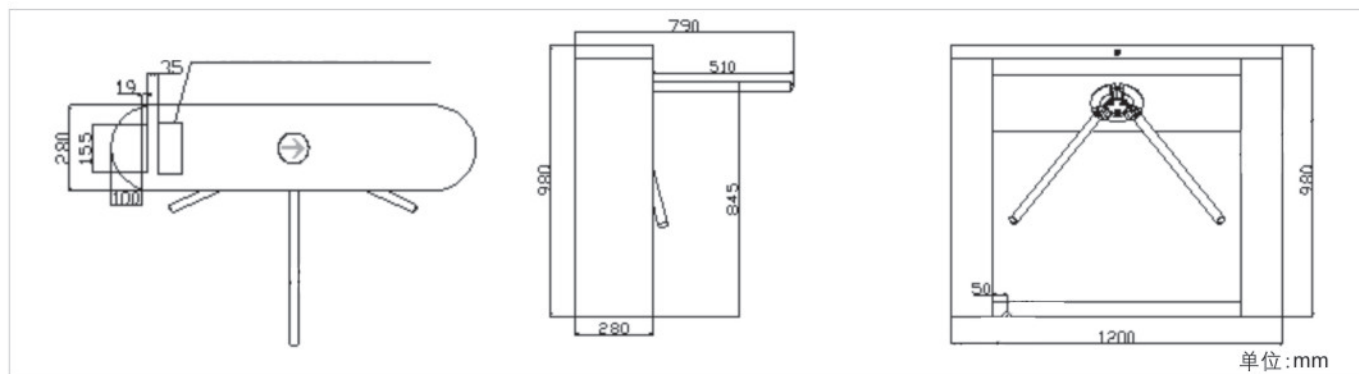
## Features

- TW1018-III (Without voice), TW1018-IV(voice alarm); is the tester of ESD, turnstile, attendance.
- There was three equipt (left shoe, right shoe, wrist strap) to finished the ESD test.
- LCD display, Resistance display range(Shoes:0.75 MΩ-99.99 MΩ; wrist strap: 0.75 MΩ-99.99 MΩ) If the resistance lower than 0.75 MΩ, Will be display the "LO"; Shoes resistance higher than 100 MΩ will be display "HI"; Wrist strap resistance higher than 9.999 MΩ will be display "HI".
- With alarm function, convert autmotion.
- After all the test pass, The signal output to tunstile, air shower or other electrical key.
- Two model optional: Employee and clients ; The employee model with ID/IC swipe display the name, card number, date, time and different test model:
  - A:swipe test wrist strap and shoes resistance ok. Then door open;
  - B:swipe test shoes pass then door open;
  - C: swipe test wrist strap pass then door open
  - D:Swipe test push the button then door open.
- Clients model: Only test the wrist strap and shoes resistance pass then open the door.
- The software will be storage ESD test data 10000 records.
- Lead the personal file, download the name, card No. ESD model information to the tester;(allowed 10000 records register information).Collect the swipe time, card no and ESD test records, Meanwhile, delete the ESD equipment record .SQL Server background data management, sort and inquiry with support software. and storage as Excel to composing and printing reports.
- Support software may control 200 sets TW1018-III/IV work simultaneous . Automatic software updates.
- Customerize IC or ID card optional, Such us laser bar code reading, fingerprint check-in etc.
- Support software calibrate ESD tester time, date, And monitor the others status.
- Change the equipt No., Software title, windows color, etc.
- With 485 computer communication, the communicate distance will be arrived 1200 meters. Many computer manage with one share data base.
- TW1018-IV voice function is allowed customize, And adjust and power off voice .

## Specification

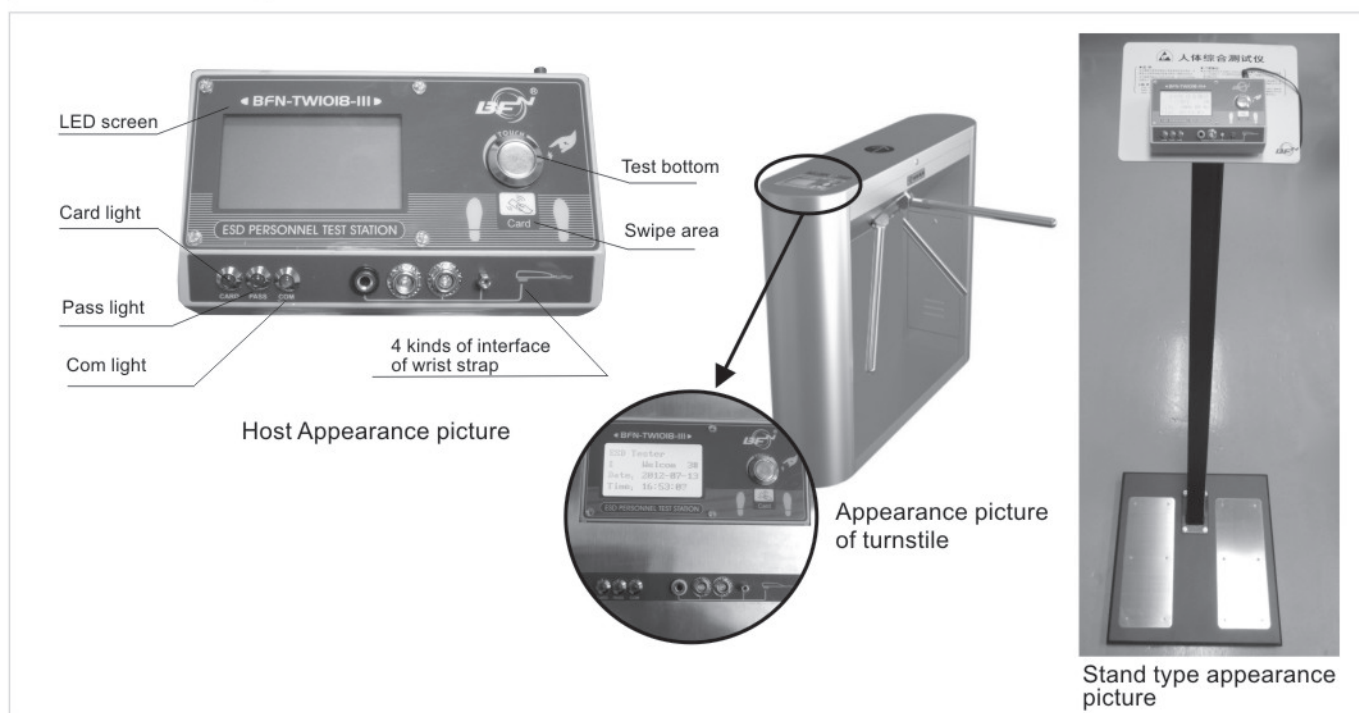
- Working Voltage: DC 9V-12V
- Working Current: <500mA
- Test time: <1 SEC
- Test accumulate: ±10-20%
- Test Range :
  - For footwear:
    - Left shoe: 750KΩ-100MΩ
    - Right shoe: 750KΩ-100MΩ
  - For wrist strap :
    - 750KΩ-10MΩ
- Color: grey
- Material: ABS plastic
- Dimension: W165mm×L97mm×H40mm
- Foot plate and size: stains steel. W460mm×L460mm×H450mm
- Stand height: 1.15 M;
- Gross weight: 323g (body), 2.5kgs(stand), 4.5kgs(plate)

## Turnstile technology parameter



- Case material: NO. 304 stainless steel construction structure.
- The max carriage weight of brake lever: 80kg
- Chip: 12V/20W DC motor
- Appearance standard size: W280 X L1200 X H980 (mm)
- Brake length diving force: 3kg
- Emergency measures: rod automatically drop when power off;
- Lighting tip: High-brightness mold indication (it is not bright only indication the arrow shining).
- Weight: about 70kg
- Brake lever turned: unidirectional, bidirectional
- Gate time: 0.2 second
- Brake length: 510mm
- Indication speed: about 30 person/minute

## Outline Drawing



## Using Step

First of all, confirm the type and the quantity is the same as the packing list. Then installation it: choose the computer system Windows XP, installation the database software SQL Server 2000, return Login condition:

1. Make sure the equipment connection corrected.
2. Confirm if the 9D outlet is correct, must choose on line equipment that power on.
3. Database information must correct.
4. Login ESD system software please input the user name and password.

Just as the below following: user name and password is regard as "admin", "11111."



图1：登录界面



- Basing on the following procedures, install the standing and instrument. As the picture(2) insert the foot plate and RS485 communication linking to ensure connected RS485 electrocircuit, then can enter into next step "picture(3) system".

## The procedures of the stand installing

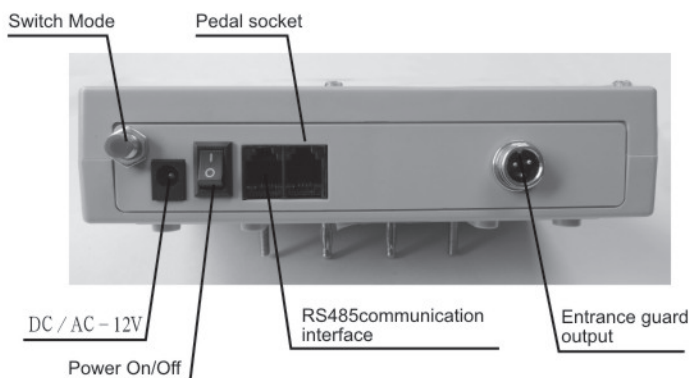
- Locate the pedestal and the connection wire with banana clips on one end and eye bolts on the other.
- Locate the platform and unscrew and remove the four (4) screws located on the underside of the platform.
- Inserting the wiring into the corresponding socket and ensure it can connect well.
- Using the distribution of two sets of screws to secure the host and the top of the scaffold plank;
- Inserting the power adapter, put the switch on, then it can use.

## The procedures of wall-mounting type installing

- Inserting the random distribution of the yellow board with screws on the right height of the wall or customer-specified location.
- Fastening the host's metal buckles and the metal buckles on yellow plate correspondingly.
- Putting the host line and the pedal line on the right connections.
- Inserting the power adapter, put the switch on the place of ON, then it can use.

## The procedures of turnstile installing

- A the host and the free roller gate have inserted before it left the factory
- B using the distribution of RJ11 linking line,
- C inserting the power adapter, put the switch on the place of ON, then it can use.

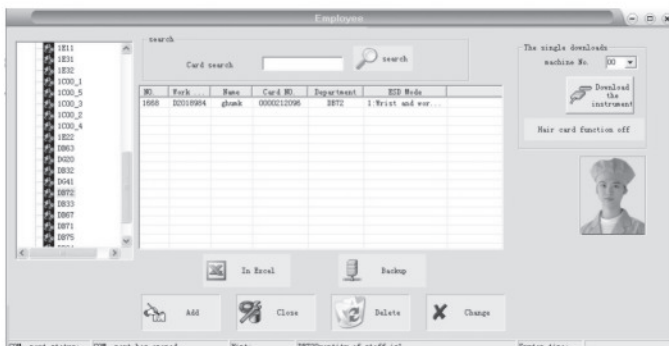


Pic 2 : Interface specifications

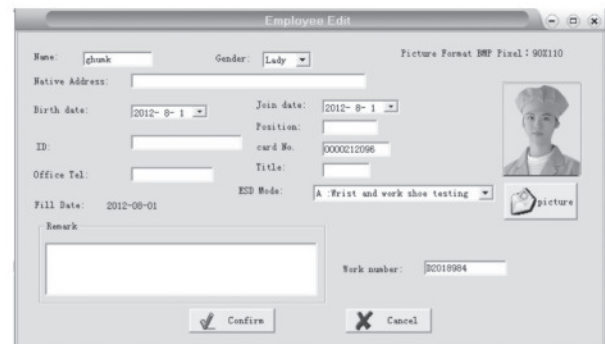


Pic 3 : Software interface

- Clicking the button of "introduction to Excel documents", and loading the directory personnel table Excel documents in the software root, personnel table need customers to file the design in the form first. Importing The personnel files into the database, look the picture 4. then you can click the department information and check the staff's information. And it can edit increase, amend, and delete as the picture 5. But, the name card number can't be empty.



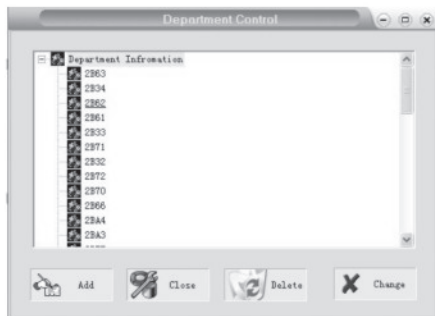
Pic 4 : the Staff management interface and a single download to instrument



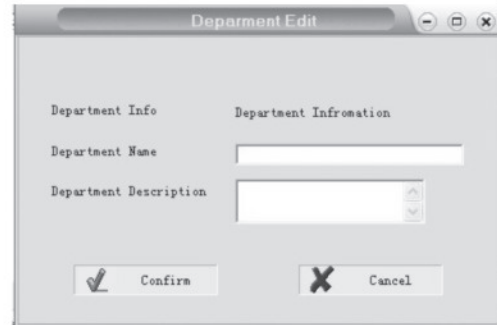
Pic 5 : Personnel information editing interface

**⚠ attention:** the Repeat card number cannot be modified or added information

- Pic 6 to Pic 11 expose a part of the functionality.



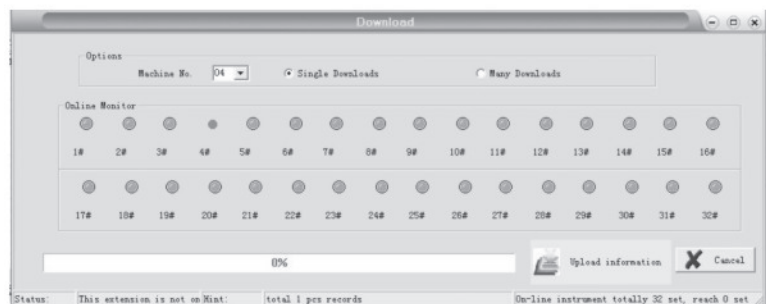
6<sup>th</sup> pic, Department information interface



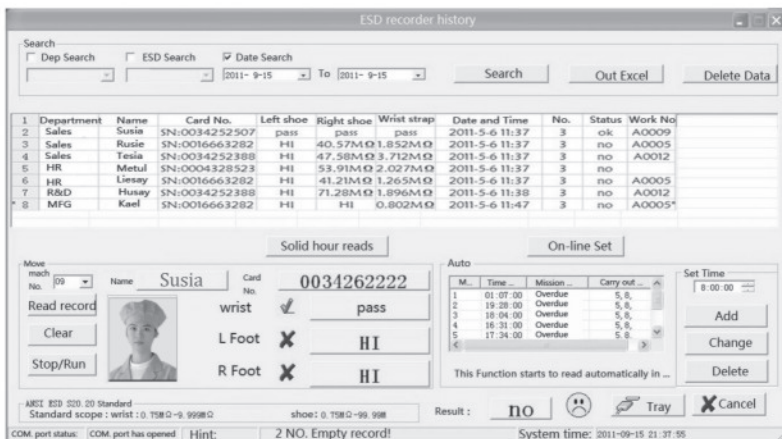
7<sup>th</sup> pic, Department information edit interface



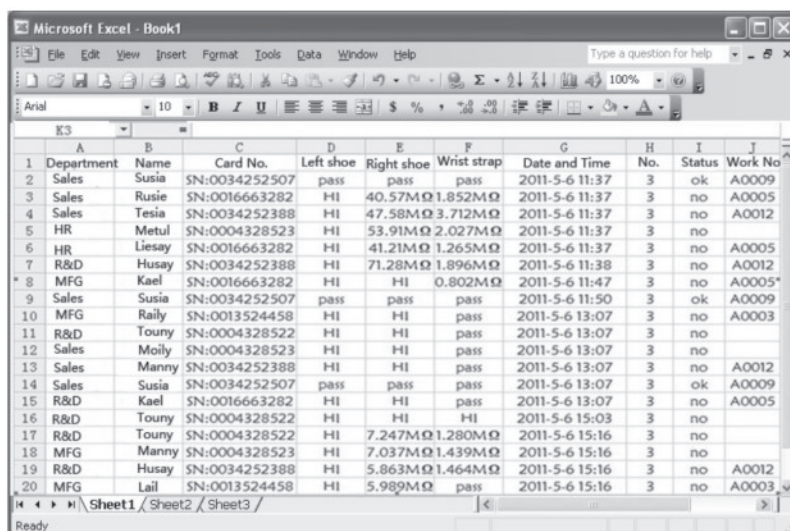
8<sup>th</sup> pic, Time and date edit interface



9<sup>th</sup> pic, Mass download registered information interface



10<sup>th</sup> pic, Read or delete ESD record interface

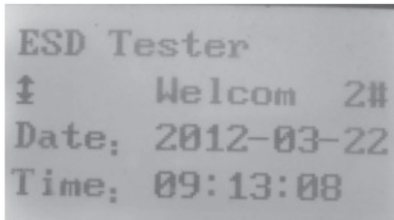


11<sup>st</sup> pic, Output excel interface

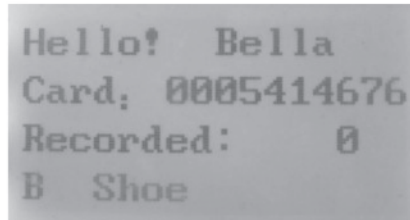
**▲ Notes:** Printing preview of daily report and monthly report, pass means free-testing, HI means over testing range, LO means less than testing range.

- Card holders with registered ID/IC cards are going to be ESD tested after power on, the non-registered ID/IC cards will be displayed "non-registered cards" and alarmed, standby display at this moment. Refers to 12<sup>nd</sup> pic. There will be displayed name, card number and record number while testing if with the registered cards refers to 13<sup>rd</sup> pic.

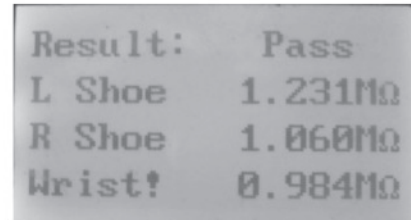
Stand well on the foot plate, connect the wrist strap, you will know the ESD tester is available or not while finger touched the metal plate, such as the how about ESD reading, remove the finger and there will be the stand by display, please wait to be card sensor display, testing result please refers to 14<sup>th</sup>.



12<sup>nd</sup> pic, standby display



13<sup>rd</sup> pic, card sensor display



14<sup>th</sup> testing result

**▲ Notes:** Gloves and fingernails cannot be touched the metal button, hands away in the wrist strap cord and metal knob while testing, keep clean of the foot plate. Keep dry of the shelf and repair or remove some parts are both forbidden.

### Accessories

- 1 Power supply.
- 3 Shelf installation screws (M8\*45MM)—Stand type available.
- 2 Machine fix screws (M4\*25MM)—Stand type available.
- 1 Hang plate (Hang type available)
- 1 Foot plate
- 1 Operation manual
- 1 Warranty card
- 1 Disk for software
- 1 RS232-RS485 convertor
- 1 Communication test wire

Operation manual only for TW1018-III/IV users, it includes the testers components, operation and some concerning information, some upgrading property with continuing stability, slightly difference will be allowed with operation and manual.



### Suppliers Information



2012 HORB Corporation/printed in China.  
P/N: 1.001.02.079