

TSR-200 Test Strip Reader



TSR-200 portable Test Strip Reader is a compact design and extremely small reader. The reader is your solution for customized colorimetric tests. It can make rapid, high sensitivity—in qualitative, semi-quantitative, fully quantitative measurements for immuno chromatographic reagent kits.

TSR-200 Portable Test Strip Reader is capable of reading up to 5 lines evaluating the Lateral Flow Colloidal Gold test cassettes and strips. The data can be saved using USB port or can be printed by the reader.

Easy to use and high accuracy

1. 6.2 inch touch screen for TSR-100
2. Powerful program design, it is easy to be used
3. Patented design offer good solutions guaranteed and excellent results
4. Each testing result is available to check and it can show the graph of the result
5. Build-in or external thermal printer
6. Rapid instrument calibration

Customization acceptable

1. Equipped specialized software of different test strips, increase or decrease detection program according to the manufacturers requirements

2. Support customization according to user needs
3. Test card and test strip for user flexible choice
4. Desktop and portable for user choice:

TSR-100 Desktop test strip reader

TSR-200 Portable test strip reader

Remark for Test Strip Reader

1. Test strip reader must match the test strip, cooperate with the manufacturer of test strip
2. Support customization according to test strip manufacturer needs
3. Fluorescence detection must be provided excitation wavelength, emission wavelength and life of fluorochrome

Detection principle

Standard test strip structure as right picture, these equipment's detect sample positive or negative (concentration) by measuring reflection of light intensity of T and C line.

These are also suitable for some test strip with several T lines. The TSR-100 can test 5 T lines and the TSR-200 can test 4 lines

Small footprint and easy to use

The TSR-200 reader is a compact designed hand held device. With the TSR-200 you are faced with a professional small instrument for rapid and automated analysis. It's ideal for meeting the needs for reliable in-the-field drug of abuse and point-of-care testing

Applications:

- Customs Inspection
- Environment Monitoring
- Food Safety

Features

1. A portable reader customized to your needs
2. Adaptable to most test cassette and strip formats

3. Supports a wide range of reagents as well as reagent development
4. High-sensitivity measurement with high repeatability
5. Colorimetric detection: Colloidal gold, colored latex beads, carbon etc.
6. Automatic line position detection and intensity calculation
7. The results are highly sensitive compared to human eye readings
8. OEM service is available according to different reagent kits or fluorescence detection
9. Internet, wireless internet function extendable
10. Small size and light weight for easy carrying
11. Simply operation with 1~3 steps quantitative detection
12. Semi-automatic detection with high speed, test time only 5s except prepare sample time
13. Automatically identify CT line position, Error correction range $\pm 3\text{mm}$
14. Accurately identify one or more (up to 4) T lines value and CT ratio
15. Large built-in memory can save 10000 records
16. External thermal printer for printing reports
17. Powerful software, build-in 2 systems software (one for the end-user, another one for the reagent manufacturer)

Technical Data

Model	TSR-200
Wavelength	525 \pm 30nm (Base the requirement of customer)
Detector Type	Photodiode
Test item	Immuno chromatographic test cards or wide 2~6mm test strips
Parameter of test item	According to the requirement of test strips

Delay-time test	Set delay-time, then, the test strip complete the reaction in the reader, timed automatic detection
Detection result	Multi-algorithm, quantitative, Selected results, save and print results
Test Speed	240 strips each hour
Repeatability	CV<2%
Stability	Drift value≤3% in 2 hours
Data analysis	Qualitative, quantitative, semi-quantitative, Multi-algorithm
Display	3.2 inch touch screen
Connections	2 x USB
Number of T-line	4 lines
Printer	External Printer
Save Type	Built-in SD card (4GB)
Power Adapter	DC9V 1.5A
Power	9W
Dimensions (W x D x H) mm	225 x 109 x 46 mm
Weight	0.5kg