Test Strip Reader

LIFE SCIENCE

Alpinum Prazision Austria GmbH & Co. KG

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– Life Science –

CarnisTSR-100 / CarnisTSR-200
Test Strip Reader

CarnisTSR-100

CarnisTSR-200

01
Description

CarnisTSR-100 and CarnisTSR-200 test strip reader are suitable fortest the immuno chromatographic test strips. By using modern photoelectric technology and photo-diode todetect the intensity of the reflected light, the reader candetect the color of the strip,then calculate the quantingor concentration. It can avoid reading mistake by eyesand make rapid, high sensitivity when using reader todetect the color change of test strip.

02
Easy to use and high accuracy

1. 6.2 inch touch screen for CarnisTSR-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

03
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:
   CarnisTSR-100 Desktop test strip reader
   CarnisTSR-200 Portable test strip reader

CarnisTSR-100 / CarnisTSR-200
Test Strip Reader

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TSR-100 Highlights

1. 6.2 inch touch screen for easy use
2. Strict calibration system for stable results
3. Automatically identify CT line position, Error correction range ±3mm
4. Fast and accurate test reduce human errors, automatic calculate concentration and judgment
5. Accurately identify one or more(up to 5) T lines value and CT ratio
6. Large built-in memory can save 10000 records
7. Build-in thermal printer
8. Powerful software, build-in 2 systems software (one for the end-user, another one for the reagent manufacturer)
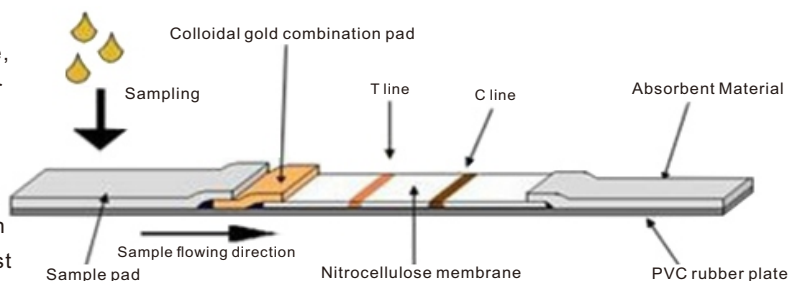
05
TSR-200 Highlights

1. Small size and light weight for easy carrying
2. Simply operation with 1~3 steps quantitative detection
3. Semi-automatic detection with high speed, test time only 5s except prepare sample time
4. Automatically identify CT line position, Error correction range ±3mm
5. Accurately identify one or more(up to 4) T lines value and CT ratio
6. Large built-in memory can save 10000 records
7. External thermal printer for printing reports
8. Powerful software, build-in 2 systems software (one for the end-user, another one for the reagent manufacturer)

Detection principle

Standard test strip structure as right picture, these equipments 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 CarnisTSR-100 can test 5 T lines and the CarnisTSR-200 can test 4 lines

Colloidal gold combination pad

Sampling

T line   C line   Absorbent Material

Sample flowing direction

Sample pad   Nitrocellulose membrane   PVC rubber plate

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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

07
Adapter for CarnisTSR-100

■ Adapter S-100   ■ Adapter C-100

Adapter for CarnisTSR-200

■ Adapter S-200

■ Adapter C-200

Specification

Type	CarnisTSR-100	CarnisTSR-200
Wavelength	525±30nm（Base the requirement of customer）	525±30nm（Base the requirement of customer）
Detector Type	Photodiode	Photodiode
Test item	Immunochromatographic test cards or wide 2~6mm test strips	Immunochromatographic test cards or wide 2~6mm test strips
Parameter of test item	According to the requirement of test strips	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	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	Multi-algorithm, quantitative, Selected results, save and print results
Test Speed	240 strips each hour	240 strips each hour
Repeatability	CV<2%	CV<2%
Stability	Drift value≤3% in 2 hours	Drift value≤3% in 2 hours
Data analysis	Qualitative, quantitative, semi-quantitative, Multi-algorithm	Qualitative, quantitative, semi-quantitative, Multi-algorithm
Display	6.2 inch touch screen	3.2 inch LCD
Connections	2 x USB	2 x USB
Number of T-line	5 lines	4 lines
Printer	Built-in Printer	External printer
Save Type	Built-in SD card (2GB)	Built-in SD card (4GB)
Power Adapter	DC12V 4A	DC9V 1.5A
Power	20W	9W
Dimensions (W x D x H) mm	320 x 195 x 156 mm	225 x 109 x 46mm
Weight	4kg	0.5kg

Ordering information

No.	Code	Description
01	AS-12010-00	CarnisTSR-100 Test Strip Reader, DC24V 2A (Standard: Adapter S-100)
02	AS-12011-01	Adapter C-100 for CarnisTSR-100
03	AS-12020-00	CarnisTSR-200 Portabel Test Strip Reader, DC9V 1.5A (Standard: Adapter S-200)
04	AS-12021-01	Adapter C-200 for CarnisTSR-200