

## Comprehensive inspection menu

- Cardiac Maker
    - H-FABP
    - NT-proBNP/cTnI/H-FABP
    - ST2
    - S100-β
    - cTnT
    - NT-proBNP
    - cTnI
    - CKMB/cTnI/MYO
    - MYO
    - Lp-PLA2
    - CKMB
    - D-Dimer
  - Inflammation
    - CRP
    - IL-6/PCT
    - SARS-CoV-2 Antigen
    - SAA/CRP
    - HBP
    - PCT
  - Gastric
    - HP
    - PGI/II
    - Pepsin
    - G-17
- Anemia
    - Ferr
    - AMH
    - sFlt-1/PLGF
    - Vitamin B12
  - Diabetes
    - INS
    - C-P
    - APN
    - HbA1c
  - Thyroid
    - TSH
    - FT3
    - FT4
    - TT3
    - TT4
  - Tumor Maker
    - AFP
    - CEA
    - VEGF
    - fPSA
    - TPSA
    - CA125
    - CA15-3
- Bone
    - BGP
    - PTH
    - 25-OH VD
  - Hormone
    - β-HCG
    - FSH
    - LH
    - PRL
    - Testo
    - PROG
    - HGH
    - IGF-1
    - IGFBP-3
    - E2
  - Allergy
    - Total IgE
  - Renal
    - Cys-C
    - MALB
    - β2-MG
    - NGAL



FSC CE NMPA IVD

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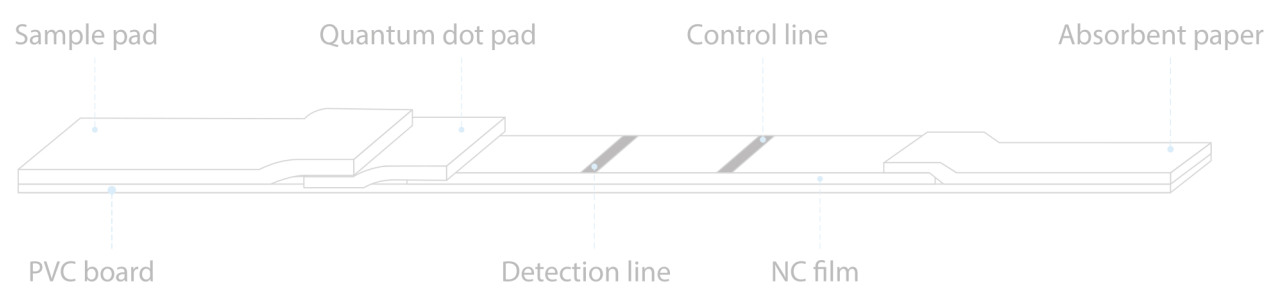
PROTYzer  
Fluorescence Immunoanalyzer

Protzyer Medical System

## Methodology Introduction

Quantum Dot fluorescence immunochromatography is a biosensing technology that combines high-sensitivity quantum dot fluorescence labeling and high-specificity traditional immunochromatography separation methods. Quantum dots, also known as semiconductor nanoparticles, show great application potential in the field of biological detection due to their unique optical and physical properties, such as high fluorescence intensity, good light stability, adjustable emission wavelength and wide excitation spectrum.

Compared with traditional organic fluorescent dyes, quantum dot fluorescence immunochromatography has many advantages, such as long fluorescence life, strong photobleaching resistance, and good biocompatibility. These properties make quantum dots particularly suitable for multicolor labeling and tracking of long-term biological processes. At the same time, the multicolor detection capability of quantum dots allows the simultaneous detection of multiple components in the same sample, improving the amount and efficiency of detection.



## Product parameter

- Detection principle: quantum dot fluorescence immunoassay
- Detection channel: single channel
- Detection speed: single test <6s
- Sample type: serum, plasma, whole blood, peripheral blood, urine, etc. (please refer to the operating guide for the matching test kit)
- Project storage: >10000 items
- Combo card detection: Support multi-union card, one card multiple
- Screen quality: 7-inch HD capacitive touch screen, resolution 600P
- Battery test: built-in lithium battery continuous test can meet >500 times
- Operating system: Linux
- History storage: >40000 pieces
- Data transmission: U disk export, LIS
- Language interface: Chinese, English, Spanish (other customized languages)
- Print output: built-in thermal printer, external printing software
- Bar code scanning: one-dimensional code, two-dimensional code
- Adapter card type: ID card, QR code
- Instrument size: 300mm×215mm×150mm
- Net weight: 2.2kg

### Stable to test

- The core optical path patent ensures the long-term stability of CV
- Linux deep customization system

### Easy to test

- Automatic test, insert card immediately test
- Automatically match items, no need to repeatedly identify items
- LIS/HIS system and external printer can be connected

### Test fast

- Single test <6s
- Low test noise

### Interactive excellence

- Elaborate human-computer interaction, UI design aesthetics
- Built-in speaker provides voice operation guidance

### Characteristic system

- Helicobacter pylori typing characteristic items
- Gastric cancer scoring system
- VEGF dynamic test system

### Built-in battery

- Ready to use, no burden of power cord
- Automatic standby screen, save power
- More than 500 consecutive tests

