

ELK-ST500

CHEMILUMINESCENCE

IMMUNOASSAY ANALYZER



ELK-ST500

Chemiluminescence Immunoassay Analyzer

ELK-ST500 is a highly-automated mono-test analyzer based on chemiluminescent immunoassay (CLIA) technology. The compact and integrated design combined with highly sensitive CLIA technology makes it an ideal choice for emergency diagnosis or small to medium labs who are looking for high accuracy testing results.

Compact design

- Mono-test reagent strip
- Mini-sized reagent kit
- Bench top analyzer

High efficiency

- Throughput up to 36 T/H
- The first result comes in 11 minutes

Outstanding flexibility

- Reagents are packaged in a single strip
- Ready-to-use
- No limitation of reagent opening stability
- Multi-parameter consecutive testing

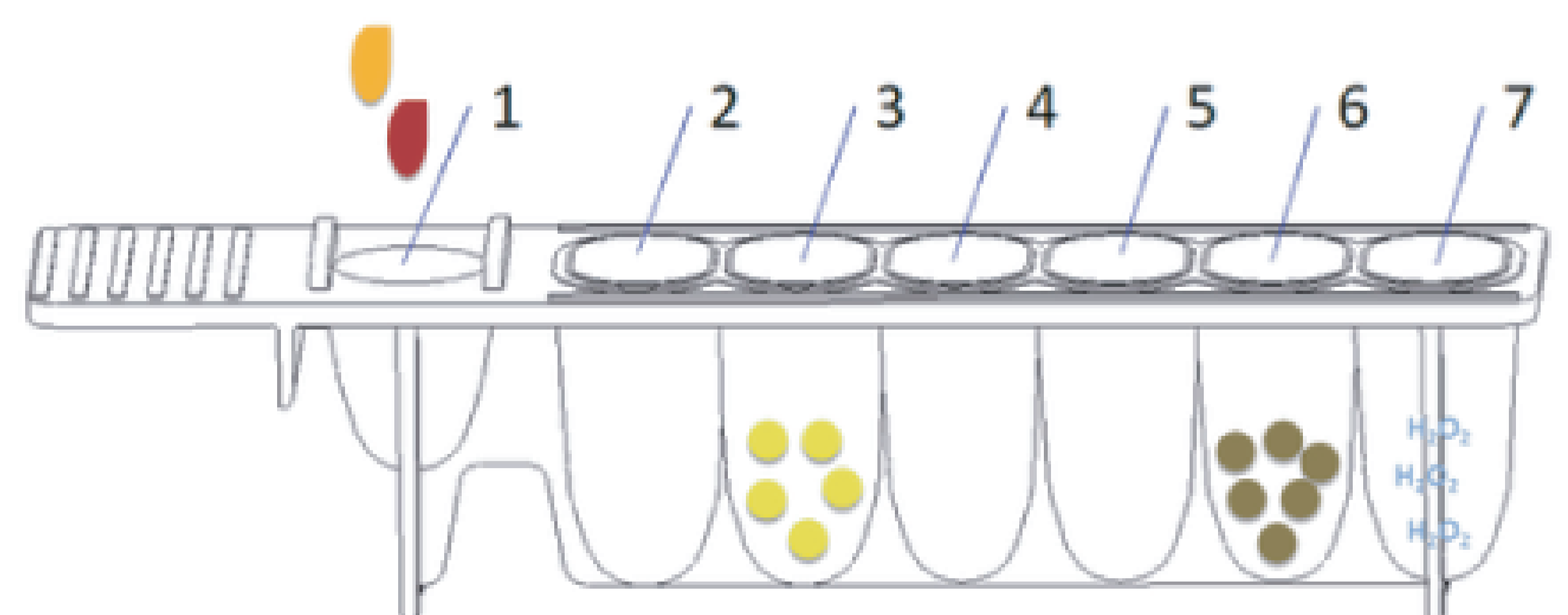
High automation

- Automatic sampling and cuvettes grabbing
- Real-time monitoring the status of consumables
- Supporting bi-direction LIS and USB

Accurate results

- Advanced direct CLIA technology, the sensitivity $< 10^{-18}$
- Anti-contamination washing system
- Non-contact mixing

Mono-test Strip



1. Manual sampling position
3. Acridinium-ester-labeled antigen/antibody conjugate
6. Magnetic particles coated with antigen/antibody
7. Pretrigger solution
- 2,4,5. Components vary among parameters

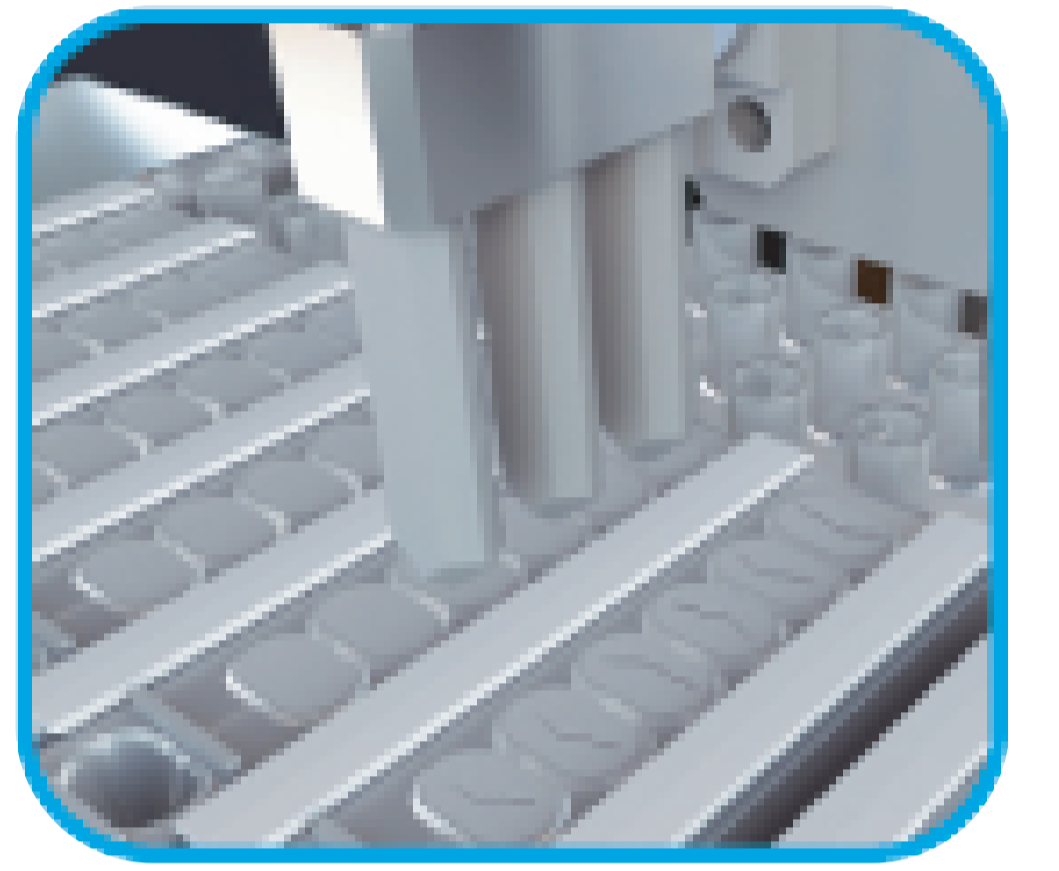


10.1" touch screen

with user-friendly software interface

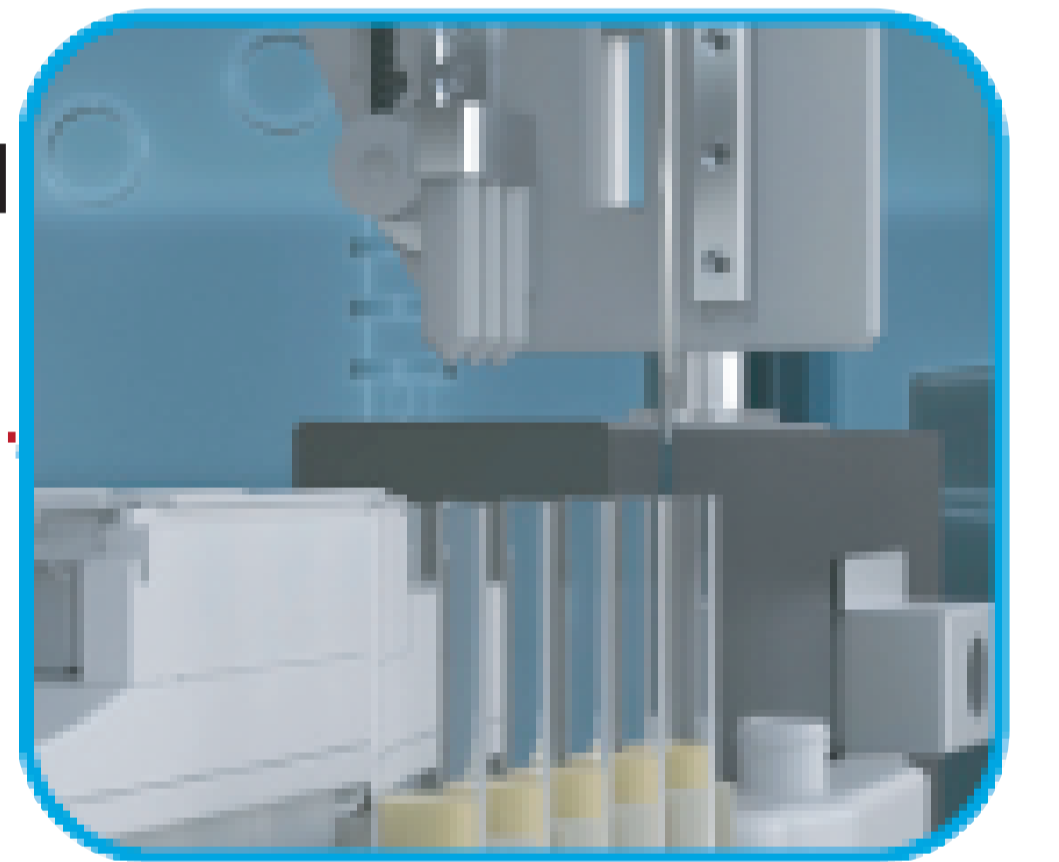
Independent membrane-punching awl

avoids cross-contamination



Automatic sampling & Internal and external high-pressure cleaning

with detecting functions of liquid surface, clots, and air suction



4-step magnetic separation

maximizes wash away interference



Multi-stage temperature control

ensures the reaction temperature to be $37.0 \pm 0.3^\circ\text{C}$



Test Panels

Cardiac Marker

cTnI
hs-cTnI
hs-cTnI II
Myo
Myo II
CK-MB
CK-MB II
D-Dimer
D-Dimer II
NT-proBNP
NT-proBNP II

Growth

hGH
IGF-I
IGFBP-3

Hypertension

*ACTH
*Cortisol

Reproductive Health

E2
LH
FSH
HCG
AMH
SHBG
DHEA-S
Inhibin B
Prolactin
Testosterone
Progesterone

Anemia

Folate
Ferritin
Vitamin B12

Bone Metabolism

25-OH Vitamin D

Autoimmunity

ANA
dsDNA
Anti-CCP
RF
IAA
ICA
GADA
IA-2A
ZnT8A
tTg IgG
tTg IgA
DGP IgG
DGP IgA

Allergy

*Total IgE

Glycometabolism

Insulin
C-peptide

Thyroid

T3
T4
FT3
FT4
TSH
Tg
Anti-Tg
Anti-TPO
Anti-TSHR

Thrombosis

*PIC
*TM
*FDP
*TAT
*T-PAI.C
D-Dimer

Tumor Marker

CEA
AFP
tPSA
fPSA
PG I
PG II
CA 125
CA 15-3
CA 19-9
Gastrin 17

Cerebral Apoplexy

*s100
*Lp-PLA2

Food Safety

Food Safety
*B(a)p
*AFB1
*Capasin

Inflammation

PCT
IL-6
SAA
CRP
*HBP

Torch

*Toxo IgG
*Toxo IgM
*Rubella IgG
*Rubella IgM
*CMV IgG
*CMV IgM
*HSV-1 IgG
*HSV-1 IgM

Liver Health

CHI3L1

Specifications

Model	ELK-ST500
Detection Principle	Acridinium-ester Direct Chemiluminescence
Throughput	36 T/H
Time to first result	11 mins
Auto Sampling Position	5
Sample Types	Serum, Plasma, Whole blood, etc.
Sample Volume	5-150 uL
Reagent Position	6 × 2
Reaction Vessel Capacity	24 × 2
Interface	10.1" build-in touch screen
Incubation Temperature	37.0 ± 0.3°C
Communication Ports	Network port, Com port, Bi-direction LIS
Dimensions	550 mm(W) × 570 mm(D) × 680 mm(H)
Weight	55 kg