HEMO GEN



HEMO GEN i2000

Open Chemiluminescent Solutions for IVD manufacturer



Features

Up to 200 T/H

First result in ⩽ 12 min

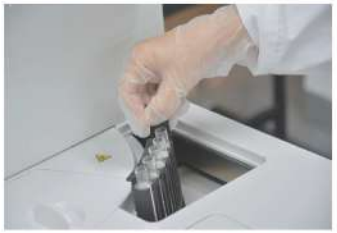
Batch CV ⩽ 3%

Compatible with HRP/AP/AE/ABEI assay protocol

- **Innovative Design**
  - Incubation, washing and detection all-in-one
  - Small size, 1.07 m^3
  - 50+ patented technologies, 100% self-developed
- **User Friendly**
  - RFID scanning, more convenient to load reagents, inner barcode reader for sample
  - IOT cloud platform, product customization
- **Flexible**
  - Flexible design for out shell
  - Same reagents and consumables used across the entire Shine series analyzers
  - Customized design of different reagent disk based on customer cartridges

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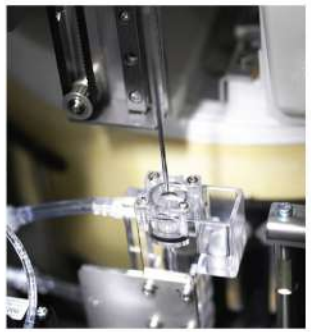
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Sample loading

Total of 60 sample positions.

STAT channel available for emergency samples at any time.



S/R probe

Single steel probe for both sample and reagent to reduce maintenance costs

Patented probe interior and exterior washing design ensuring carryover < 10ppm

With clot, air bubble and liquid level detection

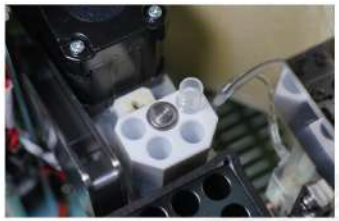




Reagent loading

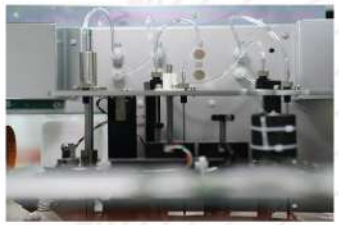
It adopts one-piece disc structure with a total of 25 reagent positions

24 hour uninterrupted refrigeration and holding function, refrigeration temperature of 2~8℃



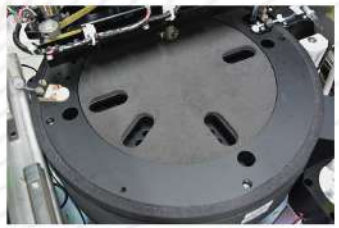
Mixer

High speed non-touch vortex mixing to avoid contamination



Washing

Intelligent magnetic field design to ensure good separation and improve washing efficiency



Reaction

A 120-well incubation module providing a consistent reaction environment



Software design

15-inch color LED touch screen, no mouse and keyboard required

Real-time consumables management to add or replace consumables at any time

Optimized alarm classification to maximize the completion of existing tests



Gripper

The assay cup gripper is composed of a set of manipulators in 3D motion, which can transfer the assay cups to the set work station accurately.

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Technical Specification

●Overview:

Principle:	AE, AP, ABEI,or HRP magnetic particles-based CLIA
Throughput:	Up to 200 T/H
Time to First Result:	⩽ 12 min
Dimension:	1000mm*670mm*640mm
Weight:	129KG

●Reaction:

Incubation:	90 positions
Reaction Temperature:	37±0.3°C

●Sample:

Sample Capacity:	60 positions
Sample Probe:	Single steel probe for both sample& reagent
Probe detection:	Clot, air bubble & liquid level detection
Sample Type:	Serum, plasma, urine, whole blood, CSF and feces
Sample Volume:	5~150μl
Carryover:	⩽5 ppm
Sample Dilution:	1:2~1:40
Barcode:	Code 39; Code 128; Codabar (USS);Interleaved 2/5W
Option:	Inner barcode reader

●Consumables:

Assay Cup Loading:	500 cups, add at any time
Substrate:	2 bottles
Wash Buffer:	10L/container
Solid Waste:	200 cups/container
Liquid Waste:	20 L/container

●Reagent:

Reagent Disk:	25 positions
Refrigeration:	2°C ~ 8°C
Reagent Mixing:	Non-touch rotary mixing for magnetic particles
Reagent Volume:	10~250μl
Option:	RFID Scanning

●Operation Environment:

Operating Temperature:	10~30 °C
Humidity:	⩽ 85% (noncondensing)
Altitude:	⩽ 4000m

●Power Information:

Power Requirements:	100-240V ~ , 50/60Hz
Input Power:	1000VA

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Parameters

Cardiac Markers
CTNI
CTNT
MYO
CK-MB
NT-proBNP
BNP
D-Dimer
LP-PLA2
H-FABP

Hormones
Total-hCGβ
FSH
LH
PRL
P
T
E2
Free Testo
AMH
Free-β-HCG
GH
SHBG
Cortisol
ACTH

Hepatic Fibrosis
PIIINP
CIV
LN
HA

Inflammation
PCT
IL6
SAA
CRP

Intestinal inflammation
Calprotectin

Thyroid
TT3
FT3
TT4
FT4
TSH
rT3
Tg
TGAb
TPOAb

TORCH
Toxo IgG
Toxo IgM
Rubella IgG
Rubella IgM
CMV IgG
CMV IgM
HSV-1 IgG
HSV-1 IgM
HSV-2 IgG
HSV-2 IgM

Diabetes
CP
INS

Infectious Disease
HBsAg
HBsAb
HBeAb
HBeAg
HBcAb
TP
HCV
HIV

Gastric
PGI
PGII
G17

Metabolism
25-OH VD
Folate
VB12
PTH
CT

Tumor Markers
AFP
CEA
total PSA
Free PSA
CA125
CA15-3
CA19-9
CA724
CA50
CA242
HE4
Cyfra211
NSE
ProGRP
SCCA
Fer
PIVKA II

Helicobacter pylori
H. pylori IgG
H. pylori IgM

Coagulation and Fibrinolysis
PIC
TAT
TM
tPAI.C
FDP

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