

Venus 100

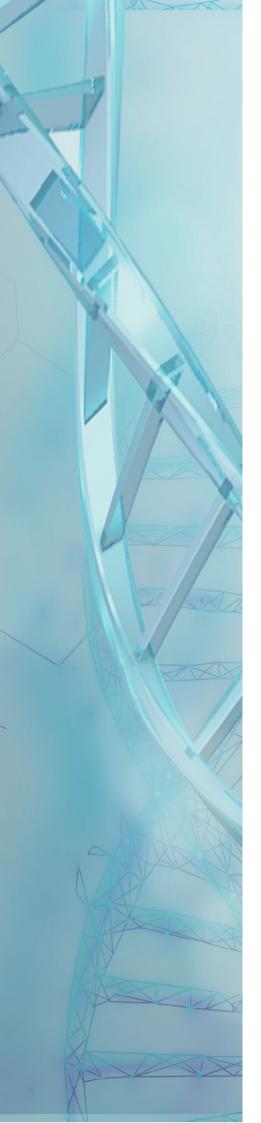
Fully automated chemiluminescence immunoassay analyzer

Registration Certificate No: 渝械注准 20222220226、20222220227



Small and exquisite breaks through the limitation of space

fully automated | consistently smart | highly customizable | super cost-effective





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Venus 100 Series Small-sized Fully Automated Chemiluminescence Immunoassay Analyzer

Venus 100 Fully Automated Chemiluminescence

Immunoassay Analyzer——150T/H

which makes use of an open magnetic particle-based chemiluminescence detection platform, compatible with various reagents. It is compact yet comprehensive, fully automated, highly intelligent, flexible and precise, meeting the diverse application scenarios of research centers, testing laboratories, and clinical departments

Reaction vessels 200

Reagent positions
15

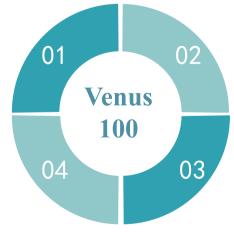
Sample positions 40

Automated

Automated RV alignment, ragent barcode reading, sample barcode reading, maintenance before shut down, sample pipetting



Customizable assay process, structure, software functions, which meet various assay process demands



Stable

Friendly visual interface, intelligent algorithm, any-time STAT assay, real-time monitoring of instrument states, automatic failure recovery

Reliable

Low failure rate, precise diameter-variable pipettor, improved dispensing accuracy, high-pressure flush of the internal and external of the pipettor to reduce carryover

Instrument Specifications

Small and exquisite, breaks through the limitation of space

Designed to be placed on the workbench, flexible and convenient for operations, suitable for application scenarios like clinical departments

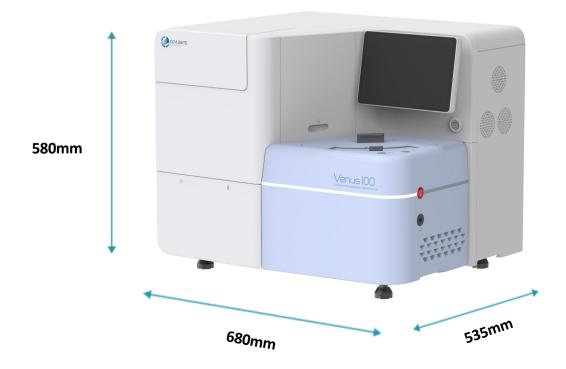
Comprehensive functions, user friendly

Supports STAT assays, automatic sample dilution, RV replenishment without an interruption in system operation

high reliability|high-precision|high throughput

Floor efficiency ratio: 329.8T/m³

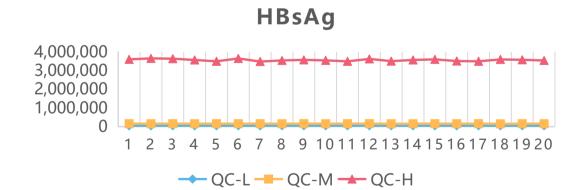
Dimensions: 680mm**535mm*580mm

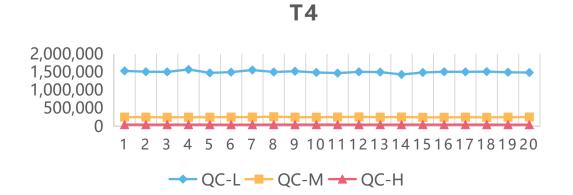


Instrument Specifications

High precision: multiple assays, CV<3%

Assay		HBsAg			T4	
Sample	QC-L	QC-M	QC-H	QC-L	QC-M	QC-H
1	32,160	146,150	3,592,118	1,531,684	257,389	48,964
2	31,931	145,023	3,642,447	1,508,973	255,466	47,926
3	33,051	144,624	3,627,949	1,503,933	250,606	48,187
4	31,983	142,050	3,558,359	1,570,790	254,819	48,718
5	32,274	146,178	3,487,209	1,476,947	253,433	47,468
16	33,341	143,268	3,500,383	1,508,425	250,366	48,434
17	32,831	145,198	3,487,557	1,505,427	254,198	48,665
18	33,133	136,377	3,587,014	1,511,734	250,122	47,856
19	33,043	145,869	3,568,147	1,493,548	255,641	47,881
20	31,949	142,385	3,531,768	1,486,852	259,053	47,285
CV	1.54%	1.65%	1.53%	1.94%	1.69%	1.54%



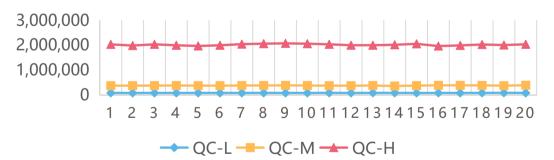


Instrument Specifications

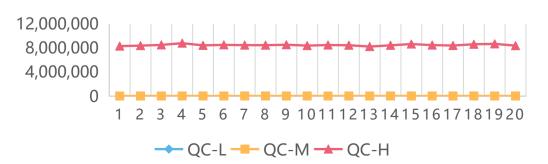
Different reagents for the same assay: CV<3%

Assay	dsDNA - reagent 1		dsDNA - reagent 2			
Sample	QC-L	QC-M	QC-H	QC-L	QC-M	QC-H
1	78,351	372,030	1,983,993	53,185	72,708	8,406,655
2	78,790	374,021	2,032,160	52,628	71,126	8,522,600
3	78,470	378,953	1,994,097	54,288	72,798	8,812,575
4	78,979	372,719	1,966,827	52,025	74,479	8,445,295
5	79,077	372,603	2,029,750	51,403	71,397	8,322,205
			•••			
16	79,696	385,129	1,962,965	54,627	73,026	8,489,465
17	77,532	384,295	1,988,758	54,853	71,857	8,424,860
18	79,912	382,961	2,026,092	51,269	73,507	8,629,820
19	83,200	371,289	2,004,278	53,426	72,774	8,697,515
20	79,101	389,379	2,033,112	52,085	72,861	8,401,325
CV	1.96%	1.87%	1.55%	1.92%	1.72%	1.52%

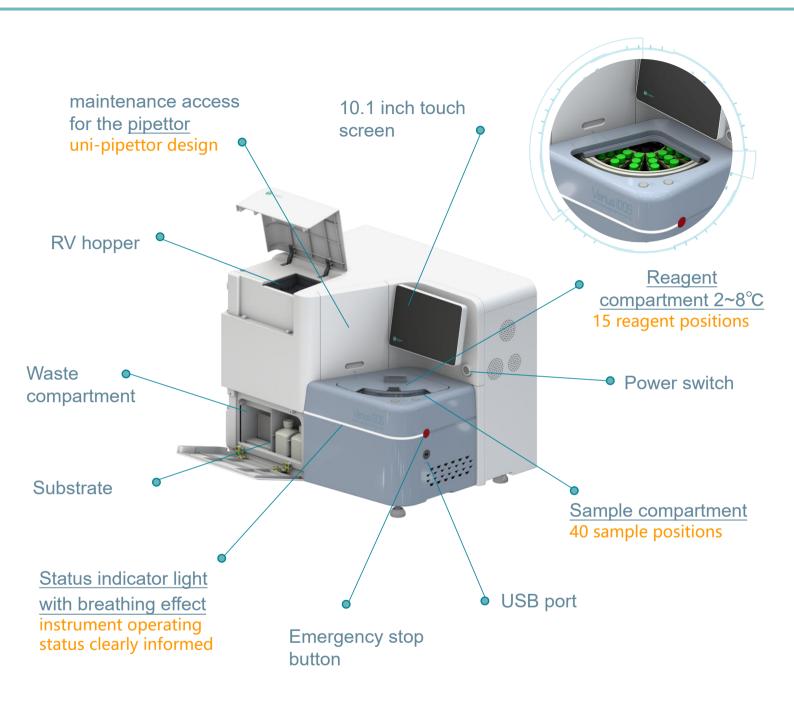
dsDNA - REAGENT 1

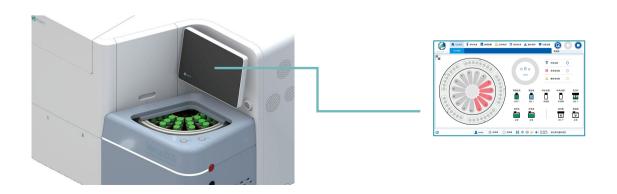


dsDNA - REAGENT 2



Functional Modules





Functional Modules



Automatic RV alignment replenishment of 200 at maximum without an interruption in system operation

Stable operation, low failure rate stable CV%, high accuracy



15 reagent positions, supports 4component reagents, with refrigeration function, customization available

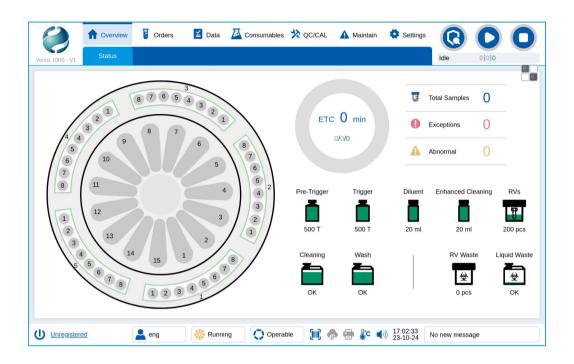
Effective pipettor cleaning and accurate reagent aspiration



Instrument Parameters

Series	Venus 100
Detection Principle	Open platform, supporting magnetic particle AE/AP/HRP detection principles
Throughput	150T/H
Sample Positions	40 sample positions, supports automatic dilutiion
Reagent Positions	15 reagent positions, supports 4- component reagents, with refrigeration function, customization available
Reaction Vessels	Automatic alignment, replenishment of 200 at maximum without an interruption in system operation
Walk-away Time	>2h
Precision	CV≤3%
Carryover	<1ppm
Smart System	Supports automatic barcode reading Liquid level detection, anti-collision, clots detection aspiration failure alert for pipettor probe Supports interior and exterior cleaning of pipettor probe with purified water, cleaning solution or enhanced cleaning solution Arranges RVs automatically. Supports RV replenishment without an interruption in system operation
LIS Server	Unidirectional, Bidirectional
Operation Screen	15.6-inch touch screen. User friendly. Suitable for all kinds of application scenarios
Dimensions	680*535*580 (mm)

Software Operations



Overview

user friendly/real-time monitoring of assay tests/real-time monitoring of reagents and consumables/smart alert/ multi-language support

Standard Accessories



Reagent racks



Reaction vessels



Suottles



Sample racks



REAGENT MENU

Tum	or	iviai	Ker
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CYFRA21-1 NSE **AFP** CEA CA125 **SCCA** CA15-3 CA19-9 CA72-4 HE4 PIVKA II **ProGRP** CA50 CA242

Cardiac Marker

LN

PAP

HER-2

hs-cTnI NT-proBNP **BNP** CK-MB MYO LP-PLA2 H-FABP cTnI **CRP HCY**

Bone Metabolism

PTH CT 25-OH VD **B-CTx**

Hepatic fibrosis

CG

Neurological

total P1NP

S100

Tang screening

PAPP-A

Glyco Metabolism

C-P INS Anti-IA2 IgG GAD Ab IAA Anemia **VB12** FΑ Ferr **EPO**

Inflammation

Monitoring

PCT

SAA IL-6 TNF-α **Fertility FSH** E2 **AMH PROG B-HCG TESTO** LH PRL SHBG 17α -OHP

DHEA-S Free Testo

FE3

Androstenedione

Kidney Marker

Cortisol β2-MG H-ALB

Growth hormone

IGF- Ī IGFBP-3

Endocrine hormone

GH **ACTH**

Stomach Marker

PG I PG II G17 H.pylori IgG

Coagulation

D-Dimer **FDP** PIC TAT TM tPAI.C

Infectious Diseases

Anti-TP HIV Ag/Ab* HCV Ab* TP Ab* HBSAg* HBsAb* HBeAg* HBeAb* HBcAb*

Drug monitoring

CSA FK506 Digoxin

Liver Marker

PIIINP CIV HA

Thyroid

FT4 FT3 **TSH** TT3 TT4 TG **TGAb TPOAb** rT3 T3

T-Uptake

Autoimmunity

Anti-Sm IgG Anti-Jo-1 IgG Anti-SS-B IgG Anti-SS-A/Ro IgG Anti-M2 IgG Anti-Rib P IgG Anti-Scl-70 IgG Anti-β2-GP1 IgG

Sm/RNP、Sm、SS-A/Ro、 SS-B、Jo-1、Scl-70 Anti-MPO IgG

ACA IgG

Anti-Histones IgG

aCL IgM

ANA

Anti-dsDNA IgG

Anti-CCP **EB** virus **EBV VCA IgM** EBV EA IgA EBV NA IgG

Hypertension

Renin ALD ΑII ΑI

Respiratory tract

infection

(2019—nCoV) IgG

MP IgM

Immunoglobulin

IgG **IgM IgE**

Eugenics and nurturing

HSV-2 IgM HSV-1/2 IgM