

**YHLO**



**iFlash 1800**  
**Chemiluminescence**  
**Immunoassay Analyzer**  
Consolidation for Automation

# iFlash 1800

## Chemiluminescence Immunoassay Analyzer

Consolidation for Automation

iFlash 1800 is a bench-top solution tailored for clinical labs. With less outsourced samples, improved in-house controlled quality and higher throughput, iFlash 1800 has achieved better efficiency and reliability.



### A CLIA system with better efficiency compared to its peers

- Compact design with 180 tests per hour maximum throughput, delivers more sample results per square meter.
- 1000 reaction vessels on-board, 50 sample positions and 20 reagent positions, ensure less restocking cycles.
- Continuous loading of samples, reagents and consumables provides less interruption of analytical phase.
- Reflex, auto dilution and auto rerun function can save time for lab technicians.

Reaction vessel loading container simplifies vessel loading process and reduces manual handling time.



Special RV array design allows for accurate reaction vessel placement and avoids potential blockage.



Independent reaction vessel gripper guarantees precise vessel handling.



High-capacity reagent carousel provides longer onboard reagent stability.



Non-contact vortex mixer design avoids liquid touching and eliminates the chance of cross contamination.



## Reliable and consistent performance via state-of-art design

We paid attention to every detail when designing the iFlash 1800 analyzers and its reagents. We are dedicated to produce a reliable immunoassay system to the labs.



## Consolidating various workstation on a CLIA platform for differential diagnosis

iFlash 1800 delivers unmatched, innovative and comprehensive product assortment for quick clinical diagnosis, including reproductive health, autoimmunity, diabetes, infectious diseases and other routine parameters.

- Comprehensive panel of 112 parameters: less analyzer, less sample splitting and better quality control within the lab.
- Unique parameters on CLIA platform ensures less outsourcing and consolidated results output.

# iFlash Test Panels

## Main Stream Hormonology

### Thyroid

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

### Tumor Markers

PG I  
PG II  
AFP  
CEA  
CA 125  
CA 15-3  
CA 19-9  
Free PSA  
Total PSA  
CYFRA 21-1  
NSE

### Anemia

Ferritin  
Folate  
Vitamin B12

### Cardiac Markers

CK-MB  
Myoglobin  
Troponin-I  
BNP

### Bone Metabolism

25-OH Vitamin D  
PTH

### Metabolism

Insulin  
C-Peptide  
Cortisol  
ACTH  
Adiponectin

### Liver Fibrosis

HA  
PIIIPN-P  
Col IV  
Laminin

## Reproductive Health

### Fertility

AMH  
Inhibin B  
Inhibin A  
LH  
FSH  
HCG  
Prolactin  
DHEA-S  
Unconjugated Estriol  
E2  
PAPP-A  
free  $\beta$  HCG  
Progesterone  
Testosterone

### ToRCH

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

### Anti-Phospholipid Syndrome

Anti-Cardiolipin  
Cardiolipin IgM  
Cardiolipin IgG  
Cardiolipin IgA  
Anti- $\beta$  2-Glycoprotein I  
 $\beta$  2-Glycoprotein I IgM  
 $\beta$  2-Glycoprotein I IgG  
 $\beta$  2-Glycoprotein I IgA

\* Without CE

## Autoimmunity

### Rheumatoid Arthritis

Anti-CCP  
RF IgG  
RF IgM  
RF  
RA33 IgG

### Connective Tissue Disease

ANA  
dsDNA IgG  
Sm IgG  
SS-A IgG  
SS-B IgG  
Scl-70 IgG  
Jo-1 IgG  
RNP70 IgG

### Autoimmune Liver

SMA IgG  
AMA-M2

### Vasculitis Diagnostics

PR3 IgG  
GBM IgG  
MPO IgG

### Autoimmune Diabetes

IA-2A  
IAA  
GADA  
ICA  
ZnT8A

## Infection

### EBV

EB VCA IgG  
EB VCA IgM  
EB VCA IgA  
EB EA IgM  
EB NA IgG  
EB NA IgA

### Respiratory Disease

Mycoplasma pn. IgG  
Mycoplasma pn. IgM  
Chlamydia pn. IgG  
Chlamydia pn. IgM

### Blood Bank

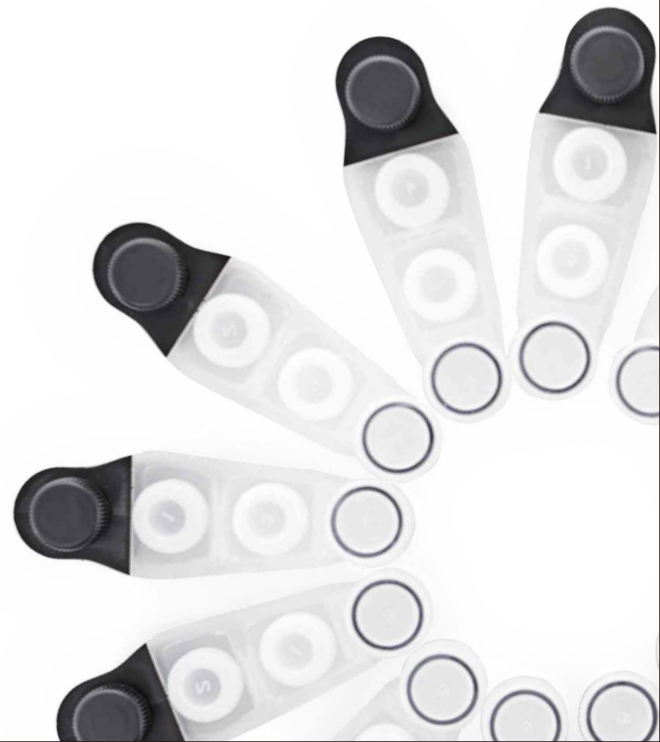
Anti-TP  
Anti-HCV \*  
HBsAg \*  
Anti-HBs \*  
HBeAg \*  
Anti-HBe \*  
Anti-HBc \*  
HIV Combo \*

### Inflammation

PCT

### Novel Coronavirus

SARS-CoV-2 IgM  
SARS-CoV-2 IgG



# Specifications

## General Information

Throughput	Up to 180 tests/hour
Fastest time to first result	12 minutes
Detection principle	Magnetic particle-based direct chemiluminescence
Chemiluminescence label	Acridinium Ester

## Sample Supply System

Sample position	5 samples per rack, 50 sample positions with STAT function
Sample volume	5~150 $\mu$ L
Reaction vessels loader capacity	1000 reaction vessels reserve for continuous loading

## Reagent System

Reagent position	20 positions with onboard refrigeration
Reagent carousel temperature	2-8°C
Reagent detection	Reagent level tracking
Reagent pack	2×50 tests per kit
Auto dilution	Maximum of 1:400

## Reaction Carousel

Capacity	75 reaction vessels
Incubation temperature	37.0°C $\pm$ 0.3°C, with a fluctuation of 0.1°C
Mixing system	Non-contact eccentric vortex mixer

## Magnetic Separation System

Washing method	4-step magnetic separation
Temperature	37.0°C $\pm$ 0.3°C, with a fluctuation of 0.1°C

## Operating Conditions

Power supply	100~240 V, 50/60 Hz
Power consumption	1000 VA
Temperature	10~30°C
Ambient humidity	20%-70% RH
Physical dimensions	1030 mm (L) $\times$ 750 mm (W) $\times$ 710 mm (H)
Weight	150 kg

Local Distributor:

P/N: ENG-C003-202003



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