

FIA POCT

Fluorescence Immunoassay Series

Four instrument formats for different testing volumes and workflow needs.



YD-F10

Handheld

5 μ L minimum sample volume · 0.2 kg

Rechargeable power for portable testing.



YD-F100

Portable benchtop

8-inch touchscreen · 2.8 kg

Wi-Fi, reagent QR scanning and built-in battery.



YD-F1600

Multichannel benchtop

16 channels · up to 200 tests/hour

Simultaneous testing with automatic card return.



YD-F6000

Fully automated

30 sample positions · up to 170 tests/hour

Automated preparation, incubation and reading.

SERIES COMPARISON

Choose the workflow that fits

	YD-F10	YD-F100	YD-F1600	YD-F6000
Format	Handheld	Portable benchtop	Multichannel benchtop	Fully automated
Testing / speed	3–15 min to result	Routine: 3 min/test; fastest reading: 3 sec/test	Up to 200 tests/hour	Up to 170 tests/hour
Capacity	Individual test-card reading	Individual test-card reading	16 test channels	30 sample positions; 5 reagent positions; 16 incubation channels
Display	240 × 320 pixels	8-inch LCD touchscreen	15-inch color touchscreen	12.1-inch color touchscreen
Identification	QR scanning before each test-item change	Reagent QR scanning	Automatic test-item identification	Automatic sample scanning; IC-chip slot
Data / connection	WeChat mini program or PC software	Wi-Fi / wireless transmission; LIS; up to 100,000 reports	LIS connection	Bidirectional LIS; traceable stored results
Printing	Via mini program or PC software	Built-in thermal / external printer	Built-in thermal printer	Built-in thermal / external printer
Power	2,000 mAh rechargeable lithium battery	100–240 VAC input; DC 12 V, 2 A; 8,400 mAh battery	AC 210–240 V, 50/60 Hz	AC 220 V, 50 Hz
Weight	0.2 kg, including battery	2.8 kg	27 kg	85 kg
Operating conditions	10–35 °C; RH <80%	15–30 °C; RH 20–80%	10–30 °C; RH 20–80%	10–30 °C; RH ≤70%

Reading speed, reaction time and hourly throughput describe different operating conditions. Actual turnaround depends on the assay and loading workflow.

Assay-specific configurations

YD-F10 uses a dedicated reagent configuration. Confirm the matched reagent, calibration data and instrument compatibility for each model.

YD-F6000 / AUTOMATED WORKFLOW

From sample to reported result

01	02	03	04
Load	Select	Run	Review
Place sample tubes, reagent cartridges and consumables.	Choose tests; assign urgent-sample priority during the run.	Automatic preparation, incubation and fluorescence reading.	Review results, print and transmit to LIS.
Flexible sample loading	Stable incubation	Simple maintenance	
Standard 3 mL and 5 mL tubes, plus capillary-blood tubes with matched fixtures. Automatic sample scanning.	25 ±0.5 °C temperature control and dehumidification support a consistent reaction environment.	Disposable tips and a design without permanent liquid lines simplify routine upkeep.	
Emergency priority			
Prioritize urgent samples during a run without reserving a dedicated STAT position.			

Deep-well preparation



2.2 mL, 96-well round-bottom plate



Disposable pipette tips

01 Buffer	02 Sample	03 Mix	04 Transfer
Dispense buffer into a deep well.	Add sample into the same well.	Mix the sample and buffer.	Dispense the mixture into the test-card sample port.

Per test: 2 tips (buffer + sample) and 1 deep-well position.

Sample-tube and reagent specifications are assay-dependent. Follow the selected reagent instructions and approved instrument workflow.

FIA POCT SERIES / REAGENT PORTFOLIO

POCT reagent specifications

Product Name	Sample Volume (μL)	Dilution Volume (μL)	Sample Type	Reaction Time (min)	Detection Range	CUT-OFF Value	Certification
CRP	10μLWB/FTB 5μL S/P	75μL	WB/FTB/S/P	3	0.5-200mg/L	hsCRP<1mg/L CRP<10mg/L	CE
PCT	100μL	75μL	WB/S/P	12	0.25-100 ng/mL	< 0.5ng/mL	CE
SAA	10μLWB/FTB 5μL S/P	75μL	WB/FTB/S/P	3	3-200 mg/L	<10 mg/L	CE
CRP/SAA	10μLWB/FTB 5μL S/P	75μL	WB/FTB/S/P	3	CRP: 0.5-200mg/L SAA: 3-200mg/L	CRP<10mg/L SAA<10mg/L	CE
HBP	75μL	75μL	P	12	6-300ng/mL	< 12.0ng/mL	CE
CCP	20μL WB 10μL S/P	75μL	WB/S/P	10	5-640RU/mL	Refer to User Manual	CE
RF/ASO/CRP	10μL	75μL	S	10	RF: 10-120 IU/mL ASO: 30-600 IU/mL CRP: 1-100 mg/L	RF<20IU/mL ASO<200IU/mL CRP<10 mg/L	CE
RF	10μL	75μL	WB/S/P	10	RF: 10-120 IU/mL	RF<20 IU/mL	CE
ASO	10μL	75μL	WB/S/P	10	ASO: 30-600 IU/mL	ASO<200 IU/mL	CE
IL-6	75μL	75μL	WB/S/P	12	3-4000 pg/mL	< 7 pg/mL	CE
PCT/IL-6	75μL	75μL	WB/S/P	12	PCT: 0.06-100 ng/mL IL-6: 3.5-4000 pg/mL	PCT<0.1ng/mL IL-6<7pg/mL	CE
cTnI	75μL	75μL	WB/S/P	12	0.05-50ng/mL	<0.1ng/mL	CE
CK-MB	75μL	75μL	WB/S/P	12	0.3-100 ng/mL	<6ng/mL	CE
Myo	75μL	75μL	WB/S/P	12	5-1000ng/mL	<100ng/mL	CE
D-D	100μL WB 75μL P	75μL	WB/P	5	0.05-10mg/L	<0.5mg/L	CE
NT-proBNP	150μL WB 100μL S/P	75μL	WB/S/P	12	100-45000pg/mL	<75years old, <300pg/mL; ≥75years old, <450pg/mL	CE
H-FABP	75μL	75μL	S/P	12	2-150ng/mL	< 7 ng/mL	CE
cTnI/CK-MB/Myo	75μL	75μL	WB/S/P	15	cTnI: 0.05-50ng/mL CK-MB: 1-100ng/mL Myo: 5-600 ng/mL	cTnI: <0.1 ng/mL CK-MB: <6ng/mL Myo: <100ng/mL	CE
cTnI/NT-proBNP/D-D	100μL	100μL	WB/P	15	cTnI: 0.1-50 ng/mL NT-proBNP: 100-45000pg/mL D-D: 0.05-10mg/L	Refer to User Manual	CE
ST2	75μL	75μL	WB/S/P	12	3-200ng/mL	≤35ng/mL	CE
NT-proBNP/ST2	75μL	75μL	WB/S/P	12	NT-proBNP: 100-45000pg/mL ST2: 3-200ng/mL	Refer to User Manual	CE
Lp-PLA2	75μL	75μL	WB/S/P	5	10-800 ng/mL	<175ng/mL	CE
cTnT	75μL	75μL	WB/S/P	12	0.03-10ng/mL	<0.1ng/mL	CE
BNP	75μL	75μL	WB/P	12	5-5000pg/mL	<100pg/mL	CE
hs-cTnI	75μL	75μL	WB/S/P	10	12.2-50000 ng/L	male: < 45 ng/L female: < 35 ng/L	CE
CPP	75μL	75μL	WB/S/P	12	31.25- 2000pg/mL	< 70 pg/mL	CE
GDF-15	75μL	75μL	WB/S/P	12	400-20000pg/mL	Refer to User Manual	CE
AFP	75μL	75μL	S/P	12	5-1000ng/mL	<20ng/mL	CE
t-PSA	100μL	100μL	WB/S/P	12	2-100ng/mL	<4ng/mL	CE
CEA	75μL	75μL	S/P	12	2.5-600 ng/mL	<5ng/mL	CE
PG I	75μL	75μL	S	12	10-300 ng/mL	70-200ng/mL	CE
PG II	75μL	75μL	S	12	5-100 ng/mL	<15 ng/mL	CE
FOB	6 fresh fecal positions	2-3drops (70μL-100μL)	Fecal	10	50-1200ng/mL	<100 ng/mL(20μg/g feces)	CE
S100β	100μL	100μL	WB/S/P	15	0.05-10ng/mL	<0.2ng/mL	CE
VEGF	100μL	100μL	WB/S/P	15	50-3200pg/mL	< 160 pg/mL	CE
G-17	75μL	75μL	WB/S/P	12	0.5-320 pmol/L	1-7pmol/L	CE
PGI+PGII	75μL	75μL	S	12	PGI: 10-300 ng/mL PGII: 5-100 ng/mL	PGI: 70-200 ng/mL PGII: <15 ng/mL	CE
CA125	75μL	75μL	WB/S/P	12	10-2000U/mL	<35 U/mL	CE

Portfolio reference. Confirm matched reagents, model compatibility and registration documents assay by assay.

FIA POCT SERIES / REAGENT PORTFOLIO

POCT reagent specifications

Product Name	Sample Volume (μL)	Dilution Volume (μL)	Sample Type	Reaction Time (min)	Detection Range	CUT-OFF Value	Certification
CA15-3	10μL	75μL	WB/S/P	12	5-300U/mL	<26.2 U/mL	CE
CA19-9	75μL	75μL	WB/S/P	12	8-1000U/mL	<27 U/mL	CE
Cys C	10μL	75μL	S/P	10	0.2-10mg/L	<1.2mg/L	CE
β2-MG	5μL	75μL	S/P	10	0.1-18mg/L	1-3mg/L	CE
NGAL	10μL	75μL	S	10	10-3000ng/mL	<150ng/mL	CE
MAU	5μL	75μL	U	5	2-300mg/L	<20mg/L	CE
HbA1C	5μL	75μL	WB	6	4.0-15.0%	4-6%	CE
ADPN	10μL	75μL	WB/S/P	10	2.0-40μg/mL	2.6-12.5μg/mL	
MP IgM	10μL S/P 20μL WB	75μL	WB/S/P	10	5-160RU/mL	Refer to User Manual	CE
MP IgG	10μL S/P 20μL WB	75μL	WB/S/P	10	5-160RU/mL	Refer to User Manual	CE
Cpn IgM	10μL S/P 20μL WB	75μL	WB/S/P	10	5-160RU/mL	Refer to User Manual	
SARS-CoV-2	75μL	100μL	WB/S/P	15	QUALITATIVE	Refer to User Manual	CE
Cpn IgG	10μL S/P 20μL WB	75μL	WB/S/P	10	5-160RU/mL	Refer to User Manual	
MP	-	3-4 drops (100μL)	Oropharyngeal Swab	15	QUALITATIVE	Negative: result < 1.0 Positive: result ≥ 1.0	CE
Cpn	-	3-4 drops (100μL)	Oropharyngeal Swab	15	QUALITATIVE	Negative: result < 1.0 Positive: result ≥ 1.0	
Adv	-	3-4 drops (100μL)	Nasopharyngeal Swab	10	QUALITATIVE	Negative: result < 1.0 Positive: result ≥ 1.0	CE
RSV	-	3-4 drops (100μL)	Nasopharyngeal Swab	10	QUALITATIVE	Negative: result < 1.0 Positive: result ≥ 1.0	CE
Strep A	-	3-4 drops (100μL)	Oropharyngeal Swab	10	QUALITATIVE	Negative: result < 1.0 Positive: result ≥ 1.0	CE
Influenza A+B	-	3-4 drops (100μL)	Nasopharyngeal Swab	10	QUALITATIVE	Negative: result < 1.0 Positive: result ≥ 1.0	CE
H.Pylori Ab	75μL	100μL	WB/S/P	15	Urease: 10-320RU/mL VacA: 5-80RU/mL CagA: 7.5-120RU/mL	Urease: <20.0RU/mL VacA: <10.0RU/mL CagA: <15.0RU/mL	CE
Dengue NS1	75μL	75μL	WB/S/P	12	QUALITATIVE	Negative: result < 1.0 Positive: result ≥ 1.0	CE
Dengue IgM/IgG	75μL	75μL	WB/S/P	12	QUALITATIVE	Refer to User Manual	CE
HBsAb	100μL	100μL	WB/S/P	15	10 mIU/mL-1000 mIU/mL	<10 mIU/mL	
Total β-HCG	100μL	100μL	S	15	25-10000mIU/mL	<25mIU/mL	CE
T3	75μL	75μL	S	thoroughly mix for 5 minutes 15minutes	0.61-9.22 nmol/L	1.23-3.07nmol/L	CE
T4	75μL	75μL	S	thoroughly mix for 5 minutes 15minutes	12.87-310 nmol/L	66-181 nmol/L	CE
TSH	75μL	75μL	S	15	0.1-100 mIU/L	0.3-4.2mIU/L	CE
FT4	75μL	75μL	S	thoroughly mix for 1 minute 15minutes	6.0-120 pmol/L	12-22 pmol/L	CE
FT3	75μL	75μL	S	thoroughly mix for 1 minute 15minutes	2.0-50 pmol/L	3.1-7.0 pmol/L	CE
FSH	75μL	75μL	WB/S/P	15	1~150mIU/mL	Refer to User Manual	CE
LH	75μL	75μL	WB/S/P	15	1-150mIU/mL	Refer to User Manual	CE
HCG	60μL	75μL	S	15	10-200000mIU/mL	<10mIU/mL	CE
AMH	75μL	75μL	WB/S/P	12	0.1-16ng/mL	Refer to User Manual	CE
Prog	75μL	75μL	WB/S/P	15	1-60ng/mL	Refer to User Manual	CE
Testo	75μL	75μL	WB/S/P	15	0.1-15ng/mL	Adult male: 1.5-10ng/mL Adult female: 0.1-0.8ng/mL	CE
IGF-1	10μL	75μL	WB/S/P	15	20.0 ng/mL-1600.0ng/mL	Refer to User Manual	
IGFBP-3	10μL	75μL	WB/S/P	15	0.30 μg/mL-16.00 μg/mL	Refer to User Manual	
E2	75μL	75μL	WB/S/P	15	20 pg/mL~3000 pg/mL	Refer to User Manual	CE

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POCT reagent specifications

Product Name	Sample Volume (μL)	Dilution Volume (μL)	Sample Type	Reaction Time (min)	Detection Range	CUT-OFF Value	Certification
PRL	75μL	75μL	WB/S/P	15	1-200ng/mL	Refer to User Manual	CE
25-OH-D	10μL	100μL	WB/S/P	15	5-70ng/mL	≥30ng/mL	CE
Ferr	10μL	100μL	WB/S/P	15	5-500ng/mL	Male: 30-400ng/mL Female: 15-150ng/mL	CE
FA	10μL	100μL	WB/S/P	15	1.5-20ng/mL	4.9-19.1ng/mL	CE
VB12	100μL	100μL	WB/S/P	15	150-1500pg/mL	240-800pg/mL	CE
HB+TF	6 fresh fecal positions	2-3 drops	Fecal	15	HB: 50-1200ng/mL TF: 20-1200ng/mL	HB: <100ng/mL TF: <40ng/mL (8ug/g feces)	CE
tIgE	10μL	75μL	WB/S/P	10	2-1000 IU/mL	Refer to User Manual	

Reagent handling

Use matched reagent configurations and follow each assay's instructions for sample type, preparation and reaction time. Reagent portfolio entries do not establish compatibility with every analyzer.

Store and reseal correctly

Follow the assay-specific storage and open-pack shelf life. Reseal the foil pouch promptly after taking out cartridges and retain the desiccant.

Match reagent supply to daily workload

Reagents are supplied in 25-test packs. Plan supply against the daily workload so opened reagents can be used within the assay-specific period.

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