CE IVD

## Jet-iStar 800 Analyzer Instructions for use (Model: Jet-iStar 800)

Joinstar Biomedical Technology Co., Ltd.

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## **Chapter I. Information for Operation**

Thank you for selecting the fluorescent immunoassay analyzer of Joinstar Biomedical Technology Co., Ltd. This product is a fluorescent immunoassay system based on the photoelectric testing principle, and the operation of which needs to have special-purpose fluorescent immunoreagents for supporting. This analyzer is high in testing accuracy, excellent in stability, fast in testing speed and low in costs. Its application in multiple fields such as disease detection, healthcare, epidemic monitoring, food inspection and quarantining is wide.

The present Operation Instructions apply to Model Jet-iStar800 series. The specifics are subject to the actual interface operation.

The present Operation Instructions describes in detail the product characteristics and related information. The illustrated operating steps are convenient for use by you. Before using this analyzer, please read the present Operation Instructions in detail.

#### **1.1 Introduction of the analyzer**

#### 1 Model number/specification: Jet-iStar800

**2** Basic dimensions: 280\*240\*130 (length x width x height, unit: mm);

#### **1.2** Scope of application

The fluorescent immunoassay analyzer needs to have a series of supporting fluorescent immunoreagent cards for common use. It is only available for medical laboratory test professional to do in vitro diagnostic experiments. It can be applied in the central laboratories, outpatient/emergency test laboratories, clinic sections and other medical service points (such as community medical points), physical examination centers, etc. of medical institutions, and also applied to scientific research laboratories.

## Chapter II. System assemblies and main structure

After unpacking, please check according to the following standard configuration list for any missing or damaged assembly.

Note: When finding any missing or damaged assembly, please contact with Joinstar Biomedical Technology Co., Ltd. and your local sales representative. For contact details, please refer to Chapter X. of the Operation Instructions.

#### 2.1 Standard configuration list of analyzer

S/N	Name	Qty.	Unit
1	Fluorescent immunoassay analyzer	1	Set
2	Power supply adapter	1	Set
3	Printing paper	1	Roll
4	Program disc	1	Piece
5	Data cable	1	Piece
6	Scanner	1	Set

#### 2.2 Main structure

Note: The appearance of the analyzer and its accessories is subject to the physical object.



(Figure I) Front side structure of analyzer

#### **Back side structure**



(Figure II. Back side of analyzer)

Power supply adapter



(Figure III) Power supply adapter

#### Scanner



Barcode and QR code (on the package of the reagents)



Explanation to product symbols

Number	Symbol	Explanation
1	$\wedge$	Attention, refer to the attached text
2	IVD	Vitro diagnosing apparatus
3		Biological risk

# Chapter III. Basic parameters and operating conditions of analyzer

### 3.1 Basic parameters of analyzer

Interface RS232, USB, network interface

Printing Built-in thermal printer

Power AC100~240V,50/60Hz,48VA

Repeatability CV≤10%

Stability σ≤10% Accuracy Δn ≤10% Linearity r≥0.99 Measuring range 1000 times

#### 3.2.1 Transportation and storage conditions of analyzer

After packaging, it should be stored in a well-ventilated environment free from condensation, corrosive gas and at -40°C  $\sim$  55°C, RH  $\leq$  93% and an atmospheric pressure (86~106) kPa.

Take care to prevent moisture, impact and strong vibration in transit.

#### 3.2.2 Normal working condition of analyzer

- 1) Ambient temperature range:  $5^{\circ}C-40^{\circ}C$ ;
- 2) Relative humidity range: no more than 80%;
- 3 Atmospheric pressure range: 700hpa-1060hpa;
- 4) AC100~240V,50/60Hz,48VA.

#### **3.3 Operating conditions of analyzer**

#### **1** Positioning and placing requirements

1) The analyzer should be placed in a stable and leveled manner in a room free from heavy dust, direct sunlight and corrosive gas. The worktable is able to bear a weight above 2.5kg.

2) No strong vibration source and electromagnetic field exist around;

3) It should be located in a well-ventilated place with a space over 10cm to be reserved around the analyzer to ensure the space necessary for operation and maintenance.

#### 2 Power supply voltage requirement

That analyzer uses power AC100~240V,50/60Hz supply. The input voltage is DC 12V. The power of the analyzer is 48VA. Take care to avoid short circuit and electric shock danger during operation! The analyzer connects to ground through power supply adapter.

Note: In all circumstances where that symbol is marked, it is imperative to consult relevant documents.

## **Chapter IV. analyzer installation**

Please use this analyzer under the specified analyzer operating conditions. (Refer to Chapter III "Operating conditions of analyzer")

1 Place the fluorescent immunoassay analyzer on a stable operating table.

2 Connect the power supply adapter with the power supply interface of the fluorescent immunoassay analyzer.



3 Pull the power supply switch to the position "on" to start the analyzer.

## Chapter V. Detailed operating steps of analyzer

The operation of this testing analyzer relies on fingers operating the touchscreen of the fluorescent immunoassay analyzer. Connect the power cord of the analyzer. Turn on the power supply switch of the analyzer to start it. The analyzer goes through starting initialization and booting. After successful booting, the analyzer displays its interface.



Complete system setup according to the practical operation need before operating the analyzer. After that, you can proceed to single sample testing, batch testing, project management and historic record operation.

#### 5.1 System setup

Click the "System Setup" button for a second-level menu to appear after entering the interface: function setup, tools, time setup, about, factory reset.

#### 5.1.1 Function setup



Click "Function Setup" to enter the following interface. Click the icon behind corresponding item to select the setup item.

					2018/10/25 03:50:00
	惑 Functions	🍫 Tools	🕒 Time	() A	bout <i>ID</i> Factorysettings
Single Test	Auto Print				$\bigcirc$
Batch Test	ID Num. Ge	enerate			
Test Items	Inner Code				$\bigcirc$
History					
E Como					
Settings					

1 Start auto printing:

on-print the result automatically after testing off-print no result after testing

- 2 Automatic generation of ID number: on-generate an ID number automatically according to the date encoding off-input an ID number manually
- 3 Start the built-in barcode:

on-scan built-in barcode to identify the testing item and batch number information before test

off-test directly without scanning the built-in barcode

#### **5.1.2 Tools**

Click "Tools" to enter the follow interface. The main tools include: updating program, backlight adjustment, quality inspection, administrator, network configuration, port configuration and network connection.

	-	45 C 15	t.		2018/10/25 03:50:28
	🚔 Functions	🍫 Tools	🕒 Time	() About	𝒮 Factorysettings
Single Test					
Batch Test		Update	Bklight	QC	
Test Items		Manager	Net Set	COM Set	
History		Net			
کې Settings					

#### I. Updating program

Click "Updating Program" to enter the following interface.

-							2018/10/25 03:50:51
	<b>ﷺ</b> Functions	% Tools	٩	Time	0	About	∅ Factorysettings
Single Test							
Batch Test							
Test Items							
History	3	Update		Back			
i i							
Settings							

You can select network updating or u-disk updating.

Click Update to copy the updating program package to a U-disk and insert it into the USB port behind the analyzer. The analyzer obtains the program of a new version from the U-disk and updates the system.

After updating, the analyzer restarts.

#### II. Backlight adjustment

								2018/10/25 03:51:33
		<u> </u> Functions	% Tools	G	Time		About	𝑘 Factorysettings
	Single Test Batch Test	-		CUTEN	Prež	-] 100	t	
	History Settings		Net	GHIEN	EXI			
Clic	dim k	or	EN to adjust	the ba	cklight b	rightne	ess. Clic	Exit

Click the "Backlight Adjustment" button to enter the following interface.

to complete the setup. Close the dialogue box.

### **III.** Quality inspection

Click the "Quality Inspection" button to enter the following interface.



By scanning the quality inspection 2D code, you can obtain the quality control information. Click "QC Test" to start analyzer quality inspection.

When passing the quality inspection, "Quality inspection successful!" will display. When not passing the quality inspection, "Quality inspection failed!" will display. If the quality inspection fails, you have to contact the manufacturer for analyzer commissioning and the testing result is invalid.

#### **IV. Administrator**

The administrator function is available for professional technicians to commission the machine only.



After entering the password, you can set up automatic testing, automatic testing interval, uploading cloud and uploading Lis.

Besides, the analyzer provides the following new tools: calibration tool, gain adjustment, save data, clear records and about the analyzer.

#### V. Network configuration

By clicking "Network Configuration", you can set up the analyzer IP.

					2018/10/25 03:56:35
	😅 Functions	🍫 Tools	🕒 Time	() About	5 Factorysettings
Single Te	IP Addr. Set. Need to restart		Server IP Addr. Set		
	IP Addr.		Server Addr.	[	-
Batch Te					
	Subnet mask		Server Port		
Test Iten	Apply			Apply Back	
History					
<ul> <li>Solution</li> </ul>	•				
Settings					

The analyzer IP setup will come into effect after restarting.

#### **VI. Port configuration**

By clicking "Port Configuration", you can set up the port of the analyzer connecting Lis. There is also a serial interface function.

	-	in di	E.				2018/10/25 03:57:03
	Functions		٩	Time	0	About	𝗊 Factorysettings
Single Test							
	LIS Port	Etherr	net port	O Seria	al port		
Batch Test	LISFOR	<u> </u>		0			
Test Items	Serial por	t 💿 Comp	ute <mark>r</mark> Interf	ace 🔵 Scar	nner gun	t	
		ОК	2	Cance	<b>e</b> 1		
History							
See.							
Settings							

#### VII. Network connection

By clicking "Network Connection", you can set up the computer IP address. After proper setup, you can connect the upper computer software by clicking "Connection".

-					2018/10/25 03:57:28
	🚔 Functions	🐁 Tools	🕒 Time	() About	<b>B</b> Factorysettings
Single Test		Net Connect			
		IP Addr.	92.168.55.101	oc	
Batch Test				40	
Test Items		PC Port		M Set	
History		Connect	Back		
Settings					

#### 5.1.3 Time setup



Click "Time Setup" to enter the following interface.

By clicking "Time Setup", you can set up time. Click the field to be modified and press the signs +, - for adjustment. After modification, click "Time Setup" to confirm the modification. Clicking "Cancel" can cancel time modification.

1							2018/10/25 03:58:08
	Functions	🗞 Too	ols		0	About	𝑘 Factorysettings
Single Test							
Batch Test							+
	2018	10	25	3	58	5	
Test Items							-
History				_			
i and a second					CANCEL	Se	et Time
Settings							

#### 5.1.4 About the analyzer

Click "About" to enter the following interface and display the model number and version information of the fluorescent immunoassay analyzer.



#### 5.1.5 Factory reset

When clicking "Factory Reset", a dialogue box will appear. You can clear all data to resume the ex-factory setup.

After resuming the ex-factory setup, the machine restarts automatically.



#### 5.2 Project management

 Single Test
 SN
 ItemID
 BatchID
 Item
 Batch Code

 I
 1
 1
 test
 2018cpr

 Batch Test
 Image: Single Test
 Image: Single Test
 Image: Single Test
 Image: Single Test

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Click "Test Items" to enter the following interface. Clicking corresponding item can select the examination information appropriate for current inspection.

Click "Previous Page", "Next Page" to browse the inspecting items saved by the analyzer.

Click "Delete the Selected" to cancel the selected inspecting item information.

#### How to import test items:

Step 1: Connect the scanner to the USB-COM port of the analyzer.

Step 2: Scan the QR code on the reagent package.

#### 5.3 Single sample testing

Step 1: Install the analyzer properly and power on to start the same.

Step 2: Click "Single Sample Testing" to switch to the following interface

ļ				2018/10/25 04:26:56
	Item	Concentration	Result	Reference range
NO 1				
Single Test				
Batch Test				
Test Items	Quick Tes	t Sta	andardTest	🖌 Graph
	Sample ID	Item	Batch Code	Test Time
History		test	2018cpr	
£0,200			完成	Sample Info
Settings				

**Step 3:** Select the sample type to be tested.

**Step 4:** Confirm the inspecting item and batch number information.

The current inspecting item and batch number information are set up in the project management. Refer to 5.2 Project Management when it is necessary to change.

**Step 5:** After obtaining the confirmation information, begin to test.

Click Quick Test for the analyzer to start the motor scanning reagent card and begin to test.

				2010/10/23 04.23.10
Single Test	Item	Concentration	Result	Reference range
Batch Test				
Test Items	Quick Tes	t Sta	andardTest	🗠 Graph
	Sample ID	Item	Batch Code	Test Time
History	1810250001	test	2018cpr	
۲ <mark>۰</mark> ۲		Testing	g	Sample Info
Settings				

In case of clicking, StandardTest the incubation time countdown will appear. The test will start only after countdown is finished.

	-			2018/10/25 04:29:55
	Item	Concentration	Result	Reference range
Single Test	test	0.00	neg	
Batch Test				
Test Items	Quick Tes	st 🛛 🛛 Star	ndardTest	Graph
	Sample ID	Item	Batch Code	Test Time
History	1810250001	test	2018cpr	2018-10-25 04:29
۲۰۰۶ ۲۰۰۶		Incubat	ing Cance	l Sample Info
Settings				

After inspection is finished, the result will display.

				2018/10/25 04:33:23
	Item	Concentration	Result	Reference range
Single Test	test	6.83	neg	
Batch Test				
Test Items	Quick Tes	st 🛛 🛛 Sta	andardTest	Graph
	Sample ID	Item	Batch Code	Test Time
History	1810250003	test	2018cpr	2018-10-25 04:33
۲ <mark>۵</mark>	<b></b>		完成	Sample Info
Settings				

Step 7: Result inspection operation

When the test is complete, the result will display on the interface list. By clicking

Graph, you can check the detailed test result.



### 5.4 Batch testing

Here is the change in the batch testing state:

Begin to incubate  $-\rangle$  incubation under progress  $-\rangle$  please insert a reagent strip

 $-\,\rangle\;$  testing under progress  $-\rangle\;$  please pull out the reagent strip

Click "Batch Testing" to switch to the following interface.

1						2010/10/23 0	4.51.00
Single Test Batch Test Test Items	>	SN	Sample ID	Item	CountDov	m Status	<
History <b>Example</b> Settings		Sample ID		Delete	Add Sample	Result	

#### Step 1: Add samples.

Click	Add Sample	to complete addin	ng the IDs of	all samples t	to be tested.	
					2018/10/25 04	:37:53
	SN	Sample ID	Item	CountDown	Status	
Single Test		1810250004	test		START HATCH	
	2	1810250005	test		START HATCH	
Batch Test	> 3	1810250 <mark>006</mark>	test		START HATCH	8
Ē						
Test Items						
		👖 Dele	ete	Add Sample		
History						_
۲ <mark>۵</mark> ۶	Sample	ID   Item	Conce	ntration	Result	
Settings	14					115

#### Step 2: Begin to incubate

Apply samples for the test paper strip. As soon as the sample application is complete, click "Begin to Incubate". The current state changes and incubation countdown begins.

							2018/10/25 0	4:39:43
$\bigcirc$			SN	Sample ID	Item	CountDown	Status	
Single Test			1	1810250010	test	4	HATCHING	
			2	1810250011	test	19	WAIT ADD	
Ratab Tast	>		3	1810250012	test	19	WAIT ADD	<
Test Items								
History	_			🗍 Del	ete	Add Sample		
<b>کرکی</b> Settings		Sa	mple	ID Item	Conce	ntration	Result	

Step 3: Begin to test

1	(						2018/10/25 04	4:41:03
$\Diamond$			SN	Sample ID	Item	CountDown	Status	
Single Test			1	1810250010	test		START TEST	
			2	1810250011	test		START HATCH	
Batch Test	>		3	1810250012	test		START HATCH	<
Test Items								
History				📋 De	lete	Add Sample		
Settings	144	Saı	mple ID	Iter	m Concen	tration	Result	

When incubation timing is finished, click "Begin to Test".

When the test is finished, the test result will display. No list will display and the sample test is completed.

26 								2018/10/25 0	4:43:24
			SN	Sample II	)	Item	CountDown	Status	
Single Test			1	181025001	4	test		START HATCH	
	~		2	181025001	5	test		START HATCH	,
Batch Test	1								1
Test Items	8								
					Delete	( e	Add Sample		
History محر		Sa	mple ID		Item	Concen	tration	Result	
So so		181	10250013		test	6.	82	neg	
Settings	1.5								

Step 4: Repeat the above operations for testing the next reagent strip.

## 5.5 Historic records

Click the "Historic Records" button on the main menu page to switch to the following interface. Provide record browse and record operation.

	247						2018	/10/25 04:44:0	02
		SN	Sample ID	Item	Concentration	Result	Tes	t Time	
Single	> Test	1	1810250013	test	6.82	neg	<b>10-</b> 25	04:43:03	
	8	2	1810250010	test	6.77	neg	1 <b>0</b> -25	04:42:00	
Batch '	) Test	3	1810250003	test	6.83	neg	10-25	04:33:09	
	1	4	1810250002	test	0.00	neg	10-25	04:30:09	
Test It	ems	5	1810250001	test	0.00	neg	10-25	04:29:25	
ſ	) (	6	1810240019	test	Invalid	Invalid	<b>10</b> -24	23:48:59	
Histo	ory								
ઽૼૼઽૣ	<b>0</b> 3	( 🗘 P	revious 🐶 Next	Q Search	👖 Delete	Cle	ar	🖶 Print	
Settin	ngs								
Click	A Pre	vious	or Next to bro	wse the i	nspection recor	rds.			
		Print							
Click			to print the selected	inspectio	n result throug	h the b	uilt-in	printer;	
	D	elete							
Click			to delete a selected i	nspectior	n record.				
	🔒 c	lear							
Click			to clear all records.						
01' 1	QSe	earch	, , ·		1	1	1.		
Click	100		to enter various scre	ening co	nditions for rec	ord sea	arching	g.	

	21 <u>7</u>				2018/10/25 04:48:26
	SN	Sample ID	Item	Concentration Result	Test Time
Single					13:03
	Time	2018 Y 10	м <mark>25</mark> р	h h min	12:00
Batch 7		2018 y 10	M 26 D	0 h 0 min	33:09
ſ					80:09
Test Ite	Sample ID				29:25
ſĿ	Item				18:59
Histc		Search		Back	
Setting	S Previ	ious 💸 Next	Q Search	🛄 Delete 🛗 Cle	ar Print

Check time, sample ID, item number and enter the retrieval field. By clicking the "Search" button, you can find corresponding record.

## **Chapter VI. Maintenance and Service**

#### 6.1 Maintenance and Service

What you have to do only is to keep the external part of the fluorescent immunoassay analyzer clean.

External cleaning and service method: Clean the outer surface of the analyzer with wet cloth and 70% ethanol. Do not use any strong bleaching agent ( $\geq 0.5\%$  solution), as oxidants and solvents may deface the housing and touch screen of the testing analyzer. Note: do not use the same to clean any internal component or surface.



Before cleaning the analyzer, switch off the power and ensure that the power cord plug is in a disconnected state to avoid short circuit and electric shock!

#### 6.2 Maintenance plan

Maintenance item	Weekly	Three months	When necessary
analyzer dust collection	X		
Change printing paper			When the printing paper is used
Change printing paper			up

#### 6.3 Attentions for analyzer operation

1. Do not place the analyzer in a place where it is hard to operate or inconvenient to disconnect the device.

2. Except the reagent card as provided by the manufacturer, do not place anything else into the test paper strip card holder.

3. If any reagent card testing sample has any potential for infection, please use protective gloves or take other protective measures to avoid skin contacting with the opening of the reagent card for adding samples.

4. Please dispose any used reagent card according to Medical Waste Management Regulations to avoid any biological hazard arising.

5. Please use the analyzer strictly according to the Operation Instructions from the manufacturer. Otherwise, the protection as provided by the analyzer will be destroyed.

6. Notes to analyzer data saving and restoring procedures: In the analyzer, the calibration curves relating to item, batch as imported by the manufacturer and the testing records of users can be saved. When the manufacturer transmits through an upper computer any calibration curve directly, the analyzer will save automatically. The analyzer can save the calibration data for a maximum of 16 items with each item having 3 batches simultaneously. The testing results during normal operation by users will be saved automatically in the analyzer in the record form. The analyzer can save a maximum of 50,000 records. The data saved can resume automatically after power-off without loss. When users select "Factory Reset", data will be cleared.

7. Those using and operating the supporting PC software for the fluorescent

immunoassay analyzer need to have relevant knowledge: be familiar with such operating systems as windows XP, windows7 and with the installation, unloading of the software installation package in windows XP, windows7.

8. Replacing detachable MAINS or supply cords by inadequately RATED cords is prohibited

9. The power plug must be connected to a grounded socket.

10. The consumables used for supporting the instrument must be used within the validity period

## **Chapter VII. Troubleshooting guide**

#### Steps dealing with crash

When there is no response in clicking the analyzer interface buttons or analyzer press keys, crash occurs. Please restart the analyzer by following the steps below:

- 1) Switch off the power;
- 2) Plug and unplug the power cord again;
- 3) Switch on the power.

Notes to common errors:

1. A user interface error may result in the analyzer being unable to perform the "testing" function. This will not influence the data backup and transmission function. At this point, you can upload the records backed up to the upper computer software and then return the analyzer to the factory for repairing.

2. The application logic itself errs. The possibility for this error is very low. When it occurs, the testing data this time will lose. However, the historic data backed up in the analyzer will not lose. At this point, have the analyzer power off and restart to use continually.

3. The system or network resources cannot be used and the testing function and data backup function of the analyzer itself can be used continually. This may influence the record uploading to the upper computer software. As the system or network resources become stabilized, that function will resume automatically.

## **Chapter VIII. Service, Repair and Destroy**

As long as you keep the analyzer clean and change printing papers, the fluorescent immunoassay analyzer needs no special maintenance normally. In case of needing any service or repair, please email to market@joinstar.cn.

The internal structure of the fluorescent immunoassay analyzer, including such important spare parts and components as circuit boards, optical testing modules, display screen, printer and 1D scanning modules, can be inspected and replaced by our company only. No repair by any third party is supported.

When the fluorescent immunoassay analyzer has any trouble or the upper computer software operates abnormally, please email to market@joinstar.cn first for consultation. We will provide technical support on the telephone to help customers troubleshoot. If any analyzer needs recall for repair, please send the analyzer back for repair according to relevant requirements. Normally, the repair period is not beyond one week. If any analyzer does have to be scrapped, the company will provide a new analyzer within the warranty period.

If any user needs to destroy the fluorescent immunoassay analyzer due to some reason, it is suggested that the user should destroy the same according to the regulations relating to class B electronic analyzers.

This company provides technical support and maintenance to the software, including functional maintenance, corrective maintenance and software error correction or upgrading.

The company states that the above service guarantees will be available only subject to fully complying with the Operation Instructions from the manufacturer. For any damage other than this, the company will not take any liability. Date of Manufacture: See the label

Validity Period: See the label

## Effective date and version

Effective Date: 2020-05-25

Version: 0

## **Contact information**

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