

InMark®

2019

Quality ✓
Innovations ✓✓
Price advantage ✓✓✓

CE
ISO 9001



Electrochemical Products



Physical Optical Products

Spectrophotometers

About **InsMark**[®]

InsMark, an international brand name, which stands for: Guaranteed Quality, Attractive Price, and Innovations for Customers' Benefits.

InsMark, founded in 2010, while "Shanghai Insmark Instrument Technology Co., LTD" was set up, with the belief of "product is the company's vitality".

InsMark, situated its factory in Caohejing technical zone, Shanghai China. It is ISO9001 certified.

InsMark, with its R & D competence, it focuses on product development & quality control.

InsMark, distribution policy: setting up long-term partnership to dealers, strongly supporting them to fulfill local customers' satisfaction.

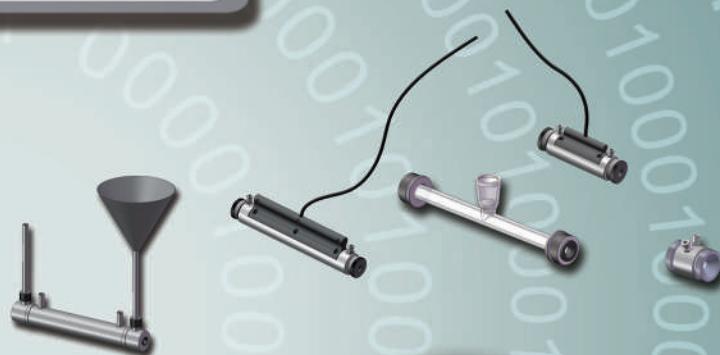
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How to Select?

Polarimeters/Saccharimeters

- | | |
|--|-------|
| 1, Digital platform: IP-digi Series | P4 |
| 2, Saccharimeter: IP-digiS Series | P5 |
| 3, Different wavelength or special needs | P6 |
| 4, Mechanical model: IP-Manual | P7 |
| 5, Service tool/Accessories | P7/P8 |



Patent protected



Contact: International@insmark.com.cn

IP-digi Series Polarimeters

- > Touch screen
- > Glan Thompson prism
- > Competitive price
- > Optional 200mm peltier instrument



Top Sales
Digital platform

Model	IP-digi1	IP-digi2	IP-digi3	IP-digi7	IP-digi8
Specification					
Measuring range	±90°	±90°	±90°	±90°	±90°
Resolution	0.001°	0.001°	0.001°	0.001°	0.001°
Accuracy	±0.01°	±0.01°	±0.006°	±0.004°	±0.004°
Reproducibility	±0.003°	±0.003°	±0.003°	±0.003°	±0.003°
Temperature range	0-100°C	0-100°C	0-100°C	0-100°C	0-100°C
Temperature resolution	0.1°C	0.1°C	0.1°C	0.1°C	0.1°C
T. control model	—	Peltier	Peltier	—	Peltier
T. control range	—	10 - 50°C	10 - 50°C	—	10 - 50°C
T. control accuracy	—	±0.2°C	±0.2°C	—	±0.1°C
Sensitivity	Min0.5%	Min0.5%	Min0.5%	Min0.1%	Min0.01%
Prism	polymer	polymer	polymer	Glan Thompson	Glan Thompson
Light source	LED, 100000 hours	LED , 100000 hours	LED , 100000 hours	LED , 100000 hours	LED , 100000 hours
Wavelength	589nm	589nm	589nm	589nm	589nm
Measuring mode	Optical rotation, Specific rotation, Concentration, International sugar scale	Optical rotation, Specific rotation, Concentration, International sugar scale	Optical rotation, Specific rotation, Concentration, International sugar scale	Optical rotation, Specific rotation, Concentration, International sugar scale	Optical rotation, Specific rotation, Concentration, International sugar scale
Sample chamber	Up to 200mm	Up to 200mm	Up to 200mm	Up to 200mm	Up to 200mm
Interface	RS232, USB	RS232, USB	RS232, USB	RS232, USB	RS232, USB
Display	8 inches touch screen, color LCD	8 inches touch screen, color LCD	8 inches touch screen, color LCD	8 inches touch screen, color LCD	8 inches touch screen, color LCD
Database	4000 groups data	4000 groups data	4000 groups data	4000 groups data	4000 groups data
Ordering Information					
N.W. / G.W.	28kg / 30kg	30kg / 33kg	30kg / 33kg	28kg / 30kg	32kg / 35kg
Dimension(L*W*H)	72*37*24cm	72*37*24cm	72*37*24cm	72*37*24cm	72*37*24cm
With packing dimension	88*59*42cm	88*59*42cm	88*59*42cm	88*59*42cm	88*59*42cm
Configuration	IP-digi1 polarimeter 200mm*1(glass tube) 100mm*1(glass tube) 4G USB flash Identify your power cord from Page31	IP-digi2 polarimeter 200mm*1(glass tube) 100mm*1(T.controlled metal tube) Syringe,Brush 4G USB flash Identify your power cord from Page31	IP-digi3 polarimeter 200mm*1(glass tube) 200mm*1(T.controlled metal tube) Syringe,Brush 4G USB flash Identify your power cord from Page31	IP-digi7 polarimeter 200mm*1(glass tube) 100mm*1(glass tube) 4G USBflash Identify your power cord from Page31	IP-digi8 polarimeter 200mm*1(glass tube) 200mm*1(T.controlled metal tube) Syringe,Brush 4G USB flash Identify your power cord from Page31
Order number	85001610	85001620	85001623	85001629	85001631

- > Higher accuracy
- > Best price-performance ratio
- > Longer life time
- > Low maintenance
- > Cover all applications

IP-digiS Series Saccharimeters

- > Designed for sugar application
- > Measure brown sample possible
- > Supply with suitable tubes

Model	IP-digiS1	IP-digiS2
Specification		
Measuring range	± 259° Z	± 259° Z
Resolution	0.003° Z	0.003° Z
Accuracy	± 0.03° Z	± 0.03° Z
Reproducibility	± 0.01° Z	± 0.01° Z
Temperature range	0-100 °C	0-100 °C
Temperature resolution	0.1 °C	0.1 °C
T. control model	——	Peltier
T. control range	——	10 - 50 °C
T. control accuracy	——	± 0.2 °C
Sensitivity	Min0.1%	Min0.1%
Prism	polymer	polymer
Light source	LED , 100000 hours	LED , 100000 hours
Wavelength	589nm	589nm
Measuring mode	Optical rotation, Specific rotation, Concentration, International sugar scale	Optical rotation, Specific rotation, Concentration, International sugar scale
Sample chamber	Up to 200mm	Up to 200mm
Interface	RS232, USB	RS232, USB
Display	8 inches touch screen, color LCD	8 inches touch screen, color LCD
Database	4000 groups data	4000 groups data

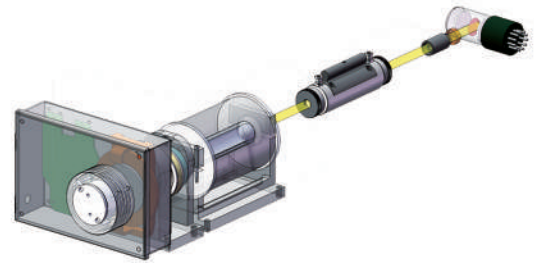
Ordering information

N.W. / G.W.	28kg / 30kg	32kg / 35kg
Dimension(L*W*H)	72*37*24cm	72*37*24cm
With packing	88*59*42cm	88*59*42cm
Configuration	IP-digiS1 saccharimeter 200mm*1(funnel glass tube) 100mm*1(funnel glass tube) 50mm*1(glass tube) 4G USB flash Identify your power cord from Page31	IP-digiS2 saccharimeter 200mm*1(T.controlled metal tube) 200mm*1(funnel glass tube) 100mm*1(funnel glass tube) 50mm*1(glass tube) Syringe,Brush 4G USB flash Identify your power cord from Page31
Order number	85001609	85001608

Offers For Special Needs

1. Need different wavelength?

- Select a normal polarimeter
- Plus additional cost , order number: 85300165
- Specify wavelength (365、405、436、546、578、633、880nm)



2. Measure flowing sample with temperature control?

You need combine 3 parts:

- Select a non-temp. control model
- Select a special tube (order number: 85300011)
- Plus InsMark Bath II (order number: 85300163)

3. Measure corrosive samples?

Both instrument and tube need anti-corrosive treatment.

- Select a normal polarimeter
- Define additional cost from:
85300164(100mm tube)
85300166(200mm tube)



Digital platform also brings: Automatic Service tool

A-Box: We designed service kit for your convenience

1. Service tool for dealer's convenience:

*Whole range adjustment: Super A-Box I , order number:85300053

*Defined range calibration: Super A-Box II , order number:85300054

2. Verification for customer:

Single quartz plate, order number:85300037



Service Kit







IP-Manual Polarimeters



- > LED Lamp, New
- > Easy to use
- > for basic applications

Model	IP-Manual
Specifications	
Measuring range	$\pm 180^\circ$
Accuracy	$\pm 0.05^\circ$
Measuring mode	Optical rotation
Wavelength	589nm
Light source	LED, 20000 hours
Sample chamber	Up to 200mm
Voltage	Identify your power cord from Page31
Dimension(L*W*H)	54*22*38cm
N.W.	5kg
Product number	85000042

Optional Accessories List

Details	Application	Name	Specification			Configuration	Order number
			length	volume	material		
			(mm)	(ml)			
	General	Glass tube 200mm	200	16	glass		85300007
		Glass tube 100mm	100	11	glass		85300006
		Glass tube 50mm	50	8	glass		85300017
	Sampling through funnel	Funnel tube 200mm	200	18	glass		85300009
		Funnel tube 100mm	100	7	glass		85300008
	Water bath	Glass tube 200mm	200	17	glass		85300010
	Small sample	Micro glass tube 50mm	50	0.8	glass		85300032
		Micro flow-through tube 50mm	50	0.4	Stainless steel	tube*1, Drainaging sets*1, brush*1 Sealed cap*2, injector*1,	85300062
		Micro flow-through tube 10mm	10	0.05	Stainless steel	tube*1, Drainaging sets*1, brush*1 Sealed cap*2, injector*1,	85300061
	Flowing sample	Special tube with hose connectors	200		Stainless steel		85300011
	Temp. control	Peltier 200mm set	200	6	Stainless steel	tube*1, Drainaging sets*1, brush*1 Sealed cap*2, injector*1,	85300067
					Anti-corrosion		85300121
		Peltier 100mm set	100	2.8	Stainless steel	tube*1, Drainaging sets*1, brush*1 Sealed cap*2, injector*1,	85300066
					Anti-corrosion		85300120
		Peltier 50mm set	50	0.8	Stainless steel	tube*1, Drainaging sets*1, brush*1 Sealed cap*2, injector*1,	85300065
					Anti-corrosion		85300119
	Printing	InsMark I printer					85300018
	Paper for printer	Plain Paper				A set of 6 rolls	85300109
	Whole range adjustment	Super A-Box I				Activator, 10 quartz plates	85300053
	±5° calibration. Such as, drug industries.	Super A-Box II				Activator, 2 quartz plates	85300054
	Value of quartz plate on request.	Quartz plate	one of ±5、±17、±34、±59、±84			Single plate	85300037
	On line data transfer to PC	Digi_link SW package				CD*1 RS232-RS232 cable *1 RS232-USB converting cable *1	85300106

How to Select?

Refractometers:

- | | |
|---|-----|
| 1, Portable models : IR200 Potable Series | P10 |
| 2, Benchtop models: IR100 Series | P11 |
| 3, Bath/Cleaner/Accessories: | P12 |



Unique design and advanced software contributes:

 an automatic performance monitoring, compensating and warning system

Contact : [International @ insmark.com.cn](mailto:International@insmark.com.cn)



IR200 Series Handheld Refractometer

- > Accuracy reached 4 decimal places in a wide range
- > Remarkable power efficiency
- > Database and RF transfer
- > RF wireless data transfer to PC
- > IP65 rated

Model		IR200B1	IR200B2	IR200B3	IR200B	IR280B	IR280D
Measuring range	nD	--	--	--	--	--	1.3300 – 1.7000
	Brix	0.0-35.0%	25.0-65.0%	55.0-95.0%	0.0-95.0%	0.00 - 10.00%	0.0 - 95.0%
Resolution	nD	--	--	--	--	--	0.0001
	Brix	0.1%	0.1%	0.1%	0.1%	0.01%	0.1%
Reproducibility	nD	--	--	--	--	--	± 0.0002
	Brix	± 0.2%	± 0.2%	± 0.2%	± 0.2%	± 0.1%	± 0.2%
Temperature range		5-90° C (ATC)	5-90° C (ATC)	5-90° C (ATC)	5-90° C (ATC)	5-90° C (ATC)	5-90° C
Temperature resolution		0.1° C	0.1° C	0.1° C	0.1° C	0.1° C	0.1° C
Interface		--	--	--	RF wireless module	RF wireless module	RF wireless module
Display		color LCD	color LCD	color LCD	color LCD	color LCD	color LCD
Database		100 groups data	100 groups data	100 groups data	100 groups data	1000 groups data	1000 groups data
Prism		hard glass	hard glass	hard glass	hard glass	hard glass	hard glass
Voltage		AA alkaline battery x 2, Approx 15,000 measurements(using new batteries)					

Ordering information


N.W. / G.W.	200g / 280g	200g / 280g	200g / 280g	200g / 280g	200g / 280g	200g / 280g
Dimension(L*W*H)	12*7*3.5cm	12*7*3.5cm	12*7*3.5cm	12*7*3.5cm	12*7*3.5cm	12*7*3.5cm
With packing dimension	22*12.3*5.2cm	22*12.3*5.2cm	22*12.3*5.2cm	22*12.3*5.2cm	22*12.3*5.2cm	22*12.3*5.2cm
Configuration	IR200B1	IR200B2	IR200B3	IR200B	IR280B	IR280D
	Waterproof bag	Waterproof bag	Waterproof bag	RF data receiving module Waterproof bag	RF data receiving module Waterproof bag	RF data receiving module Waterproof bag
Order number	85000034	85000035	85000036	85000021	85000043	85000011



IR100 Series Automatic Refractometers

- > Accuracy reached 5 decimal places
- > Large color touch screen
- > Both nD and Brix measurements
- > GLP mode
- > More measurement could be ordered (such as concentration based on nD)

Unique design and advanced software contributes:

 an automatic performance monitoring, compensating and warning system

Model		IR120	IR140	IR180
Measuring range	nD	1.3000 - 1.7000	1.3000 - 1.7000	1.30000 - 1.70000
	Brix	0.0 - 100.0%	0.0 - 100.0%	0.00 - 100.00%
Resolution	nD	0.0001	0.0001	0.0001/0.00001
	Brix	0.1%	0.1%	0.1%/0.01%
Reproducibility	nD	±0.0002	±0.0002	±0.00002
	Brix	±0.1%	±0.1%	±0.02%
Temperature range		0-95°C	0-95°C	0-95°C
Temperature resolution		0.1°C	0.1°C	0.1°C
T. control model		Water bath(buy separately)	Water bath(buy separately) and Peltier	Water bath(buy separately) and Peltier
T. control range		--	5-80°C	5-80°C
T. control accuracy		--	±0.2°C	±0.2°C
Interface		RS232	RS232,USB	RS232,USB
Display		touch screen,color LCD	touch screen,color LCD	touch screen,color LCD
Database		100 groups data	500 groups data	1000 groups data
Prism		hard glass	artificial sapphire	artificial sapphire

Ordering information

N.W. / G.W.	4kg / 5kg	4kg / 5kg	4kg / 5kg
Dimension(L*W*H)	36*24*15cm	36*24*15cm	36*24*15cm
With packing dimension	51*40*29cm	51*40*29cm	51*40*29cm
Configuration	IR120 Refractometer SW on CD(obtain data from database by PC) Identify your power cord from Page31	IR140 Refractometer 4G USB flash Identify your power cord from Page31	IR180 Refractometer 4G USB flash Identify your power cord from Page31
Order number	85000018	85000033	85000020

InsMark water bath

- > InsMark water bath is designed to control accurate temperature for its refractometer
- > InsMark water bath is also for Lab general use

Model	Bath I	Bath II
Temperature range	RT+5~99°C	-10~95°C
Precision	±0.02°C	
Chamber volume	5L	
Pump (flux)	5~10L/min	
Pump pressure	0.25 bar	
Chamber depth	150mm	
Peristome Dimension	145mm*150mm	
Configuration	Identify your power cord from brochure Page31	
	Bath I water bath	Bath II water bath
Order number	85300158	85300163












Bath/Cleaner/Accessories

Optional Accessories

IR-assistant ----liquid waste treatment system

Refractometer assistant, make your measurement automatically, conveniently, environmental friendly.

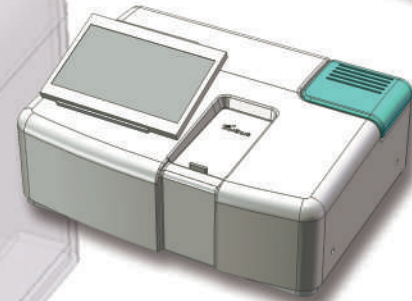
volume	1000mL
N.W.	3.5kg
Dimension	320mm*120mm*270mm
Configuration	IR-assistant liquid waste treatment system Identify your power cord from brochure Page31
Order number	85300156

	Details	Application	Name	Configuration	Product number
IR100 series automatic refractometer (Bench)		Sticky, low thermal conductive sample	S-cover		85300042
		Volatile sample	V-cover		85300111
		Calibration	1.33nD standard solution	5ml	85300001
		Calibration	1.42nD standard solution	5ml	85300002
		Calibration	1.50nD standard solution	5ml	85300003
		Calibration	1.65nD standard solution	5ml	85300004
		Printing	Insmark I printer		85300018
		Paper for printer	Plain paper	A set of 6 rolls	85300109
		On line data transfer to PC	IR_link SW package	CD*1 RS232-RS232 cable*1 RS232-USB converting cable*1	85300110
	IR200 series automatic refractometer (handheld)			Waterproof bag	
			RF data receiving module		85300016

How to Select?

U(ultraviolet)V(Visible) Spectrophotometers

- | | |
|---|-----|
| 1,UV/VIS Spectrophotometer 100Star Series | P14 |
| 2,UV/VIS spectrophotometer 300 series | P15 |
| 3,UV/VIS Spectrophotometer 400Star Series | P16 |
| 4,Accessories | P17 |
| 5,Ultramicro-spectrophotometer: Mini series | P18 |



Unique software & UI design, make operation so easy!
such as on screen control of cuvette...

Available since May 1, 2019.

Contact : International @ insmark.com.cn



NEW !
Compact structure,
full functions, intuitive
UI, easy operation.

UV/VIS Spectrophotometer 100Star Series

- > Single beam, compact design
- > Full functions, scanning and graphic analysis on screen
- > Unique software & UI design, make operation very convenient
- > 8 inches color touch screen
- > 4-cell automatic sampling

Specification		Model	UV100-star2	UV100-star4
Spectral Bandwidth			2 nm	4 nm
Optical system			Single beam	
Wavelength	range		190~1100 nm	
	accuracy		± 0.5 nm	
	repeatability		≤ 0.2nm	
	setting		Automatic	
	resolution		0.1nm	
Photometric	range		0~200%T, -0.3~3A, 0~9999C, 0~9999F	
	accuracy		± 0.002A (0~0.5A), ± 0.004A(0.5~1A), ± 0.3%T(0~100%T)	
	repeatability		≤0.001A (0~0.5A), ≤0.002A(0.5~1A), ≤0.2%T(0~100%T)	
Baseline	drift		≤0.002A/h(500nm,OA)	
	flatness		± 0.003A	
Stray light			≤ 0.1%T (220/360nm)	
Noise			± 0.2%T(0%T) ; ± 0.5%T(100%T) ; ± 0.001A(500nm)	
Light source			High quality tungsten lamp & D2 lamp	
Detector			High quality silicon photodiodes	
Display			8inch color touch screen, 800*600 pixel	
Data output port			USB,RS232	
Power requirements			AC90-250V,50/60Hz	
Ordering Information				
N.W. / G.W.			15kg/18kg	15kg/18kg
Dimension(L*W*H)			47.5*42*22cm	47.5*42*22cm
With packing dimension			62*59*36.5cm	62*59*36.5cm
Configuration			UV100-star2 4 cell auto cuvette holder (10-50 mm) 10mm Quartz cuvette*2 10mm Glass cuvette*4 Identify your power cord from Page31	UV100-star4 4 cell auto cuvette holder (10-50 mm) 10mm Quartz cuvette*2 10mm Glass cuvette*4 Identify your power cord from Page31
Order number			85001730	85001731



UV/VIS spectrophotometer 300 series

- > Unique software & UI design, make operation very convenient
- > Double beam optical design for reliable results
- > Rigorous optical system design and circuit control system design
- > Narrow and variable bandwidth
- > Large sample chamber, optional automatic sample holder
- > Special lamp window, easy to replace the lamp

Mode		UV300/X	UV300/1	UV300/2
Specification				
Spectral Bandwidth		Variable (1, 1.5, 2, 4, 5nm)	1nm	2nm
Optical system		Double beam		
Wavelength	range	190-1100nm		
	accuracy	± 0.1nm(656.1nm),± 0.3nm(whole range)		
	repeatability	≤0.2nm		
	setting	Automatic		
	resolution	0.1nm		
Photometric	range	0~200%T,-4~4A,0~9999C,0~9999F		
	accuracy	± 0.002A(0~0.5A),± 0.004A(0.5~1A),± 0.3%T(0~100%T)		
	repeatability	≤0.001A(0~0.5A),≤0.002A(0.5~1A),≤0.1%T(0~100%T)		
Baseline	drift	≤0.0004A/h(500nm,OA)		
	flatness	± 0.0015A		
Stray light		≤0.05%T(220/360nm)		
Noise		± 0.1%T(0%T),± 0.3%T(100%T),± 0.0004A(500nm)		
Light source		Tungsten lamp & D2 lamp		
Detector		Silicon photodiodes		
Display		8inch color touch screen, 800*600 pixel		
Data output port		USB,RS232		
Power requirements		AC 90-250V,50/60Hz		
Ordering Information				
N.W. / G.W.		23Kg / 26Kg	23Kg / 26Kg	23Kg / 26Kg
Dimension(L*W*H)		67*60*28cm	67*60*28cm	67*60*28cm
With packing dimension		84*77*44cm	84*77*44cm	84*77*44cm
Configuration		UV300/X 8 cell auto cuvette holder (10 mm) 10mm Quartz cuvette*2 10mm Glass cuvette*4 Identify your power cord from Page31	UV300/1 8 cell auto cuvette holder (10 mm) 10mm Quartz cuvette*2 10mm Glass cuvette*4 Identify your power cord from Page31	UV300/2 8 cell auto cuvette holder (10 mm) 10mm Quartz cuvette*2 10mm Glass cuvette*4 Identify your power cord from Page31
Order number		85001725	85001726	85001727

UV/VIS Spectrophotometer 400Star Series

NEW !

Controlled by a tablet PC, researchers can perform in cable connection, Wifi control, even manage database off line.



- > Double beam, classic CT optical design
- > Unique software & UI design, make operation very convenient
- > Tablet PC installed, support WI-FI operation
- > Unique functions: off-line graphic analysis, edit data and write report
- > 4-cell automatic sampling

Specification		Model	UV400-star1	UV400-star2
Spectral Bandwidth			1nm	2 nm
Optical system			Double beam	
Wavelength	range		190~1100 nm	
	accuracy		± 0.1 nm (656.1nm), ± 0.3 nm (whole range)	
	repeatability		≤0.1nm	
	setting		Automatic	
	resolution		0.1nm	
Photometric	range		0~999.9%T, -4~4A, 0~9999C, 0~9999F	
	accuracy		± 0.002A (0~0.5A), ± 0.004A(0.5~1A), ± 0.2%T(0~100%T)	
	repeatability		≤0.001A (0~0.5A), ≤0.002A(0.5~1A), ≤0.1%T(0~100%T)	
Baseline	drift		≤0.0004A/h (500nm,0A)	
	flatness		± 0.0008A	
Stray light			≤0.02%T (220/360nm)	
Noise			± 0.1%T(0%T) ;± 0.3%T(100%T) ;± 0.0003A(500nm)	
Light source			High quality tungsten lamp & D2 lamp	
Detector			High quality silicon photodiodes	
Display			12.3 inch Microsoft Surface Pro5, 2736×1824 pixel (267PPI)	
Data output port			USB, Micro SD card reader, keyboard port, headphone jack, bluetooth 4.0, WiFi compatible	
Power requirements			AC90-250V, 50/60Hz	
Ordering Information				
N.W. / G.W.			27kg/30kg	27kg/30kg
Dimension(L*W*H)			64.5*50*24cm	64.5*50*24cm
With packing dimension			80*67*36cm	80*67*36cm
Configuration			UV400-star1 4 cell auto cuvette holder (10-50 mm) 10mm Quartz cuvette*2 10mm Glass cuvette*4 Identify your power cord from Page31	UV400-star2 4 cell auto cuvette holder (10-50 mm) 10mm Glass cuvette*4 Identify your power cord from Page31
Order number			85001741	85001742

Accessories for spectrophotometer

Type	Application	Name	Order number
Cuvette	small sample(UV/VIS)	50ul Quartz micro cuvette	85300210
	small sample(visible)	50ul Glass micro cuvette	85300211
	High concentration samples(UV/VIS)	5mm Quartz cuvette	85300212
	High concentration samples(visible)	5mm Glass cuvette	85300213
	Standard(UV/VIS)	10mm Quartz cuvette	85300214
	Standard(visible)	10mm Glass cuvette	85300215
	Low concentration samples(UV/VIS)	20mm Quartz cuvette	85300216
	Low concentration samples(visible)	20mm Glass cuvette	85300217
	Low concentration samples(UV/VIS)	30mm Quartz cuvette	85300218
	Low concentration samples(visible)	30mm Glass cuvette	85300219
	Lower concentration samples(UV/VIS)	50mm Quartz cuvette	85300220
	Lower concentration samples(visible)	50mm Glass cuvette	85300221
	Extremely low concentration samples(UV/VIS)	100mm Quartz cuvette	85300222
	Extremely low concentration samples(visible)	100mm Glass cuvette	85300223
Holder & Changer	≤10mm cuvette	10mm single cuvette holder	85300224
	10~50mm cuvette	50mm single cuvette holder	85300225
	10~100mm cuvette	100mm single cuvette holder	85300226
	≤10mm cuvette	10mm 4-cell cuvette holder	85300227
	10~50mm cuvette	50mm 4-cell cuvette holder	85300228
	10~100mm cuvette	100mm 4-cell cuvette holder	85300229
	for micro cuvette	micro cuvette holder	85300230
	Combination with water bath	Water bath holder	85300231
	for glass or membrane testing	solid sample holder	85300232
	for sample in test tube	Test tube holder	85300233
	multi-sample testing, automatic	10mm 5-cell automatic changer	85300234
multi-sample testing, automatic	10mm 8-cell automatic changer	85300235	
Reflectance accessories	for specular reflectance accessory	5° specular reflectance accessory	85300236
Micro Printer	printing	Printer	85300237
Software	scanning analysis	PC scanning software	85300240
Lamp	Light source	D2 lamp	85300241
	Light source	Tungsten lamp	85300242

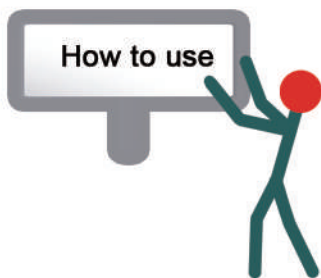


Mini series ultramicro-spectrophotometer

- > Modern design, easy to operate
- > Attention to application detail
(DNA, RNA, Protein...)
- > Auto & quick measurement in a few seconds

Applications

The small sample requirement and ease of use make the Insmark® mini Ultra-Spectrophotometer ideally suited for measuring. In addition, the IM-mini has the capability to measure highly concentrated samples without dilution (50X higher concentration than the samples measured by a standard cuvette spectrophotometer). Mini+, including a 1cm cuvette, ideal for Bradford assay and suspended culture concentration determination.



1. General UV-Vis Spectrophotometry
2. Nucleic acid samples up to 3700 ng/ul (dsDNA) without dilution
3. Fluorescent dye labeling density of nucleic acid microarray samples
4. Purified protein analysis (A280) up to 100 mg/ml (BSA)
5. Expanded spectrum measurement and quantitation of fluorescent dye labeled proteins, conjugates, and metalloproteins
6. Protein analysis including Bradford Assay, BCA assay, Lowry assay and Pierce 660nm assay.
7. Cell density measurements



Model	Mini-E1	Mini-E2	Mini-E3	Mini+
Specification				
Min volume of sample	1µl	1µl	0.5µl	1ul
Detector	2048 CCD Array	3648 CCD Array	3648 CCD Array	3648 CCD Array
Wavelength range	220-750nm	190-900nm	190-1100nm	190-900nm
Wavelength accuracy	1nm	0.4nm	0.4nm	0.4nm
Spectral accuracy	≤ 3nm	≤1.2nm	≤1.2nm	≤1.2nm
Absorbance accuracy	0.003 OD	0.002 OD	0.002 OD	0.002 OD
Absorbance repeatability	2%			
Absorbance range	0.02-75 OD	0.02-150 OD	0.02-300 OD	0.02-150 OD
Min volume	2ng/µl			
Max volume	3700ng/µl	7400ng/µl	15000ng/µl	7400ng/ul
Measuring time	<10s	<3s	<3s	<3s
Sample substrate material	Stainless steel & silica fiber	Stainless steel & silica fiber	Stainless steel & silica fiber	Stainless steel & silica fiber
Cuvette measurement range				0.4 ng/µl-750 ng/µl
Light source	Intensity Discharge Lamp (Xenon)			
Voltage	12V			
Optional accessories	Pipette, Standard resolution			

Ordering Information

N.W. / G.W.	5Kg / 8Kg			
Dimension(L*W*H)	28×24×17cm			
With packing dimension	48×37×37cm			
Configuration	Mini-E1 Power cord from Page31	Mini-E2 Power cord from Page31	Mini-E3 Power cord from Page31	Mini+ Power cord from Page31
Order number	85001501	85001502	85001503	85000504

How to Select?

Electrochemical Products

1,pH: 2 series\4 models

P20/21

Series \ Accuracy	0.01pH	0.001pH
Icon Series	IS126	IS136
M-log Series	IS128	IS139

2,Conductivity/ISE:

P22

3,Electrodes:

P23

4,Accessories:

P24



Icon meter, no language, have fun!

👁 calibration reminder

Contact : International @ insmark.com.cn



Icon version: IS126,IS136 

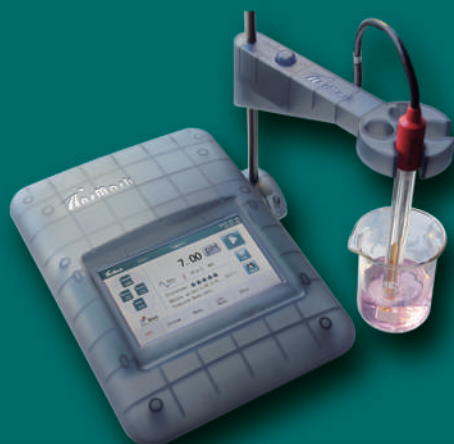
- > Icon-made UI,no language needed
- > Touch screen ,animation included
- > High price-performance ratio

Model	IS126 Icon pH meter	IS136 Icon pH meter
Specifications		
Measuring mode	pH/mV	pH/mV
Range (pH)	-2.00 to 20.00	-2.000 to 20.000
Resolution (pH)	0.01	0.001
Relative accuracy (pH)	±0.01	±0.002
Range (mV)	-2000 to 2000	-2000.0 to 2000.0
Resolution (mV)	1	0.1/1
Relative accuracy (mV)	±1	±0.2
Temperature range(°C)	MTC: -5.0 to 105.0 °C ATC: -5.0 to 105.0 °C	MTC: -30.0 to 130.0 °C ATC: -5.0 to 130.0 °C
Temperature accuracy(°C)	±0.5 °C	±0.1 °C
Calibration	3 predefined pH buffer groups,automatic buffer recognition	3 predefined pH buffer groups,automatic buffer recognition
Database	500 groups measuring data	500 groups measuring data
Output	RS232, printer(optional),IS-Link	RS232, printer(optional),IS-Link
Display	5.0" color,touch screen, Resolution480x272	5.0" color,touch screen, Resolution480x272
Others	_____	_____

Ordering information

N.W./G.W.	0.7kg / 2.2kg	
Dimension(L*W*H)	24cm*18cm*8cm	
With packing dimension	38cm*30cm*10cm	
Configuration	IS126 pH meter,Electrode holder, YE203 3-in-1 pH combination electrode(Insmark), Protective cover,Specific power supply on request(see P31)	IS136 pH meter,Electrode holder, YE203 3-in-1 pH combination electrode(Insmark),Protective cover,Specific power supply on request(see P31)
Order number	85001116	85001136

Configuration (Meter only)	IS126 pH meter,Electrode holder, Protective cover, Specific power supply on request(see P31)	IS136 pH meter,Electrode holder, Protective cover, Specific power supply on request(see P31)
Order number	85051116	85051136



M-log version: IS128, IS139



- > Unique "M- log" function
- > Color touch screen
- > Operation as easy as you think

Model	IS128 M-log pH meter	IS139 M-log pH meter
Specifications		
Measuring mode	pH/mV/ORP	pH/mV/ORP
Range (pH)	-2.00 to 20.00	-2.000 to 20.000
Resolution (pH)	0.01/0.1	0.001/0.01/0.1
Relative accuracy (pH)	± 0.01	± 0.002
Range (mV)	-2000.0 to 2000.0	-2000.00 to 2000.00
Resolution (mV)	0.1/1	0.01/0.1/1
Relative accuracy (mV)	± 0.4	± 0.1
Temperature range(°C)	MTC: -5.0 to 105.0 °C ATC: -5.0 to 105.0 °C	MTC: -30.0 to 130.0 °C ATC: -5.0 to 130.0 °C
Temperature accuracy(°C)	± 0.1°C	± 0.1°C
Calibration	5 predefined pH buffer groups,automatic buffer recognition, user-definable buffers(1-5 points)	9 predefined pH buffer groups, automatic buffer recognition, user- definable buffer(1-9 points)
Database	2000 groups measuring data	2000 groups measuring data,10 electrode x 10 groups calibration points
Output	RS232,USB, printer(optional),IS-Link	RS232,USB,printer(optional),IS-Link,(barcode scanner is connectable for ID entry)
Display	5.0" color, touch screen,Resolution800x480	5" color, touch screen,Resolution800x480
Others	GLP function, continues measurement mode,dynamic curve display(pH vs.t; mV vs.t)	GLP function, continues measurement mode,dynamic curve display(pH vs.t; mV vs.t)

Ordering information

N.W./G.W.	0.7kg / 2.2kg	
Dimension(L*W*H)	24cm*18cm*8cm	
With packing dimension	38cm*30cm*10cm	
Configuration	IS128 pHmeter,Electrode holder, YE203 3-in-1 pH combination electrode(Insmark),Protective cover,Specific power supply on request(see P31)	IS139 pH meter,Electrode holder, YE203 3-in-1 pH combination electrode(Insmark),Protective cover,4G USB flash,Specific power supply on request(see P31)
Order number	85001128	85001139
Configuration(Meter only)	IS128 pH meter,Electrode holder,Protective cover,Specific power supply on request(see P31)	IS139 pH meter,Electrode holder,Protective cover,Specific power supply on request(see P31)
Order number	85051128	85051139



Conductivity meter

- > M-log version
- > Easy to operate
- > GLP, datastorage



ISE meter

- > M-log version
- > New way to operate:
edit → save → load
- > GLP, datastorage

Specifications		Model	IS228
Measuring method			Conductivity, Resistivity, TDS, Salinity, Temperature, Conductivity Ash
Measuring range	Conductivity		0.000 μ S/cm~1000mS/cm
	Resistivity		0.00~100.0M Ω .cm
	TDS		0.00 mg/L~1000 g/L
	Salinity		0.00~80.00psu
	Conductivity Ash		0.000~100%
	Temperature		MTC: -30.0 to 130.0 $^{\circ}$ C ATC: -5.0 to 130.0 $^{\circ}$ C
Resolution	Conductivity (Auto changing measurement range)		0.000 μ S/cm~1.999 μ S/cm
			2.00 μ S/cm~19.99 μ S/cm
			20.0 μ S/cm~199.9 μ S/cm
			200 μ S/cm~1999 μ S/cm
			2.00 mS/cm~19.99 mS/cm
			20.0 mS/cm~199.9 mS/cm
		200 mS/cm~1000 mS/cm	
	Resistivity		Auto changing measurement range, the same value as conductivity 0.00~1.0
	TDS		Auto changing measurement range, the same value as conductivity 0.01~1
	Salinity		Auto changing measurement range, the same value as conductivity 0.00~1.0
Conductivity Ash		0.00%	
Temperature		0.1 $^{\circ}$ C	
Accuracy	Conductivity		\pm 0.5% of reading
	Resistivity		\pm 0.5% of reading
	TDS		\pm 0.5% of reading
	Salinity		\pm 0.5% of reading
	Conductivity Ash		\pm 0.5% of reading
	Temperature		\pm 0.1 $^{\circ}$ C
Measure	Reference temperature settings		20 $^{\circ}$ C or 25 $^{\circ}$ C
	Temperature compensation mode		Linear, Non-linear, Off, Pure water
Calibration			1 point, built-in 10 groups standard resolution, 1 point user defined
Database			2000 groups data
Interface			RS232, USB, InsMark I Printer (Optional)
Display			5 inches touch screen, color LCD, Resolution 800x480
Electrode with ATC probe			Mini-DIN(Built-in NTC, 30k Ω)
Others			GLP mode

Ordering information

Configuration	IS228, Electrode holder, YE301 probe, Protective cover, standard solution (50ml*3), Specify power supply on request(see P31)
N.W./G.W.	0.7kg / 2.2kg
Dimension(L*W*H)	24cm*18cm*8cm
With packing dimension	38cm*30cm*10cm
Order number	85001228

Configuration(Meter only)	IS228, Electrode holder, Protective cover, Specify power supply on request(see P31)
Order number	85051228

Specifications		Model	IS339
Measuring method			pX, Ion concentration, mV, Temperature
Measuring range	pX		-2.000-20.000
	mV		-2000.00 to 2000.00
	Ion concentration & Unit		1.00E-9~9.99E+9 mg/L, g/L, mol/L, mmol/L
	Temperature		MTC: -30.0 ~ 130.0 $^{\circ}$ C ATC: -5.0 ~ 130.0 $^{\circ}$ C
	Resolution	pX	
	mV		0.01/0.1/1
	Ion concentration		0.1/0.01 /0.001
	Temperature		0.1 $^{\circ}$ C
Accuracy	pX		pXI: \pm 0.002pX; pXII: \pm 0.005pX
	mV		\pm 0.1
	Ion concentration		CI: \pm 0.3%; CII: \pm 0.5%
	Temperature		\pm 0.1 $^{\circ}$ C
Calibration			5 points
Measuring Methods			Direct test, Sample addition, Standard addition, Gran method
Database			2000 groups data
Interface			RS232, USB, InsMark I Printer (Optional)
Display			5 inches touch screen, color LCD, Resolution 800x480
Electrode Input			BNC
Temperature Input			NTC 30k Ω
Others			GLP mode

Ordering information

Configuration	IS339, Electrode holder, Pprotective cover, Specific power supply on request(see P31)
Optional Ion electrode	F ⁻ , Cl ⁻ , Na ⁺ , S ²⁻ , NH ₄ ⁺ , Ca ²⁺ , K ⁺ , NO ₃ ⁻
N.W./G.W.	0.7kg / 2.0kg
Dimension(L*W*H)	24cm*18cm*8cm
With packing dimension	38cm*30cm*10cm
Order number	85001339

Optional Accessories List

Accessories	Description		Order number
pH buffer	4.01 pH	1000ml	85300112
	6.86 pH	1000ml	85300113
	9.18 pH	1000ml	85300114
Conductivity Standard solution	111.3mS/cm	1000ml	85300115
	12.85mS/cm	1000ml	85300116
	1408 μ S/cm	1000ml	85300117
	146.5 μ S/cm	1000ml	85300118
ISE Standard solution	Cl ⁻ 1000mg/L	500mL	85300180
	Cl ⁻ 100mg/L	500mL	85300181
	Cl ⁻ 10mg/L	500mL	85300182
	Ca ²⁺ 1000mg/L	500mL	85300183
	Ca ²⁺ 100mg/L	500mL	85300184
	Ca ²⁺ 10mg/L	500mL	85300185
	Na ⁺ 1000mg/L	500mL	85300186
	Na ⁺ 100mg/L	500mL	85300187
	Na ⁺ 10mg/L	500mL	85300188
	F ⁻ 1000mg/L	500mL	85300189
	F ⁻ 100mg/L	500mL	85300190
	F ⁻ 10mg/L	500mL	85300191
	K ⁺ 1000mg/L	500mL	85300192
	CN ⁻ 1000mg/L	500mL	85300193
	NO ₃ ⁻ 1000mg/L	500mL	85300194
	S ²⁻ 1000mg/L	500mL	85300195
	Ag ⁺ 1000mg/L	500mL	85300196
	NH ₄ ⁺ 1000mg/L	500mL	85300197
	NH ₄ ⁺ 100mg/L	500mL	85300198
	Cu ²⁺ 1000mg/L	500mL	85300199
I ⁻ 1000mg/L	500mL	85300200	
Pb ²⁺ 1000mg/L	500mL	85300201	
Accessories	InsMark I printer		85300018
	Paper for printer	A set of 6 rolls	85300109
	Electrode holder		85300022
	In-use cover		85300023
	Is_link sw package	CD*1,cable*1 (data transfer to PC)	85300107



YE Series Lab Electrodes



YE Series Lab Electrodes

Type	Name	Description	Order No.
pH electrode	YE201	Plastic,BNC	85300024
	YE203	Plastic, with temp.probe(3 in 1), BNC	85300025
	YE601	Glass, BNC, for organic solvent	85300026
	YE603	Glass, with temp. probe(3 in 1), BNC, for organic solvent	85300027
	YE406	Plastic(PP),with temp.probe(3 in 1), BNC	85300093
	YE407	Plastic(PEEP),with temp.probe(3 in 1), BNC	85300094
	YE501	Glass, 0-14pH, 0-80°C, D:3×180mm, BNC, for small volume samples in centrifuge or PCR tube	85300088
	YE502	Glass, 0-14pH, 0-80°C, D:6×150mm, BNC, for samll volume samples	85300100
	YE401	Glass, BNC, for low ionic strength sample, e.g. water, boiler water, surface water, rainwater etc.	85300095
	YE409	Glass, with temp. probe(3 in 1),BNC, for low ionic strength sample, e.g. water, boiler water, surface water, rainwater etc.	85300204
	YE402	Glass, BNC, for low ionic strength, e.g .ultrapure water, purified water, etc.	85300096
	YE410	Glass, with temp. probe(3 in 1),BNC, for low ionic strength, e.g .ultrapure water, purified water, etc.	85300205
	YE403	Pin size, BNC, for solid or semisolid sample, e.g. cheese, meat, fish, soil, etc.	85300097
	YE411	Pin size, with temp. probe(3 in 1),BNC, for solid or semisolid sample, e.g. cheese, meat, fish, soil, etc.	85300206
	YE408	Pin size, metal cap,BNC, for solid or semisolid sample, e.g. cheese, meat, fish, soil, etc.	85300203
	YE414	Pin size, metal cap,with temp. probe(3 in 1),BNC, for solid or semisolid sample, e.g. cheese, meat, fish, soil, etc.	85300209
	YE404	Glass, BNC, for measuring viscous liquid, e.g. beer, jam, dairy products, sweet water, paint coating, etc.	85300098
	YE412	Glass, with temp. probe(3 in 1),BNC, for measuring viscous liquid, e.g. beer, jam, dairy products, sweet water, paint coating, etc.	85300207
	YE405	Flat surface electrode, BNC port, for measuring paper, textile, skin, wall coating, etc.	85300099
	YE413	Flat surface electrode, with temp. probe(3 in 1),BNC port, for measuring paper, textile, skin, wall coating, etc.	85300208
	YE-ORP1	Plastic,Combined ORP electrode	85300178
	YE-ORP2	Glass,Combined ORP electrode	85300179
	ATC	ATC temperature probe(-30~+100°C) (NTC 30KΩ)	85300101
Conductivity probe	YE301	4 pole cell, Mini-Din,general measurement, Range: 50μS/cm -200mS/cm	85300079
	YE302	2 plates, Mini-Din port, for low ionic strength sample,K=0.1 ,Range: 0.01μS/cm -200μS/cm	85300102
	YE303	2 plates,Mini-Din port, for measuring high conductivity liquids,K=10, Range: 200mS/cm -1000mS/cm	85300103
ISE electrode	YEF ⁻	Combined fluoride electrode, BNC, measuring F ⁻ . Range: 1mol/L~10 ⁻⁶ mol/L	85300072
	YECI ⁻	Combined chloride electrode, BNC, measuring Cl ⁻ . Range: 1mol/L~5*10 ⁻⁷ mol/L	85300073
	YENa ⁺	Combined sodium electrode, BNC, measuring Na ⁺ . Range: 1mol/L~10 ⁻⁶ mol/L	85300074
	YES ²⁻	Combined sulphide electrode, BNC, measuring S ²⁻ . Range: 10 ⁻¹ mol/L~5*10 ⁻⁷ mol/L	85300075
	YENH ₄ ⁺	Combined ammonium electrode, BNC, measuring NH ₄ ⁺ . Range: 1mol/L~10 ⁻⁵ mol/L	85300076
	YECa ²⁺	Combined calcium electrode, BNC port, measuring Ca ²⁺ . Range: 10 ⁻¹ mol/L~10 ⁻⁵ mol/L	85300077
	YEK ⁺	Combined potassium electrode, BNC port, measuring K ⁺ . Range: 1mol/L~10 ⁻⁶ mol/L	85300078
	YENO ₃ ⁻	Combined nitrate electrode, BNC, measuring NO ₃ ⁻ . Range: 1mol/L~10 ⁻⁵ mol/L	85300084
	YEAg ⁺	Combined nitrate electrode, BNC, measuring Ag ⁺ . Range: 10 ⁻¹ mol/L~5*10 ⁻⁷ mol/L	85300176
	YECN ⁻	Combined nitrate electrode, BNC, measuring CN ⁻ . Range: 10 ⁻² mol/L~5*10 ⁻⁷ mol/L	85300177
	YEF ₃ ³⁺	Combined nitrate electrode, BNC, measuringFe ³⁺ Range: 10 ⁻² mol/L~7*10 ⁻⁶ mol/L	85300202

InsMark solution for Food & Drug application

How to Select?

InsMark FD series product package, unique solution

- 1, Instrument as "Host", more safe and compact
- 2, 2 level software for different Lab needs
- 3, InsMark printer included, hard copy is simultaneously available



Instruments used in Food & Drug industries, need to fulfill strict regulation, such as 21CFR. In conclusion 4 types requirements:

- > User Management
- > Data Tracibility
- > Audit Trails
- > Data safety in output and storage



IP-digiFD Series Polarimeters

(Fully fulfilled 21CFR ,GLP ,GMP)

2 level software configuration:

- > Standard FD Version for general use
- > Professional FD+ version for large Lab use

Specification		Model	IP-digi1FD	IP-digi1FD+	IP-digi2FD	IP-digi2FD+	IP-digi7FD+	IP-digi8FD+
Measurement parameters			Same as IP-digi series , refer to Page6					
21CFR Electronic Features	User Management	No. of users	10	50	10	50	50	50
		User entry password	Yes	Yes	Yes	Yes	Yes	Yes
		User level	2	4	2	4	4	4
	Data management	Data processing	PW protection	PW protection	PW protection	PW protection	PW protection	PW protection
		PW reminder	Yes	Yes	Yes	Yes	Yes	Yes
		Measuring mode	20,editable	200,editable	20,editable	200,editable	200,editable	200,editable
		Discarded method database	100 Groups data	1000 Groups data	100 Groups data	1000 Groups data	1000 Groups data	1000 Groups data
		Filed measurement database	1000 Groups data	100000 Groups data	1000 Groups data	100000 Groups data	100000 Groups data	100000 Groups data
		Discarded measurement	250 Groups data	10000 Groups data	250 Groups data	10000 Groups data	10000 Groups data	10000 Groups data
	Safe guard in data transmission	Audit trail database	10000 Groups data	1000000 Groups data	10000 Groups data	1000000 Groups data	1000000 Groups data	1000000 Groups data
Software to PC with protector		Provided	Provided	Provided	Provided	Provided	Provided	
Data format		PDF	PDF,excel,MD5 verify	PDF	PDF,excel,MD5 verify	PDF,excel,MD5 verify	PDF,excel,MD5,verify	
Additional features for 21CFR		On-line printing	Yes	Yes	Yes	Yes	Yes	Yes
		Database printing	Yes	Yes	Yes	Yes	Yes	Yes
Easy mode		Quick measurement (no need data storage)	Yes	Yes	Yes	Yes	Yes	Yes
Ordering Information								
N.W. / G.W.			30Kg / 33Kg	30Kg / 33Kg	33Kg / 36Kg	33Kg / 36Kg	30Kg / 33Kg	34Kg / 38Kg
Dimension(L*W*H)			72*37*24cm(instrument),25*16*14cm(printer)					
With packing dimension			88*59*42cm(instrument),39*22*22cm(printer)					
Configuration			IP-digi1FD,printer 200mm*1(glass tube) 100mm*1(glass tube) Data tranfer safety SW Power cord from Page31	IP-digi1FD+,printer 200mm*1(glass tube) 100mm*1(glass tube) Data tranfer safety SW Power cord from Page31	IP-digi2FD ,printer 200mm*1(glass tube) 100mm*1(T.controlled metal tube) Syringe,Brush Data tranfer safety SW Power cord from Page31	IP-digi2FD+ ,printer 200mm*1(glass tube) 100mm*1(T.controlled metal tube) Syringe,Brush Data tranfer safety SW Power cord from Page31	IP-digi7FD+ ,printer 200mm*1(glass tube) 100mm*1(glass tube) Data tranfer safety SW Power cord from Page31	IP-digi8FD+ ,printer 200mm*1(T.controlled metal tube) 100mm*1(T.controlled metal tube) Syringe,Brush Data tranfer safety SW Power cord from Page31
Order number			85001635	85001639	85001636	85001640	85001637	85001638



IR100FD Series Automatic Refractometers

(Fully fulfilled 21CFR ,GLP ,GMP)

2 level software configuration:

> Standard FD Version for general use

> Professional FD+ version for large Lab use

Specification		Model	IR120FD	IR120FD+	IR140FD	IR140FD+	IR180FD+
Measurement parameters		Same as IR100 series , refer to Page12					
Calibration		1 point calibration			1 point calibration or up to 5 points calibration		
21CFR Electronic Features	User Management	No. of users	10	50	10	50	50
		User entry password	Yes	Yes	Yes	Yes	Yes
		User level	2	4	2	4	4
	Data management	Data processing	PW protection	PW protection	PW protection	PW protection	PW protection
		PW reminder	Yes	Yes	Yes	Yes	Yes
		Measuring mode	100,editable	200,editable	100,editable	200,editable	200,editable
		Discarded method database	100 Groups data	1000 Groups data	100 Groups data	1000 Groups data	1000 Groups data
		Filtered measurement database	1000 Groups data	100000 Groups data	1000 Groups data	100000 Groups data	100000 Groups data
	Safe guard in data transmission	Discarded measurement database	250 Groups data	10000 Groups data	250 Groups data	10000 Groups data	10000 Groups data
		Audit trail database	10000 Groups data	1000000 Groups data	10000 Groups data	1000000 Groups data	1000000 Groups data
Software to PC with protector		Provided	Provided	Provided	Provided	Provided	
Additional features for 21CFR	Data format	PDF	PDF,excel,MD5 verify	PDF	PDF,excel,MD5 verify	PDF,excel,MD5 verify	
	On-line printing	Yes	Yes	Yes	Yes	Yes	
Easy mode	Database printing	Yes	Yes	Yes	Yes	Yes	
	Quick measurement	Yes	Yes	Yes	Yes	Yes	
Ordering Information							
N.W. / G.W.		6kg / 7kg					
Dimension(L*W*H)		36*24*15cm(instrument),25*16*14cm (printer)					
With packing dimension		51*40*29cm(instrument),39*22*22cm (printer)					
Configuration		IR120FD ,Printer Data transfer safety SW Power cord from Page31	IR120FD+ ,Printer Data transfer safety SW Power cord from Page31	IR140FD ,Printer Data transfer safety SW Power cord from Page31	IR140FD+ ,Printer Data transfer safety SW Power cord from Page31	IR180FD+ ,Printer Data transfer safety SW Power cord from Page31	
Order number		85000053	85001001	85000054	85001002	85000055	



IS139FD pH meter
IS228FD Conductivity meter



Standard FD version only

Specifications		Model	IS139FD pH meter	IS228FD Conductivity meter NEW
Measuring mode			pH/mV/ORP	Conductivity, Resistivity, TDS, Salinity, Temperature, Conductivity Ash
Range (pH)			-2.000 to 20.000	0.000 μ S/cm ~ 1000mS/cm Specific reference shows range
Resolution (pH)			0.001/0.01/0.1	0.001 ~ 1
Relative accuracy (pH)			\pm 0.002	\pm 0.5%
Range (mV)			-2000.00 to 2000.00	0.00~100.0M Ω ·cm Specific reference shows range
Resolution (mV)			0.01/0.1/1	0.001 ~ 1
Relative accuracy (mV)			\pm 0.1	N/A
Temperature range(°C)			MTC: -30.0 to 130.0 °C ATC: -5.0 to 130.0 °C	MTC: -30.0 to 130.0 °C ATC: -5.0 to 130.0 °C
Temperature accuracy(°C)			\pm 0.1°C	\pm 0.1°C
Calibration			9 predefined pH buffer groups, automatic buffer recognition, user- definable buffer(1-9 points)	1 point, built-in 10 groups standard resolution, 1 point user defined
Display			5" color, touch screen,Resolution800x480	5" color, touch screen,color LCD,Resolution800x480
21CFR Electronic Features	User Management	No. of users	10	10
		User entry password	Yes	Yes
		User level	2	2
	Data management	Data processing	PW protection	PW protection
		PW reminder	Yes	Yes
		Electrode calibration database	100 Groups data	100 Groups data
		Filtered measurement database	1000 Groups data	1000 Groups data
	Safe guard in data transmission	Discarded measurement database	250 Groups data	250 Groups data
		Audit trail database	10000 Groups data	10000 Groups data
		Software to PC with protector	Provided	Provided
		Data format	PDF	PDF
Additional features for 21CFR		On-line printing	Yes	Yes
		Database printing	Yes	Yes
Easy mode		Quick measurement (no need data storage)	Yes	Yes
N.W. / G.W.			4Kg / 7Kg	4Kg / 7Kg
Dimension(L*W*H)			17*23*7cm(instrument),25*16*14cm(printer)	17*23*7cm(instrument),25*16*14cm(printer)
With packing dimension			40*33*33cm	40*33*33cm
Configuration			IS139FD pH meter,InsMark printer, Electrode holder, YE203 3-in-1 pH combination electrode(Insmark), Protective cover Data transmission software Identify your power cord from Page31	IS228FD Conductivity meter,InsMark printer, Electrode holder, Insmark tetracyclik electrode YE301, YE302(for pure water),protective cove,standard solution (50ml*3) Data transmission software Specific power supply on request(seeP31)
Order number			85001164	85001231

UV/VIS spectrophotometer 300FD series



Hot sale!

Traditional PC no longer in operation.
With powerful software, instrument can
do more. Automatic measurement for
8 cuvettes, a QC lab power horse.

Professional FD+ version

Specification		Model	UV300/XFD+	UV300/1FD+	UV300/2FD+
Spectral Bandwidth			Variable (1,1.5,2nm)	1nm	2nm
Optical system			Double beam		
Wavelength	range		190-1100nm		
	accuracy		±0.1nm(656.1nm),±0.3nm(whole range)		
	repeatability		≤0.2nm		
	setting		Automatic		
	resolution		0.1nm		
Photometric	range		0~200%T,-4~4A,0~9999C,0~9999F		
	accuracy		±0.002A(0~0.5A),±0.004A(0.5~1A),±0.3%T(0~100%T)		
	repeatability		≤0.001A(0~0.5A),≤0.002A(0.5~1A),≤0.1%T(0~100%T)		
Baseline	drift		≤0.0004A/h(500nm,OA)		
	flatness		±0.0015A		
Stray light			≤0.05%T(220/360nm)		
Noise			±0.1%T(0%T),±0.2%T(100%T),±0.0004A(500nm)		
Light source			Tungsten lamp & D2 lamp		
Detector			Silicon photodiodes		
Display			8inch color touch screen, 800*600 pixel		
Data output port			USB,RS232		
Power requirements			AC 90-250V,50/60Hz		
21CFR Electronic Features	User Management	No. of users	50		
		User entry password	Yes		
		User level	4		
	Data management	Data processing	PW protection		
		PW reminder	Yes		
		Measuring mode	200,editable		
		Discarded method database	1000 Groups data		
		Filed measurement database	100000 Groups data		
	Safe guard in data transmission	Discarded measurement database	10000 Groups data		
		Audit trail database	1000000 Groups data		
Additional features for 21CFR	Software to PC with protector	Provided			
	Data format	PDF,excel,MD5 verify			
Easy mode	On-line printing	Yes			
	Database printing	Yes			
Ordering Information	Quick measurement	Yes			
N.W. / G.W.			25Kg / 28Kg		
Dimension(L*W*H)			67*60*28cm(instrument),25*16*14cm (printer)		
With packing dimension			84*77*44cm(instrument),39*22*22cm (printer)		
Configuration			UV300/XFD+,printer 8 cell auto cuvette holder 10mm Quartz cuvette*2 10mm Glass cuvette*8 Data tranfer safety SW Power cord	UV300/1FD+,printer 8 cell auto cuvette holder 10mm Quartz cuvette*2 10mm Glass cuvette*8 Data tranfer safety SW Power cord	UV300/2FD+,printer 8 cell auto cuvette holder 10mm Quartz cuvette*2 10mm Glass cuvette*8 Data tranfer safety SW Power cord
Order number			85001713	85001715	85001716



InsMark PCR Thermal Cycler

- > Standard 96 wells sample capacity
- > 6 temperature control units for gradient module
- > Up to 2000 protocols storage
- > 7" color touch screen, friendly user interface
- > Intuitive setting program
- > Ideal powerhouse for heavy duty lab use

Specification	Model	TCG-96
Type		Gradient
Thermoblock		Aluminum
Sample capability		0.2ml*96
Reaction volume range		10~80ul
Max block ramp rate		3°C/s
Master mix reagent compatibility		Yes
Temperture control units		6 seperated blocks
Gradient range		25°C
Temperature range		9.9-99.9°C
Temperature accuracy		± 0.25°C
Uniformity		± 0.6°C
Display		7" color LCD touch screen
Communication interface		RS232, RS485
Storage		2000 protocols, TF card
Power requirement		AC90-250V, 50/60Hz

Ordering Information

N.W. / G.W.	12Kg/15Kg
Dimension(L*W*H)	38×52×25cm
With packing dimension	64×50×32cm
Order number	85001551

Ordering information:

pH/Cond./ISE/ultramicro-spectrophotometer

Step 1:choose power supply

	EU	US	UK	AU
Plug				
Part number	88100030	88100031	88100032	88100033





Step 2 :Combine your order package (only for pH/Cond./ISE):

Product	Standard small box	Dimension	Remark
All Meter	1 unit	38*30*10cm	1/6 of carton
All Probe	5 probes	38*30*10cm	1/6 of carton

* **Strongly recommended to combine 6 standard boxes in one order.**

* **Minimum order 1 carton:62*40*32cm**

Refractometer/IP-Manual polarimeter/spectrophotometer/PCR

	EU	US	UK	AU
Plug				
Part number	88100026	88100028	88100027	88100029

IP-digi polarimeter

Plug Part number V/Hz	EU	US	UK	AU
				
100V~120V/50Hz	88100034	88100035	88100036	88100037
100V~120V/60Hz	88100038	88100039	88100040	88100041
220V~240V/50Hz	88100042	88100043	88100044	88100045
220V~240V/60Hz	88100046	88100047	88100048	88100049



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