



BEARING & TOOL CENTRE



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Our Sister Concern : RELIEF SERVICE CENTRE

Repairs, Removal of Jaw Error, Bore Gauge Extension, Instrument Modifications & Spares

Quotation

163 | Microscope – **Insize** Make

Type	Digital	High Mag.	Long Focus Dist.	Wireless	Portable Meas.
Magnification	10x-200x	450x-600x	35x-160x	10x-200x	100x
Rs.	20303	25590	26735	17093	11417
Code (ISM)	PM200SB	PM600SB	PM160LA	WF200	PM100
Catalog	Page No. - 2	Page No. - 2	Page No. - 2	Page No. - 4	Page No. - 3

Type	Zoom Stereo	Zoom Stereo	Metallurgical	Metallurgical
Dimension (LxWxH) – mm	310x250x420	120x200x300	385x300x440	450x300x350
Rs.	89724	76162	133340	172785
Code (ISM)	ZS50T	ZS50	M1000	M600-P
Catalog	Page No. - 6	Page No. - 6	Page No. - 8	Page No. - 9

*** Warranty – 6 Months , Certificate - No

Terms & Conditions –

- Goods offered - Subject to Prior Sale
- Price Validity: "15 Days from Date of Quotation"
- C.S.T 2% extra against form C. Otherwise 5% without form C For Out of Gujarat Sales only.
- VAT 5% extra for Sales within Gujarat. Prices Ex-Godown Ahmedabad.
- Payment against Proforma Invoice, Packing, Forwarding & Freight extra.
- **Bank Detail** – Kotak Mahindra Bank Ltd.
- **Branch** – Shivranjini
- **Bank IFSC Code** - KKBK 0000 810
- **Bank Account No.** 08102 00000 2689
- Note - While making payment online do mention your Company's name.
- TIN NO 24070901229 , CST No. 24570901229
- We are looking forward to your valued orders.

INSIZE MAKE

DIGITAL MEASURING MICROSCOPE

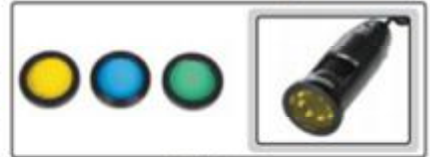
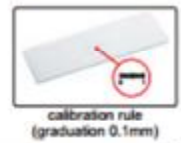
- Can take pictures and videos
- Supplied with software



stand (included)



ISM-PM200SB



SPECIFICATION

Code	ISM-PM200SB	ISM-PM600SB	ISM-PM160LA
Magnification	10X-200X	450X-600X	35X-160X
Type	short focus distance	short focus distance	long focus distance
Focus support	included	not included	not included
Calibration rule	graduation 0.1 and 1mm	graduation 0.1mm	graduation 0.1 and 1mm
Pixel	2M (resolution: 1600×1200)		
Illumination	built-in adjustable LED		
Power supply	USB 2.0 cable (voltage required: 5±0.1V)		

OPTIONAL ACCESSORY

Green filter	ISM-PM-GREEN
Yellow filter	ISM-PM-YELLOW
Blue filter	ISM-PM-BLUE

MAGNIFICATION, FOCUS DISTANCE, VIEW FIELD AND ACCURACY

ISM-PM200SB				ISM-PM600SB				ISM-PM160LA			
Magnification	Focus distance	View field (mm)	Accuracy	Magnification	Focus distance	View field (mm)	Accuracy	Magnification	Focus distance	View field (mm)	Accuracy
50X	21mm	8.1×6.4	30µm	450X	1.4mm	0.85×0.67	6µm	50X	62mm	8.1×6.4	30µm
100X	13mm	3.9×3.1	15µm	500X	5.5mm	0.78×0.61	6µm	100X	45mm	3.9×3.1	15µm
150X	16mm	2.6×2.1	10µm	550X	8.6mm	0.69×0.55	5µm	160X	50mm	2.4×1.9	10µm
200X	19mm	1.8×1.5	8µm	600X	11.5mm	0.63×0.51	5µm				

SOFTWARE

- Language: English, Japanese, Korean, German, Turkey, Portuguese, Chinese
- Operation system: Windows 7/8/XP/Vista
- Measuring tools:

- | | | | |
|--|---|--|--|
| | measure length of line or distance between two points | | measure distance between point and line |
| | measure area of rectangle | | measure length of continuous line |
| | measure radius, length and angle of arc | | measure angle with three points |
| | measure distance between two parallel lines | | measure radius, girth and area of circle |
| | measure angle with two lines | | add number with circle |
| | measure distance between two circles | | add text |

Edge detection measurement:

- detect line automatically, and calculate length
- detect arc automatically, and calculate radius, angle and arc length
- detect circle automatically, and calculate radius, girth and area
- detect two parallel lines automatically and calculate distance
- detect two lines automatically, and calculate angle



Comparison:

Create line, angle or circle with desired size, to compare with workpieces



Data export to CAD or Excel:



PORTABLE MEASURING MICROSCOPE



SPECIFICATION

Code	ISM-PM20	ISM-PM40	ISM-PM50	ISM-PM100
Total magnification	20X	40X	50X	100X
Eyepiece	10X with graduation	10X with graduation	10X with graduation	10X with graduation
Objective (achromatic)	2X (numerical aperture: 0.05)	4X (numerical aperture: 0.1)	5X (numerical aperture: 0.12)	10X (numerical aperture: 0.25)
Working distance	17.2mm	18mm	17.6mm	7mm
Graduation	0.05mm	0.025mm	0.02mm	0.01mm
Viewing field	Ø9mm	Ø4.5mm	Ø3.6mm	Ø1.8mm
Focus range	30mm			
Illumination	LED light			
Diameter of base	Ø63mm			
Height	210mm			
Weight	650g			

STANDARD DELIVERY

Main unit	1pc
Pen light	1pc
Battery (AAA)	2pcs

WiFi DIGITAL MEASURING MICROSCOPE CODE ISM-WF200



calibration rule (graduation 1mm)



calibration rule (graduation 0.1mm)

- Maximum working distance is 5m under WiFi mode
- Can be connected to multiple iPads, Android devices or computers at the same time under WiFi mode
- Take pictures and videos
- Supplied with software

SPECIFICATION

Magnification	10X~200X
Pixel	1.3M (resolution: 1280×1024)
Illumination	built-in adjustable LED
Power supply	built-in rechargeable battery

STANDARD DELIVERY

Microscope	1pc
Base support	1pc
Focus support ring for 80X/150X	1pc
Focus support ring for 60X/200X	1pc
Calibration rule (graduation 0.1mm)	1pc
Calibration rule (graduation 1mm)	1pc
USB cable and software	1pc
AC/DC adapter	1pc

OPTIONAL ACCESSORY

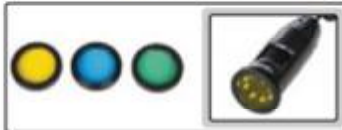
Stand	ISM-WSTD
Green filter	ISM-PM-GREEN
Yellow filter	ISM-PM-YELLOW
Blue filter	ISM-PM-BLUE



STAND (code: ISM-WSTD, optional)



FILTER(optional)



connected to iPad by WiFi



connected to Android device by WiFi



connected to computer by WiFi



connected to computer by USB cable

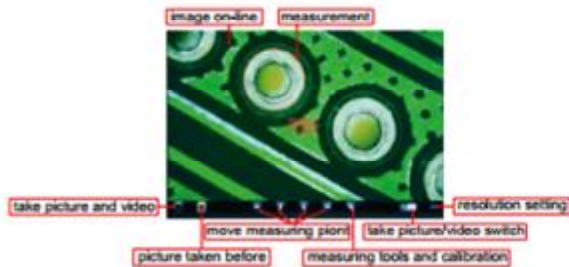
MAGNIFICATION, FOCUS DISTANCE, VIEW FIELD AND ACCURACY

Magnification	Focus distance	View field	Accuracy
50X	21mm	8.1×6.4mm	30μm
100X	13mm	3.9×3.1mm	15μm
150X	16mm	2.6×2.1mm	10μm
200X	19mm	1.8×1.5mm	8μm

1 Software ISM-PAD (for iPad by WiFi)

Measuring tools:

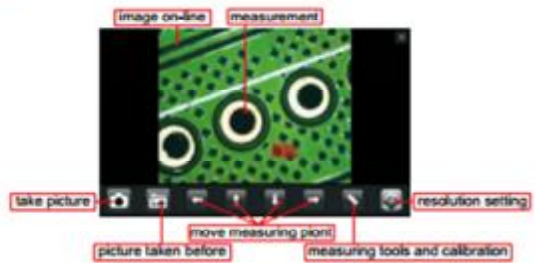
- measure length of line or distance between two points
- measure angle
- measure radius, girth and area of circle with three points



2 Software ISM-APK (for Android devices by WiFi)

Measuring tools:

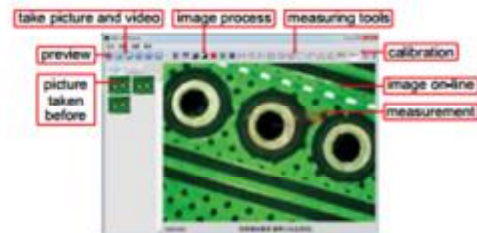
- measure length of line or distance between two points
- measure angle
- measure radius, girth and area of circle with three points



3 Software ISM-WF Partner (for computer by WiFi)

Measuring tools:

- measure length of line or distance between two points
- measure area of polygon
- measure angle with three points
- measure radius, girth and area of circle with center point
- measure length of continuous line
- measure radius, girth and area of circle with three points
- measure angle with two lines
- measure radius, girth and area of circle with two points
- measure distance between point and line
- measure radius, length and angle of arc
- measure area of rectangle















To be continued

Continued from previous page






4 Software ISM-PRO (for computer by USB cable)

Measuring tools:

-  measure length of line or distance between two points
-  measure length of continuous line
-  measure radius, length and angle of arc
-  measure distance between two circles
-  measure distance between two parallel lines
-  measure radius, girth and area of circle
-  measure distance between point and line
-  measure area of rectangle
-  measure angle with three points
-  add text
-  measure angle with two lines
-  add number with circle



Edge detection measurement:

-  detect line automatically, and calculate length
-  detect arc automatically, and calculate radius, angle and arc length
-  detect circle automatically, and calculate radius, girth and area
-  detect two parallel lines automatically and calculate distance
-  detect two lines automatically, and calculate angle

Comparison:

Create line, angle or circle with desired size, to compare with workpieces



Data export to CAD or Excel:



ZOOM STEREO MICROSCOPE

SPECIFICATION

Code	ISM-ZS30
Optical tube	binocular
Eyepiece (wide field)	10X (view field: Ø20mm)
Objective	1X~4.5X (zoom)
Zoom ratio	1:4.5
Pupil distance	55~75mm (adjustable)
Diopter adjustment	±5 diopter (two eyepieces)
Working distance of objective	97mm
Max. workpiece height	147mm
Illumination	adjustable reflected and transmitted LED light
Power supply	110/220V, 50/60Hz
Dimension (L×W×H)	260×190×400mm
Weight	4.3kg



STANDARD DELIVERY

Main unit	1pc
WF 10X eyepiece	2pcs
Ø95mm glass plate	1pc
Ø95mm white/black plate	1pc
Anti-dust cover	1pc

OPTIONAL ACCESSORY

Auxiliary objective	0.5X	ISM-ZS30-OB05X
	0.63X	ISM-ZS30-OB06X
	0.75X	ISM-ZS30-OB07X
	2X	ISM-ZS30-OB2X
Eyepiece	10X dividing eyepiece (0.1mm/div.)	ISM-ZS30-EPD10X
	WF15X (view field: Ø16mm)	ISM-ZS50-EP15X
	WF20X (view field: Ø12mm)	ISM-ZS50-EP20X
Digital camera		ISM-D500

ZOOM STEREO MICROSCOPE

SPECIFICATION

Code	ISM-ZS50	ISM-ZS50T
Optical tube	binocular	trinocular
Eyepiece (wide field)	10X (view field: Ø22mm)	
Objective	0.8X~5X (zoom)	
Zoom ratio	1:6.3	
Pupil distance	55~75mm (adjustable)	
Diopter adjustment	±5 diopter (two eyepieces)	
Working distance of objective	115mm	
Max. workpiece height	215mm	
Illumination	adjustable reflected and transmitted LED light	
Power supply	110/220V, 50/60Hz	
Dimension (L×W×H)	290×260×480mm	
Weight	4.9kg	



ISM-ZS50

STANDARD DELIVERY

Main unit	1pc
WF 10X eyepiece	2pcs
Ø100mm glass plate	1pc
Ø100mm white/black plate	1pc
Anti-dust cover	1pc

OPTIONAL ACCESSORY

Auxiliary objective	0.5X	ISM-ZS50-OB05X
	2X	ISM-ZS50-OB2X
Eyepiece	10X dividing eyepiece (0.1mm/div.)	ISM-ZS50-EPD10X
	WF15X (view field: Ø16mm)	ISM-ZS50-EP15X
	WF20X (view field: Ø12mm)	ISM-ZS50-EP20X
Digital camera		ISM-D500

METALLURGICAL MICROSCOPE

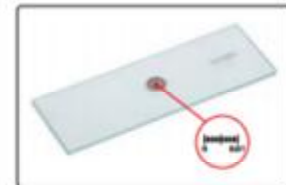
CODE ISM-M2000



- For high magnification observation and metallurgical image analysis
- Infinite optical system, can add optical accessories like polarizer, analyzer, DIC(code ISM-M2000-DIC) into optical path without image quality influence
- Objective can be used in both bright field and dark field
- Kohler illumination system provides uniform illumination field
- Three working modes: 100% eyepiece observation, 100% camera observation, both eyepiece and camera observation (80% illuminance for camera and 20% illuminance for eyepiece)



adapter 0.5X (included)



calibration rule (graduation 0.01mm)

SPECIFICATION

Eyepiece (wide field)	10X (view field: Ø22mm)				
Objective (plan achromatic)	5X (included)	10X (included)	20X (included)	50X (included)	100X (included)
Numerical aperture	0.12	0.25	0.40	0.75	0.90
Working distance	10mm	10mm	5mm	1.3mm	0.7mm
Stage	double layer, size: 160×140mm, travel: 75×50mm (graduation: 0.1mm)				
Kohler illumination	12V/50W halogen lamp, brightness is adjustable with polarizer and analyzer, built-in green, yellow, blue, gray and frosted glass				
Pupil distance	48 – 75mm				
Diopter adjustment	±5 diopter (two eyepieces)				
Power supply	110/220V, 50/60Hz				
Dimension (L×W×H)	647×268×376mm				
Weight	12kg				

STANDARD DELIVERY

Main unit	1pc
10X dividing eyepiece (0.1mm/div.)	1pc
Calibration rule (graduation 0.01mm)	1pc
Camera adapter	1pc
Adapter 0.5X	1pc
Anti-dust cover	1pc

OPTIONAL ACCESSORY

15X eyepiece (view field: Ø16mm)	ISM-M2000-15X
20X eyepiece (view field: Ø12mm)	ISM-M2000-20X
DIC	ISM-M2000-DIC
Metallurgical image analysis software and camera	ISM-MAS100

HIGH MAGNIFICATION MICROSCOPE CODE ISM-M600**



- For high magnification observation
- Reflected and transmitted illumination can work at the same time
- Objectives 40X, 60X are spring type



SPECIFICATION

Eyepiece (wide field)	10X (view field: Ø18mm)				
Objective (plan achromatic)	5X	10X	20X	40X	60X
Numerical aperture	0.12	0.25	0.40	0.60	0.75
Working distance	18.4mm	8.8mm	8.6mm	3.7mm	1.34mm
Stage	double layer with sample clamp size: 160×140mm travel: 75×50mm (graduation: 0.1mm)				
Pupil distance	53~75mm				
Diopter adjustment	±5 diopter (one eyepiece)				
Illumination	reflected and transmitted: 6V/20W halogen lamp, brightness is adjustable				
Dimension (L×W×H)	450×300×350mm				
Weight	11kg				

** Add "-P" on code No. when power supply is 220V, 50/60Hz
Add "-U" on code No. when power supply is 110V, 50/60Hz

STANDARD DELIVERY

Main unit	1pc
Anti-dust cover	1pc
Filter (blue/green/frosted glass)	1pc of each

OPTIONAL ACCESSORY

Objective	PL80X	ISM-MTM-OB80X
	PL100X (dry type)	ISM-MTM-OB100X
10X dividing eyepiece (0.1mm/div.)	ISM-MTM-EPD10X	
WF16X eyepiece	ISM-MTM-EP16X	
WF20X eyepiece	ISM-MTM-EP20X	
Camera adapter (1X)	ISM-M600-ADAPTER	
Digital camera	ISM-D500	

HIGH MAGNIFICATION MICROSCOPE CODE ISM-M1000**

- For high magnification observation
- Kohler illumination system provides uniform illumination field
- Objectives 20X, 40X, 100X are spring type

STANDARD DELIVERY

Main unit	1pc
Oil for 100X objective	1bottle
Anti-dust cover	1pc
Filter (blue/green/yellow)	1pc of each



SPECIFICATION

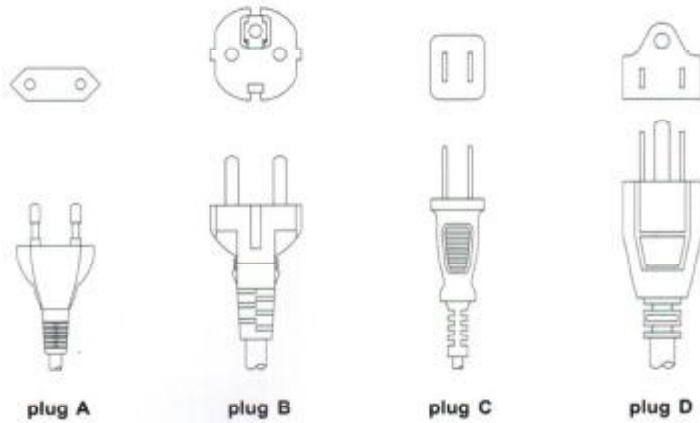
Eyepiece (wide field)	10X (view field: Ø18mm)			
Objective (plan achromatic)	10X	20X	40X	100X (oil type)
Numerical aperture	0.25	0.40	0.60	1.25
Working distance	8.8mm	8.6mm	3.3mm	0.33mm
Stage	double layer size: 180×150mm travel: 15×15mm			
Pupil distance	53~75mm			
Diopter adjustment	±5 diopter (one eyepiece)			
Illumination	6V/20W halogen lamp			
Power supply	220V, 50/60Hz **			
Dimension (L×W×H)	385×300×440mm			
Weight	11kg			

OPTIONAL ACCESSORY

Objective	PL50X	ISM-MTM-OB50X
	PL60X	ISM-MTM-OB60X
	PL80X	ISM-MTM-OB80X
	PL100X (dry type)	ISM-MTM-OB100X
10X dividing eyepiece (0.1mm/div.)	ISM-MTM-EPD10X	
WF16X eyepiece	ISM-MTM-EP16X	
WF20X eyepiece	ISM-MTM-EP20X	
Camera adapter (1X)	ISM-M1000-ADAPTER	
Digital camera	ISM-D500	

** Add "-U" on code No. when power supply is 110V, 50/60Hz

SUFFIX



- Add suffix on code No. to devote AC voltage and plug, such as ISP-Z3015B-P and ISP-Z3015B-U

Code	Page	Suffix	
		voltage: 220V plug A or B	voltage: 110V plug C or D
ISM-WM200	N6	-P	-U
ISM-DL120	N8	-P	-U
ISM-ZS45	N9	-P	-U
ISM-ZS45T	N9	-P	-U
ISM-S40	N10	-P	-U
ISM-M1000	N11	-P	-U
ISM-M600	N12	-P	-U
ISV-E55	Q1	-P	-U
ISV-E55B	Q2	-P	-U
ISV-MUE55	Q4	-P	-U
ISV-1000D	Q6	-P	-U
ISL-DR2	R1	-P	-U
ISL-DR3	R1	-P	-U
ISP-Z3015B	R6	-P	-U
ISH-MR150	S2	-P	-U
ISH-DR150	S3	-P	-U
ISH-TDV2000	S4	-P	-U
ISH-BRV	S5	-P	-U
ISH-PHA	S6	-P	-U
ISH-SPHA	S7	-P	-U
ISH-SPHD	S9	-P	-U
ISF-DF	T2	-P	-U
IST-M	U1	-P	-U