


sisco

# 7 in 1 MK2301

## MULTI-FUNCTION MEASURING INSTRUMENT

### Product characteristics and applications


- 1, Accurate measurement drilling worry-free, stable performance, safe and reliable.
- 2, The first multifunctional measuring instrument on the market that integrates laser ranging, wall detection, moisture measurement, measuring pen, cross laser, level detection, thermal imaging, etc. One is worth seven, fully functional and easy to carry
- 3, Touch color screen display, voice broadcasting, user-friendly interactive interface, easy to operate.
- 4, Large metal detection depth, and can digitally display the depth value, can distinguish wood boundary and center
- 5, Instead of tape measure, one person operation, can be used in topographic survey, engineering survey, house decoration survey, bridge construction survey, water level monitoring, etc. It also detects metals (iron and non-ferrous, such as non-ferrous), wooden beams and live cables hidden in walls, ceilings and floors. The walls, ceilings and floors referred to are conventional concrete, tiles and boards.




Single measurement




Multiple measurements




Addition measurement




Subtraction measurement




Area measurement



Volume measurement



One Pythagorean measurement



Double Pythagorean measurement

Laser ranging function

Cross laser function

Electric pen measuring function

Electronic level function


Moisture measurement function

Wall detection function

Thermal imaging function















### Application field

Mainly used for decoration, office decoration and other fields, positioning the steel and wood wires in the wall, to achieve the purpose of safety drilling nails, as well as for terrain survey, bridge erection, ballistic analysis, building measurement, interior decoration layout and other need to measure the distance, length, area of the occasion, heat source search, car maintenance.



MULTI-FUNCTION MEASURING  
INSTRUMENT  
**MK2301**

Multifunctional measuring instrument MK2301A, MK2301B MK2301AG MK2301BG (Note MK2301A/B cross red light, MK2301AG/BG cross green light, A version can be connected to the external thermal imaging module, B version cannot be connected to the thermal imaging module)

Detection function parameter	
Maximum probe depth	
Ferrous metals	100mm
Non-ferrous (Copper)	80mm
Copper wires (≥4mm²)	40mm
Wooden batten	20mm/38mm
Working humidity range:	
Metal mode	0-85%RH
Foreign body mode	0-60%RH



Thermal imaging technical parameters				
Temperature				
Temperature measuring range		Can measure -20℃ ~+1000℃		
Accuracy		±3K or ±3%, Take the maximum value (this accuracy is only applicable to the ambient temperature of 15-50℃ ,The temperature of the measured object is 15-200℃ ).		
Emissivity		Default 0.95 (adjustable 0.01-1)		
Background reflection temperature compensation		Yes		
Radiation coefficient correction		Yes		
Imaging performance				
Response time		250ms	Visible light lens	Three hundred thousand pixels
Thermal sensitivity		200mk	Focusing mode	fix
Frame frequency		9Hz	Infrared image resolution	1024 pixels (32x32)
Infrared frequency band		8μm-14μm	Field Angle	33°
Image display				
Color palette		Iron red, rainbow, gray	Display type	2.4" TFT LCD
Infrared visible fusion		0%(all thermal imaging), 25%, 50%, 75%, 100%(all visible light).	Display resolution	240*320 pixels
Image capture and data storage				
Image capture		Freeze the image to allow viewing before saving		
Storage medium		The built-in storage is 8M (7.8M available and 52 photos can be stored).		
Picture format		bmp format		
View stored image		Through the key control on the screen to turn the page and display all saved images		

Laser distance measurement parameter		Cross laser line parameters	
Measurement accuracy	±5mm	Irradiation distance	The recommended maximum distance is 5 meters
unit	m/inft		
Measuring range (no reflective plate)	0.05-40m	Laser type	Red light, 630~680nm,P<3mw or green light 510-530, P<6mW
Measuring time	0.3-4 seconds		
Laser type	630~680nm,<1mw	Spot shape	58°cross laser line
Self-shutting laser	20 seconds	Line width	< 5mm
Store data	30 sets	Crosshair deflection accuracy	<±0.5°
Moisture content measurement parameters		General parameter	
Wood measuring range and accuracy	5-50%/±2%	Automatic shutdown	about 5 minutes
Measuring range and accuracy of building materials	1.5-33%/±2%	screen	2.4-inch color screen
Ambient temperature measurement	0-40 °C /±2 °C (32~99 ℉ /±4 ℉ )	Battery type and service life	1000mAh Built-in lithium, a single measurement of about 5000 times
Measure pen parameters		Product size	125*62*25mm
Induction range	12-1000V AC 50/60Hz	Operating temperature range	0 °C ~ 40 °C
		Storage temperature range	-20 °C ~ 60 °C

\* The detection results will be affected by the material, shape and size of the detected object, as well as the material and condition of the detected surface, etc. If the cable is not live, the probe depth will be reduced.  
\*\*In cases of strong sunlight or poor target reflection, please use target!

Packaging system			
	Size: 28.7x21x5.7cm		Carton size: 44.5x30.5x30.5cm/10pcs G.W.: 10.8kgs
	Size: 20.2x10x5cm		Carton size: 43x21.5x27cm/20pcs G.W.: 7.8kgs