

# **KL-03**

# **High Precision Intelligent Digital Level**



#### High-tech, High precision

- •Observation accuracy 0.3mm
- •Compensation accuracy 0.2"
- "Precise Mode" can minimize error
- •A dedicated barcode staff NIS20M

#### **Intelligent Device, Greater Efficiency**

- •3" TFT touch screen, intuitive display and operation
- •Voice guide to prevent wrong operation
- •USB pen drive and Bluetooth data export, no need of driver and card reader
- "Automatic Mode" can reduce user's workload and fatigue
- •Remote control by data collector via Bluetooth, avoid vibration to instrument

#### **Design For Large Project & Night Work**

- Backlight with screen/ button/ bubbles
- •3400mAh lithium battery works up to 20 hours
- •Sleeping mode can extend working hours
- •128M onboard memory, saving 150,000 pts
- •Trigger Key helps you measuring faster
- Protection level IP65

## **User Friendly**

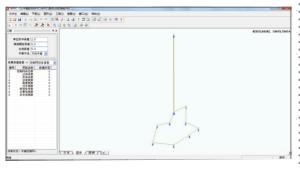




Other Setting	g]				
Date		2017		05.	04
Time		09	:	53:	21
User Key		Test			
User Manual		ON		ŀ	
Auto OFF		OFF		•	
Back	1/2			C	K

[ Stake Out ]	N	
BS.Ponit NO:	A1	Find
Height:	0.00000	m
Sight Height:		m
Staff Record:		m
Stadia:		m
Back		OK

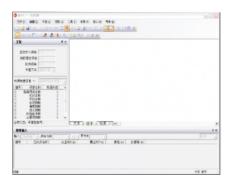
#### Colorful Icon Menu & Graphic Guidance



**Powerful Post-processing Software** 

It contains adjustment routines for dynamic adjustment of horizontal & vertical control network and angle & direction adjustment.

Easily zoom in or out to see the overall data in graphic.



**Seamless Transfer with Various Data Formats** 

StationNum	SD_Length	AccSightDistLength	SD_Diff	d		Heigh	tDiff									
1	35.2335	35.2335	0.1135	0.1135	ĪΓ							DrierExading			Austria	
2	54.682	89.9155	-0.262	-0.1485	T In	StationNam	90 DW	FILDM	Direction	FirstReading	SecondRead ing	FloatingOff	Aughteight. Call	Remark		
3	48.915	138.8305	-0.937	-1.0855	Τ'n				Back	1,50509	1,98992	-0.00003		A1(Back)		
4	35.088	173.9185	-0.458	-1.5435	TI.	1	17.6736	17.560	Frant	1.47166	1.47109	-0.00004 E.00001	8.114036	35 kell GO BEFE		
5	37.1895	211.1080	-0.6915	-2.2350	TI.		0.1135	8.1136	Frant							
6	55.139	266.2470	0.731	-1.5040	ŤΓ				Back	1.44537	1.44527	8.00818		3(Back)		
1	55.1430	55.1430	-0.7300	-0.7300	11	2	27.210	27.472	Front Back-	-0.02374	1.40326	-0.00024 E.00034	-0.02391	S(Flore) GO FEED		
2	37.1975	92.3405	0.5835	-0.1465	ΤL		-4.362	-0.1496								
3	35.1025	127.4430	0.4855	0.3390	11				Eack	1,60006	1,92199	0.00004		3(Rack) &Front)		
4	48.9055	176.3485	1.0975	1.4365	11	1	23.989	24.926	Back- Ford	8.01348	8 81333	E 90907	8 813366	GOBFFE		
5	54.6470	230.9955	0.2240	1.6605	ŤL		4.907	-1.0855								
6	35.2170	266.2125	-0.3260	1.3345	†				Dack Front	1,51396	1.51401	-0.00005 E.00000		4(Sack) S(Front)		
					-	4	17.315	17.773	Back- Freet	8.17445	8.17458	-0.00005	0.174675	GO FEET		
							-8.458	-1.5436					1			

**Precision Analysis & Report** 

The KL Data Download & Processor Software, makes the field work easier to display the complex leveling tasks.

#### **Specifications**

Item		KL-03				
Height Accuracy (standard deviation for	Digital Reading	0.3mm				
1km double run leveling)	Optical Reading	2.0mm				
Distance Accuracy	Digital Reading	D≤10m:10mm;D>10m:D*0.001				
Distance Range	Digital Reading	120m				
Minimum Display	HD	0.01mm/0.1mm/1mm				
William Display	Distance	0.1/1cm				
Measuring Time		within 3s in normal condition				
	Magnification	32X				
	Resolving Power	3"				
Telescope	Field of View	1°30'				
	Multiple Constant	100				
	Additive Constant	0				
	Туре	magnetic-damped				
Compensator	Range	>±12'				
	Accuracy	0.20"/1'				
	Storage	128MB				
Data Storage	Point Name	increasing/decreasing/customized				
	Connection	RS232/Bluetooth				
	External Storage	USB Pen Drive				
Circular vial Accuracy		8'/2mm				
Display		3.0 inch LCD Colorful Touch Screen				
Working Temperature		-20°C~50°C				
Dimension		230mmX225mmX203mm				
Weight		2.5kg				
IP Standard		IP65				
Battery Capacity		3400mAh				

## **Invar Staff NSI-20M**

1	Circle Bubble	≤12'/2mm		
2	Surface curvature distincition	≤4mm		
3	Vertical of central axis and und	≤5'		
4	Tolerance of zero point	≤0.05mm		
5	Basic barcode graduation	Deviation	≤0.02mm	
	tolerance	Standard deviation	≤0.013mm	
6	Interval tolerance		≤0.04mm	



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