

# **RL SERIES** Digital Level



# Features

- Advanced Accuracy
- Trigger Key Function
- 3.0 Inch Colorful Touch Screen
- Magnetical-damped Compensator
- Multiple Data Transform
- Bluetooth Remote Control







RL-03

RL-07

RL-15

### Softwore

Auto OFF

Back

[Meas]		-	【Adjust Fig】	2/2 Ba	ick 📰
1 Meas	2 Data	3 Adjust	Aim B sta	aff first. Aim A staff	- -
<b>X</b> 4 Calc	5 Set	6 Help		arround 15-20m	OCC 2
[ Other Settin	ng J		[Stake Out]	N	
Date	2017	. 05. 04	BS.Ponit NO:	A1	Find
Time	09	: 53: 21	Height:	0.00000	m
User Key	Test	<   >	Sight Height:		- m
User Manua	I ON		Staff Record:		- m

#### Intelligent On-board System for RL-03

Stadia:

Back

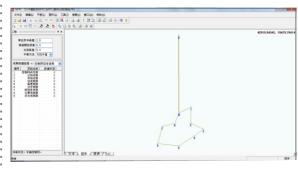
m

OK

OK

OFF

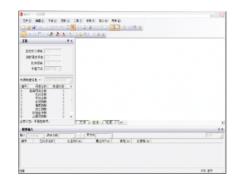
1/2



#### **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

						7	¢Diff	Heigh	d	SD_Diff	AccSightDistLength	SD_Length	StationNum
				Raines					0.1135	0.1135	35.2335	35.2335	1
Remai	Off	FaatingOff		FestBaaling	Desction		88,0H		-0.1485	-0.262	89.9155	54.682	2
A1(Bac		-8 10003	1,50992	1,50509	Back				-1.0855	-0.937	138.8305	48.915	3
3Fixed GD REF	8 114035	-8.90904	1.47109	1,47105	Ford Rack-	17 640	17 67%	1	-1.5435	-0.458	173.9185	35.088	4
		2 30801	8 11803	1 11204	Fort	8.1135	0.1135		-2.2350	-0.6915	211.1080	37.1895	5
3(Back		8.00010	1.44527	1.44537	Beck				-1.5040	0.731	266.2470	55.139	6
3/hot GO FEE	-0.02791	-0.0002H	1.40305	1.4011	Fort Deck-	27.472	27 212	2	-0.7300	-0.7300	55.1430	55.1430	1
		100.0		4.963/4	Prest	-0.1495	-4.262		-0.1465	0.5835	92.3405	37, 1975	2
3/Rack		8 00006	1.62199	1 80205	Eack .				0.3390	0.4855	127.4430	35.1025	3
4/Fixed GO BFF	8 813366	-8 80801 E 80807	1 2005	1.0065	Ford Date-	24.926	23.989	3	1.4365	1.0975	176.3485	48.9055	4
						-1.0855	4.997		1.6605	0.2240	230,9955	54.6470	5
4,Back STront		-8 80805 E 80808	1.51401	1.51296	Deck Front				1.3345	-0.3260	266.2125	35.2170	6
GO FEE	8.174475	-0.00005	8.17458	8.17445	Deck-	17.773	17.315	4					
						-1.5425	-149						

#### **Precision Analysis & Report**

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

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## **Specifications**

ltem		RL-03	RL-07	RL-15		
Height Accuracy (standard deviation for	Digital Reading	0.3mm	0.7mm	1.5mm		
km double run leveling) Optical Reading		2.0mm				
Distance Accuracy Digital Reading		D≤10m:10mm;D>10m:D*0.001				
Distance Range	Digital Reading	2m~110m				
Minimum Display	HD	0.01mm/0.1mm/1mm	1mm/0.1mm	0.1mm/1mm		
ivinini 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'	0.30"/1'	0.50"/1'		
	Storage	128MB	16MB			
Data Storage (for only DL-201, DL-2007)	Point Name	increasing/decreasing/customized				
	Connection	RS232/Bluetooth	USB			
	External Storage	U disk	SD C	Card		
Circular vial Accuracy		8'/2mm				
Display		3.0 inch LCD Colorful Touch Screen	160*64dpi LCD with illumination	128*32dpi LCD with illumination		
Working Temperature		-20°C~50°C				
Dimension		230mmX225mmX203mm	230mmX150mmX210mm			
Weight		3.1kg	2.5kg			
IP Standard		IP65	IP54			

## Invar Staff NSI-20M Specification

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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