#### **SPECIFICATIONS**

Distance Measurement	N	N6 2"		N6 5"	
Range	R10	R15	R10	R15	
Reflector	KIU			1/13	
Reflectorless*2	1000m	5000m*1 1000m 1500m 1000m 1500m			
Accuracy IOS 17123-4	1000111	1300111	1000111	1300111	
Reflector		+/2+2nni	m v D)mm		
Reflectorless		±(2+2ppm x D)mm ±(3+2ppm x D)mm			
Measuring Interval		±(3+2ppi	II X DJIIIII		
With Reflector		Fine < 0.3s, Tracking < 0.1s			
Without Reflector			-3s* <sup>3</sup>	)	
Others		0.55	-33		
EDM Type		Coaxial			
Minimum Reading		0.1mm			
Unit	Met	Meter/ US.Feet/ Int.Feet/ Feet-inch			
Angle Measurement	IVIEL	ei/ 03.i eet/	inc.reet/ reet	-111011	
Accuracy IOS 17123-3	2,	"		5"	
		Absolute Encoding		<u> </u>	
Reading System Circle Diameter	-	79mm			
Minimum Increment		1"/5"			
Detection Method	11	Horizontal: Dual, Vertical: Dual			
	Н	orizofilali Du	ai, vertical: Di	uai	
Telescope		г.	oct		
mage Tubo Longth		Erect			
Tube Length		154mm			
Effective Aperture		45mm (EDM:50MM)			
Magnification Field of View		30x			
		1°30′			
Minimum Focus Distance		1.4m 3"			
Resolving Power			3		
Tilt Sensor		Dual Avia Li	audal Flactuia		
System		Dual Axis Liquid-Electric			
Working Range		±4′			
Accuracy		-	L		
Communications Communication Dorse		DC	222		
Communication Ports		RS-232			
Data Interface		SD Card, USB Port, Bluetooth 5m			
Effective Range of Bluetooth Plummet		J	9111		
Laser Plummet		±1 5mm	a at 1 5m		
Optical Plummet (Optional)		±1.5mm at 1.5m			
		Erect Image 3 x			
Magnification		0,5m~∞			
Focusing Range Field of View		5°			
		-	<b>5</b>		
Power		ochargoablo	Lithium batte	m.	
Type Voltage	I IN			ту	
		7.4V DC, 3100mAH 8 Hours* <sup>4</sup>			
Operating Time  Level Vials		6 HC	/u13		
Plate Vial		20"	/2mm		
		30"/2mm 8'/2mm			
Circular Vial		8/4	£111111		
Others Dust and Water Protestion		ır	055		
Dust and Water Protection			ICD 6 Lines		
Display		Dual Side, LCD 6 Lines			
Keyboard		Alphanumeric 24 Keys			
Operating Temperature		-20°C ~ +50°C			
Atmosphere Correction		Manual Input, Auto Correction			
Earth Curvature Correction		Manual Input, Auto Correction			
Prism Constant		Manual Input, Auto Correction			
Dimension		160mm x 150mm x 330mm			
Weight (approx)	I	5.	2kg		

#### STANDARD PACKING LIST

Main unit	1x
Lens cover	1x
Battery holder	1x
Battery LB-01	2x
Tools pouch	1x
Plummet	1x
SD card	1x
Manual	1x
Warranty card	1x
Charger LC-01	1x
Reflective sheet	1x
Carry case	1x
Belt	2x
Mini USB cable	1x

- \*1. Good Conditions: good visibility about 20km, overcast, no scintillation.
- \*2. Under Kodak Gray (90%). Measuring distance may vary depending on targets and the conditions.
- \*3. Measuring time may vary depending on measure distance and conditions. For the initial measurement, it may take a longer time.
- \*4. Battery life specification at  $25^{\circ}\text{C}$ . It might be shorter in low temperature or if the battery is old.

## OPTIONAL ACCESSORIES



ATS-2 Wooden Tripod NLS-15 Prism Pole TK21T Prism Set

You Local Authorized Deale

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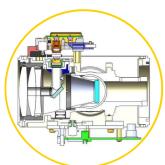
# **N6 Series**

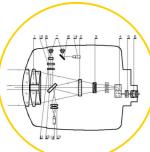
**New Generation Total Station** 



# World's First- Dual Laser EDM









### How does dual laser works



Brand new dual laser EDM, it switches in & out light path by electronic laser circuit instead of motor control by mechanical parts.



Combine with updated EDM processor CORTEX M4, dual laser EDM will largely decrease the interval of measurement with stronger return signal.



Through improved noise reduction, weak signal processing is optimized (SNR increased 4 times).



Less light refraction and crosstalk with optimized optical structure.



Better alignment with coaxis mechanical improvement.



Multiple methods for data transfer.

# **Long-Range EDM**



Up to 1500m reflectorless range with quick response in 0.3s. N6 can easily handle the target in tough conditions, eg. roof, wires. also enables N6 to achieve accurate (2+2ppm) measurement in 5.0km with prism.

# **Smaller Laser Spot**



At the distance: 5m, 35m and 50m, N6's laser spot has improved to an accurate size in 3mm, 12mm and 16mm. The smaller laser spot provides a precise guidance for target aiming.

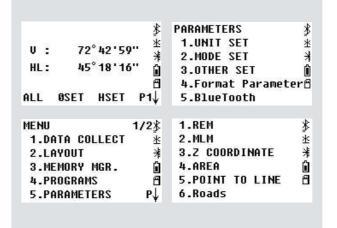
### **Easy-to-use Onboard System**

New tool-bar design on the side of screen, which helps you check the status of your N6 Total Station in real-time.

Choose N6 to meet your topographic needs as a superior mates. It offers a clear-to-view onboard system by it's easy-to-use but powerful programs.

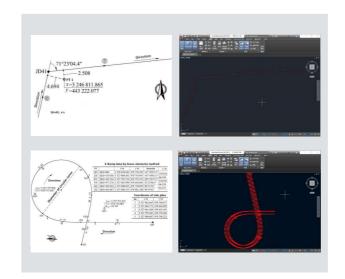
#### Such as:

- ► Offset: angle, distance, column offset
- ► Point to Line: to calculate the coordinate of occupied point based on a known point and line
- ► COGO: calculation of coordinate geometry



# **Optimized Road Program**

The optimized road program offers a smart solution for road designing, editing and laying out. The new road program will calculate the horizontal and vertical curve in arbitrary geometric curved algorithm.

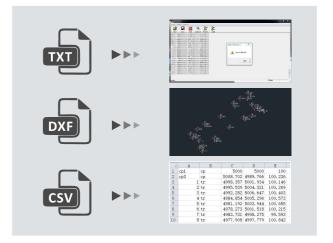


### **Bi-Directional Data Transfer**

All the N6 series support Bluetooth communications to external data collectors, a RS-232 port for commands, a card slot and a USB port for data transfer via SD card or flash disk.

One key data transfer to SD card. The files including RAW data in TXT format, DXF and CSV.

Cooperate with South Communication Software on PC, the data in N6 can be seamless converse to the third-party software to finish the post-processing.



# **Work on Data Collector**

After added the Bluetooth module on N6, you will have more possibilities to extend the applications on Total Station. With open source commands, you are easy to establish the communications between the N6 and other software you wish to use.

