

# TD-4

TD-4 shows unprecedented cost performance with high accuracy and high resolving power (0.01° as smallest unit of display).

With its built-in memory,
a data collector is no longer necessary.

TD-4 is a digital balloon theodolite which traces a pilot balloon in the air, and through elevation and azimuth data informs the user the conditions in the upper atmosphere.

With a built-in memory function, the TD-4 can store up to 20,000 measurement data. The traditional data collector is no longer necessary, and the user can check stored data on the display of TD-4. Also, with the optional printer, the user can print out data real time. Or, the user can connect a computer to TD-4's RS-232C interface to analyze data from TD-4 with the computer.



## DIGITAL BALLOON THEODOLITE



### With the optional printer, data can be printed out at real time.



258	E   16	28:46	2
20	Ø	A 0.0	1
		E 0.6	51
D	10	A 5.5	54
		E 0.	_
D	20	A 5.5	53
		E 2.5	53
D	30	A 5.	
		E 7.	64
D	40	A359.0	36
		E 11.	24
D	50	A355.8	
		E 17.	a6
Ε	60	A352.4	12
		E 18.7	31
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#### TD-4's Data-processing Software

Using TD-4's data-processing software, the user can make graphs showing relationships between "altitude and wind direction" and "altitude and wind speed", as well as graphs showing the path of pilot balloon. The user can make such graphs based on azimuth and elevation data, taken at certain intervals, which are stored as Excel format.

#### **SPECIFICATIONS** ◆Main Telescope Diameter 47mm Magnification 18X Inverted Image Field of view 2°30 Resolution 3.5" ◆Sub Telescope 16mm Diameter Magnification 4X **Image** Inverted Field of view 11° 12" Resolution ◆Digital Angle Display Azimuth 0°-360° 0°-360° Flevation Smallest unit 0.01° (for both azimuth and elevation) Display LCD (16 digits, 2 lines) **♦**Functions Clock function Built-in real-time clock Calendar function Timer 1-99 seconds Command and alarm Buzzina Input of measurement error Push button Azimuth set function Key input (dialogue) External input/output function RS-232C Operating time Approx. 20 hours continuous ◆Level vial Sensitivity 90"/2mm ◆Dimensions / weight 192(W)x240(D)x270(H)mm Body 5.2kg Case 465(W)x220(D)x305(H)mm 4kg Tripod(metal) 1700mm(when fully expanded) 1030mm(when fully contracted) **♦**Power Main power Lithium ion battery (rechargeable) Backup memory Lithium battery Accessories Hood 1 piece 1 piece Eyepiece filters (switch between colors by rotating) Tubular compass 1 piece Level vial adjusting pin 1 piece Earphone for buzzer 1 piece Tripod 1 piece Battery charger (100-240V) 1 piece Carrying case 1 piece Instruction manual 1 piece ◆Optional items Thermal head, 16 digits Printer 80(W)x120(D)x60(H)mm 500g comes with a connection cable Software for TD-4 For PC RS-232C cable

10 rolls per set

Chart paper