

TFA

BK10D LASER RANGING ALTIMETER



Performance characteristics



Measurable straight-line distance, angle, horizontal distance, vertical distance, height difference, two-point distance, etc



Remote measurement without cooperation



Nd:YAG Micro light, wavelength 1.064 microns



Effective measuring range of over 6000m



Digital distance selection is optional



Three measurement modes



RS232 data interface



The measurement accuracy is 1m



Night aiming crosshair backlight illumination



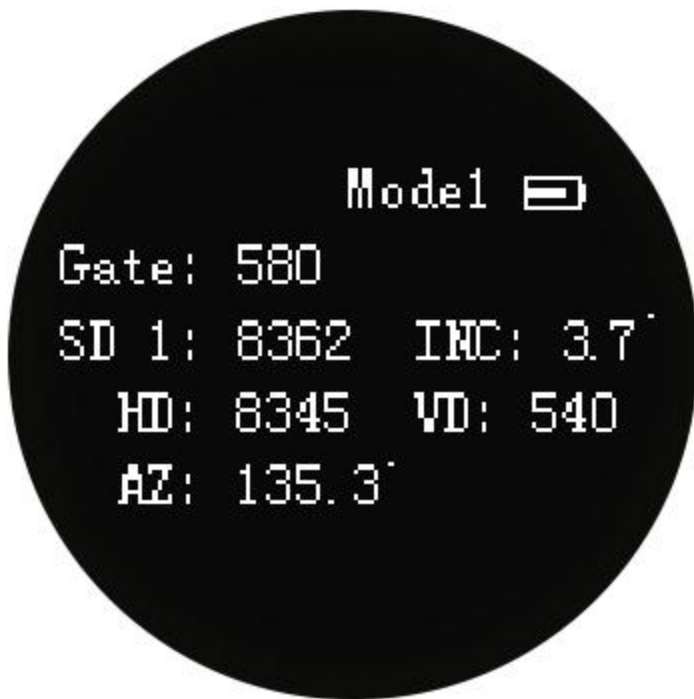
temperature -25°C ~ 60°C

1

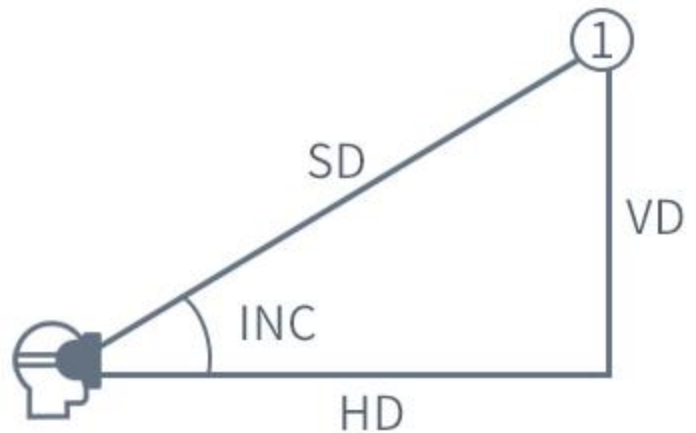
SELECTION/LINEAR DISTANCE/HORIZONTAL DISTANCE/VERTICAL DISTANCE

WORKING MODE 1

After powering on the instrument, the default mode is Mode 1



MODE1 DISPLAY IMAGE



SCHEMATIC DIAGRAM OF MODE1 PARAMETERS

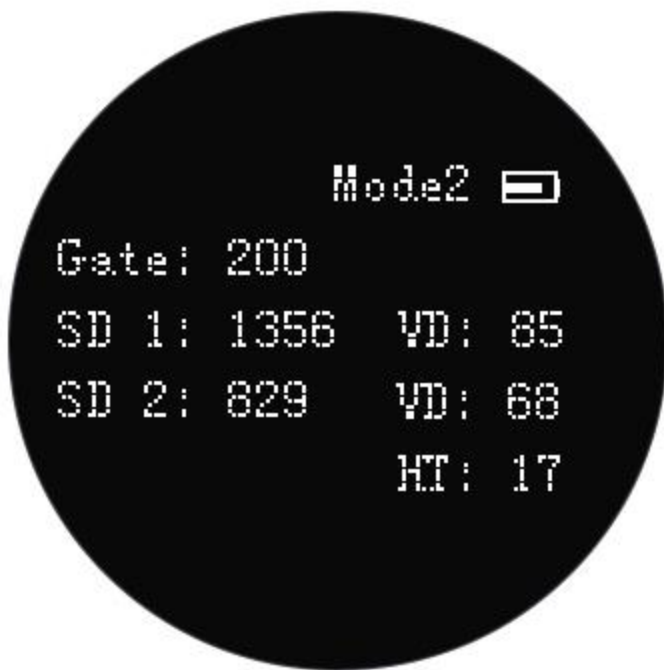
GATE OF THE RANGEFINDER	THE STRAIGHT-LINE DISTANCE OF A SINGLE TARGET POINT (SD1)
HORIZONTAL DISTANCE BETWEEN TARGET AND INSTRUMENT (SD1)	HORIZONTAL ANGLE BETWEEN TARGET AND INSTRUMENT
VERTICAL DISTANCE BETWEEN TARGET AND INSTRUMENT (VD)	
TARGET'S MAGNETIC AZIMUTH ANGLE (AZ) (ZERO DEGREES IN THE NORTH, INCREASING CLOCKWISE ANGLE)	

2

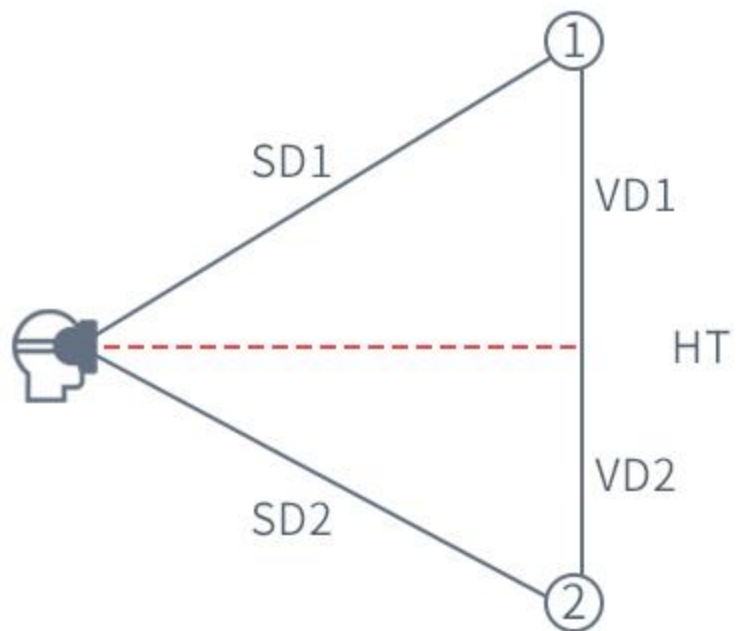
SELECTION/LINEAR DISTANCE/HEIGHT DIFFERENCE/VERTICAL DISTANCE

WORKING MODE 2

Mode 2 measures the straight-line distance, height, and height difference between two targets on a vertical plane. Two distance measurements are required.



MODE2 DISPLAY DIAGRAM



SCHEMATIC DIAGRAM OF MODE2 PARAMETERS

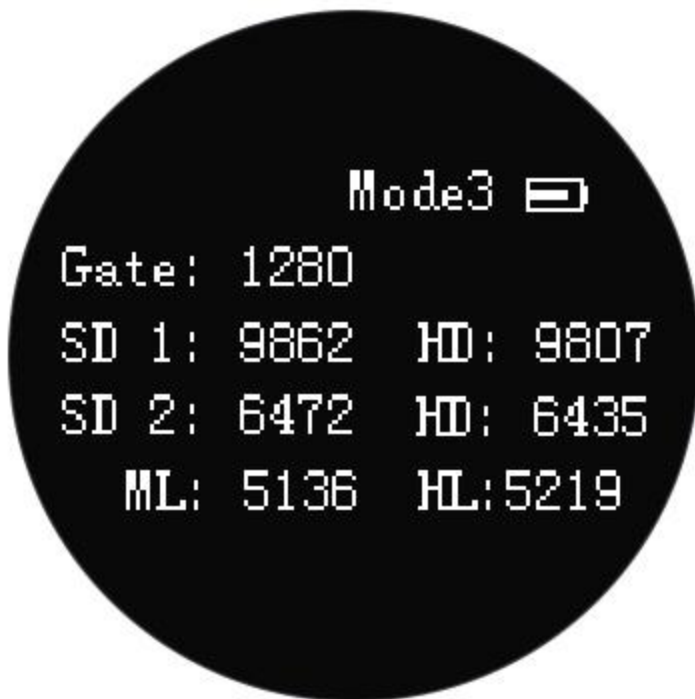
GATE OF THE RANGEFINDER	HEIGHT DIFFERENCE (HT) BETWEEN GOAL 1 AND GOAL 2
THE STRAIGHT-LINE DISTANCE OF GOAL 1 (SD1)	VERTICAL DISTANCE BETWEEN TARGET ONE AND THE INSTRUMENT (VD1)
THE STRAIGHT-LINE DISTANCE OF GOAL 2 (SD2)	VERTICAL DISTANCE BETWEEN TARGET TWO AND THE INSTRUMENT (VD2)

3

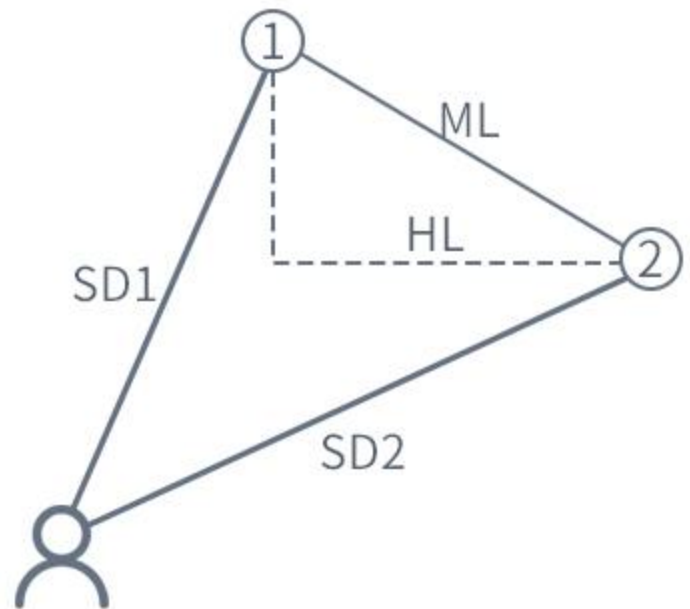
SELECTION/LINEAR DISTANCE/HORIZONTAL DISTANCE/DIAGONAL SPAN/HORIZONTAL SPAN

WORKING MODE 3

Mode 3 measures the straight-line distance and horizontal distance between any two target points in space, as well as the diagonal span and horizontal distance between two target points, requiring a total of two distance measurements.



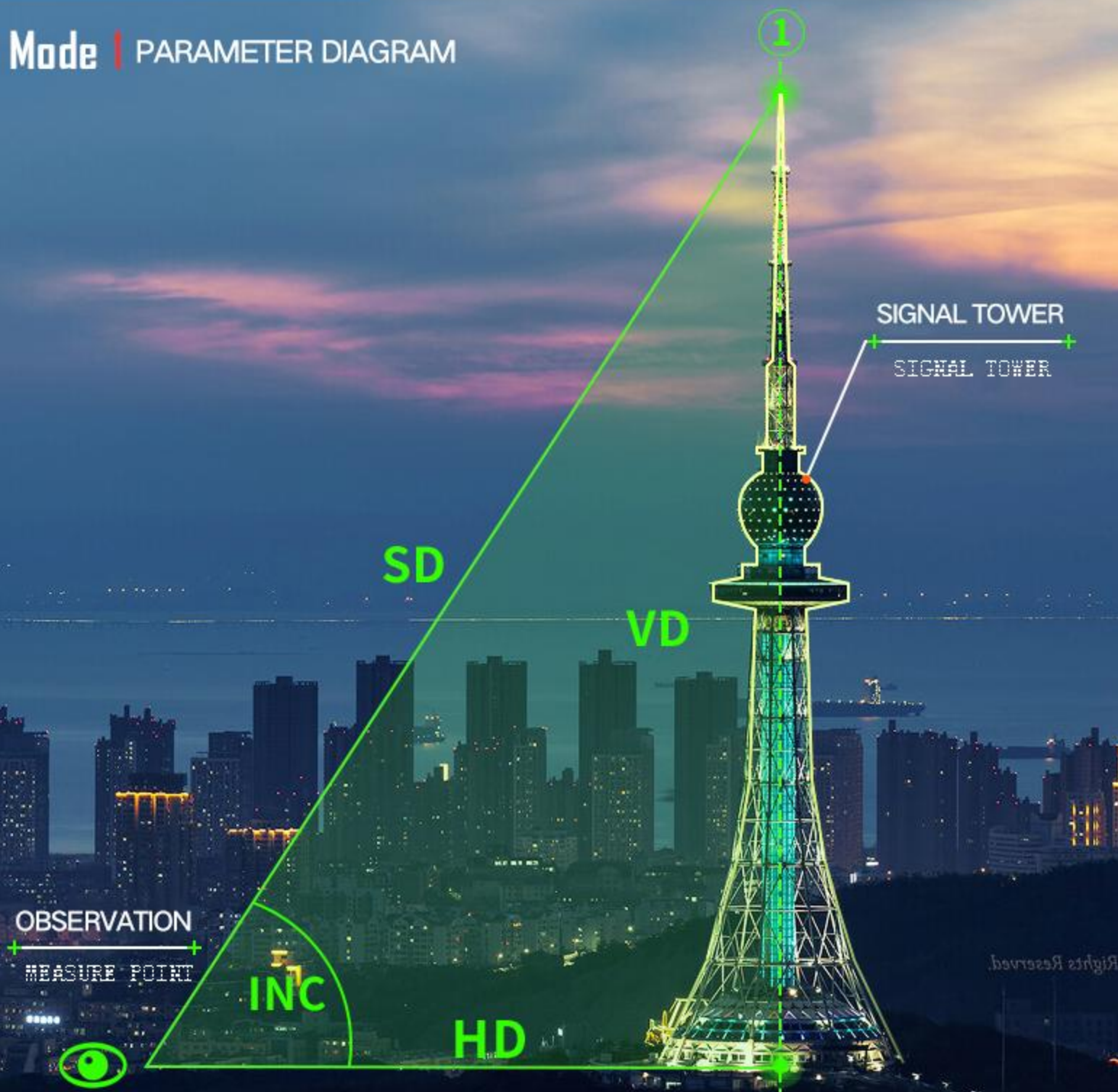
MODE 3 DISPLAY DIAGRAM

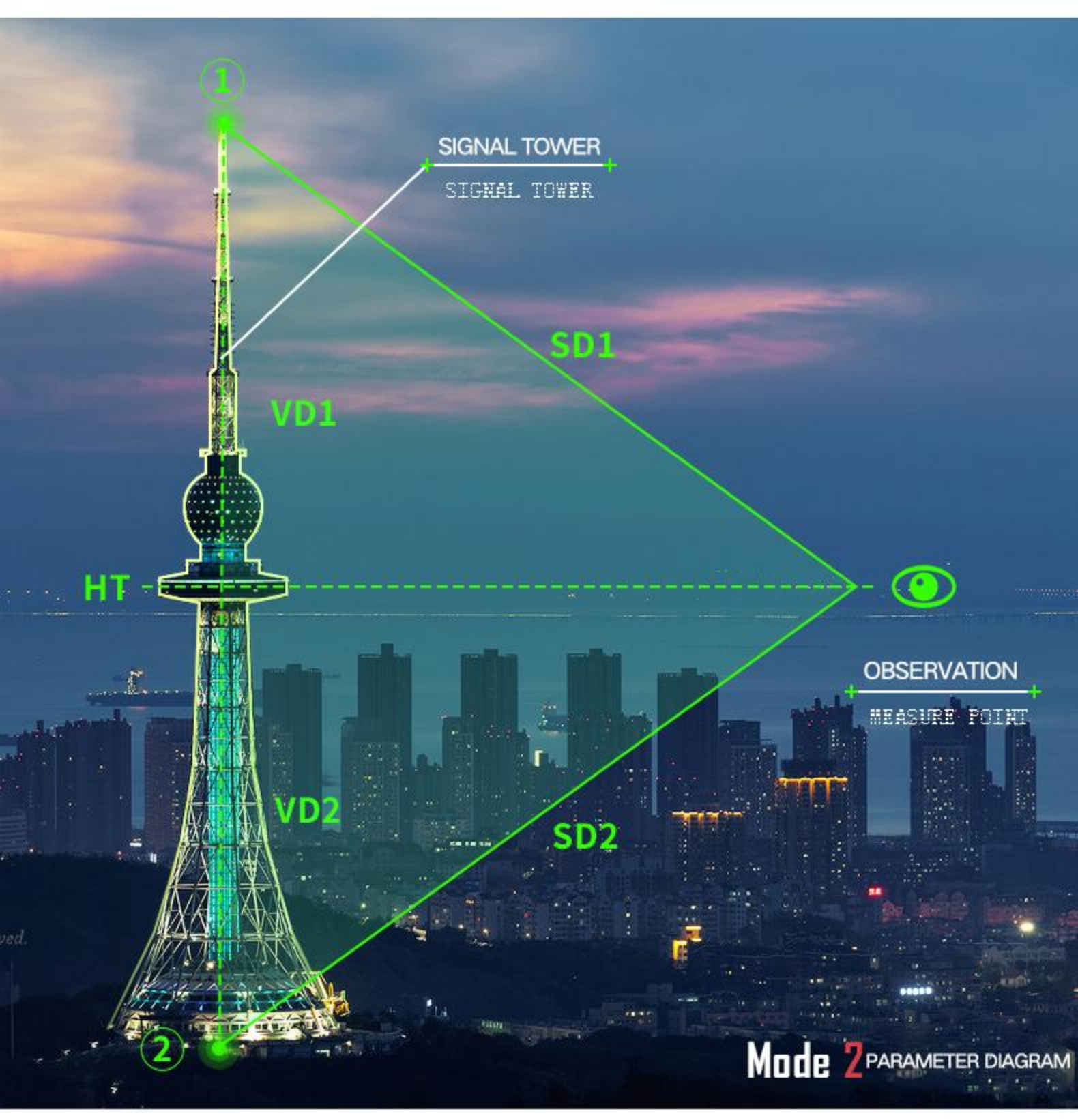


SCHEMATIC DIAGRAM OF MODE3 PARAMETERS

GATE OF THE RANGEFINDER	
THE STRAIGHT-LINE DISTANCE OF GOAL 1 (SD1)	HORIZONTAL DISTANCE BETWEEN TARGET ONE AND THE INSTRUMENT (HD1)
THE STRAIGHT-LINE DISTANCE OF GOAL 2 (SD2)	HORIZONTAL DISTANCE BETWEEN TARGET TWO AND THE INSTRUMENT (HD2)
TARGET 1 AND 2'S DIAGONAL SPAN (ML)	HORIZONTAL SPAN (HL) OF GOAL 1 AND 2

Mode | PARAMETER DIAGRAM





1

SIGNAL TOWER

SIGNAL TOWER

SD1

VD1

HT



OBSERVATION

MEASURE POINT

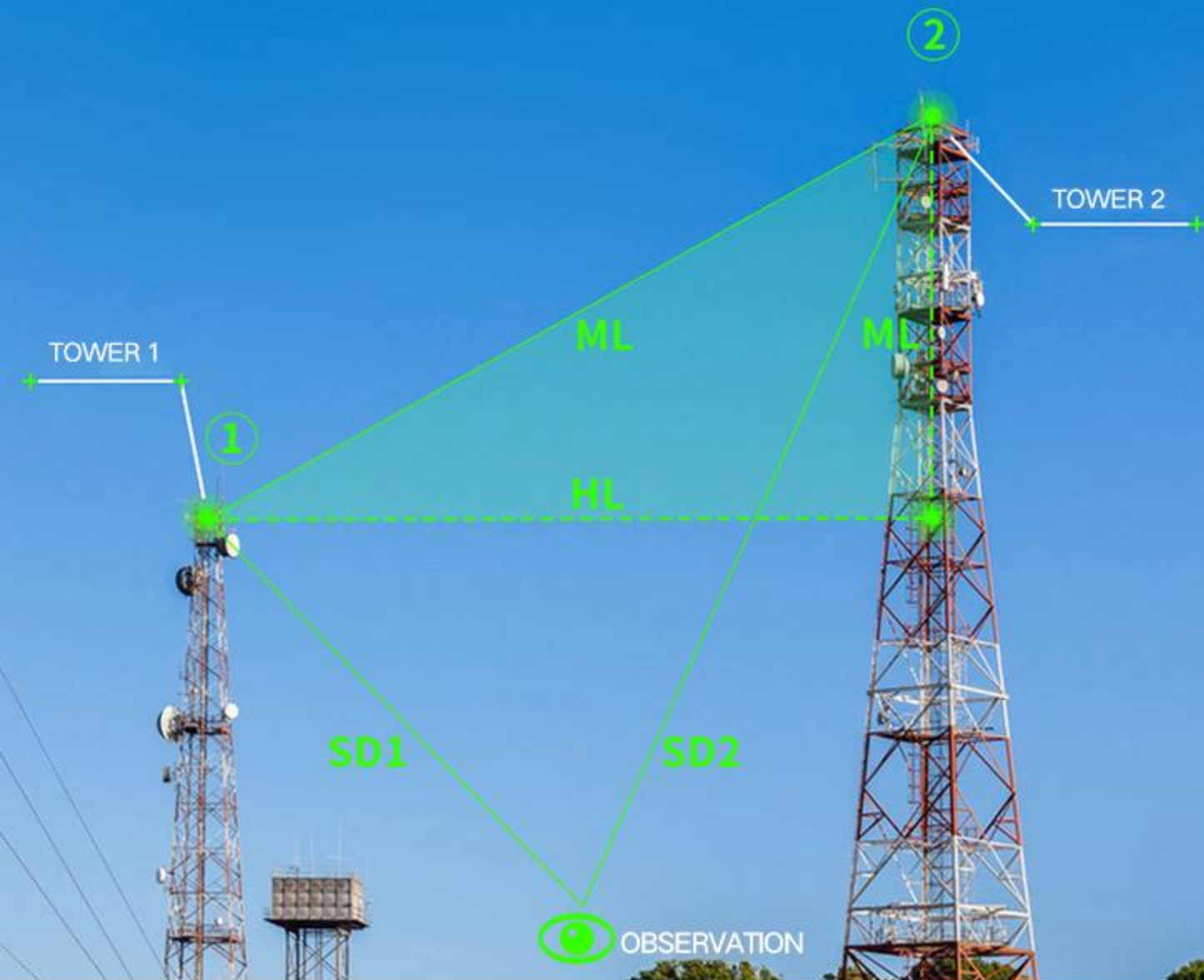
VD2

SD2

2

Mode 2 PARAMETER DIAGRAM

Mode 3 PARAMETER DIAGRAM



APPEARANCE INTRODUCTION



EQUIPMENT PARAMETERS

range performance	Minimum distance measurement	Not exceeding 50 meters		
	maximum range	9999 meters		
	Effective measurement range	Not less than 10000meters		
	Distance measurement accuracy	+1 meter (30m~1000 meters)+2 meters (1000-10000m)		
	Distance resolution	Not exceeding 30 meters		
	Repetition frequency	6 times/minute, continuous work; 10 times/minute in emergency situations		
	Distance selection	Continuously adjustable from 10 meters to 6000 meters, with precise data displayed in digital format within the eyepiece		
	Accurate measurement rate	Not less than 98%		
	Three measurement modes			
	Measurable straight-line distance, angle, horizontal distance vertical distance, height difference, two-point span			
optical performance	Visual magnification ratio	7 times		
	field of view	7 (horizontal direction)		
	Exit pupil diameter	6 millimeters		
	Exit pupil distance	20 millimeters		
	resolution	8 seconds		
Usage performance	power supply	Two lithium batteries with a capacity of 700mAh and model number 16340 are used		
	data interface	Standard RS232 serial interface		
	Environmental adaptability	working temperature	(-40~+60 ° C)	
		Maximum relative humidity	95~98%	
		The host structure adopts a sealed waterproof design and anti vibration design		
	Size and weight	External dimensions	202x150x90 millimeters (The largest point)	
		weight	Less than 1 kilogram	

PRODUCT DISPLAY





