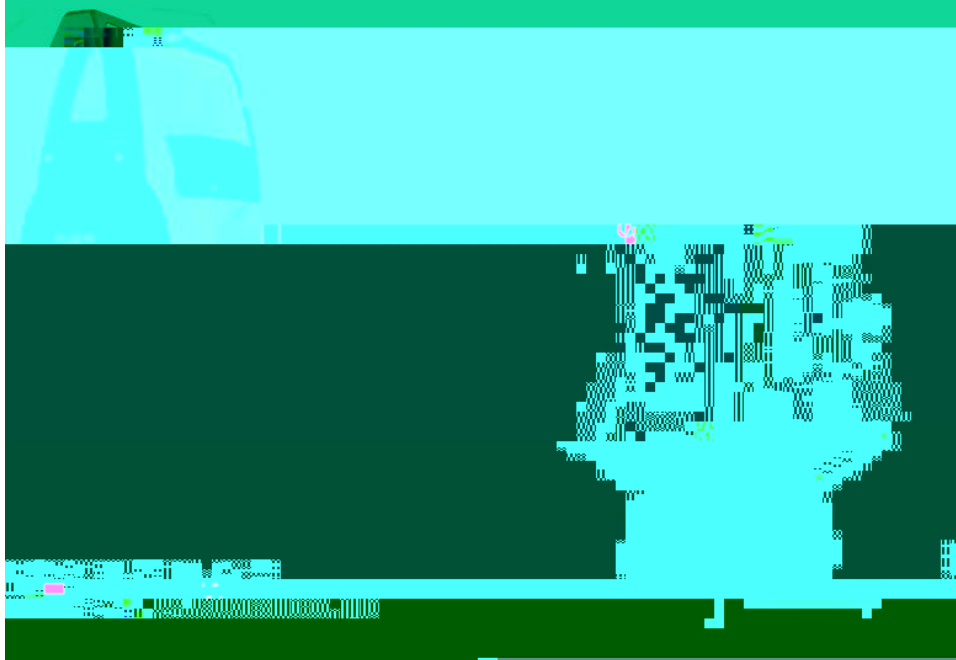


820系列 | ELECTRONIC TOTAL STATION

瑞得全站仪RTS

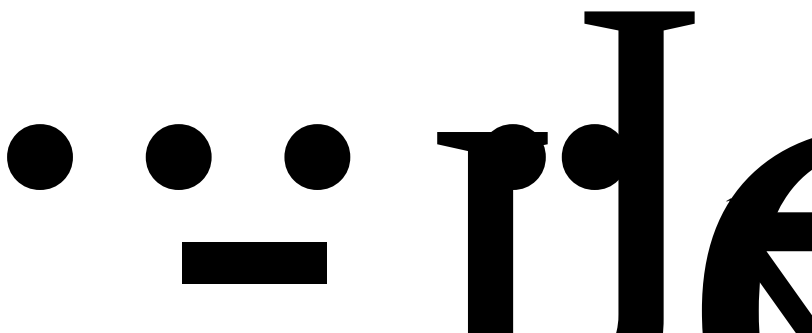
操作手册

OPERATION MANUAL





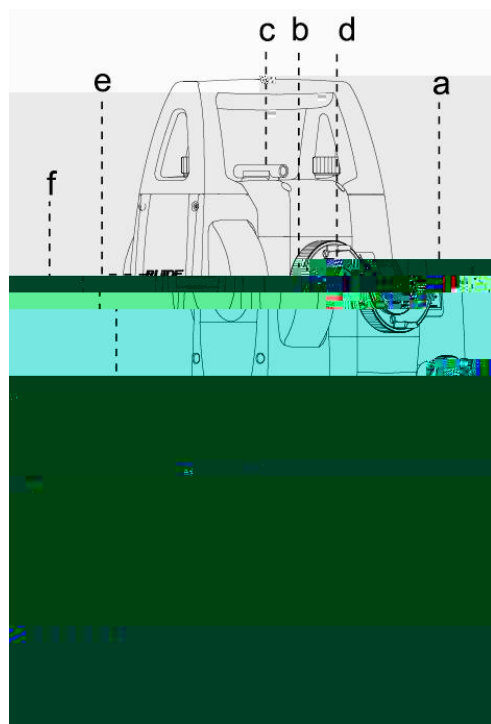
.....	5
.....	5
.....	7
.....	10
.....	10
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.....	20

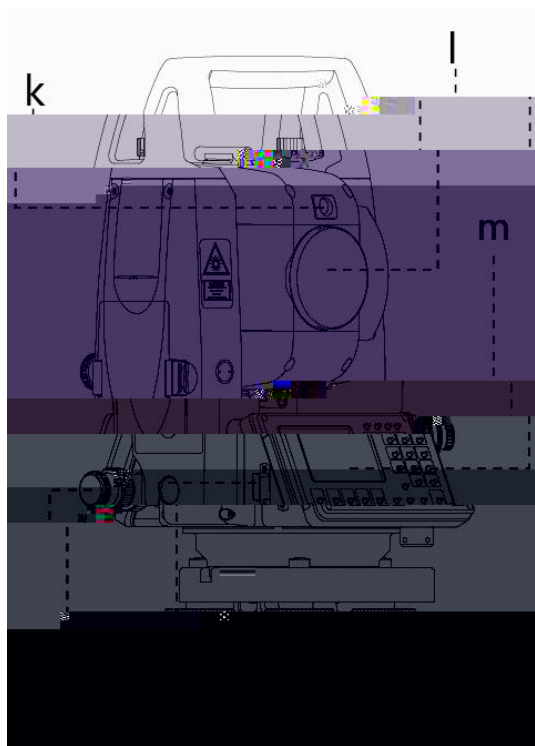


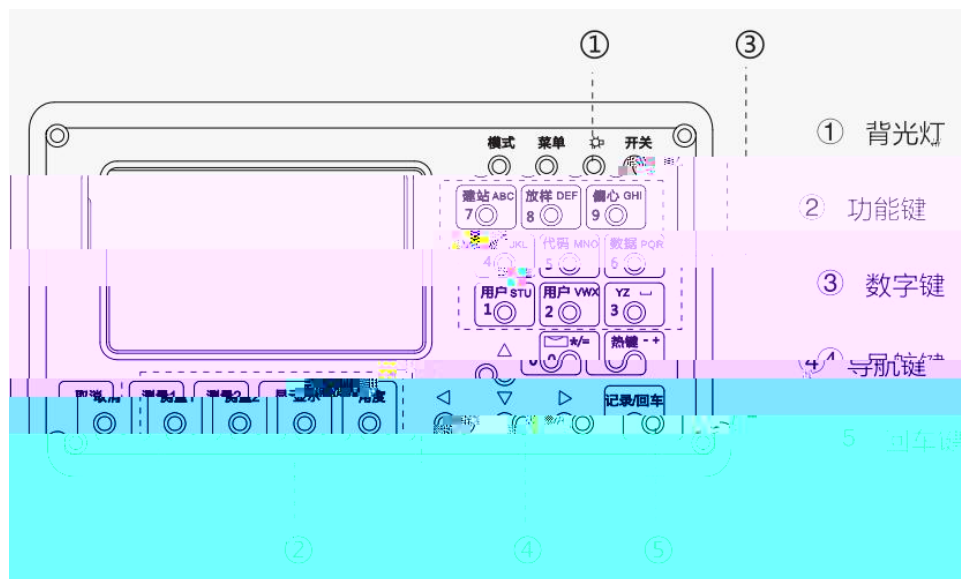
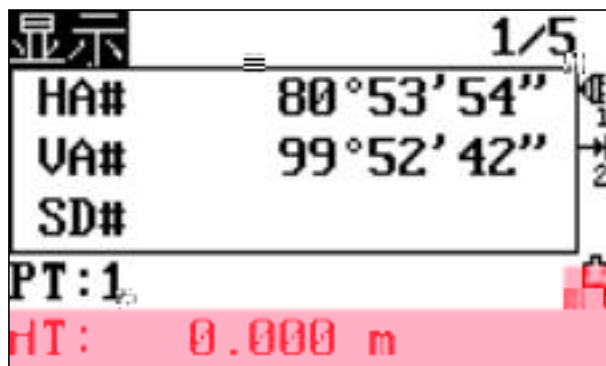
.....	26
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13.2 »	







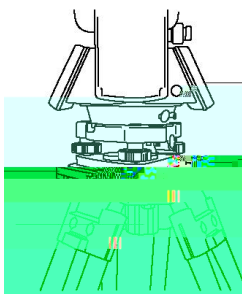
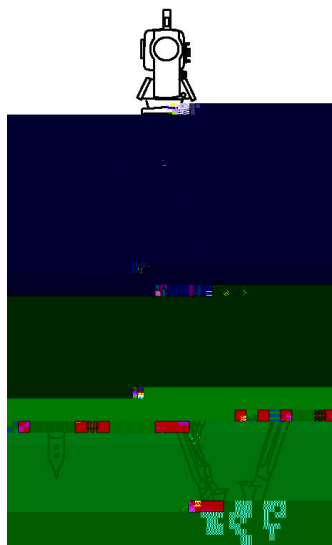


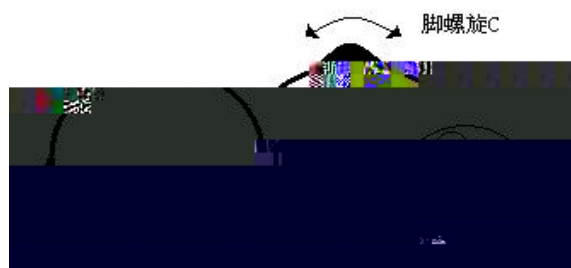
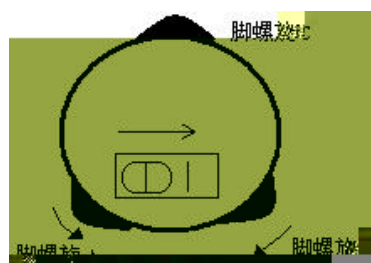
偏心 GHI
9 ●

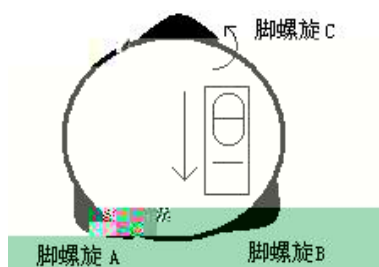
程序 JKL
4

代码 M
5 ●

◀ ▶	
↓ ↑	





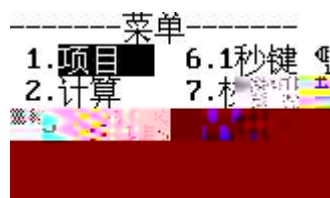
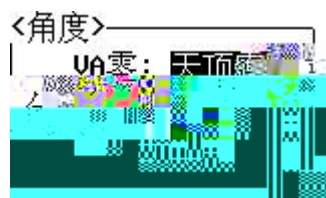
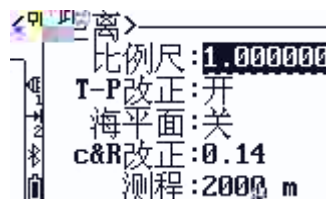


显示	1/5
HA#	80°53'54"
VA#	99°52'42"
SD#	
PT:1	
HT:	0.000 m









<坐标>

顺序: NEZ

标记: 12

AZ零: 北

<电源>

主机关闭: 30分钟

EDM关闭: 10分钟

温度、气压

温度: 20.0 C

气压: 1013.2 hPa

ppm= 0.0

开 关

<放样>

增加点: 0

<单位>

角度: 度

距离: 米

温度: 度

气压: hPa

指标差校准

X : -0°00'14"
UA: 51°56'49"

确认

指标差校准

X : -0°00'13"
UA: 51°56'49"

*请转向F2

确认

用棱镜仪器加常数

: 0.0 mm

不用棱镜仪器加常数

: 0.0 mm

<日期>

日期:2019.09.19

时间:13:48:01

2019-09-19 13:48:17

型号:RTS-284X

机身号:11111111

日期:2019.09.19

MAIN: 001-19.09.06

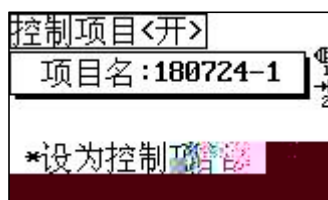
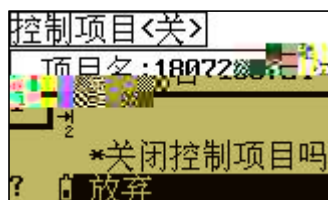
EDM : 234-116

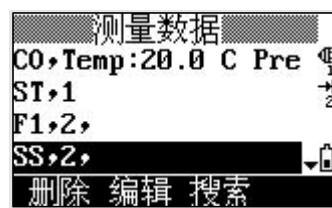
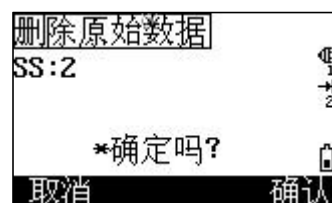
ANG : 040-002

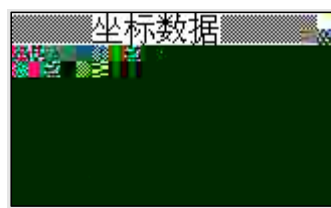
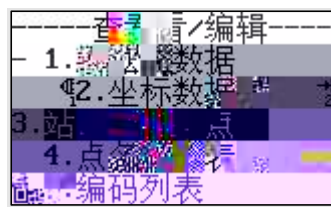
TILT: 107-004

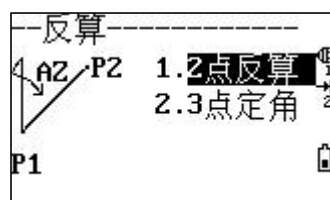
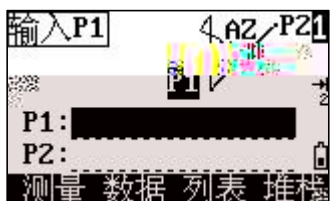
T&P : 101-108

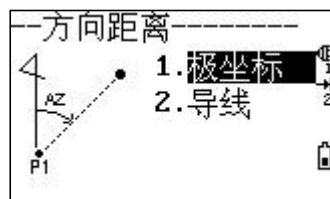
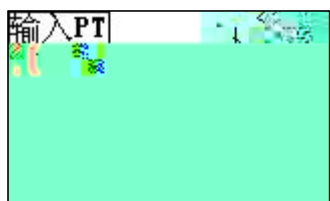












输入AZ

AZ: [REDACTED]

HD: [REDACTED]

dVD: [REDACTED]

N : 43.300 m

E : 20.319 m

Z : 461.774 m

PT: 12

CD: [REDACTED]

列表 堆栈

方向距离

1. 极坐标

2. 导线

P1

P2

+Ang

输入P1

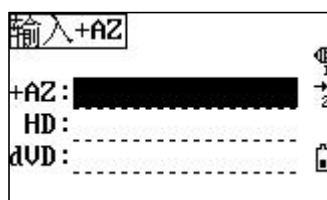
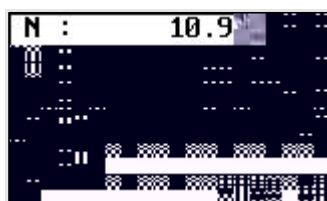
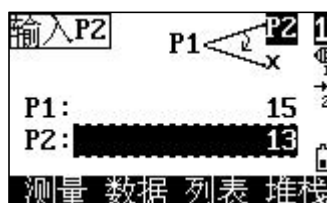
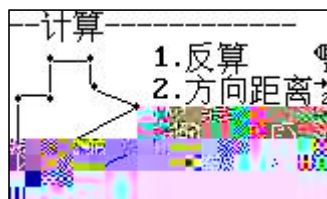
P1

P2

P1: [REDACTED]

P2: [REDACTED]

测量 数据 列表 堆栈

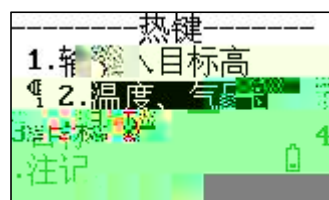


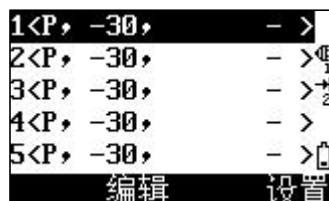
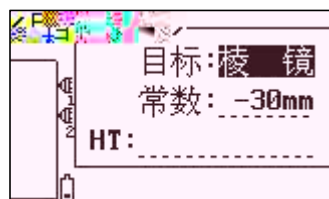


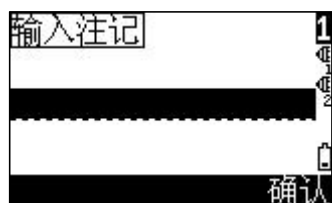
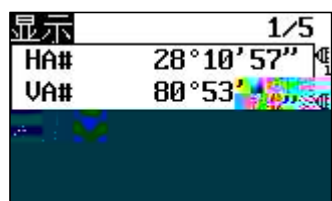
3Q

04A









显示		1/5
HA#	0°00'00"	1 2
VA#	80°	
SD#		
PT:20		3
HT: 1.500 m		

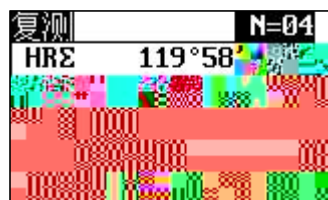
HA输入	
HA:	50°00'00"

$$\overline{X} = \sum_{i=1}^N$$

$$A_z = \overline{X}$$

$$\overline{X}$$

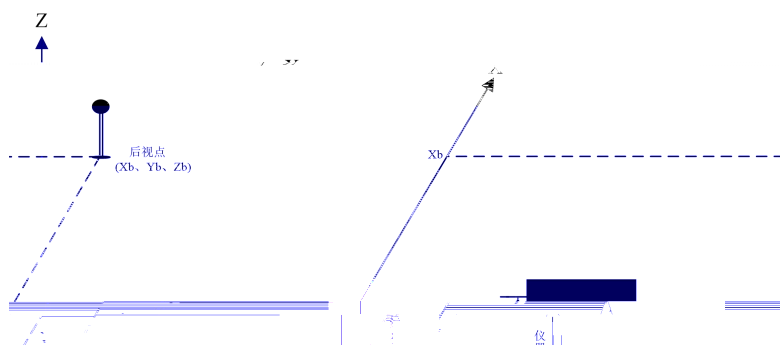
$$\Sigma$$



बुद्धि

श्र

建站ABC
7 ●

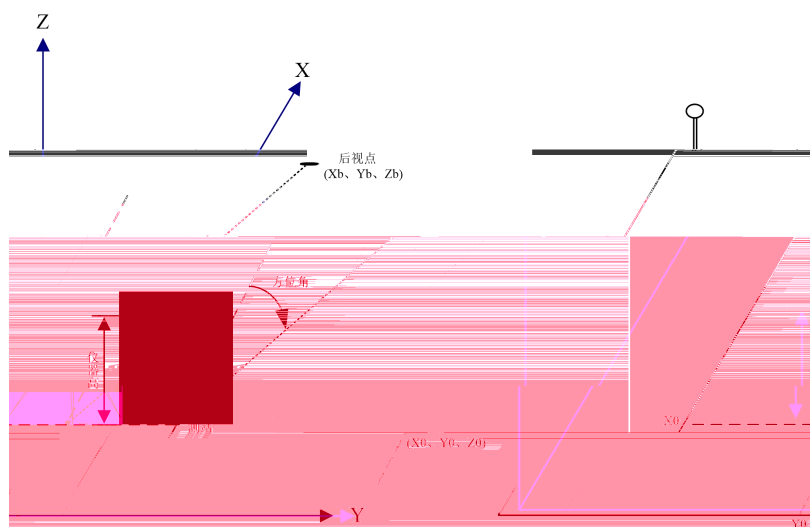
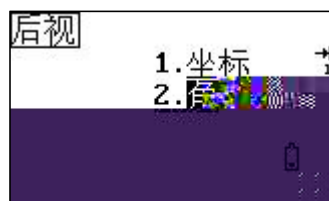


输入站 1
ST: [REDACTED]
HI: 1.200 m
CD: [REDACTED]
列表 堆栈



@





输入后视角度

AZ:



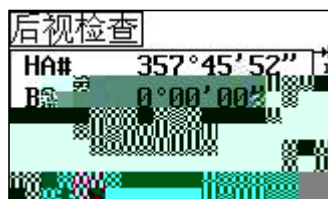
后交	<照准点01>		
HA#	12°43'53"		1
HD#	6.001 m		2
SD#	6.007 m		*
按[回车]到下一点			
F2			

输入PT		1
PT:		→ 1 ← 2
HT:	1.500 m	
CD:		
列表 堆		

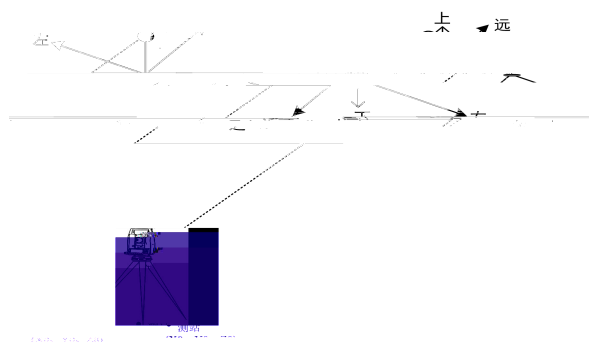
水准点		
HA#	359°22'55"	→ 1 ← 2
VD#		
HD#		
*照准点按		
F		



N :	0.000 m	→ 1 ← 2
E :	0.000 m	
Z :	1.308 m	
ST:657		
HI :	1.200 m	

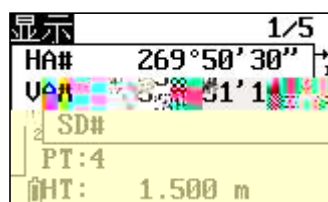
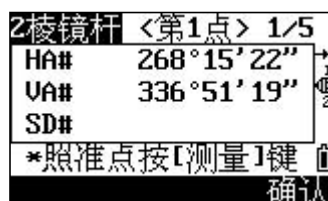
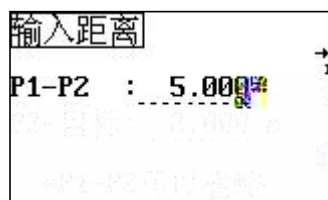


偏心 GHI
9



HA#	347°54'06"
VA#	143°08'51"
SD#	
HT:	1.500 m
*照准点按[测量]	
HT 66	

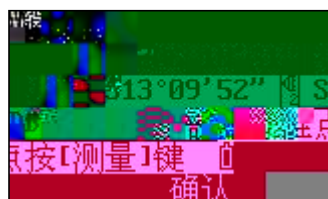
距离偏心	
左右:	
上下:	
*(+)=右(-)=左	

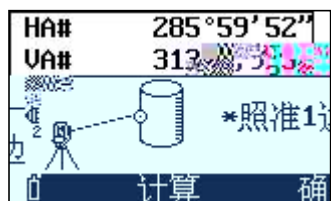
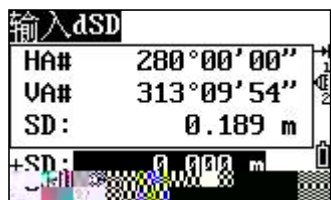


HA:	207°56'26"	A
VA	313°18'32"	1
SD:	0	1/2 m
PT:	5	
CD:		
列表 堆		

输入平距		
HA#	273°03'32"	1
VA#	313°09'50"	2
HD:	0.000 m	
*照准点按[回车]		

PT:	
HT:	1.500 m
CD:	
列表 堆	

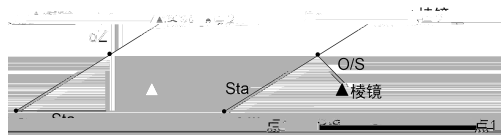


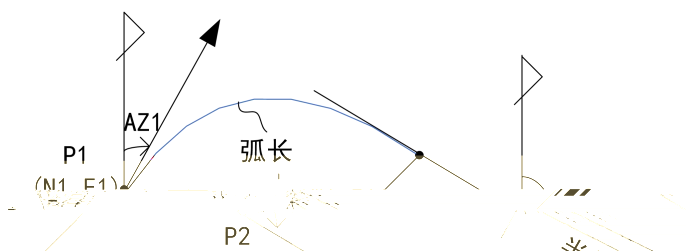


程序JKL
4

平面图：

纵面图：



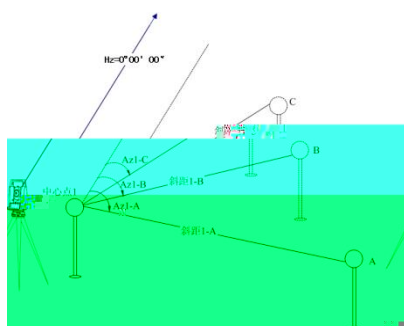


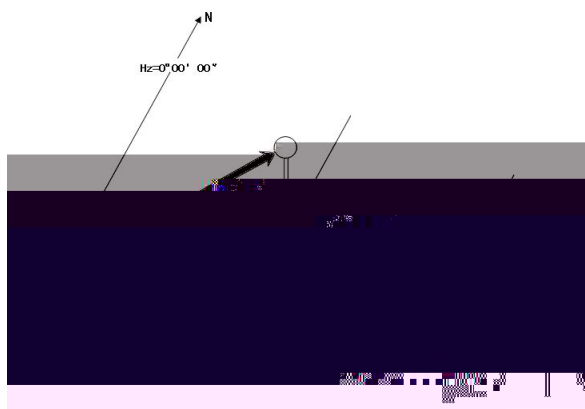
曲线起始点		1
P1:		1
AZ1:		2
测量 列表 堆栈		

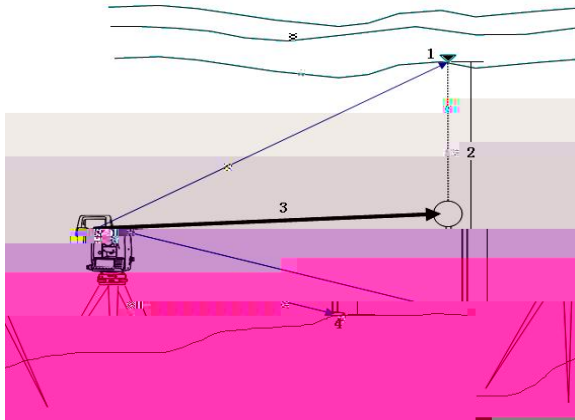
定义曲线	
1. P2-AZ2	
2. 半径-AZ2	

参考圆弧	
Rad:	0.275 m
Len:	0.240
AZ2:	50.00

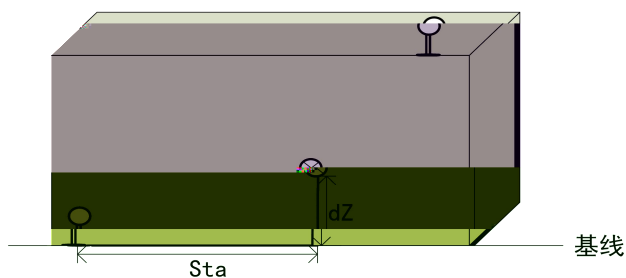








悬高	
HT:	1.000 m
Vh:	0.007 m
*按[回车]更新HT	



输入P1	
P1:	1
P2:	
测量 列表 堆栈	

U-平面 1/3	
STA:	0.018 m
dZ:	0.081 m
*STA: 是沿P1-P2线 到P1的距离	



输入P1		1
P1:		→ 1
P2:		← 2
P3:		
测量 列表 堆栈		

输入P3		1
P1:	29	→ 1
P2:	30	← 2
P3:		
测量 2点 列表 堆栈		

S-平面		1/3
a:	-0.018 m	1
b:	-0.094 m	2

输入PT		1
PT:		→
Rad:		→
CD:		→
从/到 列表 堆栈		

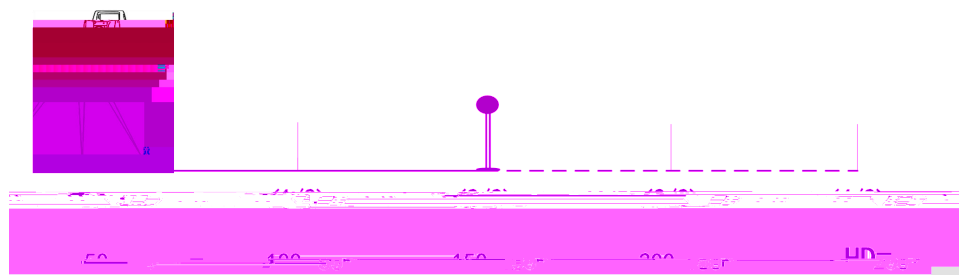
N :	-0.153	→
E :	1.374	→
Z :	3.503	→
PT:101		
CD:		

PT:101		
dAZ←	0°00'02"	→
um	2.150 m	→
准点按[测量]键		*照
确认		

PT:101		1/8
dHA↑	0°00'01"	→
停 ↑	0.000 m	→
远 ↑	0.002 m	→
填 ↑	0.001 m	→
*按[回车]记录		

PT:101		1/8
dHA	0°00'00"	1
停	0.000 m	2
停	0.001 m	3
停	0.001 m	4
*按[回车]记录		

N :	-0.153 m	1
E :	1.375 m	1
Z :	3.503 m	2
PT:	106	3
CD:		4
列表 堆栈		



N :	-1.32
E :	0.152 m
Z :	1.960

输入P1

P1: [REDACTED]

P2: [REDACTED]

测量 列表 堆栈

输入偏心

STA: [REDACTED]

O/S: [REDACTED]

dZ: [REDACTED]

*到P1点的纵向距离

参考线

dAZ← 168°20'50"

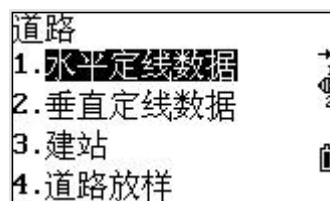
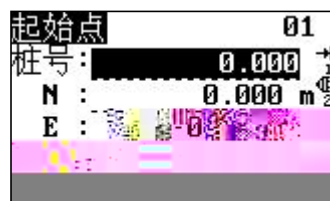
HD# 0.783 m

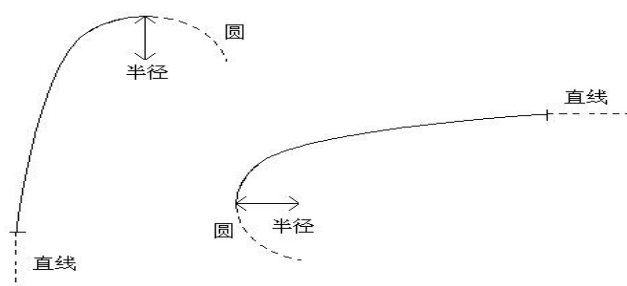
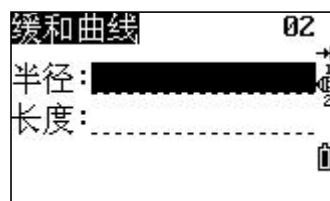
*照准点按[测量]键

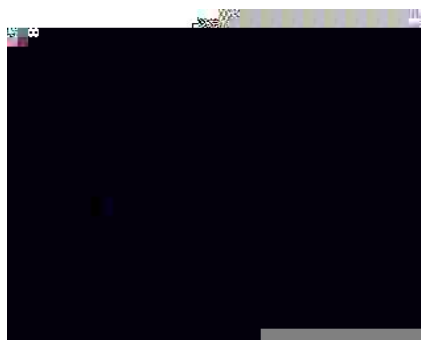
确认

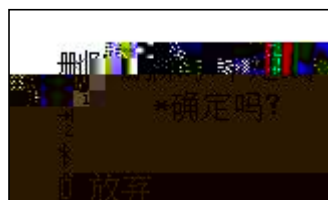
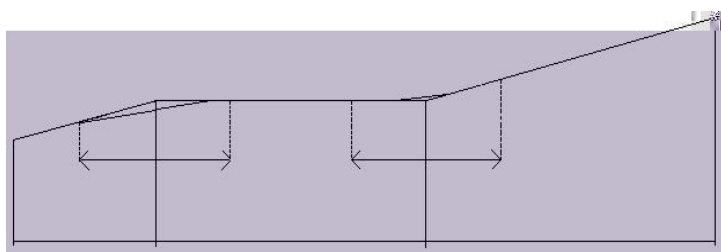
参考线	1/8
dHA←	169°54'40"
右 ←	0.137 m
近 ↓	1
	0.267 m

N :	-0.090 m
E :	-0.610 m
Z :	2.025 m
PT:	8
CD:	
列表 堆栈	



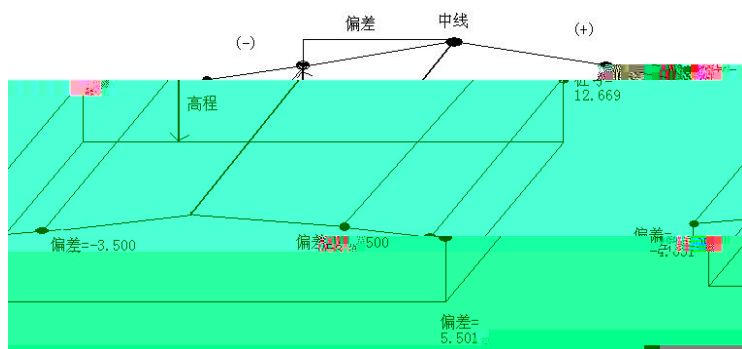




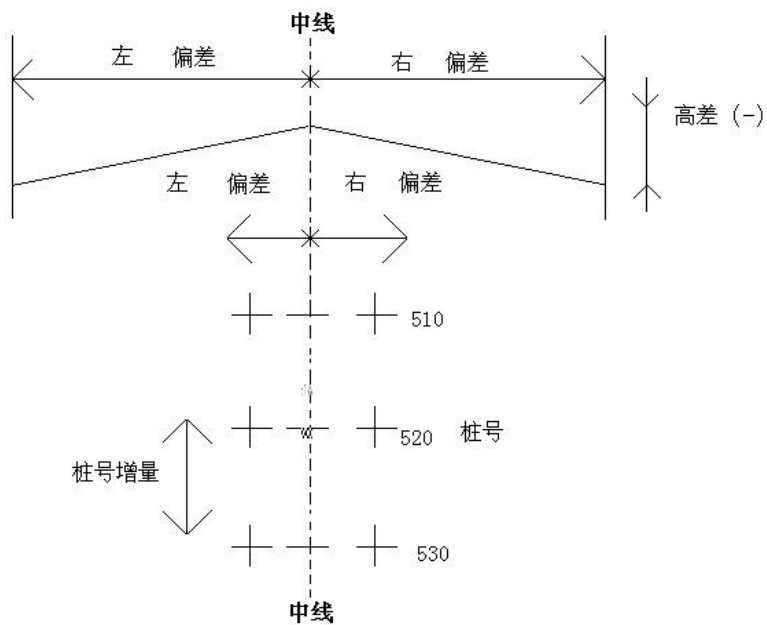


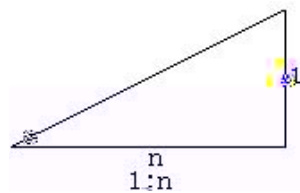
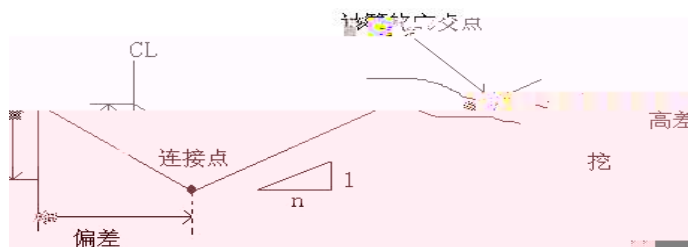
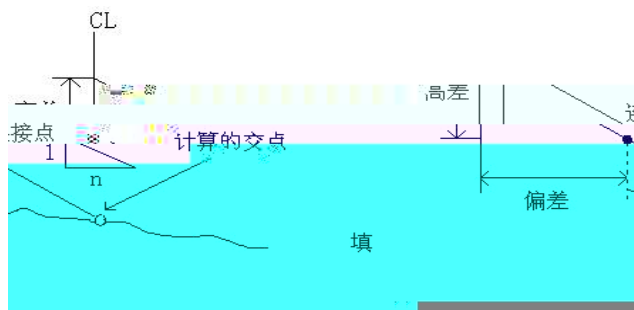
输入垂直定线		05
桩号:	10.00	
高程:	200.000 m	
长到:		

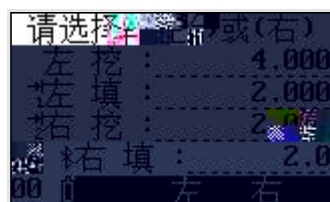
输入垂直定线		06
桩号:	0.000	
高程:	0.000 m	
长度:	0.000 m	

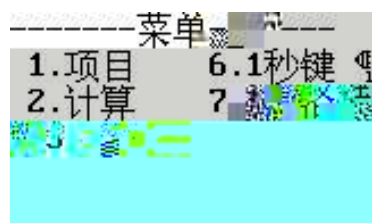


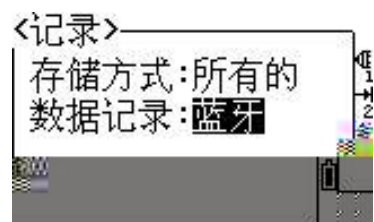
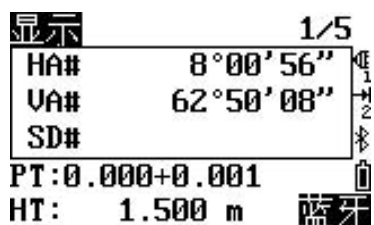










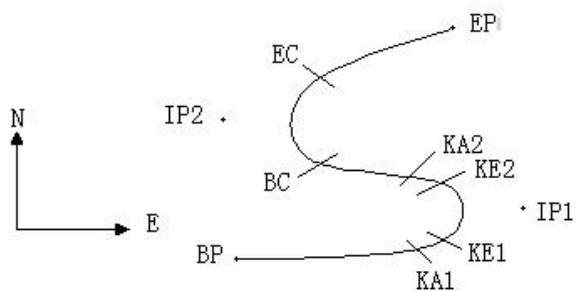


ΚΑ

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$$\Delta = - (1 - \cos \tau)$$

$$\Delta = 6.777 - 100(1 - \cos 18$$

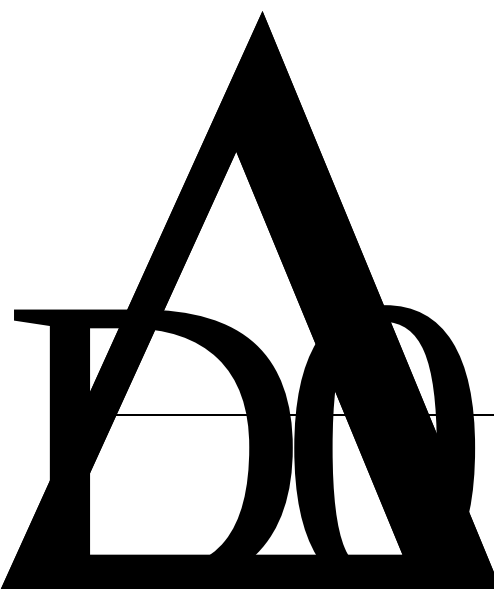
$$=$$

$$\Delta_1 = \Delta_2$$

$$= - \sin \tau$$

$$_1 = _2$$

$$_1 \text{ --- } _2 \text{ co }) \text{ --- } _1$$



$$\Rightarrow \alpha_1 =$$

$$_1 =$$

$$= \cdot \tan\left(\frac{}{2}\right) =$$

$$= ^{}_2 - \cdot \cos \alpha_2$$

$$= ^{}_2 - \cdot \sin \alpha_2$$

$$= ^{}_2 - \cdot \cos \alpha_3$$

$$= ^{}_2 - \cdot \sin \alpha_3$$

$$\alpha_2$$

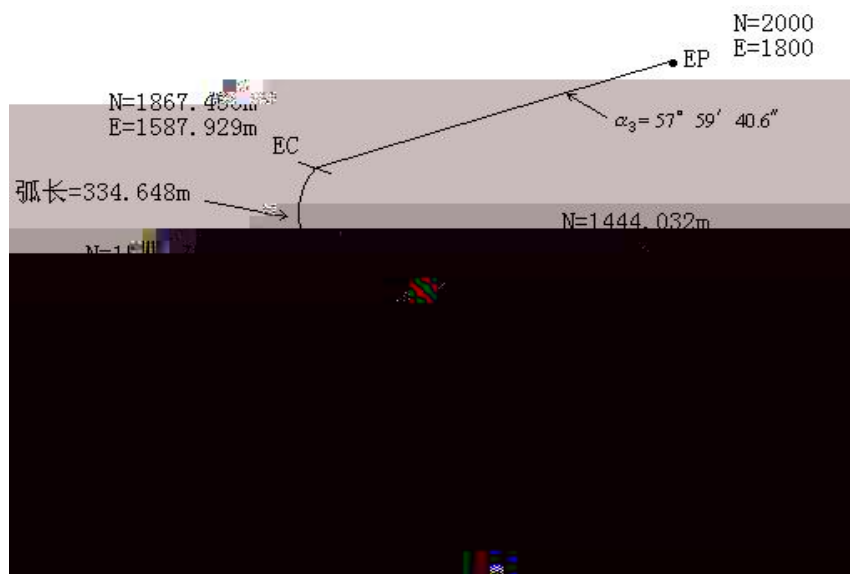
$$\alpha_3$$

$$=$$

$$=$$

$$=$$

$$=$$



$$\sqrt{(1249.872-1100.000)^2 + (1574.553-1050)^2} = 545.543$$

$$= \sqrt{(1575.068-1444.032)^2 + (1536.058-1637.976)^2} = 166.005$$

$$\sqrt{(2000-1867.456)^2 + (1800-1587.929)^2} = 250.084$$

