



南方测绘 NTS-332RM 系列 全站仪 ELECTRONIC STATION

操作手册

OPERATION MANUAL

V1.5



2.1		2
2.2		3
2.3		5
2.4		5
2.5		8
2.6		10
2.7		11
2.8		12
2.9		12
2.10		13

3.1		17
3.2		19
3.3		23

4.1		28
4.2		30
4.3		31

5.1		33
5.2	/	35
5.3		36
5.3.1		
5.3.2		
5.4	(%)	40
5.5		41

6.1		43
6.2		43
6.3		43
6.4	/ /	45
6.5		47

7.1		51
7.2		53
7.3		57
7.4		58

8.1		62
8.2		64
8.3		67
8.4		72
8.5		76
8.6		83
9.1		88
9.2		89
9.3		91
9.4		93
10.1		100
10.2		101
10.3		104
10.4		106
11.1		110
11.1.1		111
11.1.2		11
11.1.3		11
11.1.4		1 0
11.1.5		
12.1		122
12.2		127
12.3		129
12.4		132
12.5		134
13.1		136
13.1.1		1
13.1.2		1
13.1.3		1
13.1.4		1 0
13.2		141
13.3		142
13.4		144
13.5		145

1

2.1

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2.2

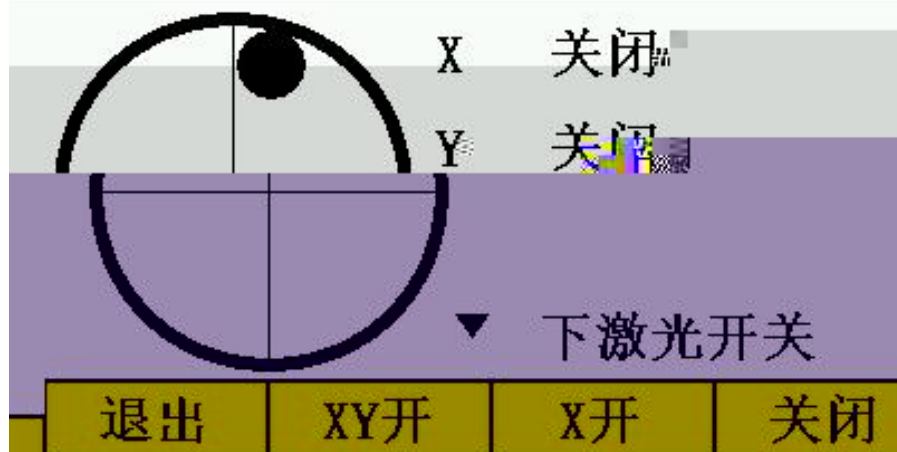




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测站点	123	
点名	<input style="width: 100%;" type="text"/>	
编码	<input style="width: 100%;" type="text"/>	
仪高	<input style="width: 80%;" type="text" value="0.000"/>	m
输入	新建	调用
下一步		

▼ →

测站点		123	   
点名	<input type="text"/>		
编码	<input type="text"/>		
仪高	 <input type="text"/>		
			下一步

测站点				123	   
点名	<input type="text"/>				
编码	<input type="text"/>				
仪高	<input type="text" value="1.5"/>	<input type="text"/> m			
			下一步		

$$[\Delta][\nabla], \quad \alpha$$

测站点

123



点名

编码

仪高 m

输入

新建

调用

下一步

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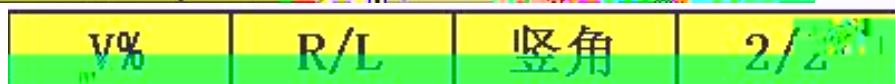
3.2

角度测量



垂直 $129^{\circ} 41' 07''$

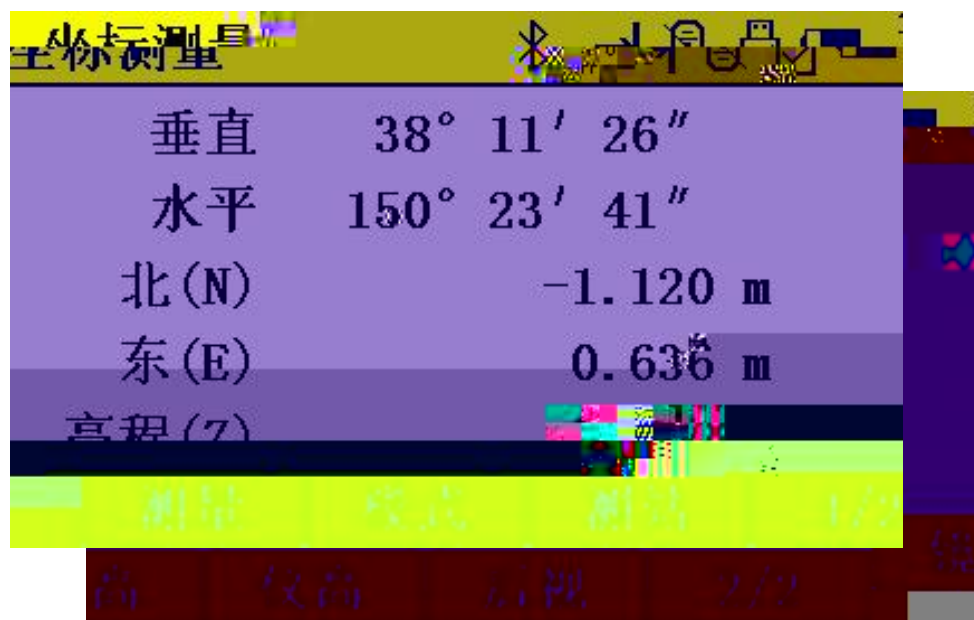
水平右 $222^{\circ} 15' 57''$



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	☐		
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快捷设置

1. 合作目标

2. 电子与汽

24



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1017hPa

TP改正		123	→	☰	☑	👤
温度	20.0		°C			
气压	1013.2		hPa			
DDM	0.0					
动 关						
		确定		返回		

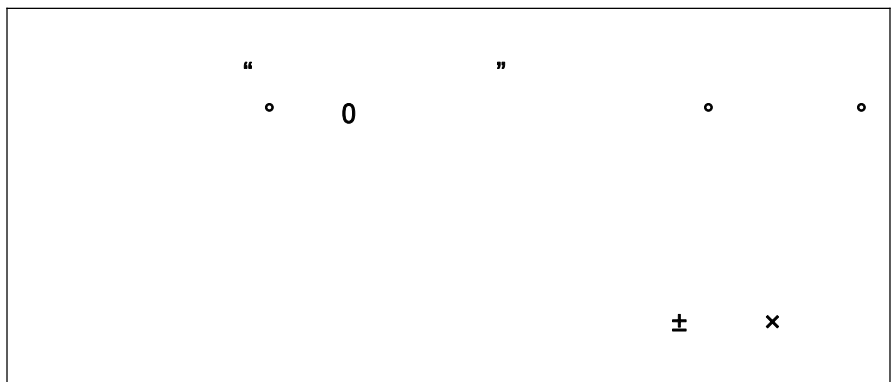






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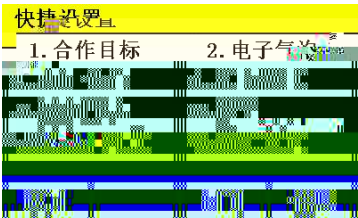
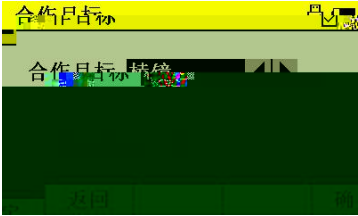
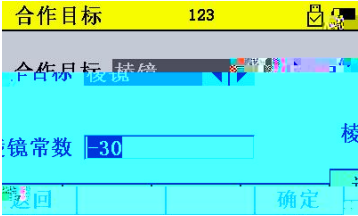


4.2

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<p>“ ”</p>		

4.3

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5.1

		<div> <div>角度測量</div> <div> </div> </div> <div> <div>垂直</div> <div>40° 45' 06"</div> </div> <div> <div>水平/右</div> <div>150° 2' 09"</div> </div> <div> <div>置零</div> <div>鎖定</div> <div>置盤</div> <div>1/2</div> </div>

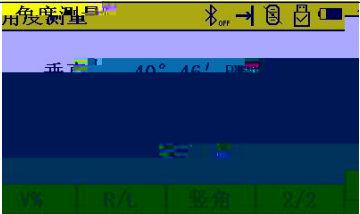
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		<div data-bbox="636 1082 986 1114">角度测量</div> <div data-bbox="636 1114 986 1273"> <div>垂直 40° 45' 25"</div> <div>水平右 32° 17' 36"</div> </div> <div data-bbox="636 1273 986 1305"> <div>置零</div> <div>锁定</div> <div>置盘</div> <div>1/2</div> </div>

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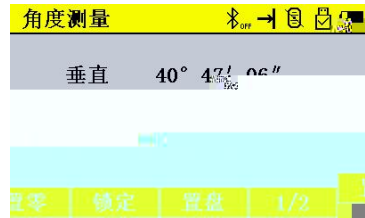
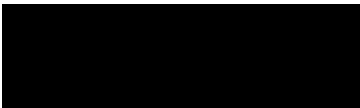
5.2 /

<div></div>	<div></div>	<div> <div> 角度测量      </div> <div> <div>垂直</div> <div>40° 46' 58"</div> </div> <div> <div>水平右</div> <div>359° 29' 34"</div> </div> <div> <div>V%</div> <div>R/L</div> <div>竖角</div> <div>2/2</div> </div> </div>

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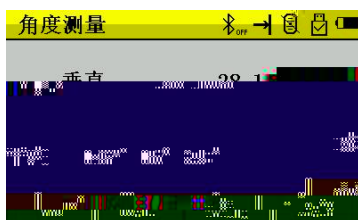
☐	☐	<div> <div>置盘123</div> <div>水平</div> <div>返回确定</div> </div>
	☐ ☐	<div> <div>置盘123</div> <div>水平150.1020</div> <div>返回确定</div> <div> <div>角度测量</div> <div>垂直40° 47' 51"</div> <div>水平左150° 10' 20"</div> </div> <div>置零锁定置盘1/2</div> </div>

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5.4 (%)

<div><div></div></div>	<div><div></div></div>	<div><div>角度测量</div><div><div><div>垂直</div><div>40° 49' 08"</div></div><div><div>水平左</div><div>150° 10' 24"</div></div></div><div><div>V%</div><div>R/L</div><div>竖角</div><div>2/2</div></div></div>





<div></div> <div>2</div>	<div></div>	<div> <div>角度測量</div> <div> <div>垂直</div> <div>96° 41' 14"</div> </div> <div> <div>水平左</div> <div>145° 18' 14"</div> </div> <div> <div>V%^{0.00}</div> <div>R/L</div> <div>豎角</div> <div>2/2</div> </div> </div>
<div></div> <div>*1</div>	<div></div>	<div> <div>角度測量</div> <div> <div>垂直</div> <div>- 6° 41' 15"</div> </div> <div> <div>水平左</div> <div>145° 01' 59"</div> </div> <div> <div>V%</div> <div>R/L</div> <div>豎角</div> <div>2/2</div> </div> </div>
<div></div>		

6.1

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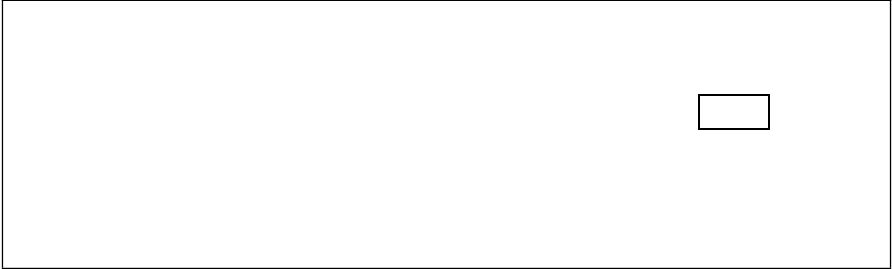
6.2

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6.3

)		<div>角度测量</div> <div> <div>垂直 96° 41' 28"</div> <div>水平左 128° 05' 51"</div> </div> <div>置零 锁定 置盘 1/2</div>
		<div>距离测量</div> <div> <div>垂直 96° 41' 28"</div> <div>水平 133° 23' 17"</div> <div>斜距 0.219 m</div> <div>平距 0.218 m</div> <div>垂距 -0.026 m</div> </div> <div>模式 放样 测量</div>
<div>“ ”</div> <div>“ ”</div>		



6.4

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		<p>角度測量     </p> <p>垂直 96° 41' 28"</p> <p>水平右 224° 18' 20"</p> 
		<p>距离測量     </p> <p>垂直</p> 
		<p>模式设置    </p> <p>测量模式</p> <p>测量次数</p> 

6.5

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距离测量		蓝牙	→	⑧	⑨	⑩
垂直	96° 41' 29"					
水平	221° 41' 44"					
斜距	0.215 m					
平距	0.214 m					
垂距	-0.025 m					

距离放样		123					
<div>斜距 0.000 m</div>							
斜距	0.000	m					

距离放样		123				
高差 0.000 m						
斜距	水平	垂直	方位角	方位角	方位角	方位角

	<div></div>	<div> <div>距离放样123</div> <div>高差 1.5 m</div> <div> <div>斜距</div> <div>平距</div> <div>垂距</div> <div>确定</div> </div> </div>
		<div> <div>距离放样</div> <div> <div>垂直 96° 41' 29"</div> <div>水平 219° 32' 49"</div> <div> <div>垂距</div> <div>垂距差</div> </div> </div> <div> <div>模式</div> <div>放样</div> <div>测量</div> </div> </div>

0m		<div> <div>距离放样</div> <div> <div>垂直</div> <div>89° 53' 35"</div> </div> <div> <div>水平</div> <div>213° 39' 24"</div> </div> <div> <div>垂距</div> <div>0.000 m</div> </div> <div> <div>垂距差</div> <div>0.000 m</div> </div> <div> <div>测量</div> <div>模式</div> <div>放样</div> </div> </div>
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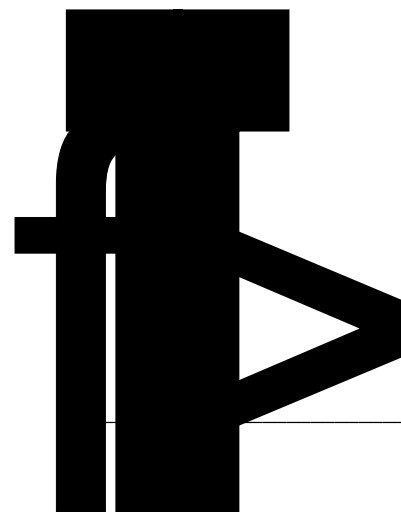
66

99

66

99

11



度测量

Bluetooth → 0 0.00

垂直 $89^{\circ} 53' 36''$

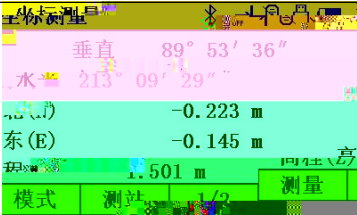
水平右 $213^{\circ} 09' 28''$

置零

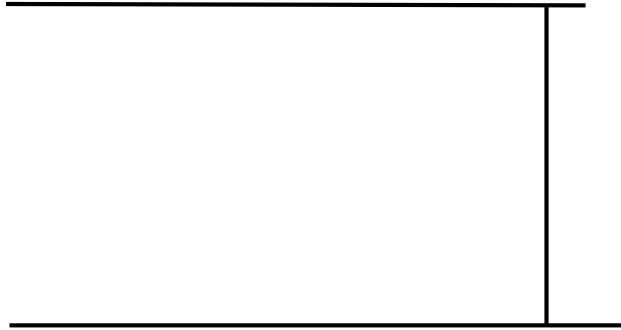
锁定

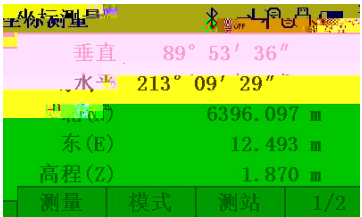
置盘

1/2

		 <p> 坐标测量 垂直 89° 53' 36" 水 213° 09' 29" 高 (H) -0.223 m 东 (E) -0.145 m 距离 1.501 m 模式 测站 1/2 测量 </p>
“	”	

7.2

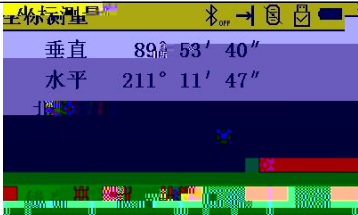
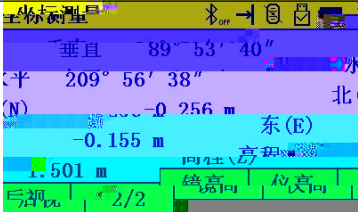


7.3

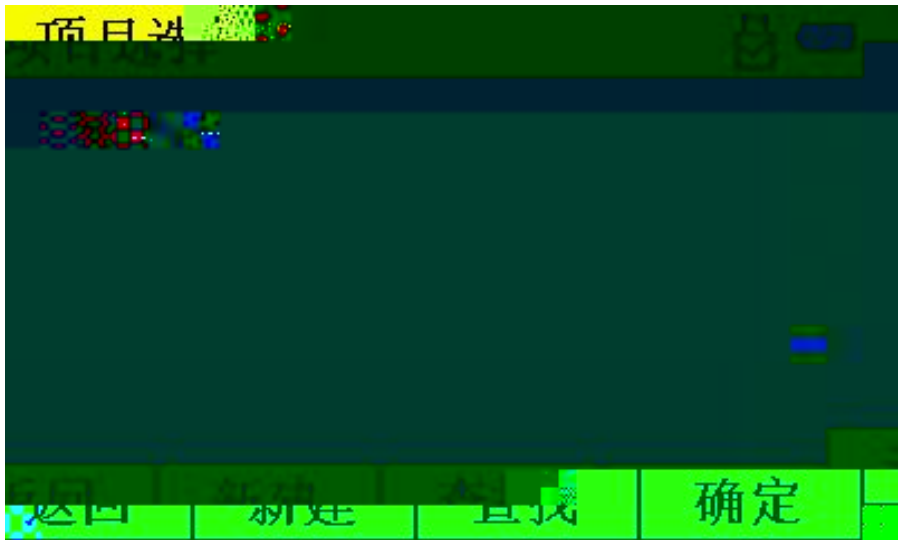
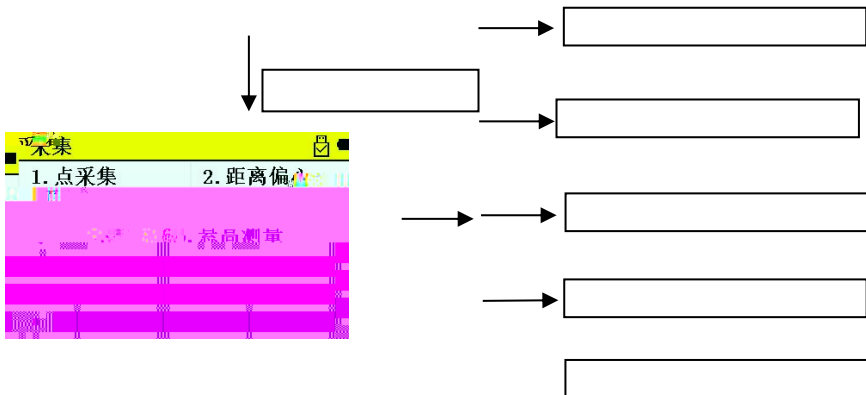


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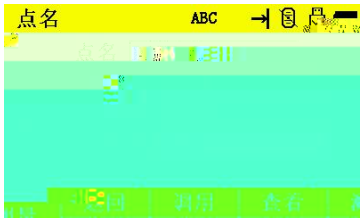




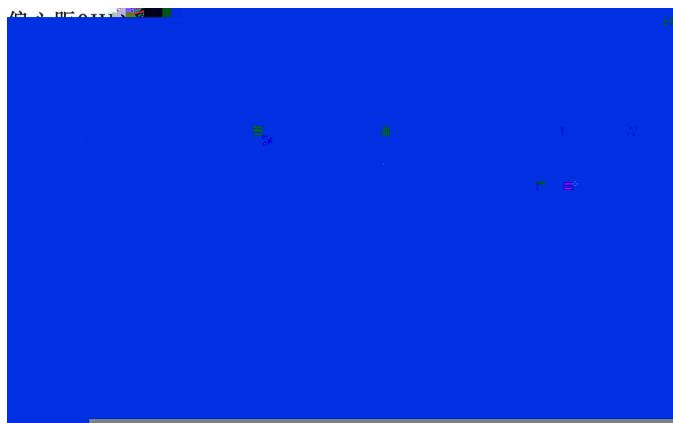
8.1

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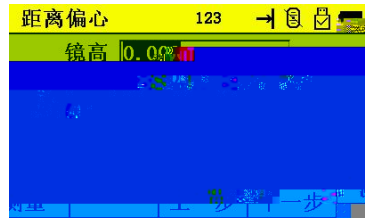
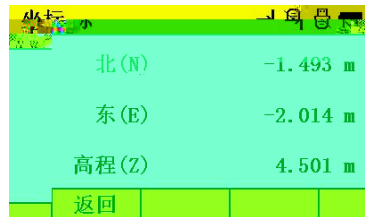
		

8.2

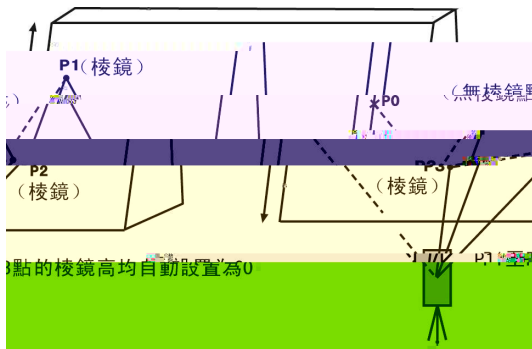




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8.3



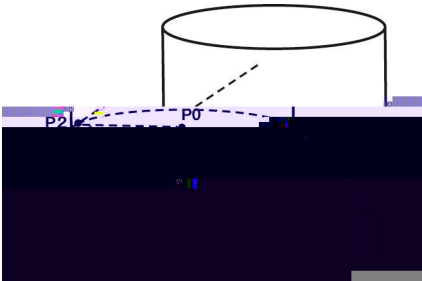
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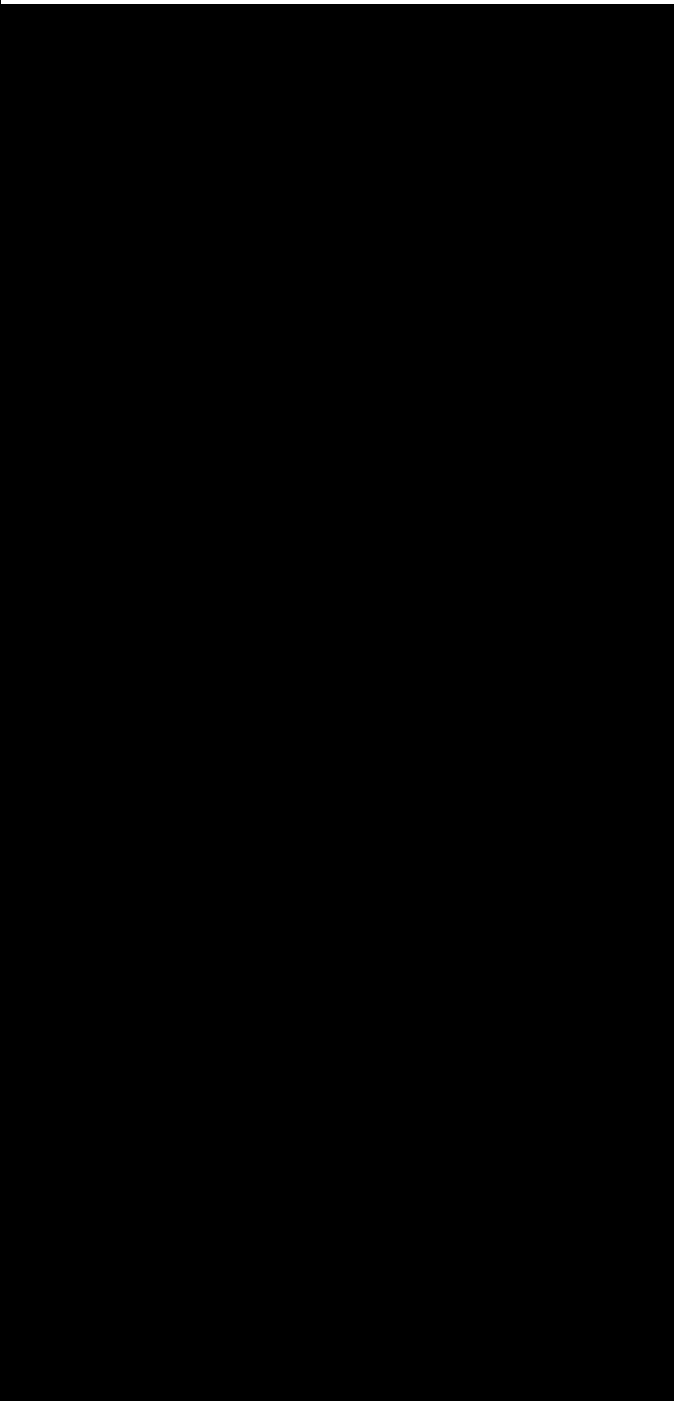
		
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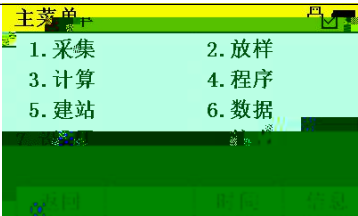
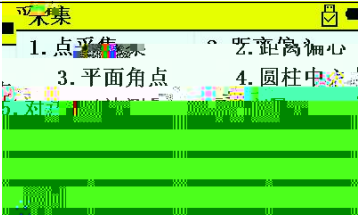
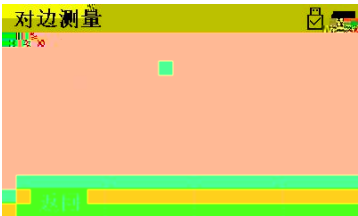
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☐	☐	<div> <div>编码数据</div> <div> <div> <div>上页</div> <div>←</div> <div>下页</div> <div>→</div> </div> <div> <div>返回</div> <div>新建</div> <div>查找</div> <div>确定</div> </div> </div> </div>

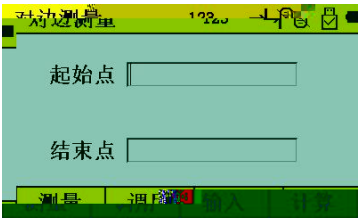
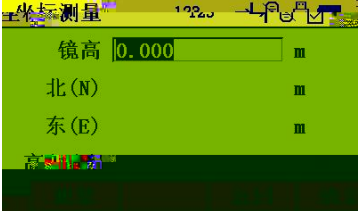
8.4

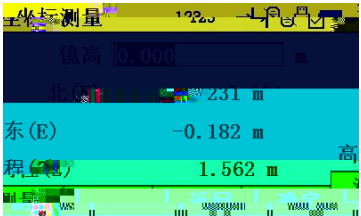
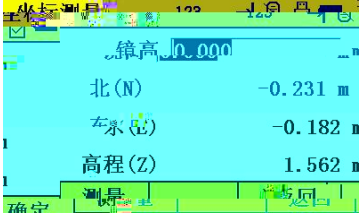
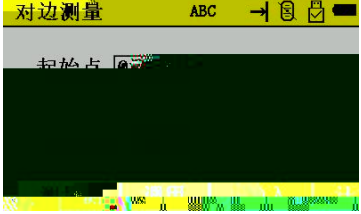




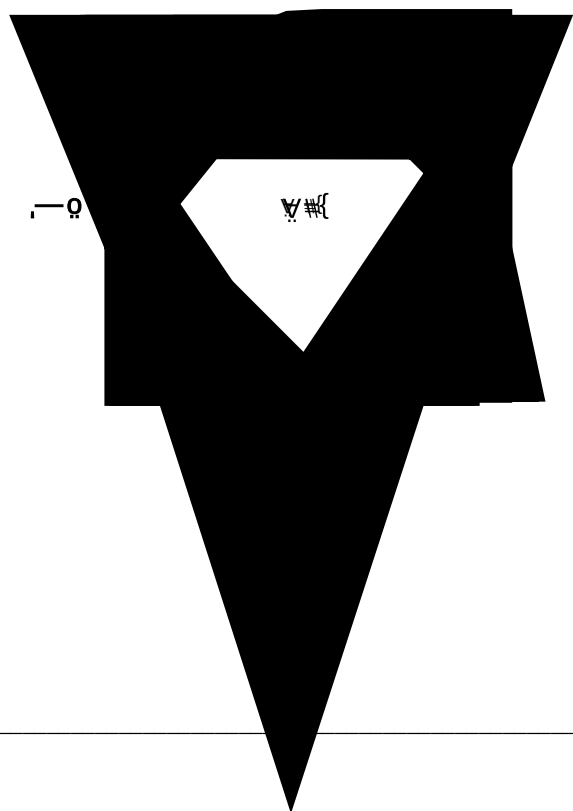
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<div data-bbox="366 1008 400 1045" data-label="Image"></div>	<div data-bbox="498 1008 533 1045" data-label="Image"></div>	

<div data-bbox="190 276 232 312" data-label="Image"> </div>		 <p> 坐标测量 高程 0.000 m 北 (N) -0.231 m 东 (E) -0.182 m 高程 (Z) 1.562 m </p>
<div data-bbox="364 620 402 657" data-label="Image"> </div>	<div data-bbox="498 620 535 657" data-label="Image"> </div>	 <p> 坐标测量 高程 0.000 m 北 (N) -0.231 m 东 (E) -0.182 m 高程 (Z) 1.562 m </p>
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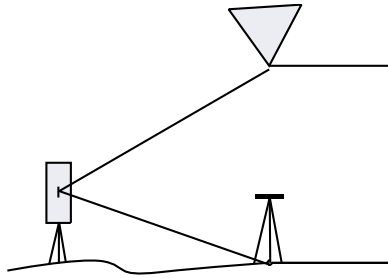


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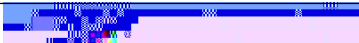
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<div></div>	<div></div>	<div> <div>对边测量ABC</div> <div> <div>起始点输入</div> <div>结束点</div> </div> <div> <div>测量</div> <div>输入</div> <div>计算</div> </div> </div>

		<div style="background-color: #ffff00; padding: 2px; border: 1px solid black;"> 对边测量 ABC </div> <div style="background-color: #e0ffe0; padding: 5px; border: 1px solid black;"> 起始点 <input type="text" value="@输入"/> 结束点 <input type="text" value="B"/> </div> <div style="background-color: #008000; color: white; padding: 2px; border: 1px solid black;"> 测量 温度 <input type="text" value="输入"/> 计算 </div>
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8.6



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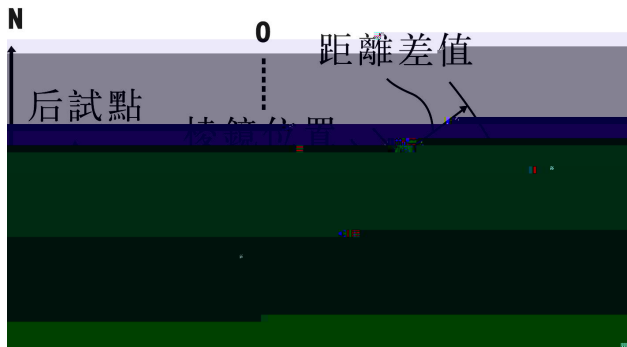
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	<div data-bbox="524 890 560 928"></div>	<div data-bbox="630 799 988 842">  </div>
		<div data-bbox="630 1003 988 1222"> <div> <div>悬高测量</div> <div>123</div> <div>→</div> <div>📏</div> <div>📐</div> <div>🔍</div> </div> <div> <div>镜高</div> <div>1.25</div> <div>m</div> </div> <div> <div>垂直</div> <div>78° 06' 09"</div> </div> <div> <div>垂距</div> <div>m</div> </div> <div> <div>高程(Z)</div> <div>m</div> </div> <div> <div>测量</div> </div> </div>

		
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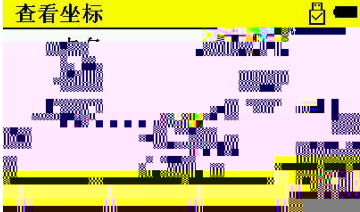
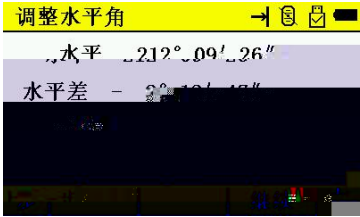
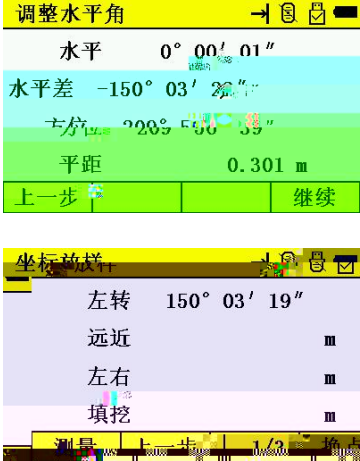
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<div data-bbox="188 284 210 323" data-label="Image"></div>	<div data-bbox="527 284 563 323" data-label="Image"></div>	<div data-bbox="631 186 988 229" data-label="Image"></div>
<div data-bbox="384 443 420 483" data-label="Image"></div>		<div data-bbox="631 405 988 448" data-label="Image"></div>
		<div data-bbox="631 660 988 703" data-label="Image"></div>

“ ”





☐	☐	<p>查看坐标</p> 
☐	☐	<p>坐标放样 123</p> <p>点名 DATE-1</p> <p>镜高 0.000 m</p> <p>输入 新建 调用 放样</p>
☐	☐	<p>调整水平角</p> <p>水平 212° 09' 26"</p> <p>水平差 - 2° 10' 18"</p> 
☐ ☐	☐ ☐	<p>调整水平角</p> <p>水平 0° 00' 01"</p> <p>水平差 -150° 03' 26"</p> <p>方位角 200° 50' 39"</p> <p>平距 0.301 m</p> <p>上一步 继续</p> <p>坐标放样</p> <p>左转 150° 03' 19"</p> <p>远近 m</p> <p>左右 m</p> <p>填挖 m</p> <p>测量 上一步</p> 

	☐	<div> <div>角度距离放样 1:23</div> <div> <div>方位角 0</div> <div>平距 50 m</div> <div>高差 2.2 m</div> <div>镜高 1.3 m</div> </div> <div> <div>返回</div> <div>放样</div> </div> </div>
☐	☐	<div> <div>调整水平角</div> <div> <div>水平</div> <div>水平差 - 39° 25' 49"</div> <div>方位 0° 00' 00"</div> <div>平距 50.000 m</div> </div> <div> <div>一步</div> <div>继续</div> <div>上</div> </div> </div>
☐ ☐	☐ ☐	<div> <div>调整水平角</div> <div> <div>水平 0° 00' 01"</div> <div>水平差 - 0° 00' 01"</div> </div> <div> <div>继续</div> <div>上</div> </div> </div> <div> <div>全站放样</div> <div> <div>左转 0° 00' 00"</div> <div>远近</div> <div>左右</div> <div>填挖</div> </div> <div> <div>测量</div> <div>上一步</div> <div>下一步</div> </div> </div>

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9.4



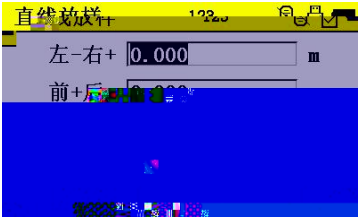
直线放样 123

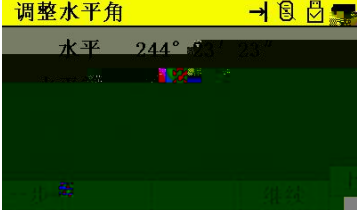
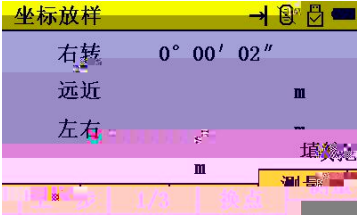
P1

P2

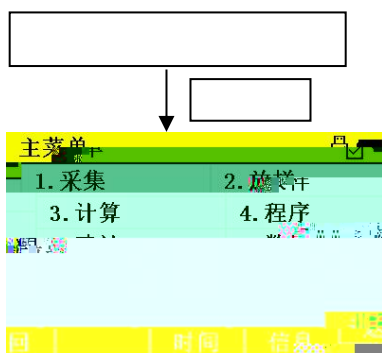
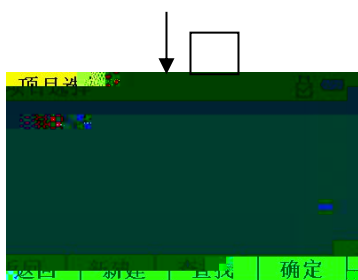
定义基线 P1>P2

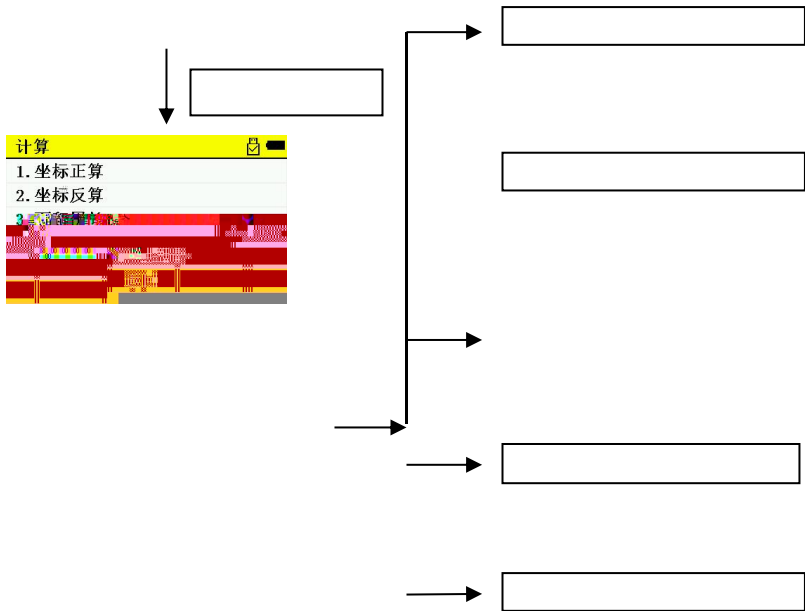
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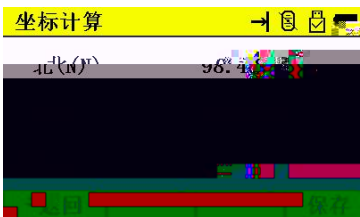
<div data-bbox="189 525 225 563"></div>	<div data-bbox="526 525 562 563"></div>	<div data-bbox="630 204 988 422"> <p>全站放样</p> <p>左转 0° 15' 40"</p> <p>北(N) -0.121 m</p> <p>东(E) -0.255 m</p> <p>高程(Z) 0.172 m</p> <p>测量 上一步</p> </div> <div data-bbox="630 624 988 842"> <p>全站放样</p> <p>左转 0° 15' 43"</p> <p>向南 0.729 m</p> <p>向西 1.510 m</p> <p>测量 上一步</p> </div>
<div data-bbox="191 1110 227 1149"></div>	<div data-bbox="526 1129 562 1168"></div>	<div data-bbox="630 1038 988 1257"> <p>直线放样 123</p> <p>左-右+ 0.000 m</p> <p>前+后- 0.000 m</p> <p>上+下- 0.000 m</p> <p>沿PI-PR方向</p> <p>偏心 确</p> </div>





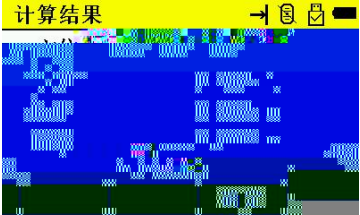
10.1

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10.2

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		<div> <div>坐标测量</div> <div> <div> <div>镜高</div> <div>北(N)</div> <div>东(E)</div> </div> <div> <div>0.119</div> <div>0.055</div> </div> </div> <div> <div>测量</div> <div>调用</div> <div>输入</div> <div>计算</div> </div> </div>
		<div> <div>坐标反算123</div> <div> <div>起始点</div> <div>结束点</div> </div> <div> <div>测量</div> <div>调用</div> <div>输入</div> <div>计算</div> </div> </div>

10.3

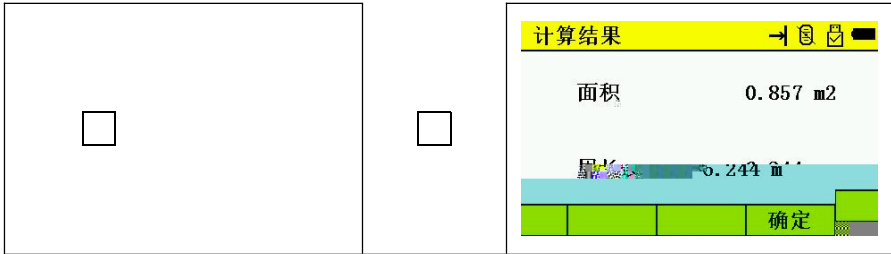


坐标测量		122.3	[图标]	
镜高	[0]	m		
北(N)	0.261	m		
东(E)	-0.171	m		
高程(Z)	1.435	m		
测量	返回	确定		

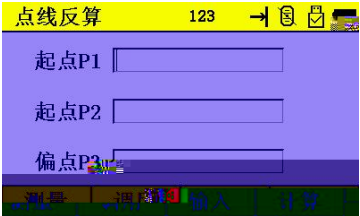


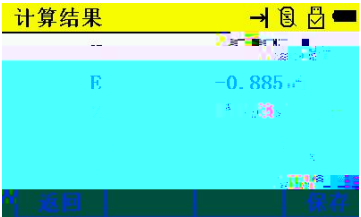
新增点		123	[图标]	
点名	[@测量]			
测量	取消	输入	确定	

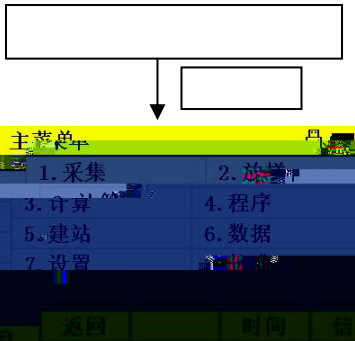
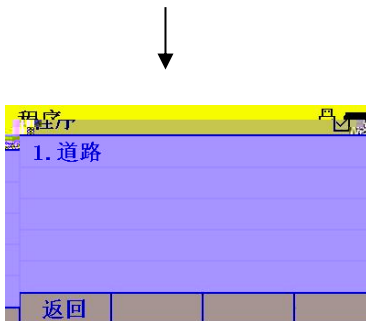




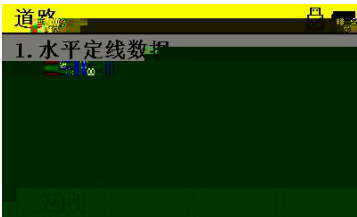
10.4

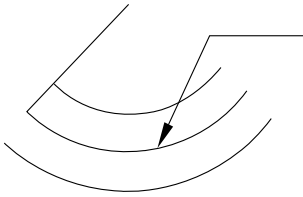
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11.1.1



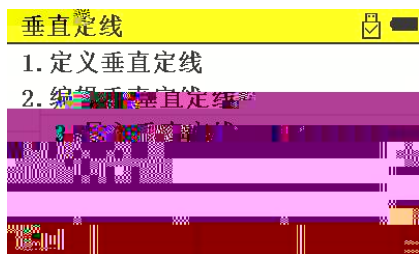
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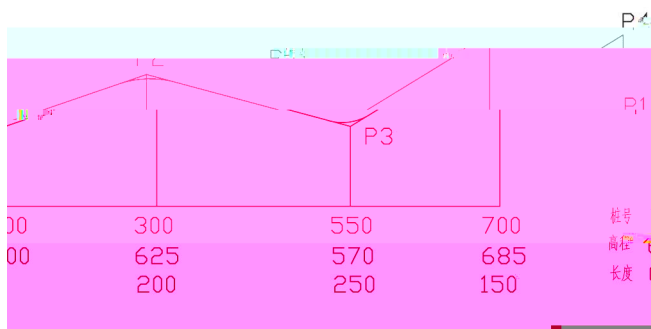
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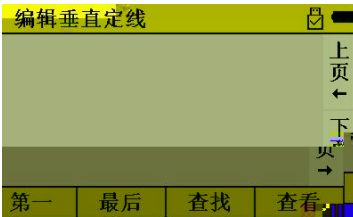
11.1.2

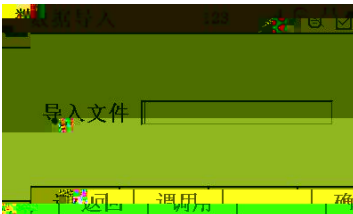




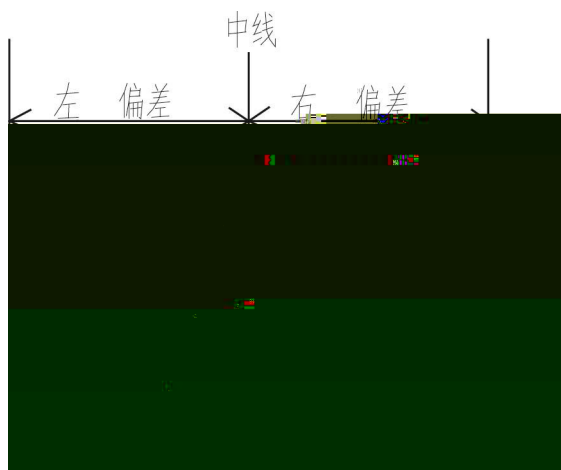
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		<div>垂直定线 123</div> <div> <div>高度 20</div> </div>

		<div>垂直定线</div> <div> 1. 定义垂直定线 2. 编辑垂直定线 3. 导入垂直定线 </div> <div>返回</div>

		
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11.1.3



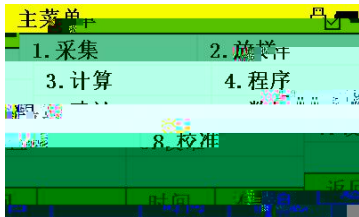
	☐	<div>放样坐标 </div> <div>北(N) 2135.977 m</div> <div>东(E) 5215.494 m</div> <div>高程(Z) 21.000 m</div> <div>返回  下一步 </div>
		<div>坐标放样 </div> <div>右转 </div> <div>远近 m</div> <div>左右 m</div> <div>填挖 </div>

11.1.4

	<div>单点计算 123 </div> <div>里程 100.000 m</div> <div>点名 7</div> <div>返回  确定 </div>
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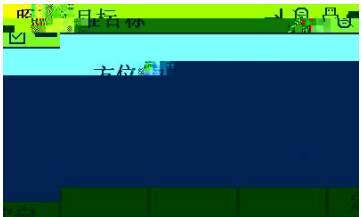
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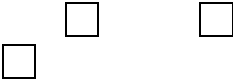
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7

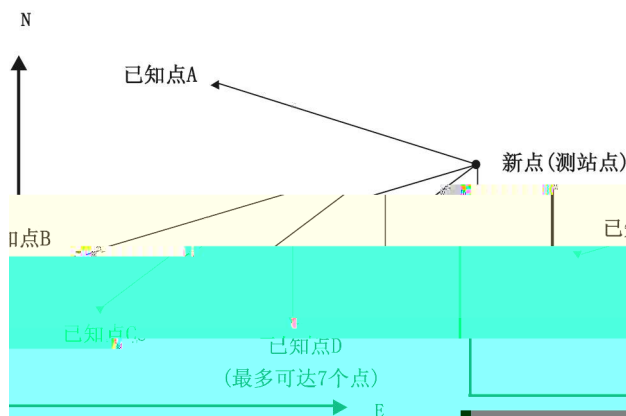
		
		
		
		
		

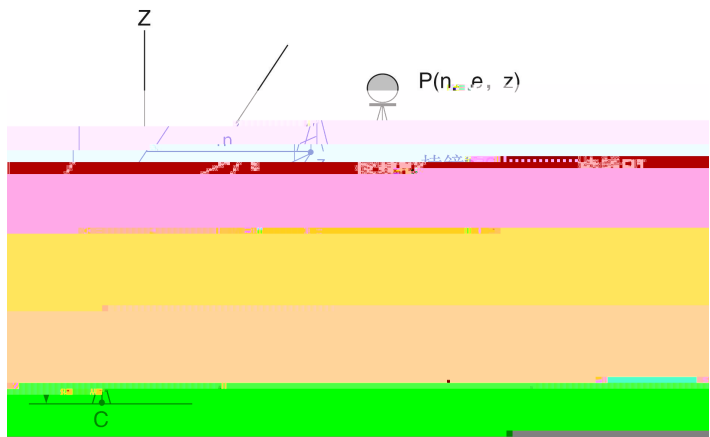


12.2

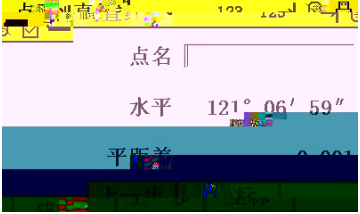
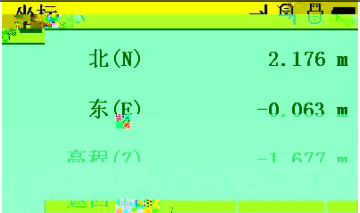


	<div></div>	<div> <div> 后方交会 123  </div> <div> <div>点1</div> <div>25</div> </div> <div> <div>镜高</div> <div>0.000</div> <div>m</div> </div> <div> <div>方位角</div> <div>120° 12' 11"</div> </div> <div> <div>平距</div> <div>2.286</div> <div>m</div> </div> <div> <div>斜距</div> <div>2.835</div> <div>m</div> </div> <div> <div>测距</div> <div>确定</div> </div> </div>
		<div> <div> 后方交会 123  </div> <div> <div>点2</div> <div>5</div> </div> <div> <div>镜高</div> <div>0.000</div> <div>m</div> </div> <div> <div>方位角</div> <div>120° 12' 11"</div> </div> <div> <div>平距</div> <div></div> <div>m</div> </div> <div> <div>斜距</div> <div></div> <div>m</div> </div> <div> <div>输入</div> <div>调用</div> <div>测距</div> <div>确定</div> </div> </div>

12.3

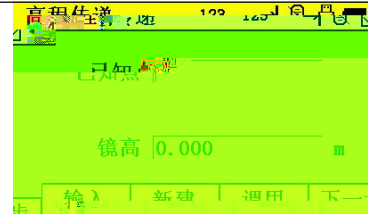


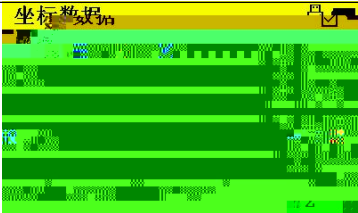
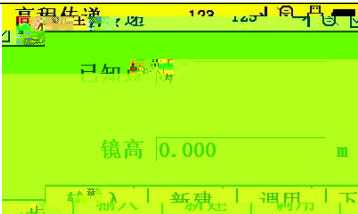
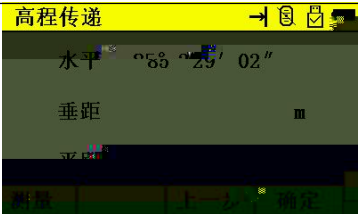
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<div></div>	<div></div>	<div> <div>测量P1123</div> <div> <div>仪高</div> <div>0.000</div> <div>m</div> </div> <div> <div>镜高</div> <div>0.000</div> <div>m</div> </div> <div> <div>平距</div> <div>2.23</div> <div>m</div> </div> <div> <div>垂距</div> <div>1.677</div> <div>m</div> </div> <div> <div>斜距</div> <div>2.650</div> <div>m</div> </div> <div> <div>测量</div> <div>下一站</div> </div> </div>

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12.4

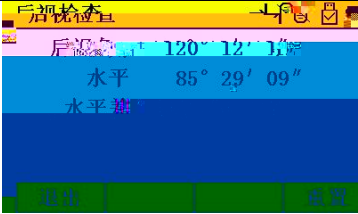
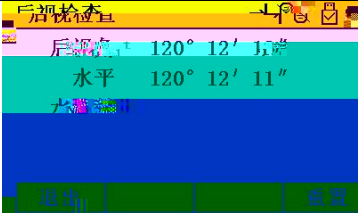
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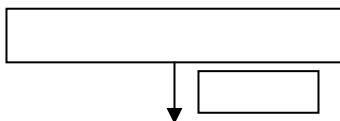
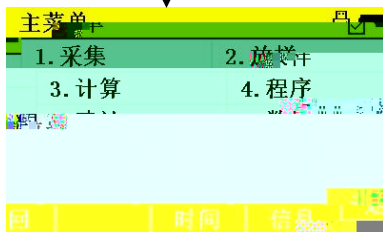
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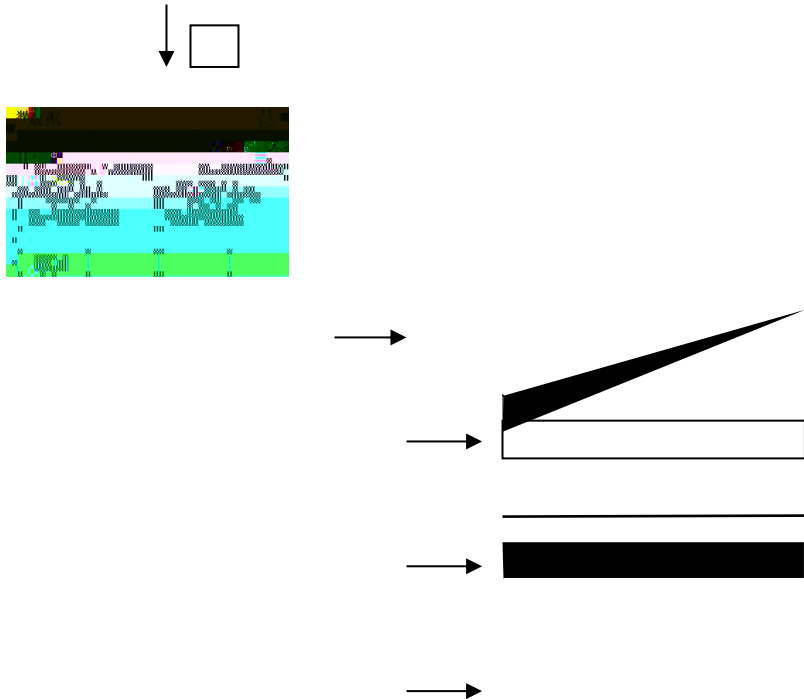
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12.5

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13.1

13.1.1

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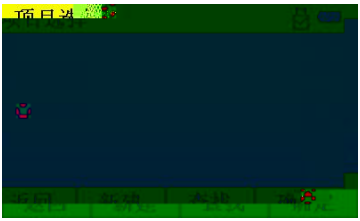
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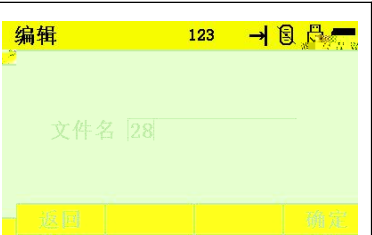
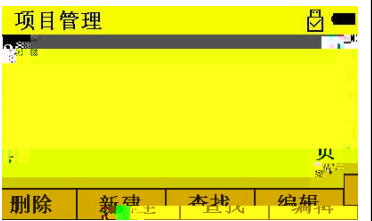
13.1.1.2

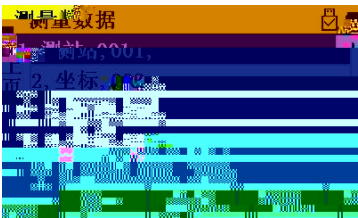
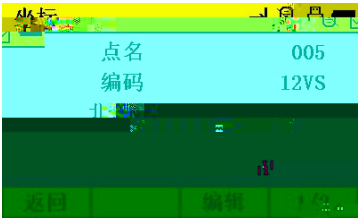
13.1.4

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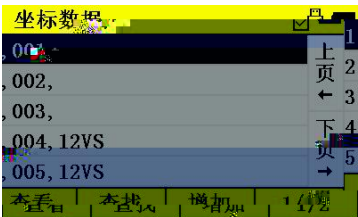
13.2

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13.3

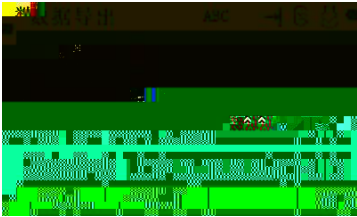
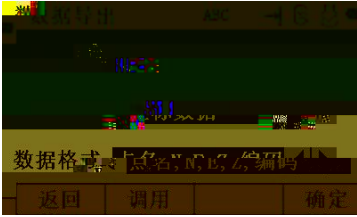
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13.4

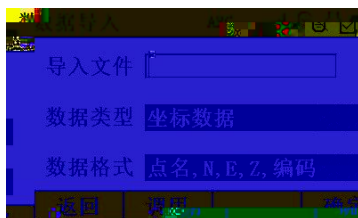
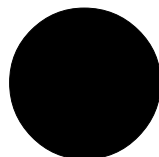
<div></div>	<div></div>	<div> <div>编码数据</div> <div> <div>011</div> <div>02A</div> <div>03B</div> <div>04C</div> </div> <div> <div>删除</div> <div>新建</div> <div>查找</div> <div>编辑</div> </div> </div>
<div> <div></div> <div></div> <div></div> <div></div> </div>		

13.5

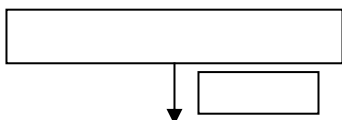
		  

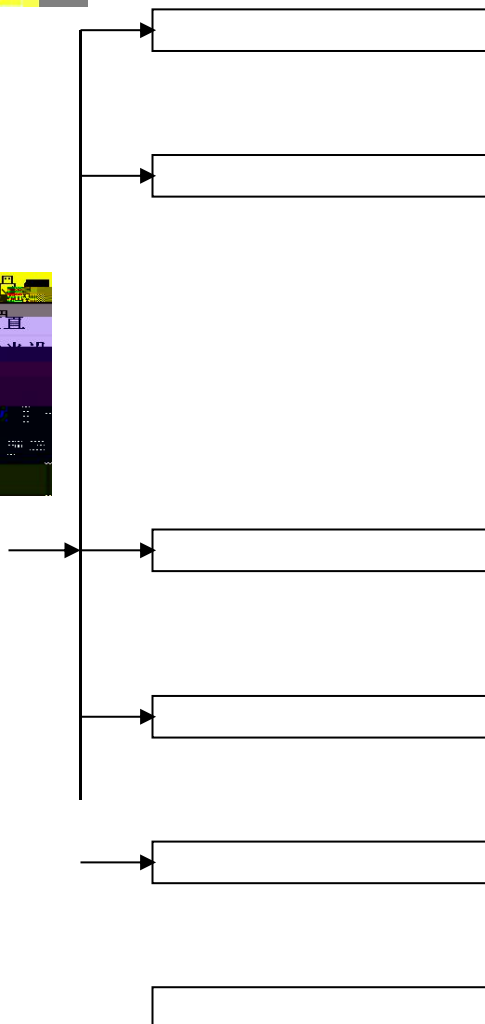
13.6

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<div data-bbox="190 274 226 311" data-label="Image"> </div>		<div data-bbox="629 204 988 421" data-label="Image"> </div>
<div data-bbox="188 547 215 584" data-label="Image"> </div>	<div data-bbox="535 525 556 563" data-label="Image"> </div>	<div data-bbox="629 453 988 671" data-label="Image"> </div>
<div data-bbox="188 778 226 815" data-label="Image"> </div>		<div data-bbox="629 707 988 924" data-label="Image"> </div>

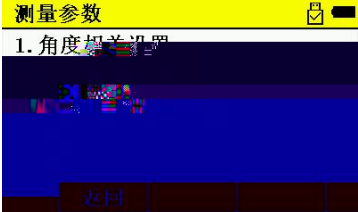




14.1

14.1.1

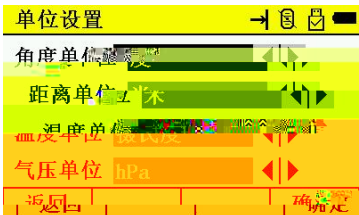
q j .

14.1.3

14.2

14.3

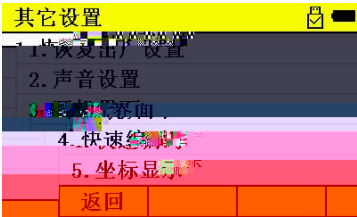
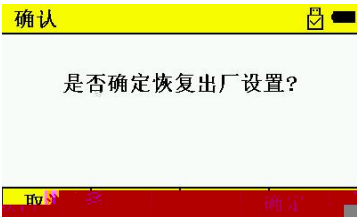
14.4

<div>①</div> <div></div>	<div></div>	<div>电源背光</div> <div>1. 电源管理</div> <div>2. 背光设置</div> <div>3. 十字丝背光</div> <div>返回</div>
<div></div> <div></div> <div></div> <div></div> <div></div> <div></div>	<div></div>	<div>电源管理</div> <div>休眠时间 0</div> <div>关机时间 0</div>
	<div></div>	<div>背光设置</div> <div>自动背光 关</div> <div>双面背光 开</div> <div>按键背光 开</div> <div>背光亮度 7</div> <div>返回</div> <div>确定</div>
	<div></div>	<div>十字丝背光</div> <div>开关 开</div> <div>亮度</div> <div>退出</div>

14.5

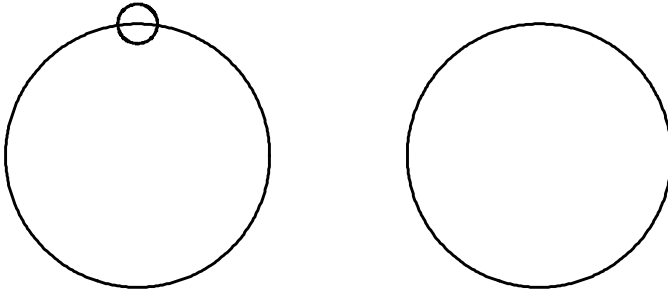
		
		

14.6

	<div data-bbox="546 293 566 331" data-label="Image"> </div>	<div data-bbox="628 188 987 421" data-label="Image"> </div>
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15.1



15.3



电子气泡




双轴校核





1 正镜 盘左照准目标

X:

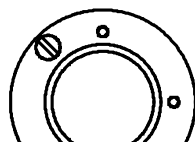
01' 05"

Y:

-00' 39"

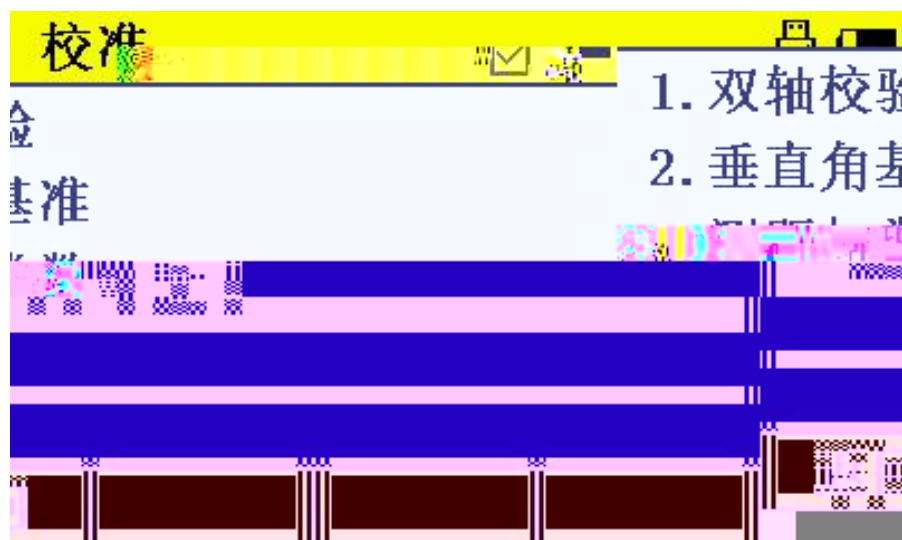
返回			确定
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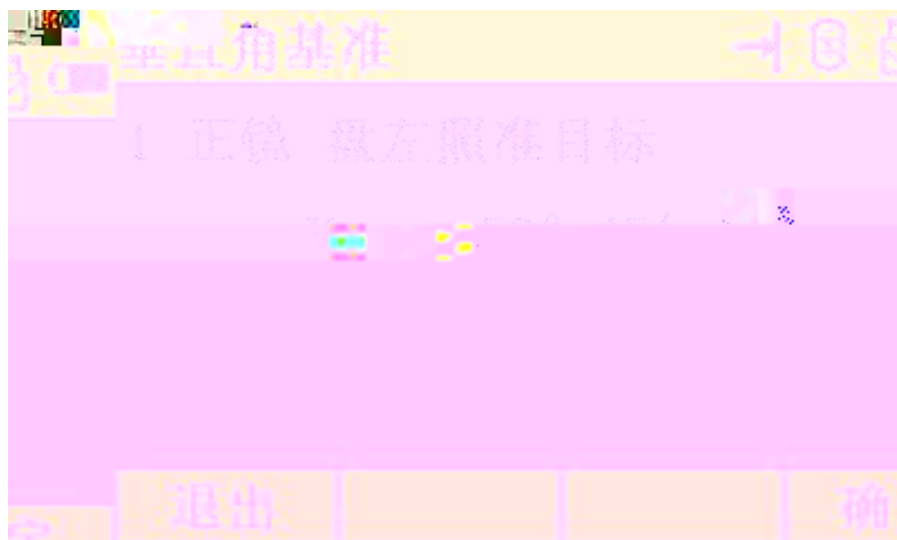


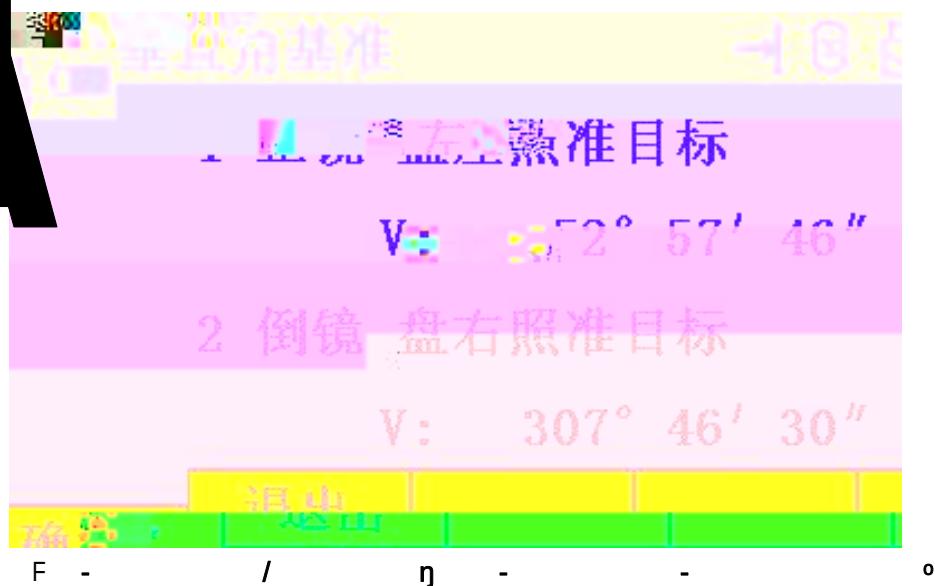


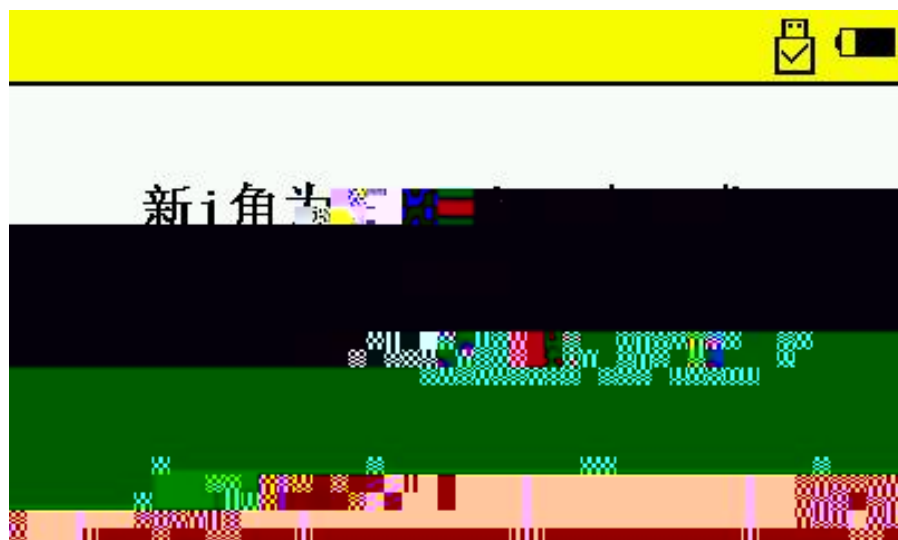
十字丝校正螺钉四个

分划板







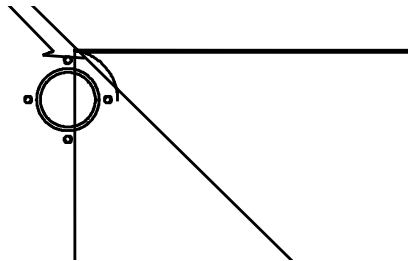


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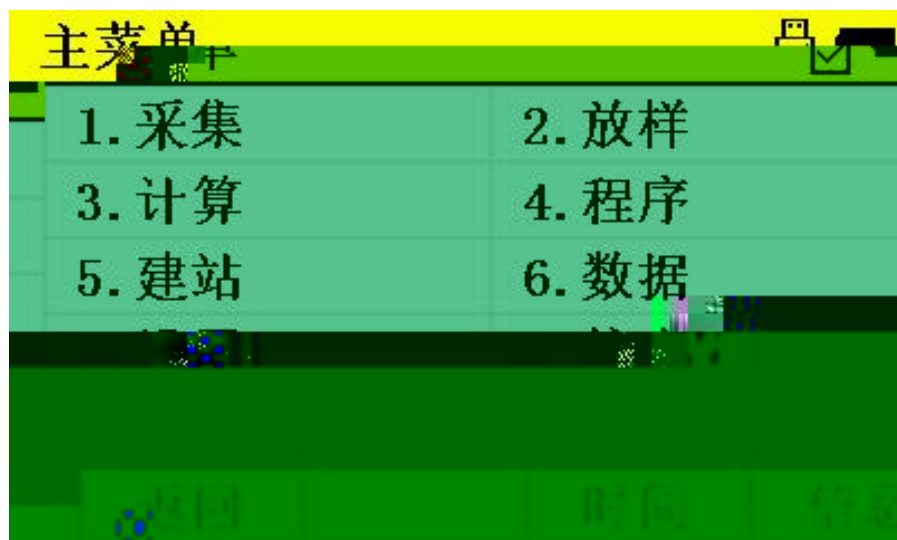
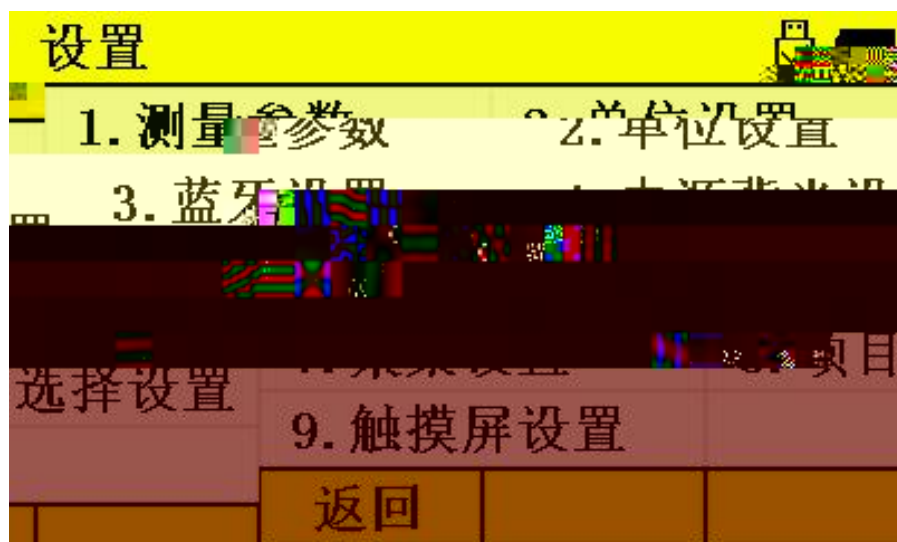
50n



15.11

15.12

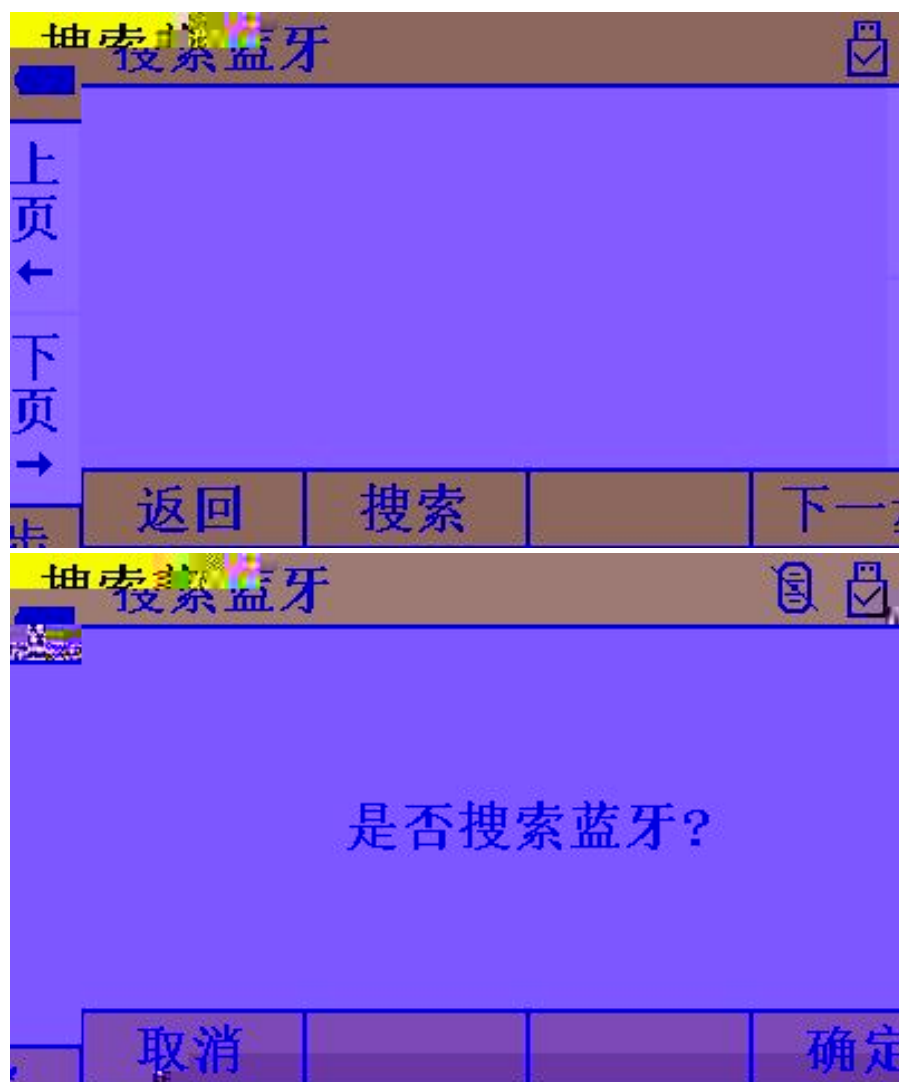
“ ”

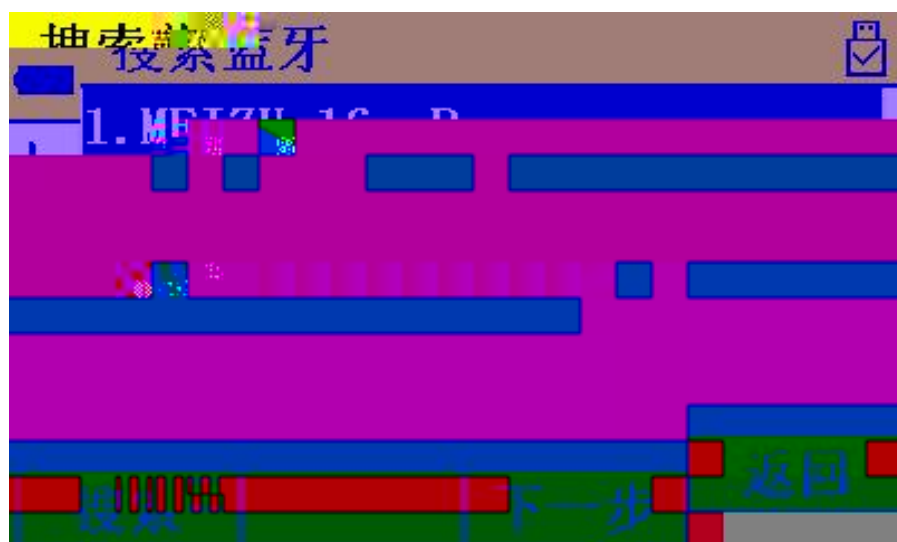




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			a	2000m/	2600m
			b	3500m/	4500m
			c	4000m/	5000m
			a	700m	
			b	1000m	
			c	1200m	
		e	a	(*50m)	
			b	(*80m)	
			c	(*100m)	
		f	a	(*25m)	
			b	(*40m)	
			c	(*50m)	
			g	1.2s	
			h	0.5s	
			i	0.25s	
		g		1.0s	

		h	0.5s
		i	0.25s
		g	0.5-3s
		h	
		i	0.25-3s
			± 2+2 × 10-6 × d mm
			± 5+2 × 10-6 × d mm
			± 3+2 × 10-6 × d mm
			± 5+2 × 10-6 × d mm
		(bce)	300 ----- ± 3+2 × 10-6 × d mm 600 300 ----- ± 5+2 × 10-6 × d mm 600 ----- ± 10+2 × 10-6 × d mm
			500 ----- ± 5+2 × 10-6 × d mm 500 ----- ± 10+2 × 10-6 × d mm

17.2

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FDA21CFR ch.1 § 1040:1998 (

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IEC60825-1:2001

Class 3R

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Class 3R / a
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Class 1
1000m

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Class 2 /

Class 2

IEC 60825-1:1993 “ ”

EN 60825-1:1994+A :1996 “ ”

Class

FDA21CFR ch.1 § 1040:1998 (

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Class 2 /



GB/T 27663-2011

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