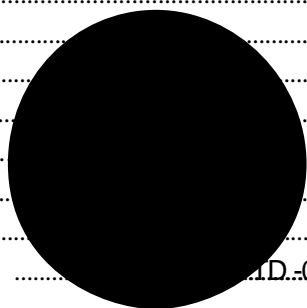


PDF !

" #	1
\$ %&' () * +, - . /	5
1.1	5
1.2	7
1.3	8
1.4	11
○ 1 2 3 4	12
2.1 /	12
2.2	12
2.3	14
2.4	14
2.5	15
2.6	16
2.6.1	17
2.6.2	18
2.7	19
2.8 /	20
2.9	21
2.10	22
2.11	23
5 6 7" 8 9:	25
3.1	25
3.2	25
3.3	27
3.4	28
3.5	28
3.6	29
3.7	29
; <=6 7>?	32
4.1	32
4.2 /	33
4.3	33
4.3.1 []	33
4.3.2	34

4.4

K	L M.....	84
	8.1	84
	8.2	84
	8.2.1	84
	8.2.2	86
	8.2.3	87
	8.2.4	88
	8.3	89
	8.4	93
	8.4.1	93
	8.4.2	95
N	67OP>?	99
	9.1	99
	9.2	101
	9.3 Z	104
	9.4	107
	9.4.1	108
	9.4.2	109
	9.5	110
	9.6	112
	9.6.1	112
	9.6.1.1	113
	9.6.1.2	113



1.D.-0.24 Tc (-9.96/E4+6.1912.).Tj.0

11.1.4	.....	138
11.1.5	.....	139
11.2	.....	141
11.2.1	/	142
11.3	.....	143
11.4	.....	144
11.4.1	.....	145
11.4.2	.....	146
11.4.3	.....	147
11.4.4	.....	149
QQ WXYZ [	.....	152
12.1	.....	152
12.2	.....	152
12.3	.....	153
12.4	2C	153
12.5	.....	155
12.6	i	155
12.7	.....	157
12.8	.....	158
12.9	K	158
12.10	.....	159
12.11	.....	160
12.12	.....	161
12.13	.....	161
Q5 \] RG.....	.....	162
Q; ^) .....	.....	165
_ ^! A` .....	.....	166
1.	.....	166
2.	.....	168
3.	.....	169
4.	.....	169
5.	.....	170
_ ^! B` abcdef GH.....	.....	171
1.	.....	171
2.	.....	172

_ ^! C`	178
1. NTS	178
1mm	178
0.1mm	179
2.	180
3.	181
.....	181
.....	182

" #

NTS-380R

NTS-380R

NTS-380R

NTS-380R4 NTS-380R6 NTS-380R8 NTS-380R10 N10

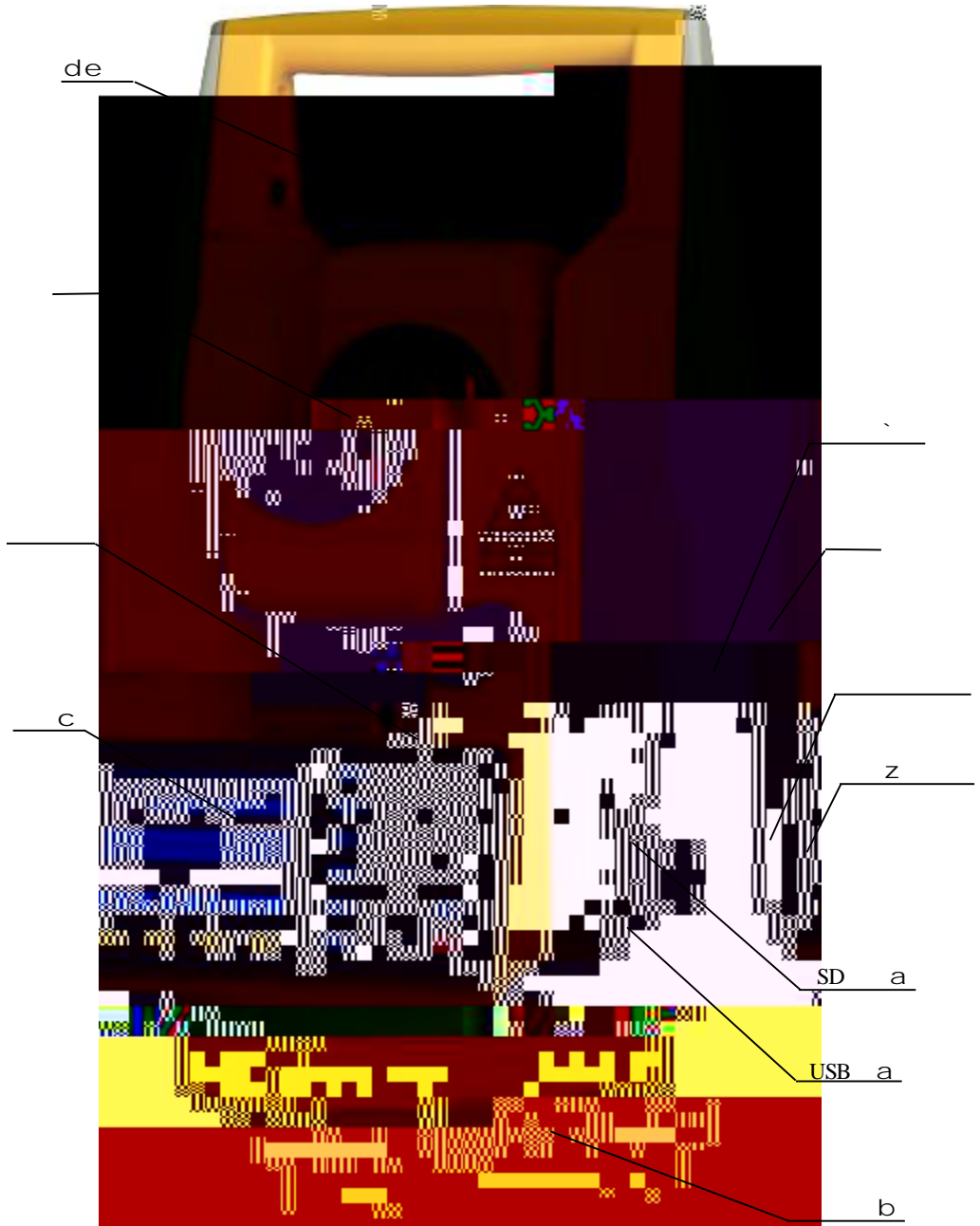


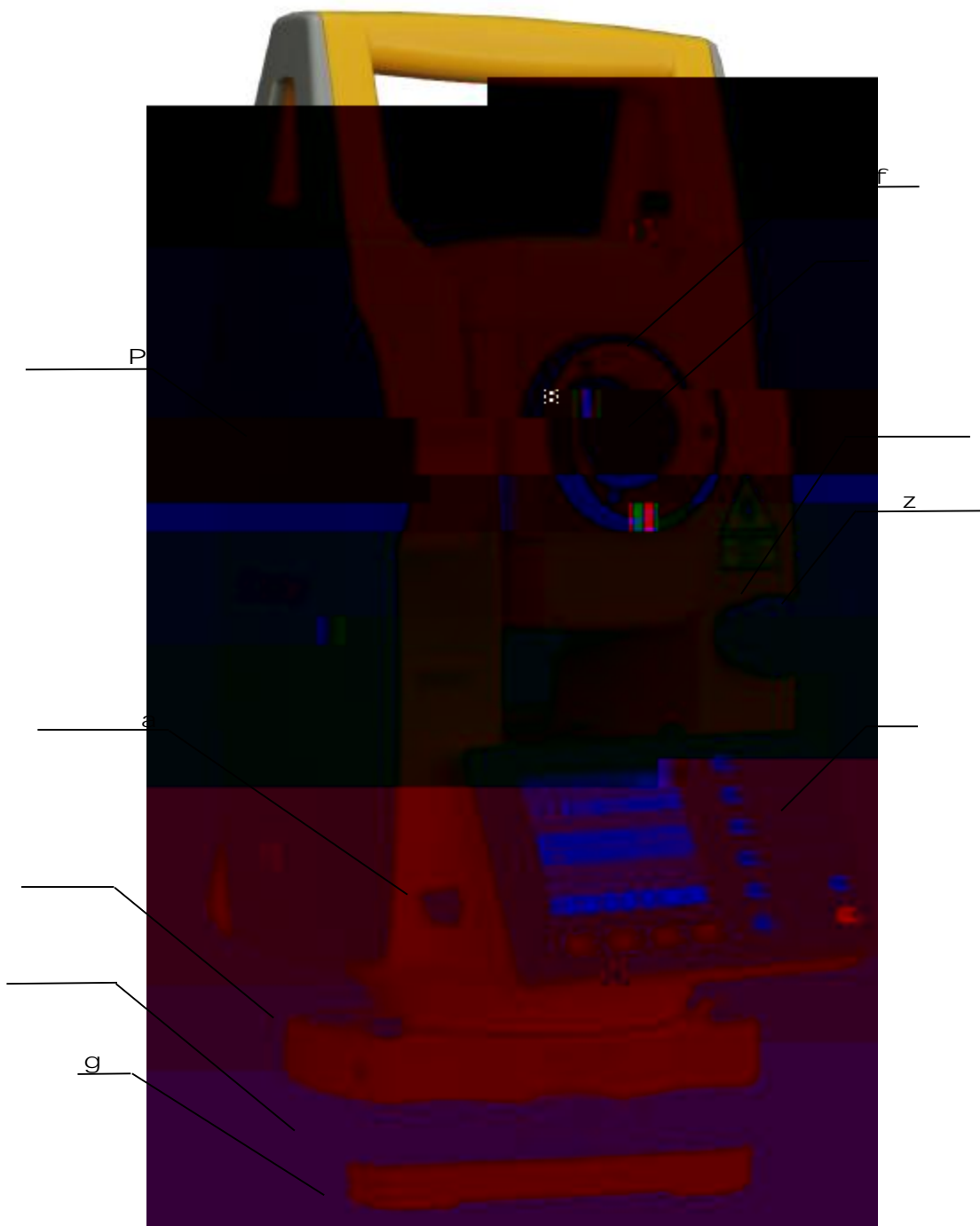
b KL MD NO P
c: *Q Rk st % #. %
d S*Q k & TU VW % %X (K
L(& *) 7 k p@YQ %
e % p@ " k
f ~S Z[\CyG k]
g: *Q %) CDZ 45 O: ^
Z
* & r _ %F 2 % k; <&

92 Class 3R / , a () &8%46A%: ; <2=AB1 1000m(3300ft)<>?AB
@A<() B=CDE Class 1(FGHI) J sKLMN=)O

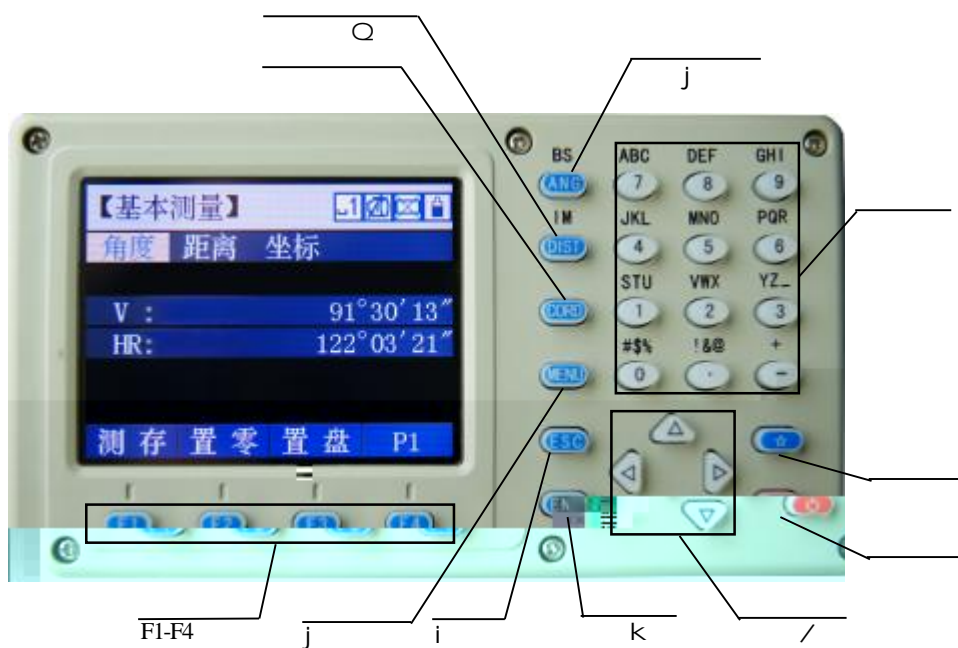
\$P%&' () * +, - . /

1.1





1.2



QRST

h		
ANG		(i)
DIST		(Q /)
CORD		
MENU	j	j
ENT	k	f y
ESC	i	l c m c c c
i		/
F1nF4		op
0n9		j g
Un -	j	j q
★		. %

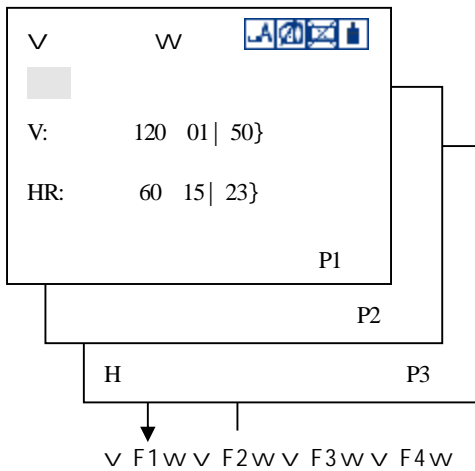
VWSTh

j	
V%	()
HR	()

HR	()
HD	
VD	
SD	
N	r /
E	s /
Z	
m	
ft	
fi	

1.3

(t u j)



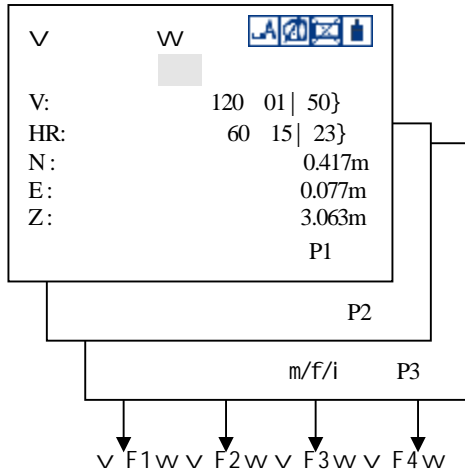
x		j	
y 1 x (P1)	F1		D ()
	F2		
	F3		
	F4	P1	y 2 x
y 2 x (P2)	F1		
	F2		
	F3		/z { Q
	F4	P2	y 3 x
	F1	H	2 0 90 180 270 r

y 3 ×
(P3)

F2
F3

/

(t u j)



x		j	
y 1 x (P1)	F1		D ()
	F2		
	F3		/N / /• ,
	F4	P1	y 2 x
y 2 x (P2)	F1		
	F2		
	F3		
	F4	P2	y 3 x
y 3 x (P3)	F1		
	F2		
	F3	m/f/i	/ /
	F4	P3	y 1 x

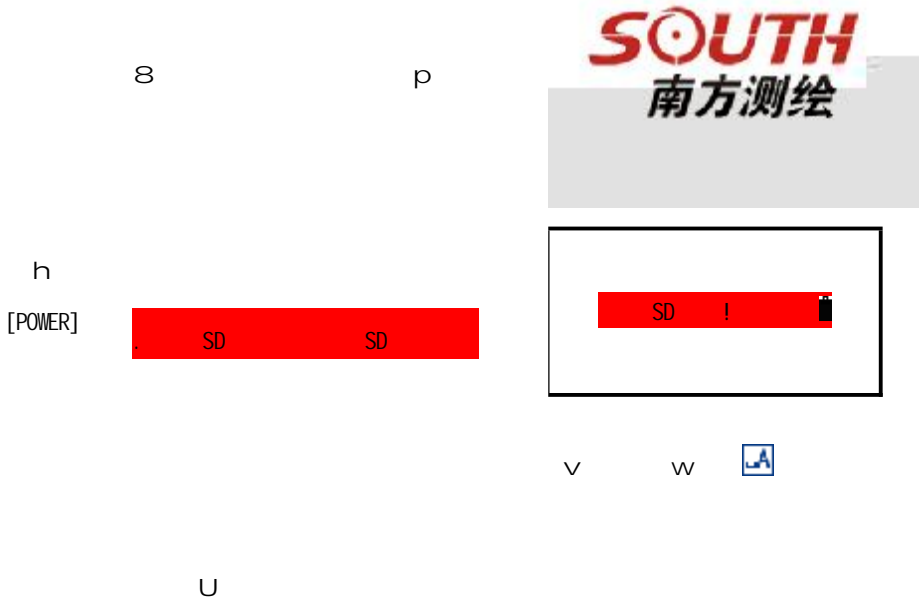
1.4 ()

h () c

()
1 h[◀] [▶]
2

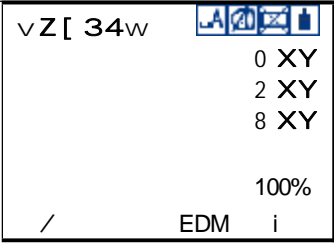
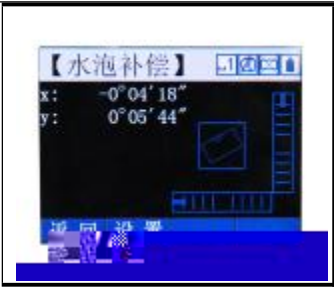

O<1 234

2.1 /



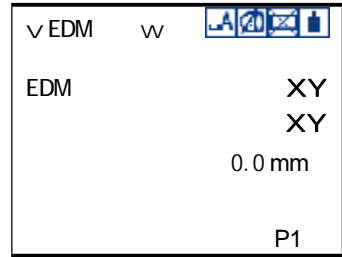
g ()
 | (5p@O)
 (H |)
 ' a , r ,
 EF , |

[]

<p>()</p>	<p>[]</p>	
<p>h[F2] ,</p>	<p>[F2]</p>	
<p>h 3.2 c 1) :</p>		

h[F2]()

y
 1 [] () h[F3]
 [F3]



√ EDM w  +7i

y
 2 [] h[] ,
 h[◀ ▶]

y 1	[]		
y 2	[F3] [F4]	h[F3] () h[F4] P1 x	
y 3	[F1]	h[F1] () Z 1 1) c	
1)h [ESC] m			

2.6

S ! @ !

PPM
NTS (0)





1013hPa
20 C

S = 278.44 0.294922 P / (1 + 0.003661T) (ppm)

S

P (hPa)
 . r mmHg h 1hPa = 0.75mmHg
 T (C)




2.6.1

			]	(PPM)
y 1	[] [F3]	h [F3] (EDM)	<div style="border: 1px solid black; padding: 5px;"> v EDM w  EDM XY XY 0.0 mm P1 </div>	
y 2	[F1]	h [F1] ()	<div style="border: 1px solid black; padding: 5px;"> v w  0.14 20.0 1013.0hPa 0.0PPM m PPM=0 </div>	
y 3	[F2] [◀ ▶] [F3]	h [F2] () , h [◀ ▶] h [F3] () c	<div style="border: 1px solid black; padding: 5px;"> v w  XY 20.0 1013.0hPa m </div>	
y 3	[F4]	h [F4] () c m u PPM 1)	<div style="border: 1px solid black; padding: 5px;"> v w  0.16 27.0 1008.0hPa 7.9PPM m </div>	

1) 34	u [F3]	J u h[F3]
----------	--------	-----------

2.6.2

O] +25 1017.5

y 1	[]		<div style="border: 1px solid black; padding: 5px;"> v w  0 XY 2 XY 8 XY 100% / EDM i </div>
y 2	[F3]	h[F3](EDM) EDM	<div style="border: 1px solid black; padding: 5px;"> v EDM w  EDM XY XY 0.0 mm P1 </div>
y 3	[F1] [F4]	h[F1]() PPM 1) h ENT 5h [F4]() c m EDM	<div style="border: 1px solid black; padding: 5px;"> v w  0.15 20.0 1013.0hPa 1.0PPM m PPM=0 </div>
(	1):	H 1 PPM 3.7 -99.9 n+99.9 (0.1) -99.9n+99.9 (0.1) 0n1066hPa(0.1hPa) 0n1066mmHg(0.1 mmHg) 0n1066i nHg(0.1 i nHg) 999.9ppm m y 2	

2.7

!

A p

\q[] 8^Ah

$$D=S * [\cos + \sin * S * \cos (K-2) / 2Re]$$

\q[] 8_` h

$$H= S * [\sin + \cos * S * \cos (1-K) / 2Re]$$

asnobcd) efghi q[,j ab^Ae_` 8k?l :

$$D=S \cos$$

$$H=S \sin$$

?mh



$$K=0.14$$


$$Re=6370 \text{ km}$$

()

F ()

S

y 1	[]		 v w 0 XY 2 XY 8 XY 100% / EDM i
y 2	[F3]	h[F3](EDM) EDM .	 v EDM w EDM XY XY 0.0 mm P1


y 3	[F1] [F4]	h[F1]() 1) h ENT 5h [F4]() c m EDM	v w  0.15 20.0 1013.0hPa 1.0PPM m PPM=0
(	1)	3.7	K=0.14 K 0.0 0.2

2.8 /

NTS-380R	1} /5} /10} /0.1}	1mm /0.1mm
----------	-------------------	------------

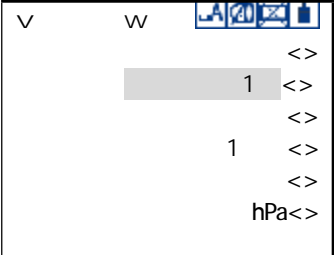
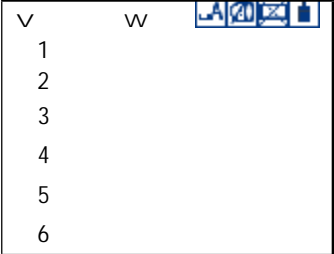
[] 0.1}

h[MENU] , j 5h [5]([MENU]
) [5]

vj w 
1
2
3
4
5
6
P1

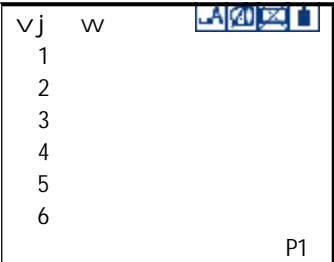
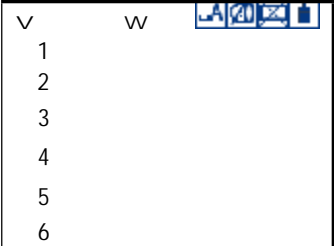
v w 




h[1] () [1]

<p>hh[] g h[◀ ▶] , h[F4]()</p>	<p>/ [F4]</p>	
<p>c m j</p>		

2.9

Rh

<p>h[MENU] , j ,5h [5]()</p>	<p>[MENU] [5]</p>	
<p>u</p>		



<p>h[4] (R)</p>	<p>[4]</p>	<p>v R w </p> <p><></p> <p><></p> <p>h <></p> <p><></p> <p><></p> <p>SD/HD<></p>
<p>h[◀ ▶] /20 /30 / [F4]()</p> <p>10 5h</p>	<p>/</p> <p>[F4]</p>	<p>v R w </p> <p><></p> <p><></p> <p>h <></p> <p><></p> <p><></p> <p>SD/HD<></p>
<p>c m j</p>		<p>v w </p> <p>1</p> <p>2</p> <p>3</p> <p>4</p> <p>5 .</p> <p>6 .</p>

2.10

h 12.9]

v w 

[] j ,h[F3] , EDM []
u [F3]

<p>[EDM] u h[F4](P1) . o[] g h[F2]()</p>	<p>[P1] [F2]</p>	<p>√ EDM w </p> <p>EDM XY XY 0.0 mm</p> <p>P2</p>
<p>[] u [] []] U h [F4] u m [EDM]</p>	<p>[F4]</p>	<p>√ w </p> <p>0.0mm 0.0 ppm</p> <p>m</p>
<p>1) 3.7 2)h[ESC] l</p>		




! " #

\$%&' () * +, - . / 0 1 2 3 4 5 6 7 8 9 : ; < = > ? @ A B 3 4 C D 7 8 - .
/ & O 1 (D) E F G H I J K L M O N O O 1) P ? Q R S 3 4 , 6 T U V A B 3 4 C

2.11

vj w

[MENU] j h[F4](P1) [MENU]
j ,5h [1] [F4]
[1]

<p>h[F1]() cp Z 2)</p>	<p>[F1]</p>	<p>V W  C001.SCO C002.SCO C003.SCO D P1</p>
<p>h[] Z/ / h[◀ ▶] x</p>	<p>[]</p>	<p>V W  C001.SCO C002.SCO C003.SCO D P1</p>
<p>h[ENT](k) ,m j 2/2</p>	<p>[ENT]</p>	<p>vj w  1 P2</p>
<p>1) 3.7 2) Z2 11.1.1 \$</p>		

5P67" 89:

3.1

no

= 8

SL

U)

(

3.2

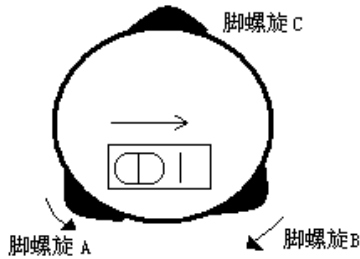
! t A) t A f G (

UpqRr h

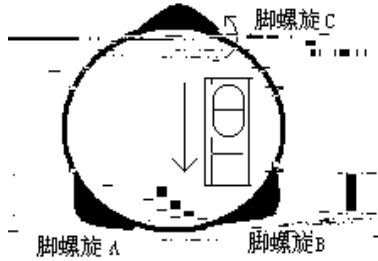
t A f G
1Py[sgmmYt ^
1) A t A
O t A8 t A t t
t A !"

#` t A \$ %&
2) t A : ' W (: !
AM " P `!

3)) d
~ | (((!)>hi
~
~



90 5 (C *



5 90 , * Q

2) Py [] umm&mm

1) A t A

t A/ f t 8 t A 7
t A %&

2)

t A ` ! OH
1 ' W(~ \ A # \$ ~ t
t At i t

3))

f
t At *

4))

A B * , A B !
90 A B ! C *

5) f

\$ z ! ()
f 5 ` ! 5
Jg 2 f Q

3.3

vwx y

-----2 J 3 4 4. 5' 1 6
5
----- C 7 B 8%
9: | --_9: ; < =" > M

(? @ 34
Fo | c
vO c
A A G 6

SL~g•t h

300-500

I ?

JK

]

JK

G 8

3.4

(L)

!

@ ' "

t A

5

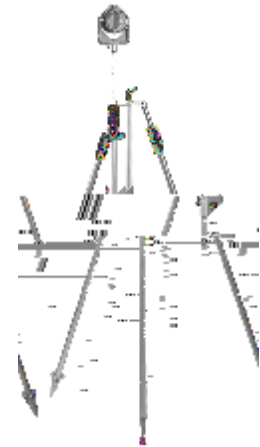
:

u

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Npo~

p



3.5

!

: t

-

(

D

!

)

O

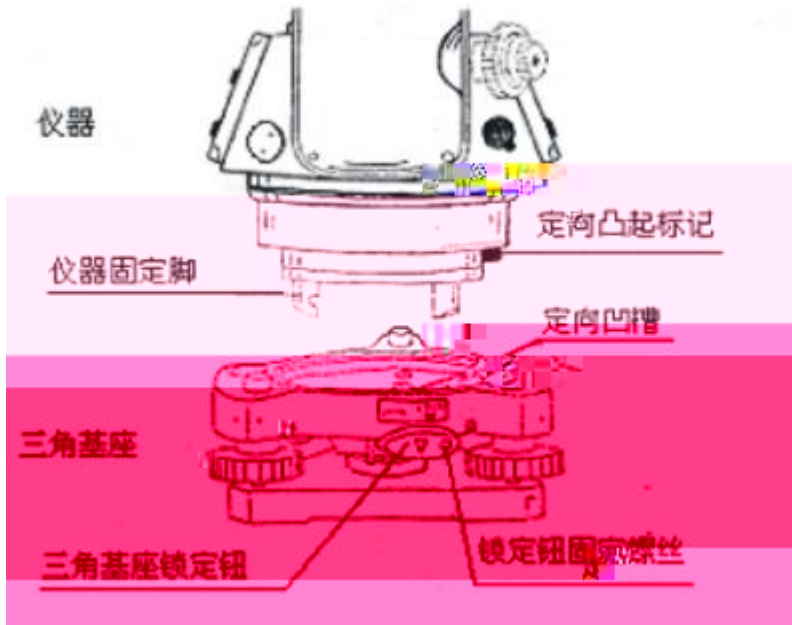
O

b

P

Q

b



!"
/R / ^ S f t
T t U Q b 180 5 O
b 、

3.6

e (V W)
X Y. H (O Z / X5
[[YH\)4
) de t P]e st e 1
4
) Y OH1
st U 2 Y ^ \
! # de Y XI

3.7

NTS-380R j J 5 j
*# \$G%


```

h[.] |
h[2] 2 4h[0] 0
h[F4]
J 90 10| 20}
*# $%S
[ 3] SOUTH1
1 [F4] , u
    
```

2 u h [1]

3 h[DIST] Q h [DIST]
 Q

gh&' (mVW) %* +~, &# \$G%< VW) G%+~, &# \$%* O
 - [ANG](. /)Q<&O1 # \$8%SO
 &2# \$8%* m23456%* > 7\$Q8<># \$- m8906%* ~ <
) E: ; <: E<

; P<=67>?

4.1

f y'

e (V W)
X Y. H (O Z / X5
[[YH\)4
) de t P]e st e 1
4
) Y OH1
st U

4.2 (/)




$f y'$

) z p:
h [P1] [P2]x

V	W	
█		
V :	120 01 | 50}	
HR:	90 09 | 30}	
		P1

[P2]x , []

V	W	
█		
V :	120 01 | 50}	
H 5		

<p>h[F3]()</p>	<p>[F3]</p>	<p>v w </p> <p>V : 120 01 | 50}</p> <p>HR: 90 09 | 30}</p> <p>P1</p>
<p>p h[F4]</p> <p>1) 150 10 | 20}</p>	<p>[F4]</p>	<p>v w </p> <p>150 10 | 20}</p> <p>m</p>
<p>\ e _p:</p>		<p>v w </p> <p>V : 120 01 | 50}</p> <p>HR: 150 10 | 20}</p> <p>P1</p>

4.4 (%)

f y'

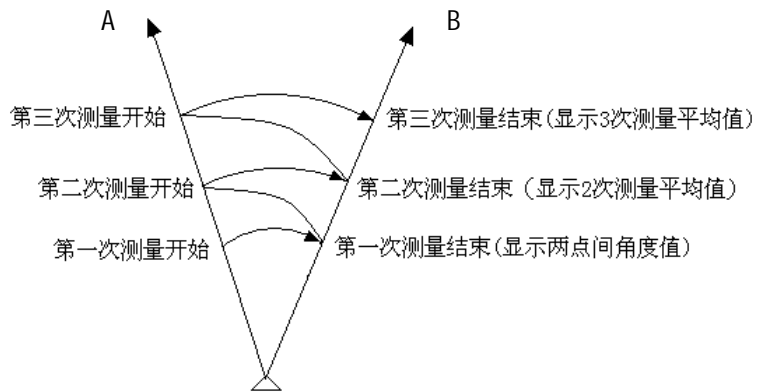
v w 

① [F4] × [P1] [P2] [F4]

<p>h[F3]() 1)</p>	<p>[F3]</p>	<p>√ w [Icons]</p> <p>V : -57.84%</p> <p>HR: 120 09 | 30}</p> <p>x</p>
<p>1) h[F3]() dQ</p> <p>90 (f) 4 | ( ( )</p>		







4.5




f y' () ()



√ w [Icons]

h [P1] [P2] j [F4]

<p>h[F2]()</p>	<p>[F2]</p>	<div style="border: 1px solid black; padding: 5px;"> <p>v w </p> <p>0</p> <p>0 00| 00}</p> <p>i 0 00| 00}</p> <p>HR: 120 09| 30}</p> <p>i</p> </div>
<p>A h[F1]()</p>	<p>A [F1]</p>	<div style="border: 1px solid black; padding: 5px;"> <p>v w </p> <p>f b</p> <p>r</p> </div>
<p>h[F3](f) u</p>	<p>[F3]</p>	<div style="border: 1px solid black; padding: 5px;"> <p>v w </p> <p>0</p> <p>0 00| 00}</p> <p>i 0 00| 00}</p> <p>HR: 0 00| 00}</p> <p>i</p> </div>
<p>[F4]() z B h</p>	<p>B [F4]</p>	<div style="border: 1px solid black; padding: 5px;"> <p>v w </p> <p>1</p> <p>120 20| 00}</p> <p>i 120 20| 00}</p> <p>HR: 120 20| 00}</p> <p>i</p> </div>
<p>g z 5 A h[F4](h)</p>	<p>A [F4]</p>	<div style="border: 1px solid black; padding: 5px;"> <p>v w </p> <p>1</p> <p>120 20| 00}</p> <p>i 120 20| 00}</p> <p>HR: 0 00| 03}</p> <p>i h</p> </div>
<p>i z 5 B h[F4]()</p>	<p>B [F4]</p>	<div style="border: 1px solid black; padding: 5px;"> <p>v w </p> <p>2</p> <p>240 40| 02}</p> <p>i 120 20| 01}</p> <p>HR: 120 20| 05}</p> <p>i</p> </div>







<p>j gni p : 6 1) 2)</p>		<p>v w </p> <p>6 722 00| 06} i 120 20| 01} HR: 120 20| 00} i h</p>
<p>k. : i h[F2](i) h [F3](f) c m</p>	<p>[F2] [F3]</p>	<p>v w </p> <p>f i b r</p> <hr/> <p>v w </p> <p>V : 120 01| 50} HR: 120 09| 30} P2</p>
<p>1) l (3600 00| 00} -) () m 5 m l 3599 59| 55} 2). # 8 # D 30}</p>		

4.6 90

n 0 (90 180 270) 4 30| ! F. 15}
oQ Jg 1 f y'

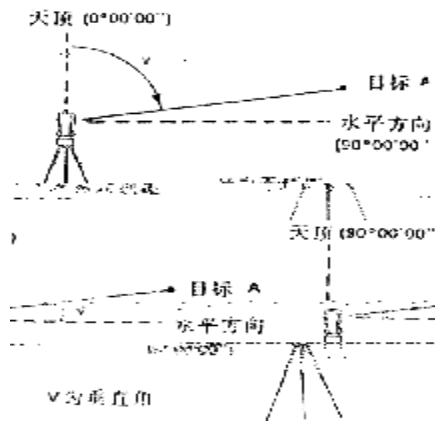
v w 

[F4](P1) ~ [P3] x [F4]
~

<p>h[F1](H)</p>	<p>[F1]</p>	<p>v HA w </p> <p> < ></p> <p>m</p>
<p>h[◀ ▶] u U h m</p>	<p>[◀ ▶]</p>	<p>v HA w </p> <p> < ></p> <p>m</p>
<p>u U h[] m</p>	<p>[F4]</p>	<p>v w </p> <p></p> <p>V: 10.30%</p> <p>HR: 120 09 | 30}</p> <p>H P3</p>

4.7

p



<p>h[P1] ~ [P3] u</p>	<p>[F4] ~</p>	<div style="border: 1px solid black; padding: 5px;"> <p>V: 19 51 | 27}</p> <p>HR: 120 09 | 30}</p> <p style="text-align: right;">P1</p> </div>
<p>h[F3]() 1)</p>	<p>[F3]</p>	<div style="border: 1px solid black; padding: 5px;"> <p>V: 70 08 | 33}</p> <p>HR: 120 09 | 30}</p> <p style="text-align: right;">P3</p> </div>
<p>1) h[F3]() dQ</p>		

@PAB67>?

NTS-380R

(F) p : p : p f
&- / 67 Q~ <%&>m>) d%8 EnoAB67O
k qk r st %
8 f
u : %\uV%v

?@A6A

f % \w R
EDM J x yz
(qk] { r | } - ~) EDM p r yz
% ! r • %
J 5 f f %
(o 12.11)
: ~

m@ABC6ADI [E9>?(@A>?)O

EF() 9GHI J 6A

C f (o 12.11) G : % 7

Kks7HI @A8[K^LZGO

c : fy 5
c h

5.1

--	--	--

h [DIST]

u

[DIST]

1)

V	W	
[Grey Box]		
V :	87 25 25}	
HR:	120 09 30}	
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[F2]

V	W	
[Grey Box]		
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HR:	120 09 30}	
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:	235.343m	
:	36.551m	
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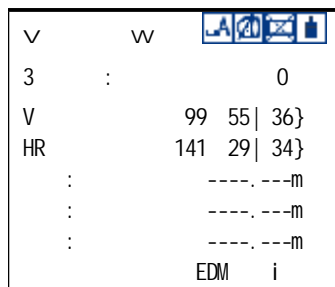
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① [P1] [P2] u [F4]

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h[F2]()

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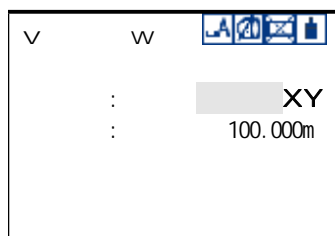
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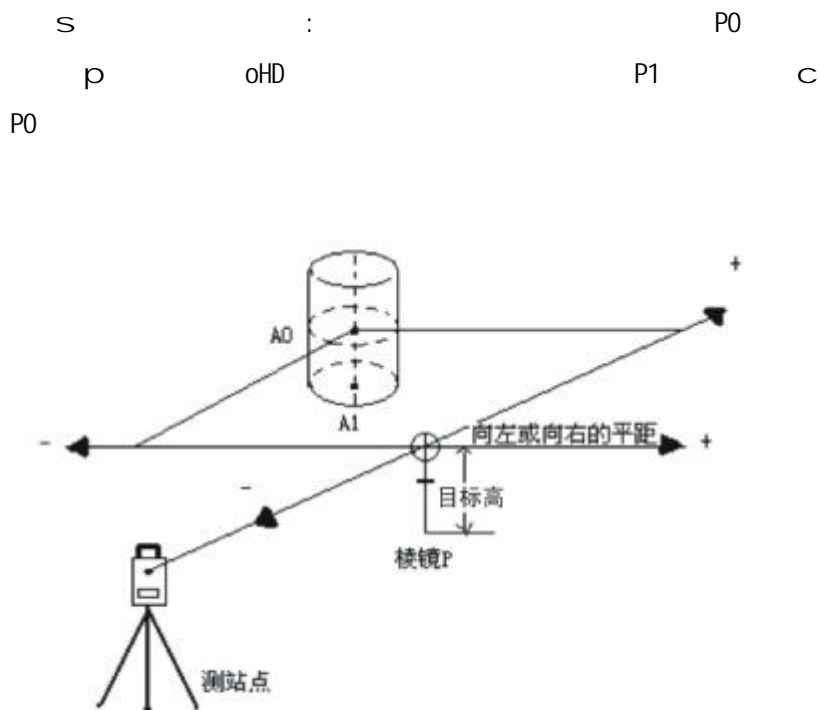
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5.5.2



○ 6.2

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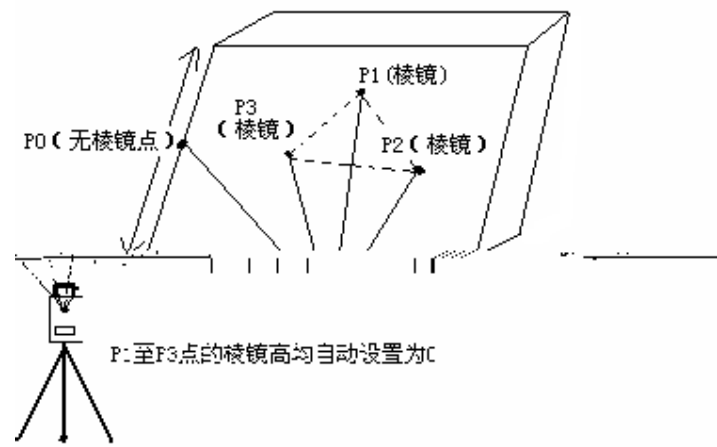
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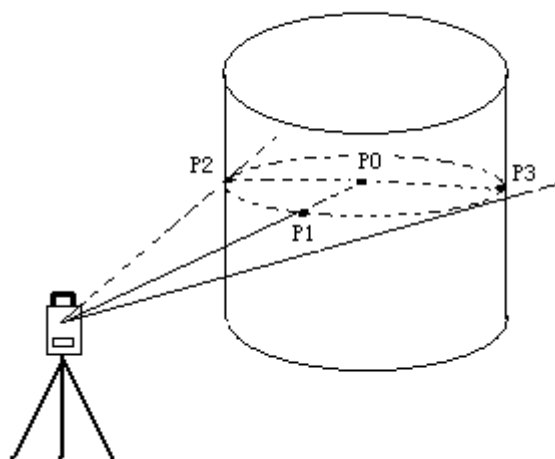


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u h [F4](P1) P2 [

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5.5.4



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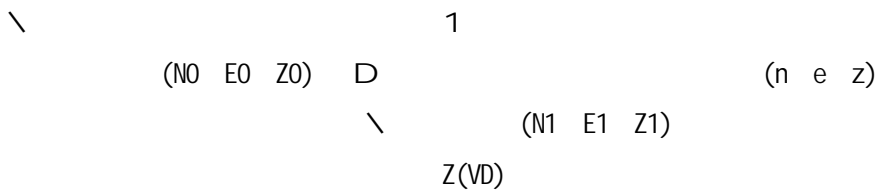


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6.1

- : ○ 6.2
- : ○ 6.3 6.4
- : 1 f

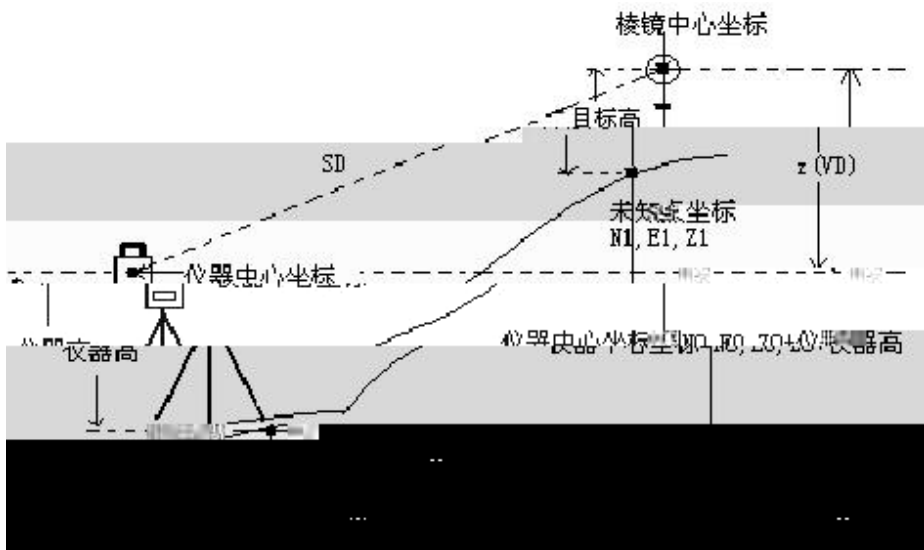


$N_1 = N_0 + n$

$E_1 = E_0 + e$

$Z_1 = Z_0 + z$

$(N_0 \ E_0 \ Z_0 + \dots)$



$g \cdot h5u346MDE < \% _ < \ E _ , \] \ NO = < O$

<p>① A h [F2]() [F1]() 7 8 % +1 2H</p>	<p>[F2] [F1]</p>	<div style="border: 1px solid black; padding: 5px;"> <p>v w </p> <p>V 99 55 36}</p> <p>HR 141 29 34}</p> <p>N: ----.---m</p> <p>E: ----.---m</p> <p>Z: ----.---m</p> <p>P1</p> </div> <div style="border: 1px solid black; padding: 5px; margin-top: 5px;"> <p>v w </p> <p>: 1</p> <p>: SOUTH</p> <p>: 0.000m</p> <p>N : ----.---m</p> <p>E : ----.---m</p> <p>Z : ----.---m</p> <p>` a</p> </div>
<p>p</p>		<div style="border: 1px solid black; padding: 5px;"> <p>v w </p> <p>V 99 55 36}</p> <p>HR 141 29 34}</p> <p>N 36.001 m</p> <p>E 49.180 m</p> <p>Z 23.834 m</p> <p>P1</p> </div>

6.2

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u h[F4](P1) P2 [F4]

V	W	
V	99	55 36}
HR	141	29 34}
N:	----	---m
E:	----	---m
Z:	----	---m
		P1
		P2

h[F3]() [F3]

V	W	
NO	0.000	m
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Uh [F4] c m	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 10%; text-align: center;">V</td> <td style="width: 10%; text-align: center;">W</td> <td style="width: 80%; text-align: right;">  </td> </tr> <tr> <td></td> <td style="text-align: center;">  </td> <td></td> </tr> <tr> <td>V</td> <td style="text-align: right;">99 55 36}</td> <td></td> </tr> <tr> <td>HR</td> <td style="text-align: right;">141 29 34}</td> <td></td> </tr> <tr> <td>N:</td> <td style="text-align: right;">----, ---m</td> <td></td> </tr> <tr> <td>E:</td> <td style="text-align: right;">----, ---m</td> <td></td> </tr> <tr> <td>Z:</td> <td style="text-align: right;">----, ---m</td> <td></td> </tr> <tr> <td></td> <td></td> <td style="text-align: right;">P2</td> </tr> </table>	V	W					V	99 55 36}		HR	141 29 34}		N:	----, ---m		E:	----, ---m		Z:	----, ---m				P2
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u [F4]

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	-9999.9999	+9999.9999	ft
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Jg Z

①	h[F4]	P2	[F4]	
	h[F1]()	c	[F1]	
	h[F4]()	1)	[F4]	
1)	3.7			
	-9999.9999	+9999.9999	m	
	-9999.9999	+9999.9999	ft	
	-9999.11.7	+9999.11.7	ft+inch	

FPGHI J

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 h [1]()

[ESC]

[MENU]

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3		
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5		
6		
		P1

v8 w


NTS-380R

7.1

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5 / f
6

7.2

7.2.1

Op@
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h [MENU] j y x h [MENU]
[1]() [1]

v

w








h[] z/
3)

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v8 w

h 7.2.1

<p>j h [1](),</p>	<p>[1]</p>	<p>v w </p> <p>1q 2q 3q 4q 5q` a</p>
<p>h[F3]()</p>	<p>[F3]</p>	<p>v w </p> <p>StrName StrCode 0.000m NO 100.000m EO 100.000m ZO 100.000m ` a</p>
<p>. [F4]() h[F4]() M</p>	<p>[F1] [F4] [ENT]</p>	<p>v Zw </p> <p>1 2 3 4</p> <hr/> <p>v w </p> <p>5 Code N 36.001 m E 49.180 m Z 23.834 m m</p> <hr/> <p>v Zw </p> <p>1 2 3 4 5</p>

v

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h[ENT](f)

[F4]

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[F3]

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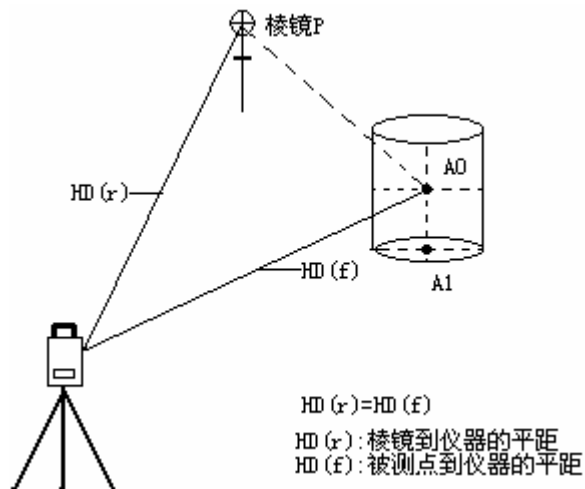
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V

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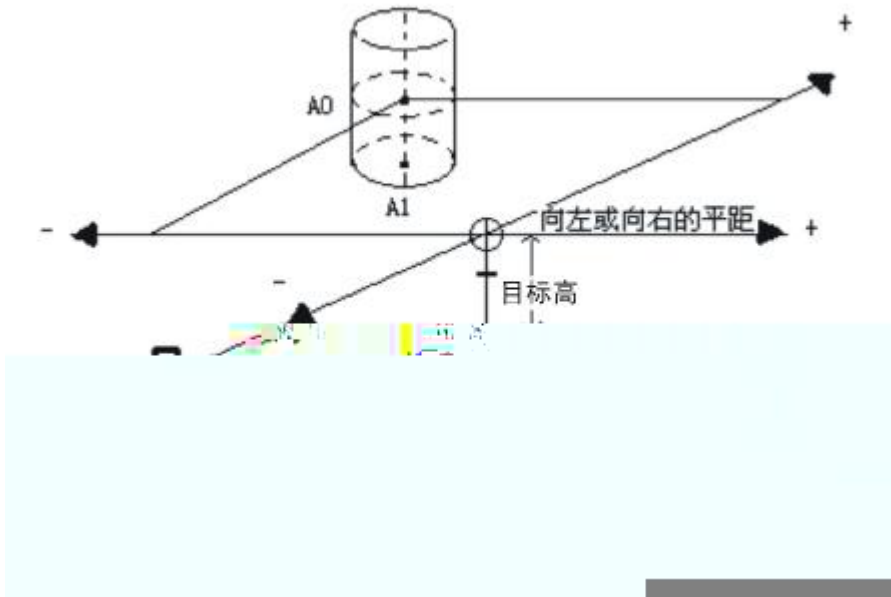


Z

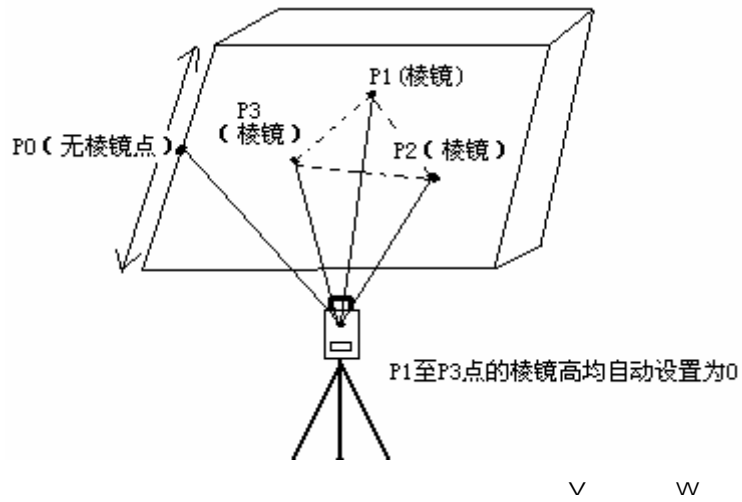
A0

A0

A0



<p>j h [3] () h [F3] ()</p>	<p>[3] [F3]</p>	
<p>h [2] ()</p>	<p>[2]</p>	
<p>[F4] (f y) / / c h</p>	<p>[F4]</p>	



③ ,h[F4]() A0
[F4]

J O) t (P1 P2 P3) f \\
P0

<p>h[F4] (oQ)</p>	<p>[F4]</p>	<table border="1"> <thead> <tr> <th>V</th> <th>W</th> <th></th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td>1</td> </tr> <tr> <td>V</td> <td>99 55 36}</td> <td></td> </tr> <tr> <td>HR</td> <td>141 29 34}</td> <td></td> </tr> <tr> <td>:</td> <td>-----, ---m</td> <td></td> </tr> <tr> <td>:</td> <td>-----, ---m</td> <td></td> </tr> <tr> <td>:</td> <td>-----, ---m</td> <td></td> </tr> <tr> <td></td> <td></td> <td>oQ</td> </tr> </tbody> </table>	V	W				1	V	99 55 36}		HR	141 29 34}		:	-----, ---m		:	-----, ---m		:	-----, ---m				oQ																								
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<p>8% c yc h yc yt</p>	<p>P2 [F1] P3 [F1]</p>	<table border="1"> <thead> <tr> <th>V</th> <th>W</th> <th></th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td>2</td> </tr> <tr> <td>V</td> <td>99 55 36}</td> <td></td> </tr> <tr> <td>HR</td> <td>141 29 34}</td> <td></td> </tr> <tr> <td>:</td> <td>0.556m</td> <td></td> </tr> <tr> <td>:</td> <td>0.588m</td> <td></td> </tr> <tr> <td>:</td> <td>-0.534m</td> <td></td> </tr> <tr> <td></td> <td></td> <td>f</td> </tr> </tbody> </table> <table border="1"> <thead> <tr> <th>V</th> <th>W</th> <th></th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td>3</td> </tr> <tr> <td>V</td> <td>108 23 34}</td> <td></td> </tr> <tr> <td>HR</td> <td>141 29 34}</td> <td></td> </tr> <tr> <td>:</td> <td>0.378m</td> <td></td> </tr> <tr> <td>:</td> <td>0.358m</td> <td></td> </tr> <tr> <td>:</td> <td>-0.119m</td> <td></td> </tr> <tr> <td></td> <td></td> <td>f</td> </tr> </tbody> </table>	V	W				2	V	99 55 36}		HR	141 29 34}		:	0.556m		:	0.588m		:	-0.534m				f	V	W				3	V	108 23 34}		HR	141 29 34}		:	0.378m		:	0.358m		:	-0.119m				f
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<p>g 8% S \</p> <p>h[F4](f) c </p> <p>(P0) h[F4]()</p> <p>3)</p>	<p>P0 [F4]</p>	<table border="1"> <thead> <tr> <th>V</th> <th>W</th> <th></th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td></td> </tr> <tr> <td>V</td> <td>93 49 37}</td> <td></td> </tr> <tr> <td>HR</td> <td>90 09 34}</td> <td></td> </tr> <tr> <td>:</td> <td>0.457m</td> <td></td> </tr> <tr> <td>:</td> <td>0.456m</td> <td></td> </tr> <tr> <td>:</td> <td>-0.030m</td> <td></td> </tr> <tr> <td>m</td> <td></td> <td>i</td> </tr> </tbody> </table>	V	W					V	93 49 37}		HR	90 09 34}		:	0.457m		:	0.456m		:	-0.030m		m		i																								
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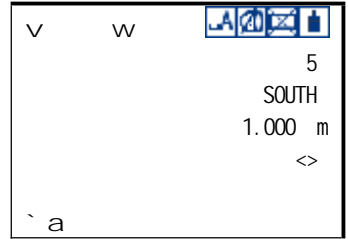
j h[]

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E-C-F-4-9-8 (6f9604c3620f640ff80d162092f329075880748698) (f36947f6120f16920f62661067d183e294e33500028f94507d

6.2

j h[F3]() h[3]([3] [F3]



v

w



8% c | (P3) P3
[F4]
(P3) h[F4](f)

fy	1q 2q	
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: >g O

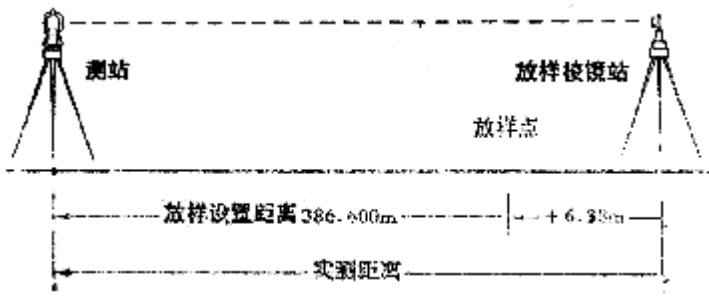
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NTS-380R

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8.1

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1q

2q

3q

4q

p

f

8.2



8.2.1

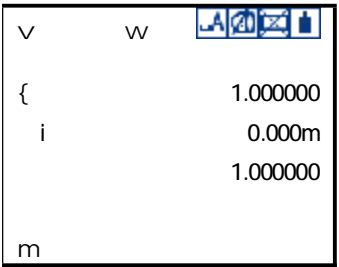
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 R i
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1)
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PW34DEXYZ [

<p>h[] v w h [F3](EDM) v EDM w</p>	<p>v EDM w</p>	<p> v w  8 XY 0 XY 2 XY 100% / EDM i v EDM w  EDM XY XY 0.0 mm P1 </p>
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h F2		
<p>1) 3.7 -9999 2+9999m(-32805 2+32805ft) { 0.990000 ≥ 1.010000</p>		

8.2.2

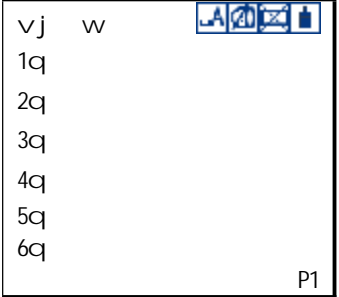
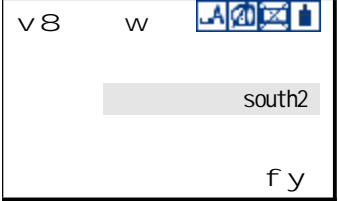
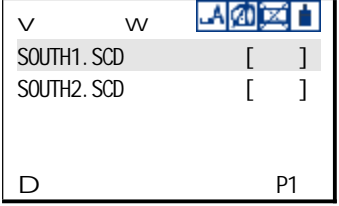
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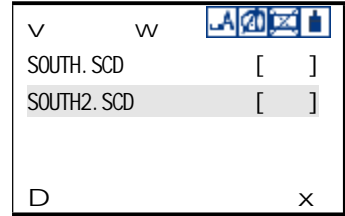
9

h

<p>vj wy x h [2]()</p>	[2]	
<p>h[F1]() 1)</p>	[F1]	
<p>Z 2)</p>		

h [] [] Z /

[] []



V W

h[ENT](k) \ c m [ENT]
j

<p>)</p> <p>) 8%</p>	<p>1) h [F3](h [F4](</p> <p>[F3] [F4]</p>	<table border="1"> <tr> <td>v</td> <td>Zw</td> <td></td> </tr> <tr> <td>1</td> <td></td> <td></td> </tr> <tr> <td>2</td> <td></td> <td></td> </tr> <tr> <td>3</td> <td></td> <td></td> </tr> <tr> <td>4</td> <td></td> <td></td> </tr> <tr> <td>v</td> <td>w</td> <td></td> </tr> <tr> <td>NO</td> <td>50.000m</td> <td></td> </tr> <tr> <td>EO</td> <td>50.000m</td> <td></td> </tr> <tr> <td>ZO</td> <td>50.000m</td> <td></td> </tr> <tr> <td></td> <td>1.450m</td> <td></td> </tr> </table>	v	Zw		1			2			3			4			v	w		NO	50.000m		EO	50.000m		ZO	50.000m			1.450m	
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82083.26, 40249 T63(56)23..04 6564.2.

v

w




h[1]

v

wu

[1]

g v wu h[F3] , v

V W 
N: 50.000m
E: 50.000m
Z: 99.500m
 1.500m






V W 

v	w	
		1.500m
		0
		south
N:		0.000m
E:		0.000m
Z:		0.000m

h[F3]() c
Z p h [F3]
[ENT] [ENT]

v	Zw	
1		
2		
3		
4		

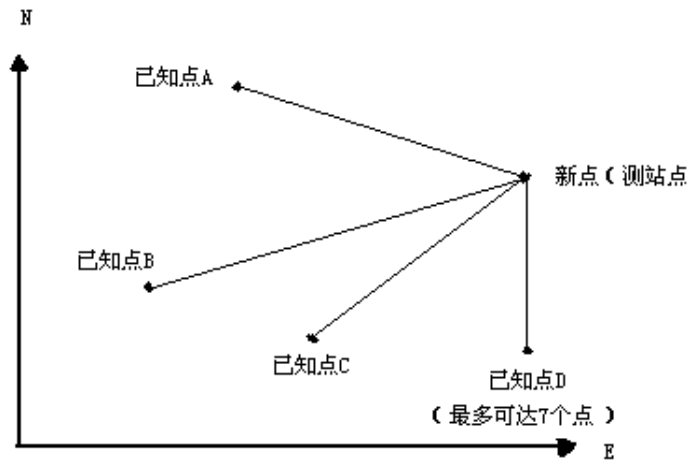
v	w	
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<p>p 1)</p>		<p>v8 w </p> <p>south1</p> <p>f y</p> <hr/> <p>v w </p> <p>6</p> <p>1.500m</p> <p>N: ----.---m</p> <p>E: ----.---m</p> <p>Z: ----.---m</p>
<p>gi</p>		<p>v w </p> <p>J1</p> <p>1.630m</p> <p>N: ----.---m</p> <p>E: ----.---m</p> <p>Z: ----.---m</p>
<p>h[F1]() 8</p> <p>% h[F4]()</p> <p>1</p>	<p>[F1]</p> <p>[F4]</p>	<p>v w </p> <p>J1</p> <p>1.630m</p> <p>N: 99.098m</p> <p>E: 98.787m</p> <p>Z: 101.257m</p> <hr/> <p>v w </p> <p>J2</p> <p>1.630m</p> <p>N: 99.098m</p> <p>E: 98.787m</p> <p>Z: 101.257m</p>


1) h[F4](fy) \fy4 h[F] h[F2]
oy

8.4.2


7 7
 2 7
 3 7
h c h (. : # 3
c)



<p>j h [5]()</p>	<p>[5]</p>	<div style="border: 1px solid black; padding: 5px;"> <p>v w </p> <p>1q 2q 3q 4q 5q</p> <hr/> <p>v w </p> <p>STN1</p> <p>1.450m</p> <p>f</p> </div>
<p>h[F3]() 8% \ h[F4](f) J</p>	<p>[F4] [F3]</p>	<div style="border: 1px solid black; padding: 5px;"> <p>v w </p> <p>H1</p> <p>1.200m</p> <p>f</p> <hr/> <p>v w </p> <p>y</p> <p>N 0.000m E 0.000m Z 0.000m 2.000m</p> </div>

			v	w	
				y	
			N		9.169m
			E		7.851m
			Z		12.312m
					1.200
y		h [F1]			
		h [F4]	[F1]	v	w
f y			[F4]		

(mm)

V	W	
SD(n) =	4 mm	
SD(e) =	-6 mm	
SD(z) =	1 mm	

gh[F4] ()
 () [F3] (r)

h[F4]

NP670P>?

h[MENU]

j

J

9.1

S]

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A

p !

1^ 2 E_(h)#\$8_` (ahh=1.3m)

2) K	K	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 10%; text-align: right;">v</td> <td style="width: 10%; text-align: right;">w</td> <td style="text-align: right;">1.300m</td> </tr> <tr> <td>V :</td> <td style="text-align: right;">94 59 57}</td> <td></td> </tr> <tr> <td>HR:</td> <td style="text-align: right;">85 44 24}</td> <td></td> </tr> <tr> <td></td> <td></td> <td style="text-align: right;">11.548m</td> </tr> <tr> <td></td> <td></td> <td style="text-align: right;">1.300m</td> </tr> <tr> <td></td> <td></td> <td style="text-align: center;">i</td> </tr> </table>	v	w	1.300m	V :	94 59 57}		HR:	85 44 24}				11.548m			1.300m			i
v	w	1.300m																		
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1) 3.7 2)h[F2]() ,m h[F3]() m																				

2^ b2 E_#\$8_`

h [2]	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 10%; text-align: right;">v</td> <td style="width: 10%; text-align: right;">w</td> <td style="text-align: right;">1.300m</td> </tr> <tr> <td>1q</td> <td></td> <td></td> </tr> <tr> <td>2q</td> <td></td> <td style="text-align: right;">}!"-0.84 Tc (<) Tj/F32+29T(JKs) Tj/F4+19</td> </tr> </table>	v	w	1.300m	1q			2q		}!"-0.84 Tc (<) Tj/F32+29T(JKs) Tj/F4+19
v	w	1.300m								
1q										
2q		}!"-0.84 Tc (<) Tj/F32+29T(JKs) Tj/F4+19								

V

W



K

() 1)






[F4]

[] MLM-1(A-B A-C)

MLM-2(A-B B-C)

MLM-1

D

<p>j h [2]()</p>	<p>[2]</p>	<p>v w </p> <p>1q 2q 3qZ 4q 5q 6q</p>
<p>p</p>	<p>[F4]</p>	<p>v8 w </p> <p>south</p> <p>f y</p>
<p>h [1] A-B A-C</p>	<p>[1]</p>	<p>v w </p> <p>1q A-B A-C 2q A-B B-C</p>
<p>A h[F1]() 1)</p>	<p>A [F1]</p>	<p>v A-B A-Cw </p> <p>y</p> <p>N : 0.000m E : 0.000m Z : 0.000m : 1.500m</p>
<p>8% A h[F4]</p>	<p>[F4]</p>	<p>v A-B A-Cw </p> <p>y</p> <p>N : 100.164m E : 100.144m Z : 99.908m : 1.500m</p>

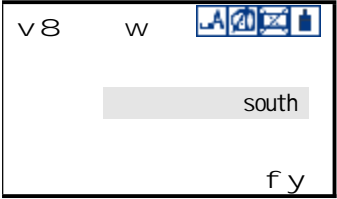

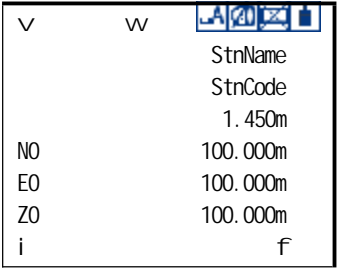
g B h[F1](

√A-B	A-Cw	
	y	
N :		0.000m
E :		0.000m
Z :		0.000m
		1.500m

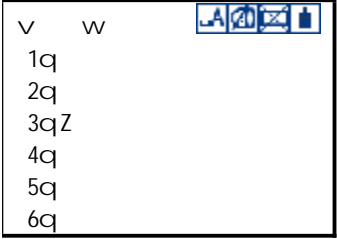
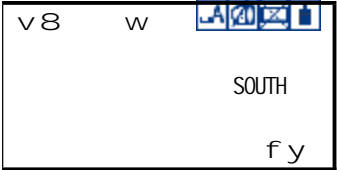
y h F3]() A

[F3]

√ Zw

p		
h [1]()	[1]	
f h[F4] 1)	[F1] [F4]	

2)[dw| 67GHab Z DE
[]

j h [3](Z)	[3]	
h[ENT] [ESC] r [h[ESC] ,]	[ESC]	

h [2]() [2]

Z
1q
2q

h[F4] (f y) [F4]

Z
y 1
N 0.000 m
E 0.000 m
Z 0.000 m
i f y

0m f h y

h

k / c h[F4](r) HR 45 00| 00}
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[F4]
[] [r]

<p>h[F3]() 1</p> <p>h[F4]()</p>	<p>[F3]</p> <p>[F4]</p>	<table border="1"> <tr> <td>v</td> <td>w</td> <td></td> </tr> <tr> <td></td> <td></td> <td>0</td> </tr> <tr> <td></td> <td></td> <td>0.000m^2</td> </tr> <tr> <td></td> <td></td> <td>0.000m</td> </tr> <tr> <td>N</td> <td></td> <td>0.000m</td> </tr> <tr> <td>E</td> <td></td> <td>0.000m</td> </tr> <tr> <td>Z</td> <td></td> <td>0.000m</td> </tr> </table> <table border="1"> <tr> <td>v</td> <td>w</td> <td></td> </tr> <tr> <td></td> <td></td> <td>1</td> </tr> <tr> <td></td> <td></td> <td>0.000m^2</td> </tr> <tr> <td></td> <td></td> <td>0.000m</td> </tr> <tr> <td>N</td> <td></td> <td>100.000m</td> </tr> <tr> <td>E</td> <td></td> <td>100.000m</td> </tr> <tr> <td>Z</td> <td></td> <td>100.000m</td> </tr> </table>	v	w				0			0.000m^2			0.000m	N		0.000m	E		0.000m	Z		0.000m	v	w				1			0.000m^2			0.000m	N		100.000m	E		100.000m	Z		100.000m
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v	w																																											
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9.4.2

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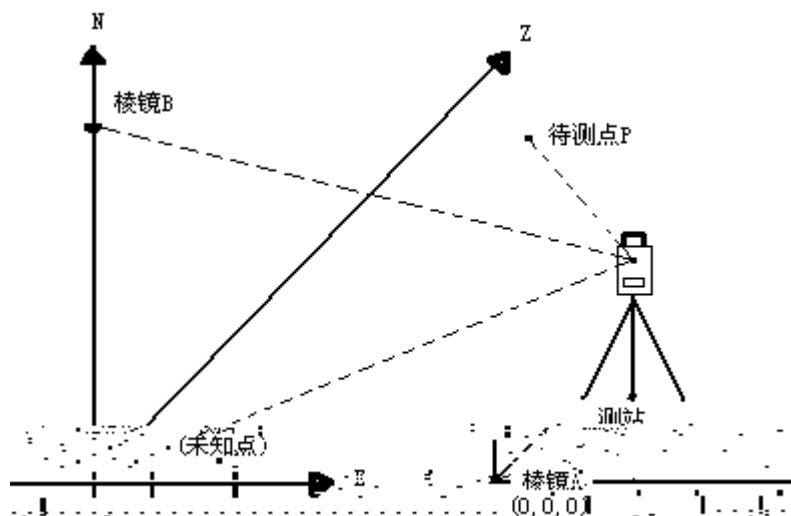
y

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h[F1]() 1)

[F1]



<p>h [MENU] j 1/2, 5h [4],</p>	<p>[MENU] [4]</p>	
<p>h [5]()</p>	<p>[5]</p>	
<p>p :</p>	<p>[F4]</p>	

h P1()
 h[F1]() P1

[F1]

v	w	y
HR	0 00 00}	0.000m
		0.000m
		1.450m
		1.500m
		f

U P1
 h[F4](f) [F4]

v	w	y
HR	246 45 | 12}	4.562m
		4.013
		1.450m
		1.500m
		f

g] P2
 h[F4](f)







v	w	
NO		4.315m
EO:		5.110m
ZO:		-11.035m
		m
v	w	

j . h[F4]()

. h[F1]()

h[F1]() [F4] [F1]

1)

<p>h [6]()</p>	<p>[6]</p>	<p>v w </p> <p>1q 2q 3qZ 4q 5q 6q</p>
<p>j [1] Z, p ,5h[F4](f y) [ENT](k)</p>	<p>[1] [F4]</p>	<p>v w </p> <p>1q 2q 3q</p>
<p>h[ENT](k)</p>	<p>[ENT]</p>	<p>v w </p> <p>SOUTH. SHL</p> <p>D P2</p>
<p>Z J Z h [F4]()</p>	<p>[F4]</p>	<p>v Zw </p>
<p>g F N E h[F4]()</p>	<p>N E</p>	<p>v F w </p> <p>F 1 1000.000m N 1.500m E 2.000m</p>
<p>i J c 1) h[F4]()</p>	<p>[F4]</p>	<p>v Zw </p> <p>F</p>

c	[F4]	<div style="display: flex; justify-content: space-between;"> v w </div> <div style="text-align: right; margin-top: 10px;"> 1 1000.000m 0 00| 00} </div>
1)h[F2]		

c c ' Q

| VS

e o h[f y]

m c J R h[ESC] i c 4 :

Oc p@ g :

Hf

F R 7

q

v wc h[F1]() [F1]

c

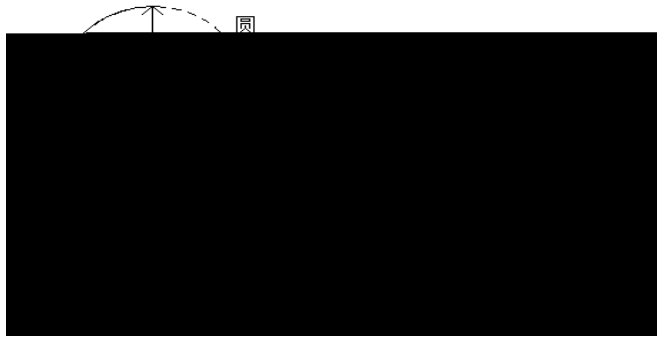
v
w

1
 1000.000m
 0 00| 00}

v

h[F4](f y)

[F4]



c h[F3]() q q

c h[F3]() [F3]
 c

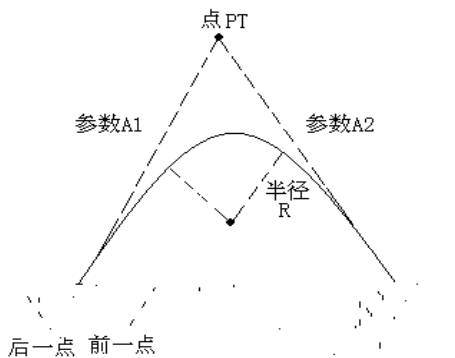
v	w	
		3
		1071.561m
		91 17| 38}

y) h[F4](f [F4]

v	w	
		4
		0.000m
		0.000m
		f y

m c

v w



c h[F4]()

[F4]

100.000
0 00| 00}
04

N E A1 A2

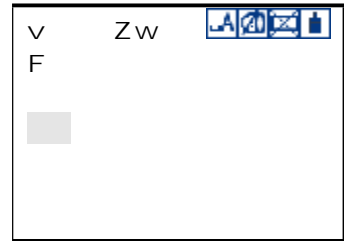
9.6.1.2

j

) c

5h [F1](

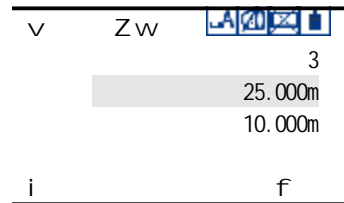
[F1]



h

:

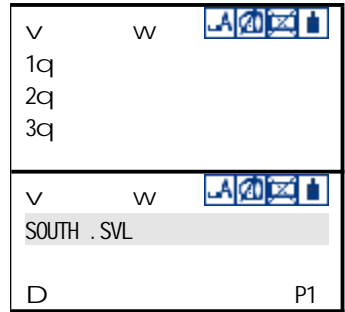
c



1000	1300	1800	2300
50	70	60	90
0	300	300	0

c D h RU h[f y]
c 4h[ESC] i c

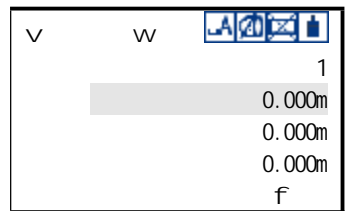
j h [2]
Z, p , [ENT] [2]
Z, [F4]
5h[ENT] 1) [ENT]



h[F4]() c [F4]
h[F4](f



y) [F4]



Mn
v w Ml

j

h

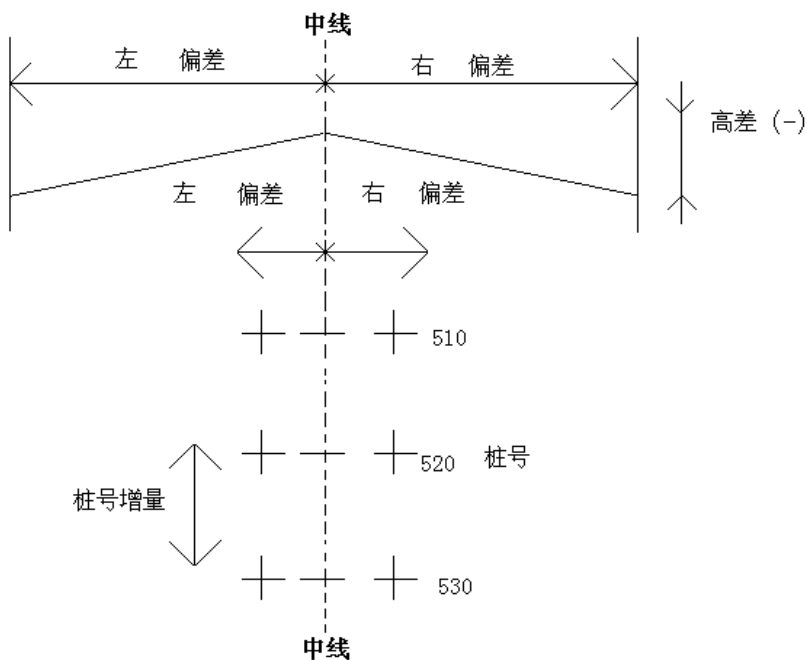
[F2]() ,

,

, h[F1]

[F2]

[F1]? Mn



9-1

9.6.2.1

○

V

j [3] j [1]	[3]	<table border="1"> <tr> <td>v</td> <td>w</td> <td></td> </tr> <tr> <td>1q</td> <td></td> <td></td> </tr> <tr> <td>2q</td> <td></td> <td></td> </tr> <tr> <td>3q</td> <td></td> <td></td> </tr> </table>	v	w		1q			2q			3q					
v	w																
1q																	
2q																	
3q																	
	[1]	<table border="1"> <tr> <td>v</td> <td>w</td> <td></td> </tr> <tr> <td>1q</td> <td></td> <td></td> </tr> <tr> <td>2q</td> <td></td> <td></td> </tr> <tr> <td>3q</td> <td></td> <td></td> </tr> <tr> <td>4q</td> <td></td> <td></td> </tr> </table>	v	w		1q			2q			3q			4q		
v	w																
1q																	
2q																	
3q																	
4q																	
) 1) h[3] ([3]	<table border="1"> <tr> <td>1q</td> </tr> <tr> <td>2q</td> </tr> <tr> <td>3q</td> </tr> </table>	1q	2q	3q												
1q																	
2q																	
3q																	

<p>c :</p> <p>—</p>		<div style="border: 1px solid black; padding: 5px;"> <p>SOUTH</p> <p>i fy</p> </div>
<p>h[F2]() Z,</p> <p>p ,h[F4] [ENT] ,</p> <p>2) 3)</p>	<p>[F2]</p> <p>[F4]</p>	<div style="border: 1px solid black; padding: 5px;"> <p>SOUTH.SCD []</p> <p>S0001 [DIR]</p> <p>DATA.SCD []</p> <p>D i x</p> </div>
<p>h[] [] Z/ /</p>	<p>[] []</p>	<div style="border: 1px solid black; padding: 5px;"> <p>SOUTH.SCD []</p> <p>S0001 [DIR]</p> <p>DATA.SCD []</p> <p>D i x</p> </div>
<p>gh[F4](fy) \ h[ESC]</p> <p>m j</p>	<p>[F4]</p>	<div style="border: 1px solid black; padding: 5px;"> <p>1q</p> <p>2q</p> <p>3q</p> <p>4q</p> </div>
<p>1)h[1] [2] :</p> <p>2)</p> <p>3)h[F4](x) ycx ,</p>		

9.6.2.2

— — r N E Z r h

j [3] [3]

j [2]

[2] P i - 0.36 T c ([] T j - 0.48 T c

V

W



0 CW

C

j [3]
j [2]

[3]

v	w	
1q		
2q		
3q		

[2]

v	w	
1q		
2q		
3q		
4q		

[F1]

c h[F1]()

v	w	
---	---	--

	0.000 m
	0.000 m
	0.000 m

f

j [3] [3]
j [3] [3]

v	w	
1q		
2q		
3q		

c h [F1](NE/AZ) [F3]

v	w	
		0.000 m
		0.000 m
		1.500 m
NE/AZ		f

v w

h[F2]()

2)y[DEe] N

r h

— — r N E Z

v w

j [3]
j [3]

[3]

[3]

	v	w	
			0.000 m
			0.000 m
			1.500 m
	NE/AZ	f	
	v	w	
			1000.000
			0.000
	NBS		1.500 m
	EBS		2.000 m
	ZBS		0.000 m
	` a	f	
	v	w	
			0.000 m
			0.000 m
			1.500 m
	NE/AZ	f	
	v	w	
	NBS		0.0

c	~	A
		h[F4](f
)		
h[F3](f) B	h[F1](NE/AZ)	
u		
h[F3]()	h[F4](f	
)		

9.6.2.4

S

j [4]

[4]

C F
q >E>E

v	w	
1q		
2q		
3q		
4q		

V

W



G
HR
HD

$$k = h$$

$$h_{Cl} < \left(\frac{c}{4} \right)$$

$$m_{hnl} < \left(\frac{c}{4} \right)$$

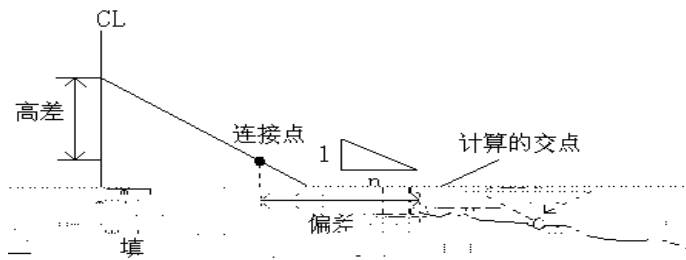
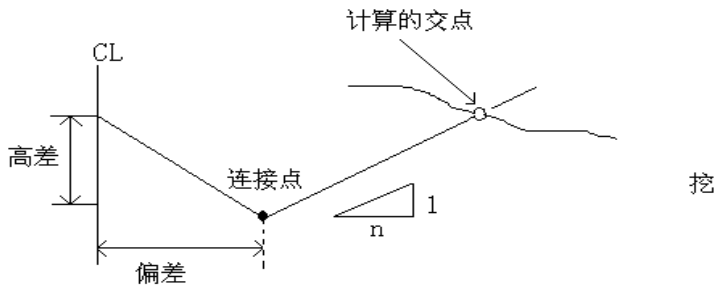
$$\blacktriangleleft h_{op} < 4h$$

$$\blacktriangleright h_{qp} < 4h$$





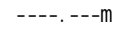


$$\frac{R}{4} = \frac{h[\text{ESC}]}{c} \quad m = \frac{c}{h[\text{ESC}]} \quad c$$


9.6.2.5

g 1 4p@O j
H 1 p:
_Z
r ! 1f !



--	--	--

<p>c h[F2]()</p>	<p>[F2]</p>	<p>v w </p> <p>1000.000m 0.000 m 0.000 m 0.000 m</p>
<p>) h[F4](f</p>	<p>[F4]</p>	<p>v w </p> <p>0.000m 0.000m 0.000m 0.000m f</p>
<p>[F2]() [F3]()</p>	<p>[F2] [F3]</p>	<p>v w </p> <p>2.150m 0.000m 2.150m 0.000m</p>
<p>c</p>		<p>v w </p> <p>C </p> <p>HR 180 13| 25}</p> <p>----.---m ----.---m ----.---m</p>
<p>w \ c h[F4]() , \ , 4Z _</p>	<p>[F4]</p>	<p>v w </p> <p>/ 3.398 m / 3.321 m 2.546 m HR 180 13| 25}</p>
<p>gh c h[F4]() / / 0 Z</p>	<p>[F4]</p>	<p>v w </p> <p>/ 0.000 m / 0.001 m 1.546 m HR 140 13| 25}</p>

<p>i h[ESC]m c -y</p>		<p>v w </p> <p>2.150m 0.000m 2.150m 0.000m</p>
------------------------------------	--	---

() 1) . Z !
2)

QPRG34

j u h [5]

v w

1h(= 34 : 1m=3. 2803333333333ft

j	g	
	1q (360) 2q (400G) 3q (6400M)	DEG/GON/MIL(/ /)
	1q 2q 3q	m / ft / ft+in (/ /)
	1q C / F 2q hPa /mmHg/inHg	C / F hPa /mmHg/inHg

2hrs 34

j	g	
	1q 2q	: 1m=3. 280839895013123ft : 1m=3. 2803333333333ft

3. DE 34

j	g	
U	1q NEZ 2q ENZ	U N/E/Z E/N/Z

4. - t 34

j	g	
	1q 2q	- / /
	1. 2.	r

h 1. h
 2.
 1q
 2q
 3q

1.
22c ((45) Tj -215.76 -37.56 TD -0.84 Tc (4) Tj -1. f Tc

h3 TDMn



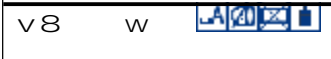
5. GHI J 34

6. uv 34



r


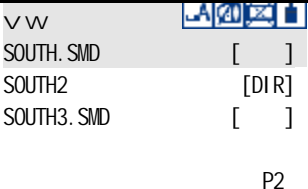
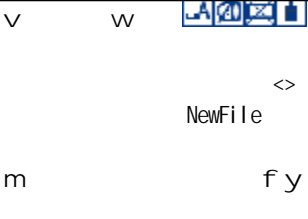
Q\$PSTUV>?

	J		g			
1)		/		/	/	/
2)		/				/
		/				
3)	SD				SD	
4)			SD		SD	

<p>h[F1](D) , . p < , 2</p>	<p>[F1]</p>	 <p>A</p>
<p>④ h[F2](\$) , p p fy \$h[F3] \$ U c \$ U hf m Z 2)</p>	<p>[F2] [F3]</p>	 <p>r \$</p>  <p>\$</p> <p>f</p>
<p>1)h[F4](fy) [ENT](k) 8 p Z (SD SD 2)h[F1](l) m Z</p>		

11.1.2

<p>[MENU]) vj wu h[3](j</p>	<p>[MENU] [3]</p>	 <p>1. 2. 3. 4.</p>
<p>h[1]() ,c h[1] [6] h[2] hfy u</p>	<p>[1] [2]</p>	 <p>1. 2. 3. 4. 5. 6. p</p>

<p>Z h[F4](P1) ycx</p>	<p>[F4]</p>	
		
<p>[▶] u , [◀] / / / / h[F4] f u</p>	<p>[F4]</p>	
<p>1) 3.7 2) 3)h[ESC] m Z</p>		

11.1.3

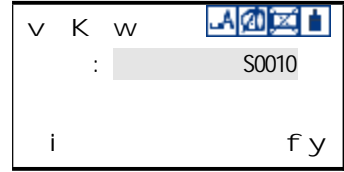


h [] []

[] []

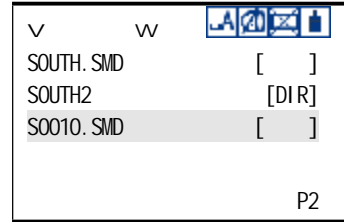
h[F2]()

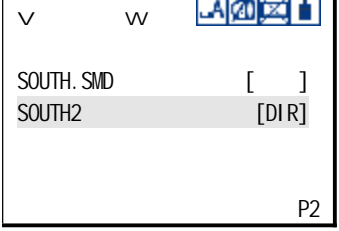
[F2]



h[F4](f y) ,
1)n 3)

[F4]



<p>f y h [F3](r)</p>	<p>[F3]</p>	
<p>1)h[F1](l) m Z</p>		

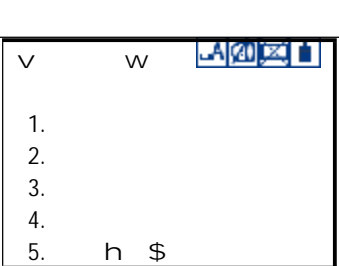

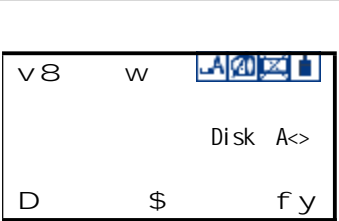
11.1.5

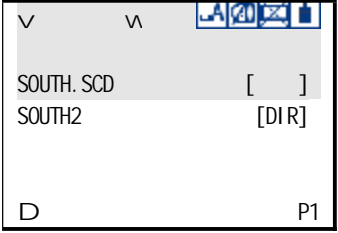
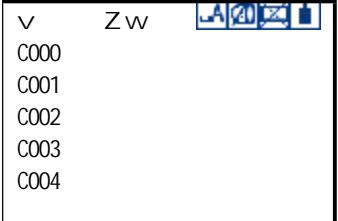
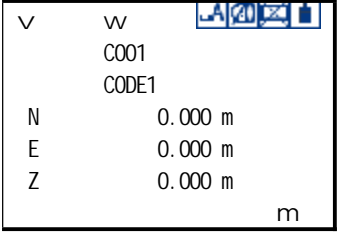
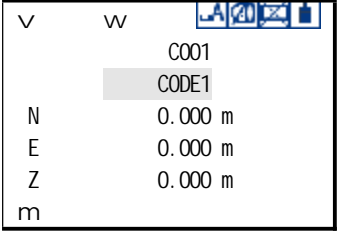
J

wj

\

#

<p>h [MENU] j 1/2 h [3]() j</p>	<p>[MENU] [3]</p>	
<p>h[1]() ,c h[1] [6] h[2]</p>	<p>[1] [2]</p>	
<p>Z 1) Disk:A Z Disk:B Z SD p (A K C/D , %=) [◀] [▶] Disk A Disk B Q</p>	<p>[F4]</p>	

<p>h[] [] : ,5h [ENT](k)</p>	<p>[ENT]</p>	
<p>[F1]() 1) : h</p>	<p>[F1]</p>	
<p>gc p h[F1]()</p>	<p>[F1]</p>	
<p>i : h [F2]() , U h[F4](3)</p>	<p>[F4]</p>	
<p>1)h[F2]() , h[F3]() p h[F4]() , 2)h[] [] 3) 3.7</p>		

11.2

J D >J

--	--	--

v

w



[MENU]
)

vj wu h[3](
j

[MENU]
[3]

11.2.1: ewxy/z { X?

Jg : O U J ~ g r /

11.2 y ,h[4]() , [4]

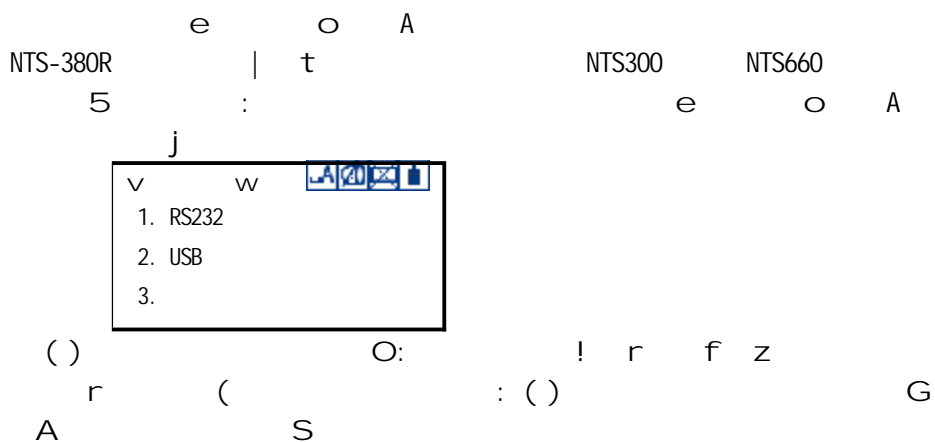
v	w	
1.	300	
2.	660	
3.		
4.		

v U w

U j h[] [] r
D [1] [5] : g 5
h[] [] , U /NE/Z/
Q

v menuw j u h[3]()
v wu S


11.4



11.4.1


RS232 ' 4800

j h[2]()	[2]	<p>v w</p> <ol style="list-style-type: none"> 1. 2. 3. 4. 5. h \$
h[1](RS232)	[1]	<p>v w</p> <ol style="list-style-type: none"> 1. RS232 2. USB 3.
h[3]()	[3]	<p>v a w</p> <ol style="list-style-type: none"> 1. 2. 3.

<p>h[] / 2' g 5h [] [], p h[F4]() 1) 2)</p>	<p>[] [] [] [F4]</p>	<p>v w Ack/Nak ' : 4800 b/s j 8</p>
<p>c m RS232 j</p>		<p>v a w  1. 2. 3.</p>
<p>1)h[] 4h[] l h[ESC] 2) J u j h[] [] 2p: g 5h[] [], p</p>		

USB None

j h[2](USB) [2]

<p>v w  1. RS232 2. USB 3.</p>

h[3]

<p>j h[2]()</p>	<p>[2]</p>	<p>v w</p> <ol style="list-style-type: none"> 1. 2. 3. 4. 5. h \$
<p>USB t RS232</p> <p>h[1] (RS232)</p>	<p>[1]</p>	<p>v w</p> <ol style="list-style-type: none"> 1. RS232 2. USB 3.


h[1] (),c

h[2] (2.5 MiB.)

11.4.3

USB

j h[2]() [2]

v	w	
1.		
2.		
3.		
4.		
5.	h \$	

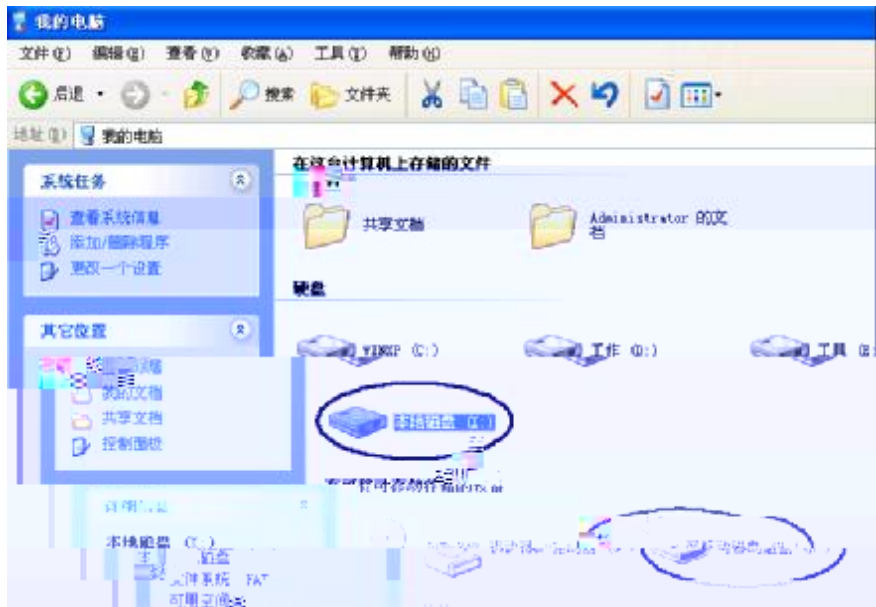
g 8% ,c 8%! m j 3)		[USB] A: SOUTH.SCD 102 oQ
1) 3.7 2)h[F1] o 11.2.1 / 3) l h[F4](oQ)		

11.4.4

>J

v w 

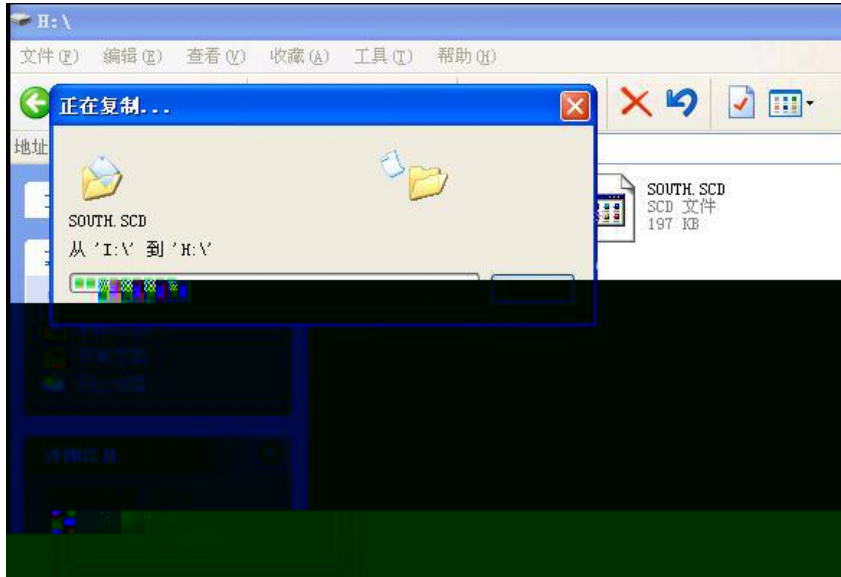
j h[2]() [2]



I H (I) : 5
j



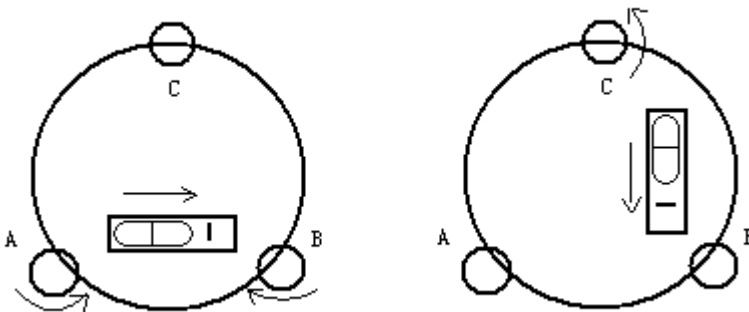
g H 8 j { , p
j : m j ,
h[F4](i) , S !



QOPWXYZ [

4 \$ 8 i C ! J j : K C 9 3
g f ci

12.1



UWX

o 3.2 f

UZ [

* / . * S O Q ()
 2 * 180 * r * () 2
 * 90 yt *
 2 2 R / * i Q

12.2

UWX

f . * # p

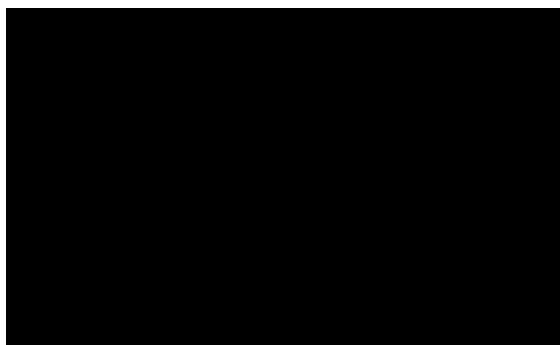
UZ[

. * Q * *
 O * / () /
 * * t , i

12.3

UWX

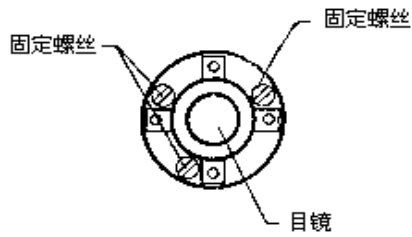
. r z | 2 (|) p
 |



UZ[

O Y . # 6 O TD (n) Tj /

i 、 5 + 8



12.4 ()

UWX

1 < 100 ' 3 f
8
2
3 10 13 | 10 }
c

190 13 | 40 }
(180) 30 } 20 }

UZ [

Ah

<p>u h [MENU] h [6] [MENU] [6]</p>	<p>[MENU] [6]</p>	<p>v j w [LA] [OK] [ESC] [HOME]</p> <p>1 2 3 4 5 6</p> <p>P1</p>
<p>h [6] () 5 [2] ()</p>	<p>[1] [2]</p>	<p>v j w [LA] [OK] [ESC] [HOME]</p> <p>1. 2. 3. 4.</p>



v w



) () f h[F4]([F4]

3 / [[X 2 10 D e -
\$ | Z |
/ x u I # \$ Z


Uu

<p>() f h[F4]()</p>	<p>[F4]</p>	<p>v w  y c V 96 03 | 15} HR 45 45 | 49} l 0 00 | 00 }</p>
<p>c | l h c m j</p>		<p>v j w  1. 2. 3. 4.</p>

(1) t r r f h: 5 (j :)
2 C j : p r C : V W
R

12.7

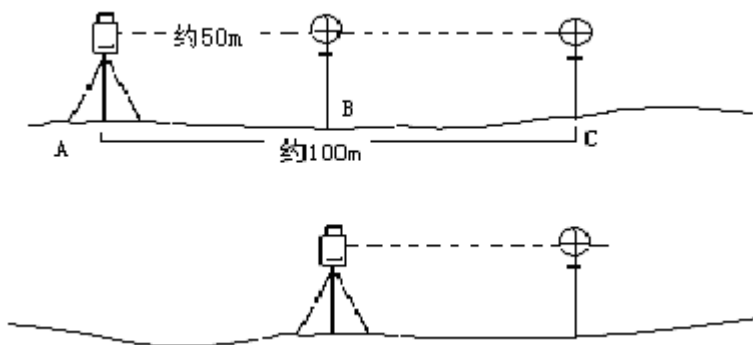
: ! : # " 1f
.: f : e ! p@ c J R Jg
" wO f f ~ e

u h[MENU] h[6] [MENU] [6] vj w 
1
2
3
4 UV

v j w



h [6]() 5 [3] ([1]
) [2]

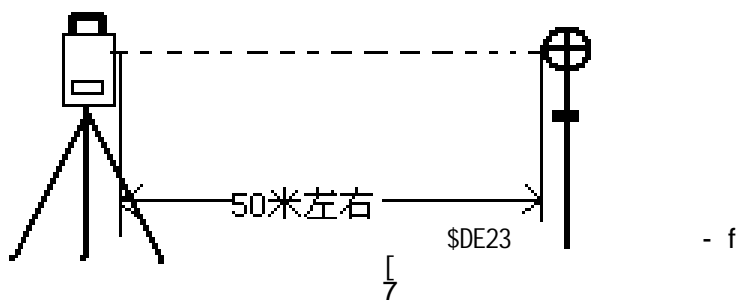


UZ[

C G K o \$ 5 @
h K

/ t : \$
H1 r r G : 3 J
t A ~ t ! t A
=

12.10



UWX

1 50 '
2 f
3 8 h[]([

z 9 K
4 r y
UZ[@

12.11

1 %r \$
% ! +
% c % /
* +h r 67
- . h : % Ok k] 8
UW\h fe | V [/ 5 20 ')
ks . o _ 12 D #
\$ 2 Sp
(f] d[1

12.12

Q

12.13

! r f o 12.1
12.7 2
12. p] M , : ~

% O% , *
] 2
/1 %
J ~ i
(J /1 %
C ~ J *
t * 2
5 2 ~ / 7 * # Q

Q5P\] RG

AB67(6

NTS-382/5R4/6/8/10/12

○

0.650 0.690 m

EDM

0.1mm

< 7 14 / 20m

< 10 20 / 50m

/ / -
99999999.999 m 0.1 mm

i

2n5 i

9K =

@/ | } m NTS-382/5R4U ~

(2 2 10⁻⁶ D) 0.3s

• (5 2 10⁻⁶ D) 0.1s

(2 2 10⁻⁶ D) 0.3s

([90%)

<200m (3 2 10⁻⁶ D) 0.3-3 -3

<200m (5 2 10⁻⁶ D)

	([90%)	
	<300m	(3 2 10 ⁻⁶ D) 0.3-3 10
	>300m	(5 2 10 ⁻⁶ D) 10
•	<300m	(10 2 10 ⁻⁶ D) 0.3-3 10
•	>300m	(10 2 10 ⁻⁶ D) 10

@/ | } m NTS-382/5R8 u ~

	(2 2 10 ⁻⁶ D)	0.3s
•	(5 2 10 ⁻⁶ D)	0.1s
	(2 2 10 ⁻⁶ D)	0.3s
	([90%)	

	<400m	(3 2 10 ⁻⁶ D) 0.3-3 10
	>400m	(5 2 10 ⁻⁶ D) 10
•	<400m	

		$(2 \ 2 \ 10^{-6} \ D)$	0.3s
•		$(5 \ 2 \ 10^{-6} \ D)$	0.1s
		$(2 \ 2 \ 10^{-6} \ D)$	0.3s
([90%])			
	<600m	$(3 \ 2 \ 10^{-6} \ D)$	0.3-3 10
	>600m	$(5 \ 2 \ 10^{-6} \ D)$	10
•	<600m	$(10 \ 2 \ 10^{-6} \ D)$	0.3-3 10
•	>600m	$(10 \ 2 \ 10^{-6} \ D)$	10
60			
@/ | } mNTS-382/5R4U ~			
			(60*60)mm
~	○ < 40	5000m	400m
		1	[0.18 2
~	○ < 40	400m	200m
@/ | } mNTS-382/5R6U ~			
			(60*60)mm
~	○ < 40	5000m	600m
		1	[0.18 2
~	○ < 40	600m	300m
@/ | } mNTS-382/5R8U ~			
			(60*60)mm
~	○ < 40	5000m	800m
		1	[0.18 2
~	○ < 40	800m	400m
@/ | } mNTS-382/5R10U ~			
			(60*60)mm
~	○ < 40	5000m	1000m

		1	[0.18 2
~	○ < 40	1000m	500m
@/ | } m NTS-382/5R12 U ~			
			(60*60)mm
~	○ < 40	5000m	1200m
		1	[0.18 2
~	○ < 40	1200m	600m
1	[90%	2	[[18%

RG

	NTS-382R4/6/8/10/12	NTS-385R4/6/8/10/12
<=67		
	! "	
	79mm	
	0.1} / 1} / 5}	
f	2}	5}
• 补A		
○	○	
3T	48	
+		
Y	1.2	
: ; 倍水&		
	3|	
x	1}	
(9&		
	30} 2	
	8| 2	
) umm&		
○	○	
+	3	
Y	0.5 n	

Q; P ^)

SD 64 64 1 •

USB

"

Q %

XY

f

f

VW

%&

G •

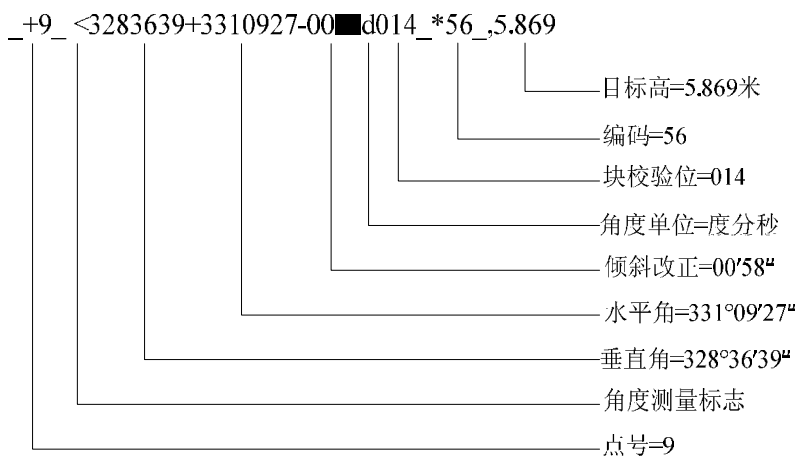
1 •



20 20 30 30,40 40,60 60 1

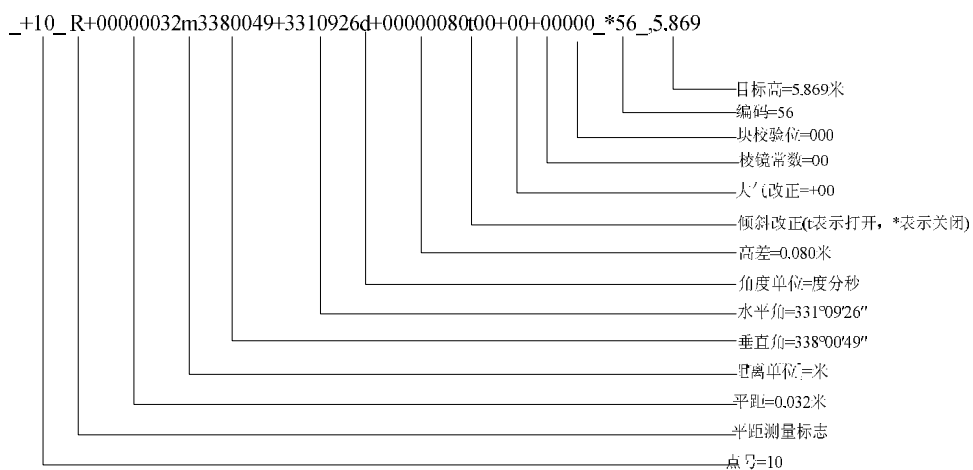
_ ^! A`

1



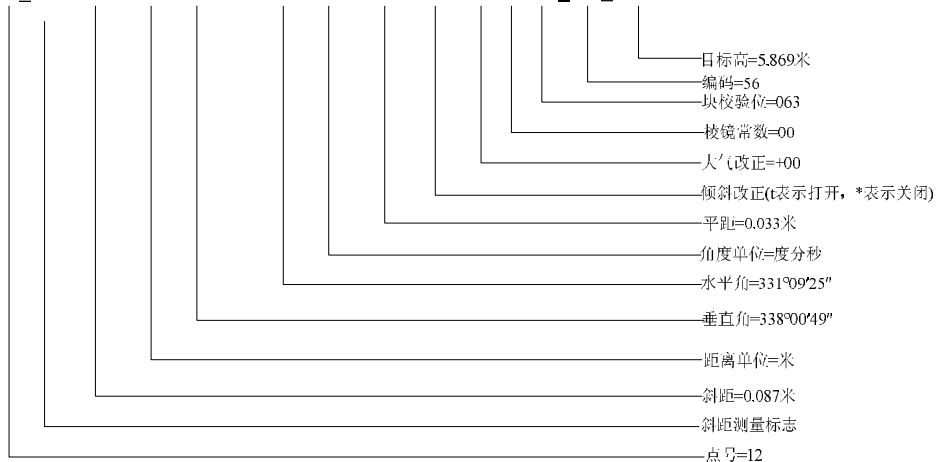
3

_+10_R+00000032m3380049+3310926d+00000080t00+00+00000_*56_5.869



+12?+00000087m3380055+3310925d+00000033t00+00+00063_*56_5.869

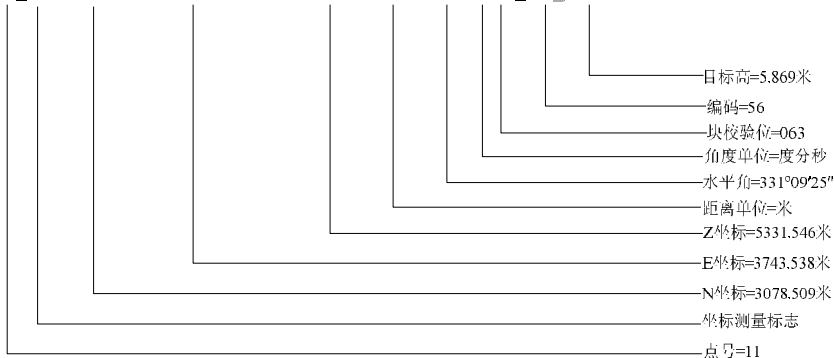
+12 ?+00000087m3380055+3310925d+00000033t00+00+00063_*56_5.869



4

+11 U+00003078509+00003743538+00005331546m+3310925d086_*56_5.869

+11 U+00003078509+00003743538+00005331546m+3310925d086_*56_5.869



2

/

NTS660 X? h

E N Z

- 1, 1000.000,1000.000,1000.000, STN
- 2, 990.000,1010.000,100.000, STN
- 101,994.890,1000.964,100.113, STN
- 102,993.936,1007.799,100.800, STN
- 103 ,998.515,1009.639,100.426, STN
- 104,1002.068,1002.568,100.342, STN
- 1001,1004.729,997.649,100.1153, PT

1002,1003.702,990.838,100.799, PT

1003,7911.990,990.358,100.403, PT

1004,997.311,998.236,100.354, PT

NTS300 X? h

_+1 _ x+01111107396_ y+00000005457_ z+00000003612_+2 _
x+01111107397_ y+00000005457_ z+00000003612_+3 _ x+01111107395_
y+00000005457_ z+00000003612_+4 _ x+00000108916_ y+00000101580_
z+00000100118_

3

G

k 1 Y Q

START(F) E N
 STRAIGHT()
 ARC()
 SPIRAL()
 PT() E N[A1 A2]
 (A1 A2:)

1

START(F) 1000.000, 1050.000, 1100.000
 STRAIGHT() 25.000, 48.420
 SPIRAL() 20.000, 20.000
 ARC() 20.000, 23.141
 SPIRAL() 20.000, 20.000
 STRAIGHT() 148.300, 54.679

2

START(F) 1000.000, 1050.000, 1100.000
 PT() 1750.000, 1300.000, 100.000, 80.000, 80.000
 PT() 1400.000, 1750.000, 200
 PT() 1800.000, 2000.000

5

F YQ —

1000.000, 50.000, 0.000
 1300.000, 70.000, 300.000
 1800.000, 70.000, 300.000
 2300.000, 90.000, 0.000

_ ^! B` abcda

j () h

		0
	N	1100.000
	E	1050.000
h[ENT]	5h[F4]()	h

N	1300.000
E	1750.000
R	100.000
A1	80.000
A2	80.000

h +

N	1750.000
E	1400.000
R	200.000
A1	0.000
A2	0.000

N	2000.000
E	1800.000
R	0.000
A1	0.000
A2	0.000

```

+
START 0.000 1050.000 1100.000 CRLF
PT 1750.000 1300.000 100.000 80.000 80.000 CRLF
PT 1400.000 1750.000 200.000 0.000 0.000 CRLF
PT 1800.000 1800.000 2000.000 CRLF

```

2

$$L_{1.2} = \frac{A_{1.2}^2}{R}$$

$L_{1.2}$:

$A_{1.2}$:

ΔR

$$\Delta R = E - R(1 - \cos t)$$

$$\Delta R = 6.777 - 100(1 - \cos 18.20 \mid 06 \})$$

$$= 1.700$$

$$\Delta R_1 = \Delta R_2$$

$$N_m = N - R \sin t = 63.348 - 100 \sin 18.20 \mid 06 \} = 31.891$$

$$N_{m1} = N_{m2}$$

Q

$$D_1 = R \tan\left(\frac{LA}{2}\right) + \Delta R_2 \operatorname{cosec}(LA) - \Delta R_1 \cot(LA) + N_{m1}$$

$$LA = + 111.55 \mid 47 \} \quad \operatorname{cosec} = \frac{1}{\sin}, \quad \cot = \frac{1}{\tan}$$

$$D_1 = 100 * \tan(111.55 \mid 47 \} / 2) + 1.7(1 / \sin 111.55 \mid 47 \})$$

$$1.7(1 / \tan 111.55 \mid 47 \}) + 31.891$$

$$= 148.06015 + 1.8326 + 0.6844 + 31.891$$

$$= 182.468$$

$$D_1 = D_2$$

KA1

$$N_{KA1} = N_{IP1} - D_1 \cdot \cos a_1$$

$$E_{KA1} = E_{IP1} - D_1 \cdot \sin a_1$$

$$_BP \quad IP1 \quad \Rightarrow \quad a_1 = 74.03 \mid 16.6 \}$$

$$N_{KA1} = 1300 - 182.468 * \cos 74.03 \mid 16.6 \} = 1249.872 \text{ m}$$

$$E_{KA1} = 1750 - 182.468 * \sin 74.03 = 16.6$$

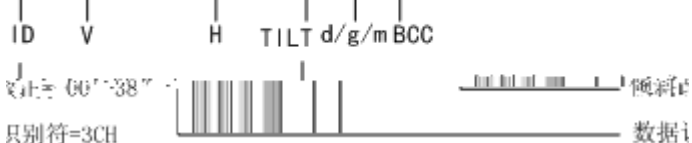
$$2 \quad \cdot \sin a_3$$

$$KA2 \quad BC = \sqrt{(1575.068 - 1444.032)^2 + (1536.058 - 1637.976)^2} = 166.005 \text{ m}$$

$$EC \quad EP = \sqrt{(2000 - 1867.456)^2 + (1800 - 1587.929)^2} = 250.084 \text{ m}$$

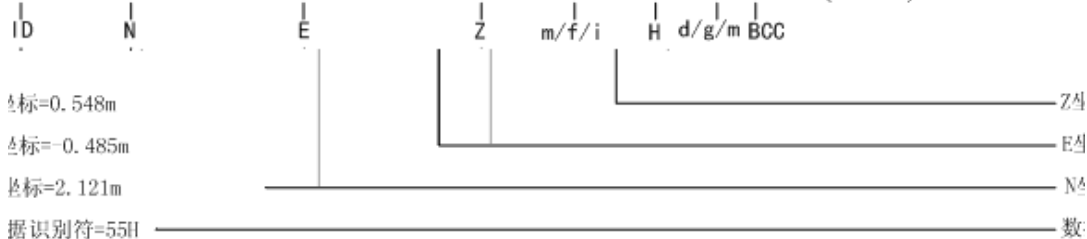
F	(BP)				
N		1100.000 m			
E		1050.000 m			
BP	KA1				
		74 03 | 16.6}			
		545.543 m			
KA1	KE1				
		-100 m (- Z - Y / /)			
		64 m			
KE1	KE2				
		-100 m (- Z - Y / /)			
		131.354 m			
KE2	KA2				
		-100 m (- Z - Y / /)			
		64 m			
KA2	BC				
		322 07 | 30.1}			
		166.004 m			
BC	EC				
		200 (j Z - Y / /)			
		334.648 m			
EC	EP				
		57 59 | 40.6}			
		250.084 m			

<2682303+3470701-0038d093EXT(CRLF)



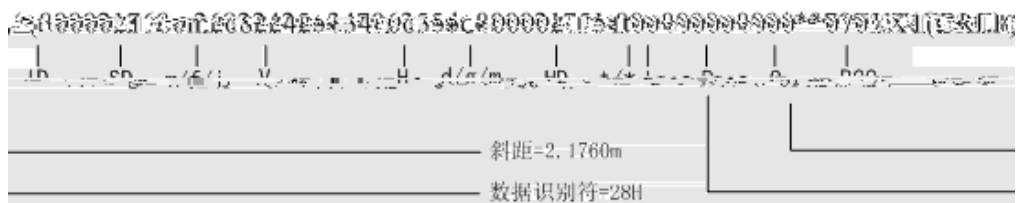
4) (N/E/Z)

U+00000002121-00000000485+00000000548m+3470702d095EXT(CRLF)

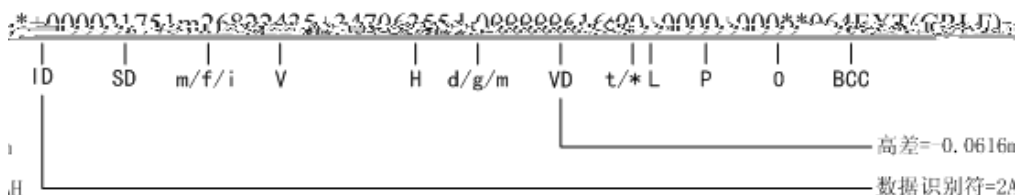


0.1mm

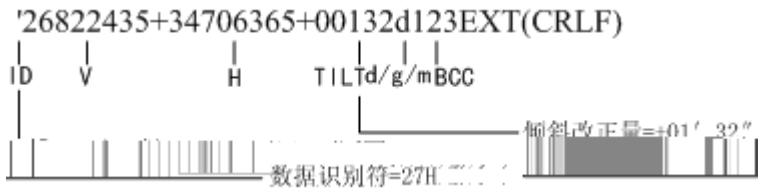
1) (SD)



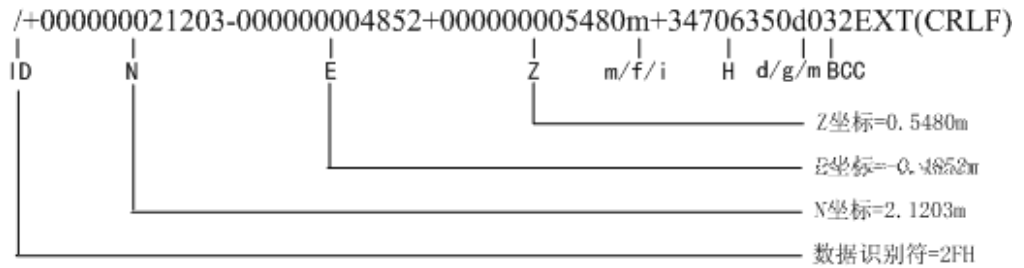
2) / (HD/VD)



3) (H/V)



4) (N/E/Z)



2

y

C 067 ETX CRLF
ASCII 43H 30H 36H 37H 03H 0DH 0AH
y c r 3
ACK 006 ETX CRLF 3
ASCII 06H 30H 30H 36H 03H 0DH 0AH
NAK 021 ETX CRLF 3
ASCII 14H 30H 32H 31H 03H 0DH 0AH

y t

Z10 091 ETX CRLF H/V
ASCII 5AH 31H 30H 30H 39H 31H 03H 0DH 0AH
Z12 089 ETX CRLF HR
ASCII 5AH 31H 32H 30H 39H 31H 03H 0DH 0AH
Z13 088 ETX CRLF HL
ASCII 5AH 31H 33H 30H 39H 31H 03H 0DH 0AH
Z32 091 ETX CRLF SD d
ASCII 5AH 33H 32H 30H 39H 31H 03H 0DH 0AH
Z34 093 ETX CRLF SD
ASCII 5AH 33H 34H 30H 39H 33H 03H 0DH 0AH

Z35 092 ETX CRLF SD
ASCII 5AH 33H 35H 30H 39H 32H 03H 0DH 0AH

Z42 092 ETX CRLF HD d
ASCII 5AH 34H 32H 30H 39H 32H 03H 0DH 0AH

Z44 090 ETX CRLF HD
ASCII 5AH 34H 34H 30H 39H 30H 03H 0DH 0AH

Z45 091 ETX CRLF HD
ASCII 5AH 34H 35H 30H 39H 31H 03H 0DH 0AH

Z62 094 ETX CRLF NEZ d
ASCII 5AH 36H 32H 30H 39H 34H 03H 0DH 0AH

Z64 088 ETX CRLF NEZ
ASCII 5AH 36H 34H 30H 38H 38H 03H 0DH 0AH

Z65 089 ETX CRLF NEZ
ASCII 5AH 36H 35H 30H 38H 39H 03H 0DH 0AH

3

r ! ()

元次并
次(复67>?e次 肩①补变② 崩②补变 补补重元补补变补②补补补② 肩代识补补补补② 肩代补变补②)

<--- C 067 ETX
() --->

<--- C 067 ETX
() --->

7

<--- () --->

<--- () --->

7

变讯67>?8v UO

- 1) / y*
- 2) C BCC . f 0.05 / y
ACK 4. f /
- 3). 0.05 \ 1 y ACK p@5
- 4) D 3) 7 10 J

NTS

<--- y*
ACK 006 ETX --->

<--- y*
() --->

<--- y*
() --->

7

010-67805689

r t (N