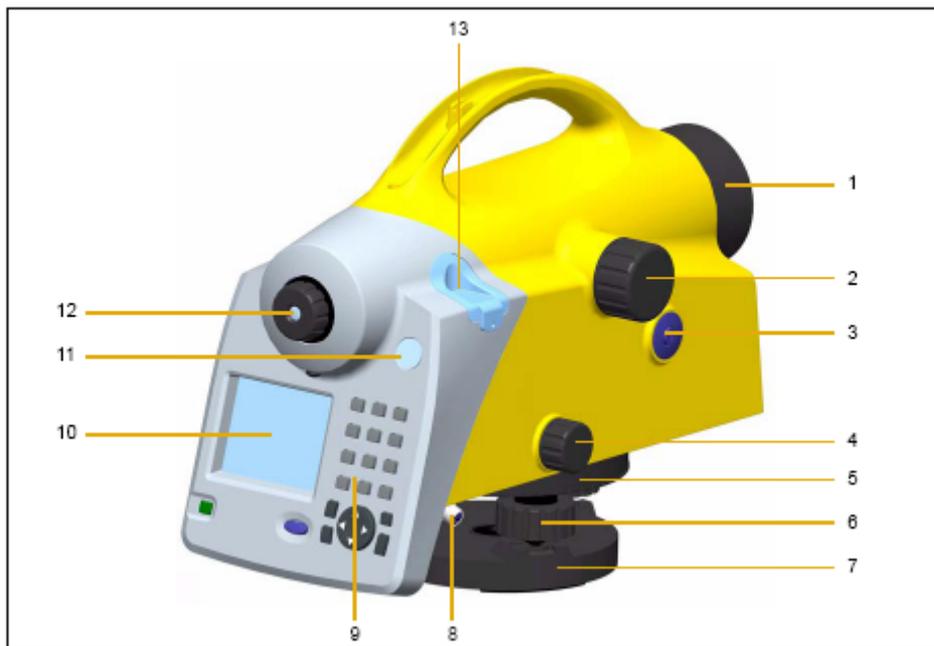


# TRIMBLE DINI 電子水準儀

中文操作手冊

## 一 儀器外部介紹:

### Hardware overview



1. 物鏡
2. 調焦旋鈕
3. 快速測量鍵
4. 水平微動旋鈕
5. 外置羅盤
6. 整平螺旋
7. 基座
8. 電源及傳輸座
9. 鍵盤
10. 螢幕
11. 圓氣泡視窗
12. 目鏡
13. 螺帽, 可移除以調整圓氣泡

## 二 面板軟體說明:

Main Menu	Sub Menu	Sub Menu	Description
1 Files	Project Menu	Select Project	Select from a list of stored projects
		New Project	Start a new project
		Rename Project	Change the name of a stored project
		Delete Project	Delete a stored project
		Copy Between Projects	Copy information between two projects
	Editor		Edit stored data, enter and view data and enter and change code lists
	Data Im/Export	DiNi to USB	Transfer data from the DiNi to a USB Memory Stick
		USB to DiNi	Transfer data from a USB Memory Stick to the DiNi
	Memory	Format USB	Format the USB Memory Stick, see Caution
			Intenal and external memory. Total memory space, free memory space and format internal and/or external memory

主目錄	次目錄	次目錄	說明
1.檔案	任務目錄	選擇任務	選擇一個任務
		新任務	開始一個新任務
		重新命名任務	更改任務名稱
		刪除任務	刪除已儲存的任務
		任務間複製資料	任務間複製資料
	編輯		編輯儲存資料,包括更改編碼資料
	資料輸出輸入	DINI 至 USB	輸出資料至外部 USB 裝置
		USB 至 DINI	經由 USB 外部裝置傳輸至 DINI
	記憶體	重置記憶體	重置 USB 記憶體裝置

Main Menu	Sub Menu	Sub Menu	Description	
2 Configuration	Input		Input of Refraction coeff., Addition const. (R), Date and Time	
	Limits/Tests		Input of different Limits and control settings.	
	Adjustment	Förstner Method		Line of sight adjustment.
		Nähbauer Method		Line of sight adjustment.
		Kukkamäki Method		Line of sight adjustment.
		Japanese Method		Line of sight adjustment.
	Instrument Settings		Setting of Height unit, Input unit, Display (R), Shut off, Sound, Language, Date and Time syst.	
Settings of recordings		Setting of Recording, Recording data(RMC or R-M), PNo increment and Time		
3 Survey	Single Point Measurement		Single Point Measurement	
	Line leveling		Line leveling	
	Intermediate Sights		Benchmark input	
	Stake out		Stake out	
	Continous measurements		Continous measurements	
4 Calculation	Line Adjustment		Line Adjustment	

主目錄	次目錄	次目錄	說明	
配置	輸入		輸入記錄時間日期等	
	條件設定		輸入導線測量條件限制	
	平差			導線平差
	儀器設定		輸入高度單位,顯示時間單位等	
紀錄設定		輸入記錄格式		
測量	單點測量		單點測量	
	導線測量		導線測量	
	中視測量		檢查點輸入	
	放樣		放樣	
	連續測量		連續測量	
計算	導線平差		導線平差計算	

### 三 面板說明:



Figure 3.2 Control and display unit of DiNi®

Key


or





電源開關

測量鍵

方向導航鍵

輸入鍵

離開



文數字切換鍵



顯示 TRIMBLE 功能目錄鍵



刪除鍵



符號及文數字輸入



顯示

Line levelling 123  
SNo:002  
Zi: 102.46377m  
Rb: 2.56210m  
HD: 25.980m  
Incr. PNo.:  
Code:  
71  
Info Rpt. →

導線名稱,輸入模式及電源狀態

Line levelling 123  
SNo:002  
Zi: 102.46377m  
Rb: 2.56210m  
HD: 25.980m  
Incr. PNo.:  
Code:  
71  
Info Rpt. →

顯示前後視測量狀態

Line levelling 123  
SNo:002  
Zi: 102.46377m  
Rb: 2.56210m  
HD: 25.980m  
Incr. PNo.:  
Code:  
71  
Info Rpt. →

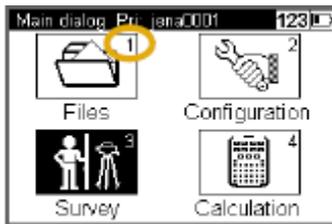
最後測量結果

Line levelling 123  
SNo:002  
Zi: 102.46377m  
Rb: 2.56210m  
HD: 25.980m  
Incr. PNo.:  
Code:  
71  
Info Rpt. →

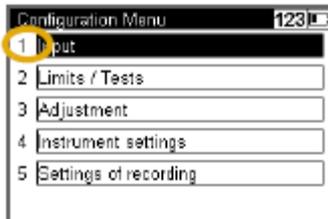
輸入狀態及連接下個測量

## 四 開始測量:

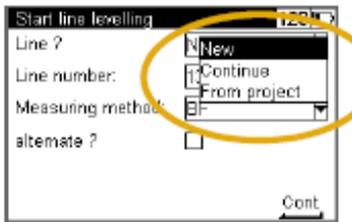
開啓新檔



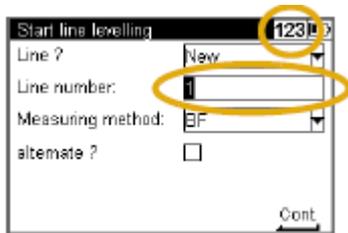
輸入



開啓新導線或連續導線或從任務中選擇



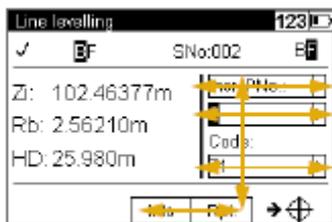
開啓一個新導線輸入導線名稱



選擇測量方式



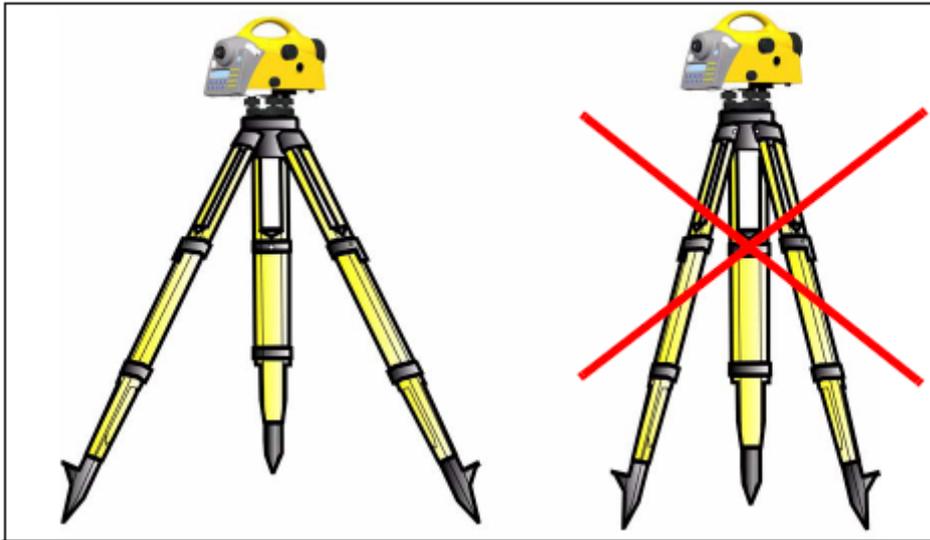
開始測量,顯示測量結果狀態如下



測量結束顯示結果如下,移動導航見到 Lend 即可結束導線測量

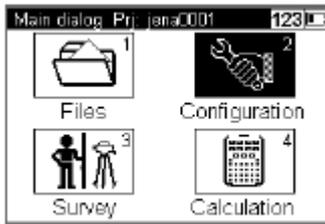


## 五 儀器架設方式:

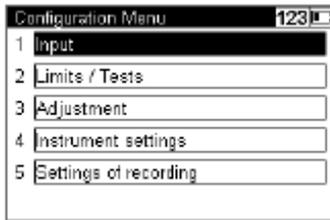


儀器腳架設置方式 -左邊為正確方式,右邊方式為不正確容易傾倒

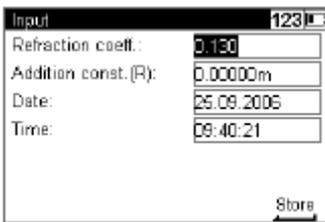
## 六 配置:



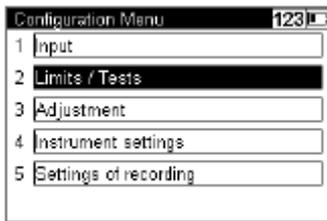
### 1. 輸入



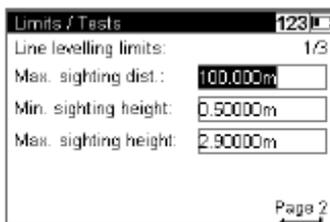
輸入大氣差,加入常數,日期及時間



### 2. 條件設定



輸入觀測距離,最小觀測高度,最大觀測高度

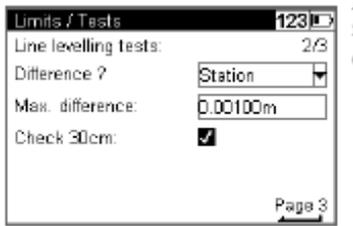


觀測方式-選擇 Measurement 觀測方式為 B1 - B2 AND F1 - F2

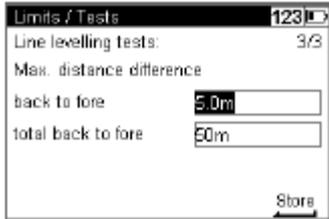
選擇 Station 觀測方式為 B1-F1 AND B2-F2



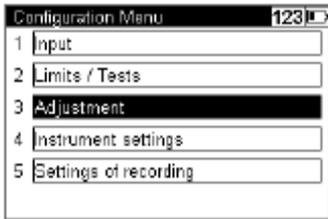
最大差值 0-0.01m



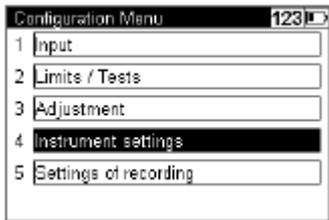
前後視最大距離差及前後視最大總距離差



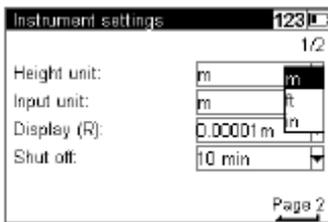
### 3.平差



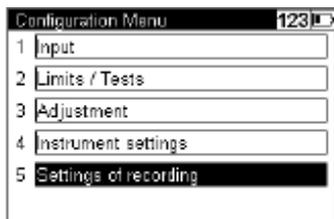
### 4.儀器設定:



高度單位,輸入單位,顯示最小單位,自動關機時間



### 5.設定記錄方式



選擇紀錄(須打勾),記錄格式(RM-紀錄觀測值 RMC-紀錄觀測值及計算值),紀錄是否加入時間或溫度

Settings of recording 123 1/3

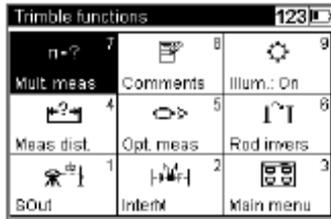
Recording:

Recording data: RMC

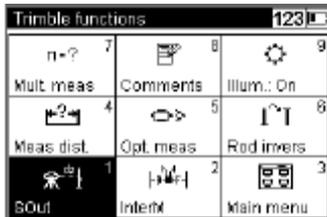
Rec. additional data: Time

Page 2

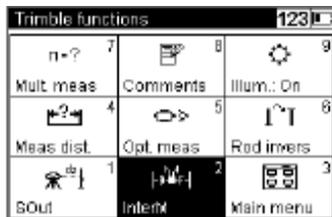
## 七 TRIMBLE 功能目錄



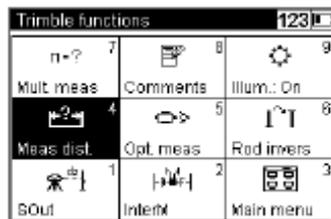
導線測量過程中需要放樣時



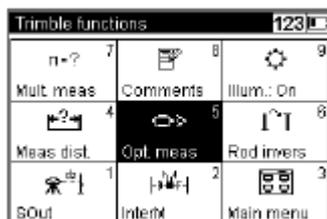
導線測量過程中需要單點測量時(不含參考高程)



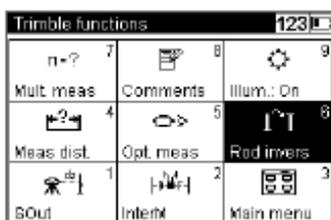
導線測量過程中需要測量尺與儀器間的距離時



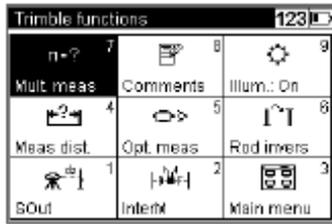
使用光學讀數測量時



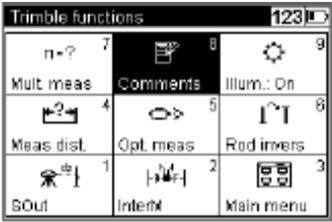
倒尺觀測-



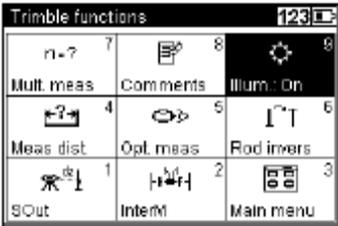
重複觀測次數及標準差值設定



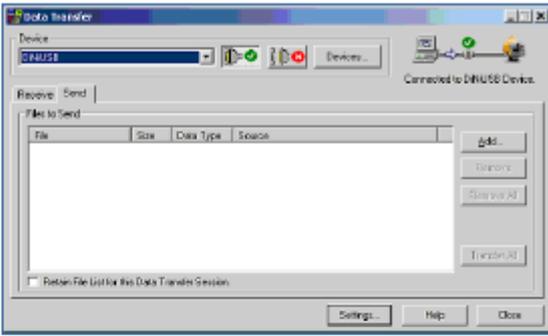
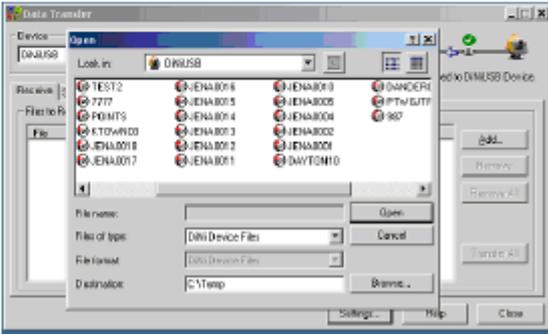
輸入註記-可於測量過程中輸入



照明-可開啓面板燈光及圓氣泡燈光



## 八 資料傳輸

Actions	Screen	Comments
<ul style="list-style-type: none"><li>Connect PC via cable PN 73840019 to the Trimble DiNi.</li><li>Start Trimble Data transfer at the PC</li><li>3. Use Device "DiNiUSB"</li></ul>		
<ul style="list-style-type: none"><li>Use the "Receive" tab</li><li>Select the files for transferring to PC</li><li>Define the folder at the PC and start the data transfer.</li></ul>		

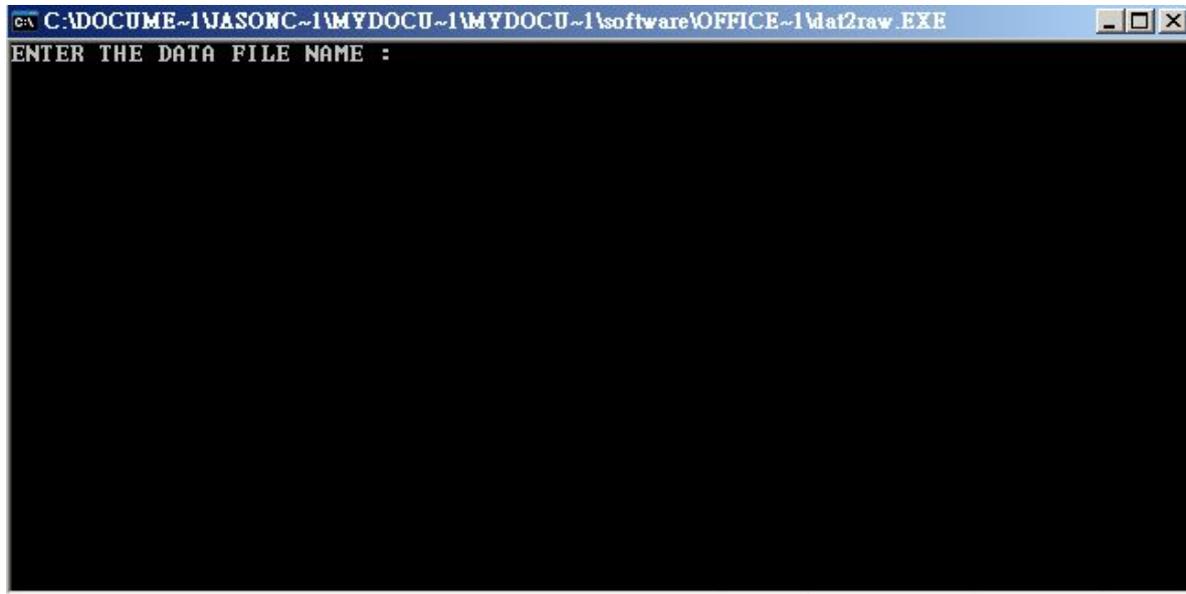
- 1.使用傳輸線連接 PC 及 DINI
  - 2.開啓 PC 端 DATA TRANSFER
  - 3.選擇 Device DiNiUSB
  - 4.使用 Receiver 接收
  5. 選擇要傳輸的檔案到 PC
  6. 選擇 PC 存放路徑
  - 7.按下 Transfer all
- 完成

資料下載後格式爲 xx.dat 檔

## 九 資料轉檔

將要轉換的資料及 dat2raw 程式放入同一個資料夾

1.執行程式 dat2raw(dos 版)



2.輸入檔名(需輸入副檔名)

3.按下 enter 即轉換完成

4.使用 notepad 開啓檔案

