

Ver1.0

SOLAR INTEGRATED LED LIGHT

SOLAR-X-3NM INFRARED CONTROLLER

USER GUIDE



1. PACKING CONTENTS

Infrared packaging consists of:

- Infrared data controller
- **2** PC infrared receiver
- DC80 data collection server software (with encryption)
- **④** DC80 software security key (USB dongle)
- **G** Mini USB cable



2. INFRARED DATA CONTROLLER FUNCTIONS



Buttons	Functions	
Power 🕲	Press to power on / off device	
Menu 🗐	Press to enter main menu	
Send 🛞	Press to transmit selected command	
Back (5)	Press to access previous screen	
Enter 🞯	Press to access selected menu option	
Arrow Keys $\triangleleft^{\vartriangle}_{\bigtriangledown}$	Press to navigate menu and value control	

3. GETTING STARTED

3.1 Basic Operation

Point infrared data controller direct to the lighting IR port for data transmission operation. "Send" is data transmit command, aim to the lighting IR port when pressing the "Send" button. Access to menu options by pressing "Direction Arrow Keys" and "OK" button accordingly, press "Back" button to access previous screen, press "Menu" to enter main menu. "Power" button to switch ON/OFF controller, controller will be automatic powered OFF if left idle for 5 minutes.

->1.Collection 2.Settings 3.Data MGT 4.Calendar 2000-01-01 00:11 Demand Wait... V: 0 FC: 0 LAT: NaN NaN

3.2 Light Operating Data Collection

Enter 1. "<u>Collection</u>" menu > 1.1 "<u>Demand</u>" menu and press the "Send" button, display will show "<u>OK!</u>" to indicate data collection successful, else display will show "<u>Wait</u>" to indicate data collection fail. At this time, adjust the remote controller to aim to the lighting IR port and press the "Send" button again until the display show "<u>OK!</u>" to indicate data collection successful. After data collection succeeded, display will show battery voltage (in mV), current (display "0" if the lighting does not equipped with current sensor), flash code, lighting status, latitude, longitude (shown in 1/10000, "Nan" if no GPS).

3.3 Light Testing Mode



Testing mode is normally used during routine inspection, enter 1.2 "<u>Test</u>" menu and press the "Send" button, the display will then show "<u>OK</u>" to indicate the testing mode was executed successfully. In the testing mode, the lighting will light up and flash according to the flash code for 5 minutes, after that the lighting will shut down automatically and back to normal operation.

3.4 Lighting ID Retrieval



Every lighting is carrying a unique ID code to differentiate different lightings. Enter 1.3 " \underline{ID} " menu and then press the "Send" button, the display will then show a string of 15 digits number, this meaning the ID retrieval is successful.

3.5 Configuration Setting and Editing



Enter 2.1"<u>Flash codes</u>" menu, move the cursor to "<u>Read</u>" and then press the "Send" button, the display will then show "<u>OK</u>" to indicate configuration reading successful. The display will show the lighting flash code, lux value and light intensity parameters. Move the cursor and press the left or right button to change the parameter setting accordingly, move the cursor to "<u>Write</u>" and press the "Send" button, the display will then show "<u>OK</u>" to indicate configuration setting successfully. After this the display will show the new parameter setting information.

3.6 Data Export



Enter 3. "<u>Data MGT</u>" menu > 3.1 "<u>Send</u>" menu, the display screen will show the controller used and total capacity, capacity is shown in number of data. Aim the infrared data collector to the PC IR adapter TX/RX port, open PC terminal DC80 data collection software and press the "<u>Start</u>" button in DC80 waiting for data transfer. Press the "Send" button at data collector, the display screen will then show ">>>>"to indicate data is uploading. Once the screen shows "<u>Finish</u>", press the "<u>Export excel</u>" button in DC80 to export the data.

*Note: Make sure to complete step 4 <u>**BEFORE</u>** proceed with data export. *Note: Ensure DC80 software security key (USB dongle) are inserted to PC. *Select other com port if the default com port fail to work.</u>

3.7 Data Deletion



Enter 3.2 "<u>Erase</u>" menu, press the "<u>OK</u>" button, the screen will pop up a warning message, press the "<u>OK</u>" button again then the data will be deleted successfully.

4. DC80 DATA COLLECTION SERVER

4.1 PC Infrared Receiver

PC infrared receiver windows driver to be installed before operation of DC80 data collection server. Connect infrared receiver to PC via mini USB cable and follow the below steps;

1) Copy and uncompressed all the files from CD shown below to a new folder on de
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名称	修改日期	类型	大小
鷆 amd64	2013/5/21 星期	文件夹	
鷆 i386	2013/5/21 星期	文件夹	
🖷 CDM 2 06 00 Release Info.rtf	2009/10/27 星期	Rich Text Format	102 KB
📄 ftd2xx.h	2008/10/29 星期	H 文件	23 KB
ftdibus.cat	2009/11/3 星期	安全目录	12 KB
🗊 ftdibus.inf	2009/10/22 星期	安装信息	5 KB
ftdiport.cat	2009/11/3 星期	安全目录	11 KB
ftdiport.inf	2009/10/22 星期	安装信息	6 KB
🔁 LogoVerificationReport.pdf	2009/11/3 星期	Adobe Acrobat	42 KB

2) Right click on my computer>properties>device manager>double click on FT232R USB UART.



3) Click on <u>Update Driver</u>.

3规 马	区动程序 详细	細信息	
1	FT232R VSB V	ART	
	设备类型:	其他设备	
	制造商:	未知	
	位置:	Port_#0002. Hub_#0003	
没有为	100 田 旧 志 未 3	A/ 634 (214-98-0011) / -	
没有为 若要查	100日日志 <u>来</u> 9 [找此设备的雅	网动程序,请单击"更新驱动程序"。	
没有为 若要查	100日后志来9 2找此设备的98	Z动程序,请单击"更新驱动程序"。	+
没有为 若要查	我此设备的驱	23动程序,请单击"更新驱动程序"。 更新驱动程序(0).	•
没有为 若要查	现面信息来9	23动程序,请单击"更新驱动程序"。 更新驱动程序(0).	•••
没有为 若要查	抵此设备的驱	23动程序,请单击"更新驱动程序"。 更新驱动程序(0).	••

4) Click on <u>Browse my computer for driver software.</u>

認想如何搜索驱动程序	软件?		
→ 自动搜索更新的驱 Windows 将在您的计算 件,除非在设备安装设备	动程序软件(S) 机和 Internet 上查找用于标 种禁用该功能。	目关设备的最新驱动程序软	
→ 浏览计算机以查找 手动查找并实装驱动程序	驱动程序软件(R)		

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- 24			
	取	取消	取消

5) Click on <u>Browse.</u>

④ 更新驱动程序软件 - FT232R USB UART	X
浏览计算机上的驱动程序文件	
在以下位置搜索驱动程序软件: C:\Users\Administrator\Documents	
☑ 包括子文件夹(I)	
→ 从计算机的设备驱动程序列表中选择(L) 此列表将显示与该设备兼容的已安装的驱动程序软件,以及与该设备处于同一类别下的 所有驱动程序软件。	
下—涉(N)	取消

6) Go to the new folder created in step 1 and click on i386.

4	红外适配器	驱动
	鷆 amd64	
	鷆 i386	

- 7) Follow the on screen instruction and click next till installation are completed.
- 8) Right click on my computer>properties>device manager>double click on USB Serial Port.



9) Repeat steps 3 - 7.

4.2 DC80 Data Collection Server Software

Proceed only after complete installation of 4.1.

- 1) Double click on CD drive in My Computer.
- 2) Double click on DC80 Data Collection Server Setup.exe.



3) Click on next.



4) Click on next.

🗿 Setup - DC80 Data Collection Se	rver		
Select Destination Location Where should DC80 Data Collection Serve	er be installed?		
Setup will install DC30 Data Collec	tion Server into th	ne following fol	der.
To continue, cick Next. If you would like	to select a differe	nt rober, click	Browse.
C:\Program Files\DC80 Data Collection Se	irver		Browse
At least 184.5 MB of free disk space is re	quired.		
		14	
	< <u>E</u> ack	<u>N</u> ext >	Cance

5) Click on next.

🗊 Setup - DC80 Data Collection Serv	yez 🔳 🖬 🚺
Select Start Menu Folder Where should Setup place the program's sh	hortcuts?
Setup will create the program's sho	ortcuts in the following Start Menu folder.
DC80 Data Collection Server	Browse
Don't create a Start Menu folder	
	< Eack Next > Cance

6) Click on next.

📑 Setup - DC80 Data Collection Server
Select Additional Tasks Which additional tasks should be performed?
Select the additional tasks you would like Setup to perform while installing DC80 Data Colection Server, then click Next.
Additional icons:
Create a desktop icon
Create a Quick Launch icon
< <u>E</u> ack <u>Next</u> > Cance

7) Click Install.

sady to Install Setup is now ready to begin installing	g DC80 Data Colection Server on your
computer.	
Click Install to continue with the inst change any settings.	callation, or click Back if you want to review or
Destination location:	lection Server
C. (Frogram Files (DCOO Data Co	ilection Server
DC80 Data Collection Server	
Additional tasks:	
Additional icons: Create a desktop icon	
2	~

8) Click Finish.

