

User Manual of Z10 Internal Data Collector

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1. Unpacking

If your inverter has installed the Wi-Fi card, please go directly to 6. Register on monitoring website.

After unpacking the bag, please check the parts according to the list below. Contact the sales agent immediately, should you find any damaged, or missing components or it is the wrong model.



Picture1-	1
-----------	---

No.	Name	Quantity
А	Plastic sealed	1
	bag	
В	Wi-Fi antenna	1
С	Ribbon cable	1
D	PV data collector	1
Е	Terminal set	1
F	Bar code	2
G	Screw	2

2. PV Data Collector



Picture 2-1

No.	Name
А	10 pin connector
В	Reset Button
С	I-PEX Interface

3. S/N Label



Picture 3-1

4. Wi-Fi Card Installation

Warning: Before installing the Wi-Fi module, you must disconnect both the AC and DC side of the inverter to ensure personal safety.



Picture 4-1

Unscrew the four screws on the interface panel with the screwdriver as shown in **Picture 4-1** and keep the screws aside.





Insert the Wi-Fi antenna through the gland and screw the hex nut with a torque of 2.0N.m as **Picture 4-2**.



Picture 4-3

Plug the PV antenna connector into the socket circled in **Picture 4-3**.





Fix the PV data collector to the case with two screws as in **Picture 4-4**.





Turn on the switch on the communication board inside of the inverter to the upside as **Picture 4-5**.



Picture 4-6

Connect the PV data collector to the communication board with the communication bus cable as **Picture 4-6**.



Picture 4-7

Tighten the water-proofing case securely to the inverter with 4 screws as in **Picture 4-7** thus completing the installation. Antenna will now be correctly mounted and can be turned 360 degrees.

5. Wi-Fi Card Information

After installation of the Wi-Fi Module, reconnect the AC side of the inverter to display the Wi-Fi information.



Picture5-1

Click the **"ENTER"** button on the display panel until the screen shows Wi-Fi information. The display includes the S/N: xxxxx and the IP address as in **Picture 5-1**.

The IP address consists of three values:

Picture 5-2: 0.0.0.0 (router SSID & password is not found by Wi-Fi card if you have not set to connect to your router, factory value)

Picture 5-3: 10.10.100.254 (restore default value)

Picture 5-4: 192.168.40.20 (after the setting is completed)



Picture5-2

WiFi Info

SN:606648068 IP:10.10.100.254

Picture 5-3

WiFi Info SN:606648068 IP:192.168.40.20

Picture 5-4

6. Register on Monitoring Website

Zeus Appollo Solar PV monitoring system is supported by: IE8, Firefox, Chrome, and Safari. Login to the website <u>www.monitoring.zeusappollosolar.com.au</u>, click register to enter the user registration page, follow the requirements for registration; please fill in the information for registration. After successful registration, enter the mailbox and activate the account, then the registration is complete.

6.1 Register New Account

	Sign In
	Email:
	Password:
H	Remember me
	Click and enter the register Sign In Register
	Public Sites Demo Acco



6.2 Fill in User's Information

Create a New Account			
	Email:	*	Please input a valid Email address, used for login and password retrieving
	Confirm Email:	*	Please re-input a valid Email address
	Account Type:	End User	Choose End User
	Password:	*	6-16 characters, case sensitive
	Confirm Password:	*	6-16 characters, case sensitive
		I accept <u>Terms of Service</u>	
	[Next Cancel	
		click and enter the configure interface	



Note: please read the Zeus Appollo **Solar Warranty Terms and Conditions** carefully, the enclosure is the cost list for all countries; please choose your operator. **End User** means the final user.

"*" means the compulsory information which must be filled in.

"End User" Account

Site Name		*Maximum 20 Letters
Upload Image	Default.jpg	Click and Choose the Picture
	ALT THE	
_		
	OK Click "OF	K" to Save pic
Country	Afghanistan	*
Province/State	Anhui	*
City	SUZHOU	*
Street		Locate Your Site On Map
ZIP Code]
Timezone	(GMT +08:00) Beijing,Chongqin]
Number Format	1234567.89	Choose your Country Format
Temperature Unit	°F	
System Size(kWp)		*

Temperature Unit	T	
System Size(KWp)	Exchan	ge Unit "
Feed-in Tariff(FIT)	AUD	AUS 💌 -
Panel Type	35	
Inverter Type	ZEUS APPOLLO	
Description		
choose it to sh	are your plant	
	👿 Make This Site Public	
Registration	Fill in WiFi Card see picture 4-1	S/N Code,
Datalogger S/N		-0
Installer		
Contact		
Contact Name		

Picture 6-3

After the registration, you may go to the next chapter **7. Network Settings** (In AP mode by Wi-Fi)

7. Network Settings

Make sure the AC side of inverter is connected to the grid and the display maintained .



Picture 7-1

- 1) Prepare a computer or other device, e.g. a tablet a PC or a smart phone with a Wi-Fi function.
- 2) Obtain an IP address automatically:
- > Open Wireless Network Connection Properties, double click "Internet Protocol Version 4 (TCP/IPv4)".
- > Select "Obtain an IP address automatically", and click "OK".

无线网络连接 2 Properties X X	Internet Protocol Version 4 (TCP/IPv4) Properties
Networking Sharing	General Alternate Configuration
Connect using:	You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.
Configure This connection uses the following items:	Obtain an IP address automatically O Use the following IP address:
 ✓ ■ VMware Bridge Protocol ✓ ■ QoS Packet Scheduler 	IP address:
✓	Subnet mask: Default gateway:
	Obtain DNS server address automatically
Install Uninstall Properties	Use the following DNS server addresses: Preferred DNS server:
Description	Alternate DNS server:
Transmission Control Protocol/Internet Protocol. The default wide area network protocol that provides communication across diverse interconnected networks.	Validate settings upon exit Advanced
OK Cancel	OK Cancel

Picture 7-2

3) Open the wireless network connection and click "**View Wireless Networks**": Select the wireless network of the data logging module, no passwords are required as

default. The network name consists of the **AP** and the **serial number** of the product. Then click **"Connect"**.

No net	work access	^
Wireless	Network	^
allen	Connected	1
tplinkserver	-	d []
jerry's	-1	1
dlink	3	1
AP_601184936	2	1
CMCC][;	L dl.
Open Ne	twork and Sharing Center	

Picture 7-3



Picture 7-4 Connection successful

Note : If **AP_ (the serial number of the product)** is not available in the wireless network list, there may be problems in the connection or setting up of the data logging module. Please check if the Wi-Fi has installed correctly, and the inverter has been powered on.

Before troubleshooting, please ask your inverter installer whether you are allowed to remove the cover of the inverter to trouble shoot the module. If not permitted please contact customer service.

4) Set the parameters of the Wi-Fi module:

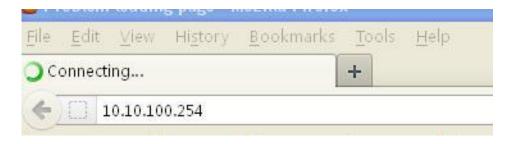
(a) Open a web browser, and enter 10.10.100.254 (the default IP address of the Wi-Fi card, you may set the domain name access as in **picture 7-5**), then fill in the username: **admin** and password: **admin**, both of which are admin as default.

Recommended browsers: Internet Explorer 8+, Google Chrome 15+, Firefox 10+

Note:

- If the IP address shows 0.0.0.0 (factory value) on your LCD (Picture5-2), this is not a correct address. There are 2 circumstances where 0.0.0.0 is displayed:
- Router not connected correctly, you need to reset to connect your router to ensure its functionality You can reset the data collector by pressing the reset button for about 5s or reset it in the wizard interface.
- The inverter card installation is not functioning, please check your inverter according to chapter **4**. Wi-Fi Card Installation.
- ② The default username & password is :admin, admin, we recommend changing the user name & password:

Step: choose Account; input your username & password.



2	A username and password are being requested by http://10.10.100.254. The site says: "GoAhead"	
User Name:		
Password:		

Picture 7-5

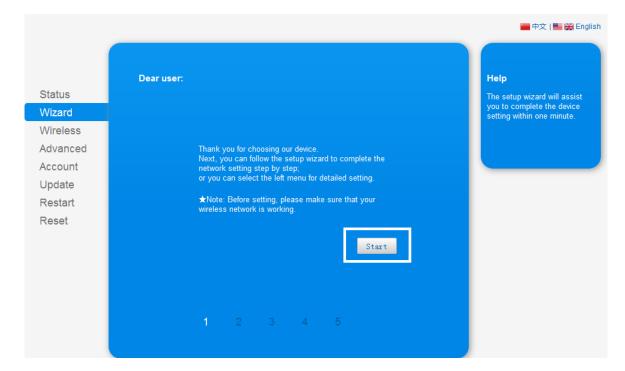
(b) In the configuration interface of the Wi-Fi module, you can view general information about the module.

Follow the setup wizard to start the quick setting.

Status	Inverter information Inverter serial number	NLDN5020137RT012	Help The device can be used as
Vizard	Firmware version (main)	@�0-V6.5-298	wireless access point (AP mode) to facilitate users to
Vireless	Firmware version (slave)	V3.2-767	configure the device, or it ca
dvanced	Inverter model	Z10I5KD	also be used as a wireless information terminal (STA
ccount	Rated power	5000 W	mode) to connect the remoti server via wireless router.
	Current power	0 W	
pdate	Yield today	100.7 KWh	
lestart	Total yield	100.7 KWh	
eset	Alarms		
	Last updated	0 Min Ago	
	✓ Device information ✓ Remote server information		



Click "Wizard" to start





Click"Start" to continue

		🔤 中文 🔜 🚟 English
	Please select your current wireless network:	Help
Status		This step will help to connect
Wizard		the device to your desired WLAN. If you do not find your
Wireless		wireless router on the left list, please refresh several times or
Advanced		add it manually.
Account		Please check your wireless router for the right encryption
Update		method and encryption algorithm.
Restart		
Reset		If your wireless router does not broadcast SSID, please set the desired wireless network in Wireless interface.
	Note: When RSSI of the selected WiFi network is lower than 15%, the connection may be unstable, please select other available network or shorten the distance between the device and router. Refresh	

Picture 7-8

Click "Refresh" to search available wireless networks, or add it manually.

Wizard	omnik-gk	00:87:36:12:67:62 29% 1		the device to your desired
	CMCC	b0:75:d5:80:61:f1 10% 1		WLAN. If you do not find your wireless router on the left list.
Wireless	O CMCC-AUTO	c2 75.d5 80.61.f1 15% 1		please refresh several times or
Advanced		b0.75.d5.80.5a.8b 70% 1		add it manually.
	CMCC-AUTO	c2:75:d5:80:5a:8b 70% 1 78:a1:06:b2:06:f8 0% 1	=	Please check your wireless
Account	ChinaNet	00:23:ea:00:52:20 44% 6		router for the right encryption
Jpdate	TP-LINK PocketAP 2B193	The second s		method and encryption
Restart	TP-Lee	ec:17:2f:c5:3f:ce 86% 6		algorithm.
	 ChinaNet 	00:21:a1:9c:11:c0_0%_6		If your wireless router does no
Reset	O ZEUS-1	20:dc:e6:b7:fe:18 100% 6		broadcast SSID, please set
	AP_604444195	ac:cf:23:11:c8:1c 60% 6		the desired wireless network in Wireless interface.
		I-2-75-45-80-60-80-86-56% IA sted WiFi network is lower than 15%, the con other available network or shorten the distance Refresh	ce -	
	★Note: When RSSI of the select may be unstable, please select between the device and router.	cted WiFi network is lower than 15%, the con other available network or shorten the distant Refresh	ce -	
	★Note: When RSSI of the select may be unstable, please select between the device and router. Add wireless network man	cted WiFi network is lower than 15%, the con other available network or shorten the distant Refresh	ce -	
	★Note: When RSSI of the select may be unstable, please select between the device and router.	cted WiFi network is lower than 15%, the con other available network or shorten the distant Refresh	ce -	
	Note: When RSSI of the select may be unstable, please select between the device and router. Add wireless network man Network name (SSID)	eted WiFi network is lower than 15%, the con other available network or shorten the distanc Refresh	ce -	
	★Note: When RSSI of the select may be unstable, please select between the device and router. Add wireless network man Network name (SSID) (Note: case sensitive)	cted WIF i network is lower than 15%, the con other available network or shorten the distant Refresh ually: ZEUS-1	ce -	
	★Note: When RSSI of the select may be unstable, please select between the device and router. Add wireless network man Network name (SSID) (Note: case sensitive) Encryption method	eted WFI network is lower than 15%, the con other available network or shorten the distant Refresh Ually: ZEUS-1 VPA2PSX V AES V	ce -	
	★Note: When RSSI of the select may be unstable, please select between the device and router. Add wireless network man Network name (SSID) (Note: case sensitive) Encryption method	eted WiFi network is lower than 15%, the con other available network or shorten the distance Refresh ually: ZEUS-1 VPA2PSK -	ce -	



Select the wireless network you need to connect, and then click "Next".

Notice:

 If the signal strength (RSSI) of the selected network is <10%, this indicates an unstable connection, please adjust the antenna on the router, or use a repeater to enhance the signal.
 Recommended router setting:

- Security setting:WPA2-personal
- Encryption type: AES



Picture 7-10

Enter the password for the selected network, and then click "Next".

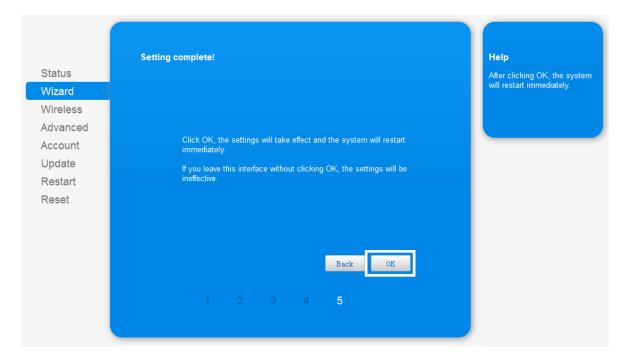
	Please fill in the following information:	Help
Status		Most systems support the function of DHCP to obtain IP
Wizard	Obtain an IP address Enable 🗸	address automatically. Please
Wireless	automatically	select disable and add it manually if your router does
Advanced	IP address 0. 0. 0. 0	not support such function.
Account	Subnet mask 0. 0. 0. 0	
Update	Gateway address 0. 0. 0. 0	
Restart	DNS server address	
Reset		
	Back	
	1 2 3 4 5	

Picture 7-11

Select "Enable" to obtain an IP address automatically, then click "Next".

Notice:

- $\ensuremath{\textcircled{D}}$ Turn off the firewall of the router.
- $\ensuremath{\oslash}$ Make sure the DHCP function of the router is enabled.



Picture 7-12

If the setting is complete, the above page will display. Click "**OK**" to restart.

		🧰 中文 🌉 🞇 English
	Setting complete! Please close this page manually!	Help
Status		★Note: The IP address of the device may have changed,
Wizard		please refer to User Manual to
Wireless		check the procedures to obtain the new IP address.
Advanced		
Account	Please login our management portal to monitor and manage your PV system.(Plseae register an account if you do not have one.)	
Update	To re-login the configuration interface, please make sure that your	
Restart	computer or smart phone and our device are in the same network segment, and enter the new IP address of the device to access	
Reset	the interface.	

Picture 7-13

If the setting up is complete, the above page will display after about 10s.

After your Wi-Fi card setup is complete and has accessed an IP address from your router for example: 192.168.40.20 (You may see the IP address from LED as **picture 5-4**).

Input: <u>http://192.168.40.20/</u> which will display the following page:

45020137RT012		 Inverter information Inverter serial number 	Status
the dewce can be used a wireless access point (AP		Firmware version (main)	Wizard
V3.2-767 mode) to facilitate users to configure the device, or it		Firmware version (slave)	Vireless
Z101580 also be used as a wireles information terminal (STA		Inverter model	dvanced
5000 VV mode) to connect the rem server via wireless router		Rated power	
0 W		Current power	ccount
100.7 3990		Yield today	pdate
199.7 XMH		Total yield	lestart
		Alarms	leset
0 Min Ago		Last updated	
11.0.05W1.0.04 Enalde AP_000640000	144.01	Firmware version Wireless AP mode SSID	
10 10.100 254		IP address	
Cr:23:13:30:20 Craste OM:#K-314 100% 192:160:40:21 Cf:23:13:30:21	ct router. STA will enable Get IP from router	Signal Quality IP address MAC address	
		IP address MAC address	

Picture 7-14

You may also add the domain name of the Wi-Fi card to simplify access according to the picture below, after your setting up is completed, input **http://Wi-Fi**, you may also access the related page:

	Wireless access point setting		Help
Status			In this page, you can
Wizard	Network mode	11b/g/n mixed mode 🚽	configure the parameters of the device when it works
Wireless	Network name(SSID)	AP_606648068	under the wireless access point mode.
Advanced	Module MAC address	AC:CF:23:13:3D:20	
Remote server	Select channel	Auto-select 👻	Please do not change the default settings, or the
Wireless point	Transmission power	High 🗸	parameters change will cause device malfunction.
Account		Save	★Note: After changing the
Jpdate			settings, the device must the restarted.
Restart	Wireless access point security setting		restaneo.
Reset			
	Encryption mode	Disable 🗸	
		Save	
	LAN parameters setting		
	IP address (DHCP gateway setting)	10. 10. 100. 254	
	Subnet mask	255. 255. 255. 0	
	DHCP Server	Enable 🗸	
	DHCP Server Domain name	Enable -	
		wifi vithin 1-30 characters, and	

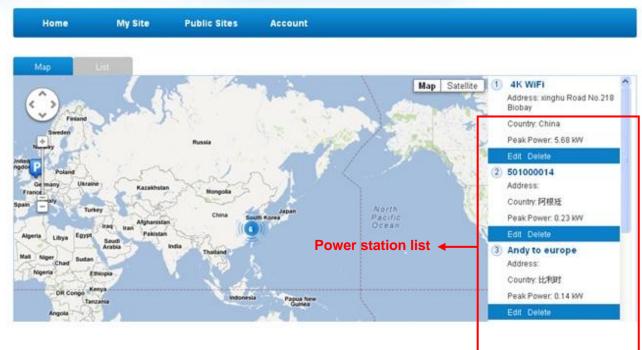
Picture 7-15 Now having finalized the network setting, you may login <u>www.monitoring.zeusappollosolar.com.au</u> to browse your data.

8. Login Monitoring System

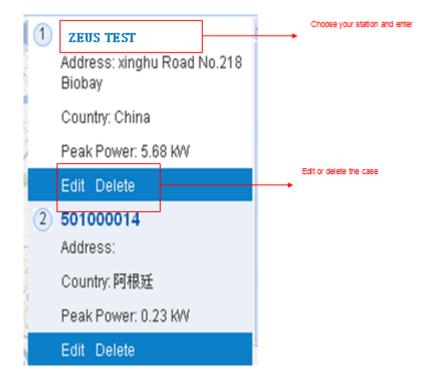
After the successful registration and account activation, open the login interface as below **picture 8-1**, input the correct email and password, and enter the PV monitoring system, then you can monitor and manage the power station.



"End User" User Interface

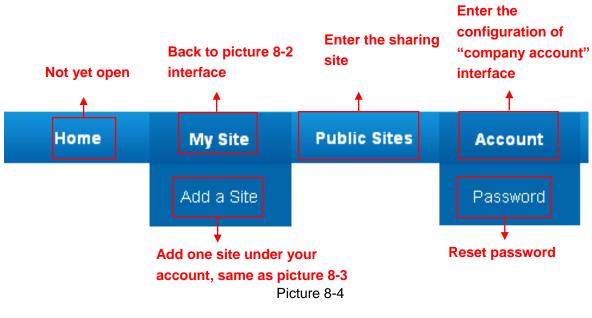


Picture 8-2









Navigation Bar



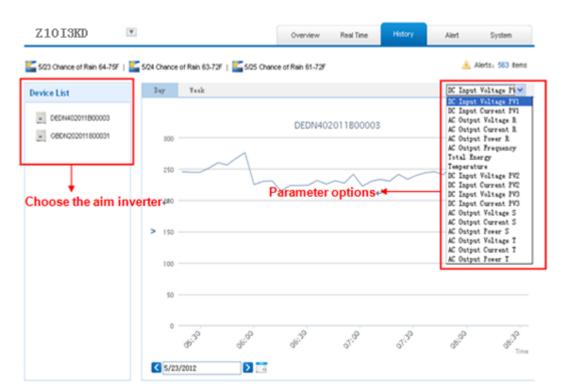
Picture 8-5

Main interface of Power Station

2	1013KD	٧					Oveniew	Real 1	ime Histor	y Ak	nt S	ystem
<u> </u>	5/23 Chance of Rain 6	4-75F 🟅	5/24 Chanc	e of Rain 63-72	2F 💟	5/25 Chance	of Rain 61-72F				🚖 Aletsi	563 items
1	DC									Inter	nal tem	peratur
No.	Inverter S/N		DC Input				AC Out;	put		Total Energy	Temp-	Time
NO.	anverter 5/14	Channel	Voltage(V)	Current(A)	Phase	Voltage(V)	Current(A)	Power(W)	Frequency(Hz)	(Hz) (kWh)	erature(°C	Tane
		PV1	255.5	2.2	R	231.8	2.2	529				7
1	DEDNH02011800003	PV2	0.0	0.0	s	0.0	0.0	0	50.04	1298.6	23.0	08:32:56
		PV3	0	0	т	0.0	0.0	0			1	08:32:50
		PV1	247.4	0.3	R	231.0	0.3	0	Late	st data o	ollecti	-
2	G80N202011800031	PV2	0.0	0.0	s	0.0	0.0	0	50.05	442	30.0	2012-04-16
		PV3	0	0	т	0.0	0.0	0				17:34:48

Picture 8-6

Real Time Interface



Picture 8-7 History Interface

Z10I3KD	¥		Overview	Real Time	History Aint	System
5/23 Chance of Rain 64-75	F 🗲 5/24 Chance of Rain 63-72F ew All 💌 🚺 🚺 Page 1	-	Rain 61-72F		4	Alerts, 563 ber
Inverter	Inverter Manufacturer	Information	Code	Alert Time	Status	View History
DEDN/202011800912	Default	Ubliky Loss	F09	3/8/2012 16:10:	38 Unhandled	History
GBDN202011800031	Default	Utility Loss	F09	2/11/2012 11:9	3 Unhandled	History
G8DN/202011800031	Default	Ublity Loss	F09	2/13/2012 12:56	36 Unhandled	History
DEDN/202011800912	Default	Utility Loss	F09	3/8/2012 16:11:	38 Unhandled	History
GBDN202011800031	Default	Utiky Clic	k.turn	to picture 8	.7+J Unhandled	History
GBDN202011800031	Default	Utility			Unhandled	History
GEON202011800031	Default	Ublity Loss	F09	2/11/2012 11:19	10 Unhandled	History
G8DN/202011800031	Default	Ublity Loss	F09	2/13/2012 13:6:	38 Unhandled	History
GEDN202011800031	Default	Ubliky Loss	F09	2/11/2012 11:24:	14 Unhandled	History
GEDN202011800031	Default	Utility Loss	F09	2/13/2012 13:11:	42 Unhandled	History

Picture 8-8

Alert Interface

5/23 Chance of Rain 64-75F 5/2	4 Chance of Rain 63-72	F Kassing Size Chance	of Rain 61-72F		Alerts) 563 dem
e interface same a	Site Name	ZIOISKD WFI			
picture 8-3₽	Upload Image	Default jyg			
		and the second	22		

Picture 8-9

System Setting Interface

Z10	ISKD 💌	Ove	rview Real Time	History Alert System
3 Chanc	ze of Rain 64-75F Sr24 Chanc	ve of Rain 63-72F 🎽 5/25 Chance of Rain	61-72F	🚖 Alerts; 563 i
	Datalogger S/N	Datalogger Name	Manufacturer	Operate
1 601230010			Unfound	Delete Edit
2	300000012	四关1	Unfound	Delete Edit
		Add		
	Add			
Datalogger S/N				
		ОК		

Picture 8-10

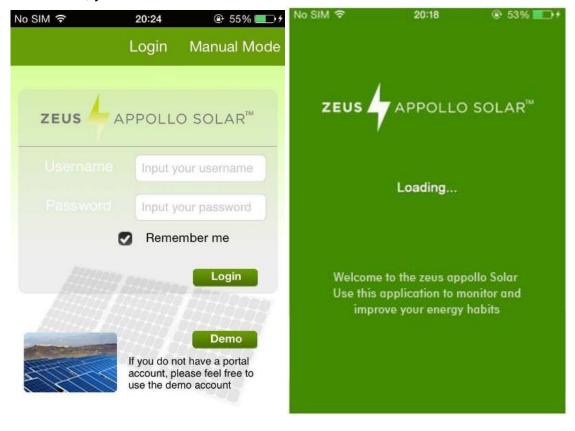
System Setting Interface

9. Smart Phone & iPad Application

9.1 Auto Mode

After registration of the power station, you can input the key words: solar, inverter, PV, energy, plant, or monitor at the app store, then you can download the Zeus Appollo Solar (smart phone) and Zeus Appollo Solar HD (iPad) at app store.

After downloading the app and inputting your user name and password, then you may visit your station (we supply a free demo for the visitor who has not registered), choose the power station and enter the main interface, and then the daily energy output etc. will be displayed.



Meanwhile, you can select the relevant date to view the curve as below:

No SIM 🗢	20:28	🕑 57% 💷 t	No SIM 🗢	20:28	④ 57% ● +
〈 Back	Detai	ls Logout	Plant List	TEST	Logout
			Today's I	ncome:	¥
£ ,	TEST Power: 0W	Income: 1784¥	+		0
	EToday: 0kWh	ETotal: 1784kWh	21111	12 E-Today	: 0.00kWh
			0.000 (kW)		1784kWh
Commi	ssioning: 2014	4-08-08	Powe		17048001
Capacit	ty: 3.37kW		Total Inco	ome:	¥
Last Re	eceived: 2015-	03-12 09:36	+	1	7 8 4
Inverters	5		Deta	ails	>
NLBN2	020146TY922		Sav	ina	>
Home		Map Contacts	👚 Ł		Map Contacts



- 1. Log in interface
- 2. Power station list interface
- 3. Main interface
- 4. Daytime curve interface

9.2 Manual Mode

1) Steps for monitoring without Internet connection (Manual Mode)

There are two methods to monitor the inverter via Wi-Fi without the internet connection.

> Device connected directly to the Inverter Wi-Fi.

Search the Wi-Fi list on your smart device and connect to the relevant Inverter Wi-Fi data logger beginning with AP_6xxxxxx (as shown in the example below).

Open "**Z10 View**" on your device (which you should have downloaded from the APP store), and choose "**Manual Mode**". You are now able to monitor the inverter and the power being generated through it.

This example shows device connection to an inverter with 601184936 Wi-Fi:

Both the Inverter Wi-Fi and monitoring device (Smart Devices using IOS) connected to the LAN (not Internet) via the wireless router. Please follow the

instructions from 7. Network Settings (In AP mode by Wi-Fi).

After completing the above procedures, launch the "**Z10 View**" on your device and click "**manual mode**". You are now able to monitor the inverter and the power being generated through it.



Picture 9-2

- 2) Features
- a. Monitoring Wi-Fi device without internet connection.
- b. Display all the relevant data from the inverter.
- c. Local access is much faster, and does not rely on external networking.
- d. Same functions as online monitoring system.



Picture 9-3

- 1.Choose interface
- 2.Connect Wi-Fi card completely
- 3.Setting page
- 4. Inverter information

10. Contact

If you have any technical problems about our products, please contact us. You need to confirm the following information before contacting us:

- Device model
- Data collector serial number
- The number of connected inverter

Beijing Hua Xin Liu He Investment (Australia) Pty Ltd. Website: www.zeusappollo.com Perth Office 1/87 President Street, Welshpool, WA 6106 Phone: (08) 6555 6518 Fax: (08) 9470 4103 Email: sales@zeusappollosolar.com.au

Brisbane Office 32 Crockford Street, Banyo, QLD 4014 Phone: (07) 3123 6148 Fax: (07) 3266 4758 Email: <u>bris@zeusappollosolar.com.au</u>

Appendix.

1. LED Indicators



Picture A1

2. Troubleshooting

LED Name	Status	Description
RUN	On/Blinking	Module is working
	Off	Module is not working
LINK	On	Module is successfully connected to the server by Wi-Fi under STA mode
	Blinking	The Wi-Fi module is in AP mode
	Off	In STA mode; No Wi-Fi connection or no connection to the server
STATUS	On	Communication with the inverter is working
	Blinking	Communicating with the inverter (transferring data)
	Off	Communication with the inverter is not working

Status	Possible Causes	Solution

RUN	LINK	STATUS		
On/Blinking	On	On	Connection is successful	No need
On/Blinking	On	Blinking	Communicating with the inverter	No need
Off	Off	Off	No power connection	Check if the connecting fingers are contacting properly Check if the inverter is working properly
On/Blinking	Off	Off	Inverter connection is abnormal	Check if the inverter is working properly
			Resetting or initializing	Check the LEDs again after 1 minutes
			Wi-Fi connection is not successful	Change the position of the inverter or the antenna to get better signal reception
			Antenna is not properly connected	Check if antenna is connected properly. Screw tight if loose
On/Blinking	On	Off	Communication with the inverter is abnormal	Check if the connecting fingers are contacting properly
On/Blinking	On	x	Connection of the data collector is abnormal	Check the setting of AP wireless router
				Check the Wi-Fi settings

Note 1 : X means status unknown.

Note 2 : If the device is still not working after above operations in the table, please try resetting the device. If it is still not working after the reset, please contact customer service of the manufacturer.