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# CHAPTER1 INTRODUCTION

UPSmart is a smart UPS monitoring and controlling software applied to RS-232 and USB port, which can implementation of single-phase and three-phase UPS real-time data monitoring, at the same time can be running on linux operating system and windows operating system . When the Mains is normal, UPSmart displays the status of UPS (e.g. input & output voltage, frequency, load, temperature and battery capacity etc.) in digital, graphic and Real-time data curve, which help the user monitor the quality of power supply:When the Mains break off or UPS battery low, UPSmart will perform its monitoring function without people around. It will automatically save records, shut down systems in security. And in addition it add more possible means to automatically send the alarm message, including email sending etc., which make the user no need to worry about any systems or file lost during the Mains off.

## 1.1 Function

- Real-time data monitoring of single-phase and three-phase UPS
- · English and Chinese language switching
- Auto email events notification
- Auto SMS events notification
- · Auto sense Mains break off and UPS battery
- Setup auto on/off time
- · Support timing schedule or special schedule
- · Auto test equipment connection
- · Real-time display UPS status in digital, graph and data
- · Set up off countdown time and the interval of each warning
- Set up UPS self-testing time
- · Auto close program and files saved before system auto off
- Record and analyze the power state
- Support DB9 and USB connection

## CHAPTER2 SYSTEM REQUIREMENT

#### 2.1 Hardware requirement

- 1. Computer system: support RS 232 or USB communication interface
- 2. Connecting line: UPS dedicated RS232 9 pin serial port or USB cable, for customers to

use RS - 232 serial port connecting, connect one end of the female head on UPS system RS - 232 communication port, male head connect the computer serial port (if the USB to serial port line can be directly on the computer's USB port). If the system only 25 pin of the communication port, user can use 9 pin on the 25 pin connector to connect; For customer use USB connecting , with a dedicated USB data communication line to the computer connected to the UPS. Three kinds of connections line as shown in figure.



### 2.2 Operation system

- Microsoft Windows 95
- Microsoft Windows 98
- Microsoft Windows NT
- Microsoft Windows 2000
- Microsoft Windows 2003/2008/2012
- Microsoft Windows Me
- Microsoft Windows XP(32/64)
- Microsoft Windows Vista(32/64)
- Microsoft Windows 7(32/64)

- Microsoft Windows 8(32/64)
- Microsoft Windows 10
- Linux (32/64)

# CHAPTER3 INSTALLING \ START \ UNINSTALL

## 3.1 Installing UPSmart

- 1. Double click the setup-UPSmart.exe file to start up UPSmart installation procedure, The installation process is as follows.
- 2. Double click on installation program will display installation wizard



3. According to installation wizard to setup install folder, default folder: C:\Program Files \IDBK\UPSmart, of cause this folder can be modified to continue, click next.

and sources	
elect Destination Location	
Where should UPSmart be installed?	
5 Setup will install UPSmart into	to the following folder.
To continue, click Next. If you would I	like to select a different folder, click Browse.
Cliftogram Files(2008)(JPSnart	Browse
	required.
At least 22.2 MII of free dok space is	

4. During the installation process may setup choose to create a desktop icon and quick start default is checked.

Note: Recommendations do not modify the default such convenience found in desktop rapid run icon.

🚳 Setup - UPSmart	
Select Additional Tasks Which additional tasks should be performed?	
Select the additional tasks you would like Setup to perform while then click Next.	e installing UPSmart,
Preste a dedition inter	
Create a guick Launch icon	
Dit	Ment> Cancel

5. Setup completed, then click "Install" until install finish.

Setup - UPSmart	
Ready to Install Setup is now ready to begin installing UP	Smart on your computer.
Click Install to continue with the installate change any settings.	on, or click Back if you want to review or
User information:	1
Destination location: C:\Program Piles\(DBK)UPSmart	
Start Menu folder: IDBKIJUPSmart	
Additional tasks: Additional icons: Create a desktop icon	
( <u> </u>	3
	< Back Install Cano

6. Install finished, click "Finish" button start running software



7. Please note that the user should firstly enter using super administrator status. And install the software on Windows XP, NT 4.0/2000

and Server 2003 environment.

## 3.2 Start UPSmart

- 1. When install finished, the shortcut is created on desktop , as the same time install program is created on start menu bar of system .
- 2. Firstly install and running software, user may quick setup connect UPS to monitor software .
- 3. Firstly running software as follows figure.

leput Veltage	Bypass Setup Wicard		Output Willege
DD V nout Prequency CID He	The weard is used to configure ( communication and the number continue. To get a specific function or parage prease check the function above the	saramotors of the of cells, circle rapids notors in datar, notoral service.	Lost Lerdi 0.0%
Buttary Votage		sos gar-	00C
	Battery Discharge Tare 00.00:00	Shetdown OS Court 00:00:00	tösvitt

4. Quickly set up monitoring mode and the communication port, as follow figure

Choose Monitor mode: Single-phase serial connection as an example to introduce in this example so select "single phase UPS (COM)", As shown in figure can choose single phase UPS (COM), three-phase UPS (COM), single phase UPS (USB), three-phase UPS (USB), Mega (USB), a total of 5 models in monitor mode . "COM" means the cable is a serial port cable , "USB" means the cable is the USB cable. Software support our company most of the single-phase and three-phase UPS and ding jian's single phase UPS. If you choose USB to do not need to set the communication port USB connection software automatically connected by default .

**Choose communication port:** when choose "single-phase UPS(COM)", If the device and the computer is good at this moment ,can be detected in communication port automatically connect a serial port, as shown in figure choose COM3 port, click next after a connection is set.

No Ven	Settings Schedu	e Log File Close F	Te Contro Abou
Input Voltage	Bypits Screp Tilbard		Dutput Voltage
hpst Friquency 0.0 Hz	Communication protocols inc penal protocol twoe electer comeany pineto electer USI Worker Mode Sango phot	Choose Monitor	Mode s
Battery Voltage	Communicato Dres-Flace Single proc Three-flace Mega(1180	UPS(USE) UPS(USE) UPS(USE)	000
E	Dattery Discharge Time 00:00:00	Shat down OS Court 00.00-00	down
Olacomete	na 💮 UPSS	anu (	UKINY SEALA
-	0		Dan

Ista View	Sectory Screek	Log File Cloce	File Control Abou
Input Voltage 00 V Input Prequency 00 He	Byptin Setup biland Communication protocols and term protocol, three phase of communication protocols and the communication pro	D Uding single-chelo na protoco, our ratocol sur commerv	Output Votage 00 V Load Level 00 %
Ballory Velogo	Communication Part Press Communication Part Press Com Com	Choose Comn port	nunication
	Datery Discharge Time 00 00:00	Shut down CS Co. 00 00:00	ADD
😑 Decornecto	a 🕘 unsa	tatus	🕘 LWAY SLAVE
O Battery Low	() 3ek	Propess	C Shuttown Active

**5. Setup Nnmber of battery** The number of battery must make sure correct, in order to the software can automatically calculate to obtain relevant information of the battery. Set the battery and then click the finish button, the software can automatically connect the UPS.

lepet Votage	Bypa		Ourput Voltage
0.0 V	For co-the machine, you had	Setup numbe	r of battery
00 Hz	Number of Datlery	Wind Range 1-30	00%
Eatery Voltage		egane Emm	00C
F	Datary Discharge Tene 00:00:00	Station 05 C	with the

6. Software is running after complete Quickly set up as follows

PSmart	νe	r ø		0	
Data View	NEVISW	DER VIN	e Lograe	Close File Co	DU ADOL
kp# Vikage		Буро	-	C.4ps	Voltage
219.0 V	-			0	0 Y
Input Programmy		-	Constanting .	Low	t Loval
50.0 Hz			Transie	0	0 %
Bullary Votage	13.8 V	Temperature	29-0 C	Balwy Capacity	00%
E	Battary D	incharge Time	Shutdewn 1	Gystem Countriowe	
L	00	00.00		00.00.00	
😑 Duccessf	Communicati	on 😑 UPS A	icemal	😑 teiky	Normal
Battery Le		💮 Test in	Progress	💮 Shai	kine Active

## 3.3 Uninstall UPSmart

If you want to uninstall UPSmart, in UPSmart program group choose to delete uninstall UPSmart and confirm. As shown in figure:



# CHAPTER4

MAIN WINDOW INSTRUCTIONS

After open UPSmart software will display main Window as follows

		nga Schwalt		Come Frie	De La Abe
		Bunn	-		
Input Voltage				Real-time	data and s
Inast Frequency	-	Recently -	Inverter	display reg	ion
0.0 Hz				0	0 %
lattery Votege	0.0 V	Temperature	0.0 C	Battery Capacity	0.0%
E	Bottary Dio	charge Time	Shatdown 5	System Countdown	
L	00.0	0:00		00.000.00	
😑 Discovers	Eng	O UPS:	Status	🔿 vary	States
Earthry Lo	ĸ	() 3et	Prograce	O Shut	even Active
		_	-		_

#### 4.1 Function setting region

After the installation is complete, user can set various functions of parameter values . Eachparameter values will affect the UPSmart whether the program can normal operation, the main icon button above.

Settings toolbar: Click this button to set up some main parameters, shutdown, mail alarm, SMS alarm, battery management related configuration.

Schedule toolbar: Click on this button is mainly for UPS time 0N and 0FF Settings, user can be set up according to the daily, weekly, monthly time UPS automatically 0N and 0FF.

Log File toolbar: Click this button to view communication of related records, UPS monitoring data records, records SMS, related testing records.

Close File toolbar: Click this button to view automatically close and save of the relevant documents when power off

Control File toolbar: Click on this button for UPS to send the corresponding control command

About toolbar: Click on this button to view the user manual, and can quickly setup at the same time.

For parameter Settings in other chapter introduce in detail

#### 4.2 Real-time data and state display region

UPSmart connected to the UPS, in this area will show relevant information. The user can choose to view of data, curve view to display, display contains the contents of the input voltage, output voltage, frequency, load, temperature, battery and other related information such as; user can also check UPS related information in this area, as follows figure.



#### 4.3 Communication state display region

The area to show the connection mode of UPS, connection status, SMS module connection status, system running time information, as follows figure

ort CONT Communicate State, Successful Communication

Run 1me.00.20

# CHAPTER5 OPERATION INSTRUCTION

#### 5.1 Settings toolbar

## 5.1.1 Public parameter tab bar

First display interface for public parameter Settings tab bar, include the communication port Setting, public parameters Setting, configurations setting three Setting area.

Ublic Param Shutdown Email SMS I Communication Port Monitor Mode: Single-phase UPS(COM) 💌	Communication p setting region	xort
Communication Port. COM5 V	Dubi	Darameter
Automatic ally Start	PUDIR	: Paramete
Automatic Startup,Running in the Trav	settin	9
Automatic Startup,Running in the Tray Pop-up Alarm Box, Interval Time: 10 2 Sec	(Minimum:10s)	•
Automatic Startup,Running in the Tray Automatic Startup,Running in the Tray Pop-up Alarm Box, Internal Time: 10  Sec Data Record Time: 30  Rec (Minimum 30s)	(Minimum 10s)	,
Automatic Startup, Running in the Tray Pop-up Alarm Box, Internal Time: 10 0 Sec Data Record Time: 20 Sec (Minimum 30s) Close UPS Warning Time: 1 S Min	(Minimum:10s)	2
Automatic Startup, Running in the Tray  Automatic Startup, Running in the Tray  Pop-up Alarm Box, Internal Time: 10 Sec Data Record Time: 30 Sec (Minimum 30s)  Close UPS Warning Time: 1 S Min  Configurations	(Minimum:10s)	2
Automatic Startup, Running in the Tray Automatic Startup, Running in the Tray Debug Alarm Box, Internal Time: 10 Sec Data Record Time: 30 Sec (Minimum 30s) Close UPS Warning Time: 1 Min Configurations Switching Interface Language(Need to Restart) Insort External Settons File/Need to Restart)	(Minimum 10s)	a Disputation
Automatic Startup Running in the Tray  Automatic Startup Running in the Tray  Automatic Startup Running in the Tray  Automatic Startup Running Inne:  Automatic Startup Running Inne:  Automatic Running Run	(Minimum:10s)	g Infiguration ting

#### 1. Communication port settings region

Here mainly set up monitoring mode and the communication port, the same as began to quickly set up to monitor mode and the communication port.

Monitor mode: As shown in figure, there are single-phase UPS (COM), three-phase UPS (COM), single-phase UPS (USB), three-phase UPS (USB), Mega (USB) 5 kinds of monitoring mode. Mainly lies in the cables and single three phase difference, determined under the condition of single phase or three phase, it can be connected via a serial port or USB connection.

Monitor Mode:	Single-phase UPS(COM)	Mobilor Mode:	Sincle_nhoce	
Communicatio	Single-phase UPS(COM)	MO INDI MOUC.	om <u>e</u> re prose	
0.000	Three-Phase UPE(COM) Single-phase UPS(USB)	Communicator	n Port: None	~
Public Parame	Three-phase UPS(USB) Mega(USB)	Public Paramet	ers 00M3	
Automatica	iy start			

**Communication port:** Communication port only chose the monitoring mode to serial port connection to be checked, if the connection at this time have good connection, communication port can automatically detect the serial number, choose directly. When choosing the USB connection mode software will automatically find the connection, don't need to be set manually. As shown in figure: select single-phase serial connection to choose corresponding communication port.

#### 2. Public parameters setting

Public Parameters	
Automatically Start	
Automatic Startup, Running in the Tray	
Pop-up Alarm Box, Interval Time: 10 🛸 Sec (Minimum:10s)	
Data Record Time: 30 🜻 Sec. (Minimum:30s)	
Close UPS Warning Time: 1 2 Min	

As shown in figure, selected **automatically start**, the software can be run automatically open on the desktop when OS is started, on that basis selected "Automatic Startup, Running in the Tray" hidden software automatically at system boot to the desktop to the lower right corner.

Selected **Pop-up Alarm Box, interval Time**, In the grid fault, UPS battery low voltage, system testing, close UPS will pop-up warning dialog box in the lower right corner, warning interval can be set, the default for 10 seconds when fault pop up a warning message.

Data Record Time: In the main Window is what is inside a "record" toolbar records the UPS work of each kind of data, here you can set its every how long records a data, software defaults to 30 s record data at a time, data record time can be modified.

Close UPS Warning Time: This time is distance send the shutdown command of close UPS time, prompt soon to shutdown command to activate, the default time of 1 minute.

#### Utility supply fault



#### 3. Configurations settings

Configurations		
Switching Interface Language(Need to Restart	English	~
Import External Settings File(Need to Restart):	Browse	
Export Settings to File:	Save As	-
Restore Default Settings(Neec to Restart):	Confirm	

Selected **Switching Interface Language**, user can be on the right side of the drop-down box select the corresponding language, software only supports English, Chinese, traditional Chinese three languages

Import External Settings File: If the user had save output configuration file after detailed configuration software configuration file, in the next match can be directly imported that configured files, without manually one by one again configuration options

Export Settings to File: If you have already set up all the configuration, can save the configuration file, to help the next time the configuration directly import the configuration file

Restore Default Settings: Click on "Confirm " will be restored to the initial configuration

Note: User must restart software after finished "Configurations "

#### 5.1.2 Shutdown tab bar

Shutdown tab bar mainly includes: shut down the operating system and close UPS Settings, file save Settings and performing external application settings. The following figure

Settings	
Public Param Shutdown Email SMS E	Shutdown operation system an shutdown UPS output setting
Shutdown Parameters	
When Mains Failure, Shut down OS in: 5	Min(s) (0-2880)
When Battery Low Voltage, Shut down OS in: 5	Min(s) (0-600)
Shutdown Operation System	
Shutdown UPS Output	
Time to Shut down OS before UPS Tums off	Win(s)
Additional Parameters	Save file and execute external program setting
UPSmartTemp	Browse
Execute External Program	
	Browse
Max Running Time: 1 Min(s)	

#### 1. Shutdown operation system and shutdown UPS output

Checked "shutdown operation system ", no checked "shutdown UPS Output ", In low voltage batteries or mains failure closed operation system but not close UPS

 Not checked "shutdown operation system", checked "shutdown UPS Output", at this time only to close UPS will not shut down the operation system. When in the main window of the schedule toolbar had setup close UPS command, here must be selected to close UPS, otherwise the UPS will not be able to shutdown.

• Checked "shutdown operation system ", at same time checked "shutdown UPS Output ", At this time will shut down the operating system first, then closed UPS. "Close UPS Output" option at the back of the time set that is buffer time for operation system when close UPS, during this time can be save important documents, the default time of 1 minute.

#### 2. Save file and execute external program

Select this option, under special circumstances, user forget to close store related document when the operation system is closed, the software will automatically closed and save document.

#### 5.1.3 Email tab bar

Setting this option is set the mail alarm function, set the area is divided into the sender set area, and the recipient area. the alarm function will start after selected "Email-enabled", then Settings for the sender and recipient. Set pattern is divided local area network (LAN) and external network.

Public Param Shutdov	wn Email	SMS	Battery Mana	Email sender settin region
Email-enabled				
Sender Set				-
Sender Display Name:	administrator			
Sender Email Address:	info@machpov	vec it		
SMTP Server Address:	smtp.machpor	ver.it		
SMTP Server Port	25			
Server Requires Pas	sword Authentic	ation [	Settings	3
info@machpower.it				setting region
				Delete
Sending Daily Data Rep	ort Time(HH MM	88) 23	59.59	\$
		144		100

#### 1. Mail sender settings region

If user use local area network(LAN) to send email, setting options include the sender's name, email address, SMTP server address of the sender, SMTP server port, after several Settings can send mail in the local area network (LAN), such as the company's local area network can be set. Special remind when setting up the SMTP server address to ensure that the server address is correct, different email its "SMTP server address" is difference; At this time the default SMTP server port is 25 without modification. If using company email address, you can check the SMTP server address in the email client.

If user use external network to send email, based on local area network (LAN) Settings go on with set "server requires a password authentication" this option. Setup below, click set up after the completion of the confirmation, this email can be sent to the external network.



Checked "Use a Secure Password Authentication", Before did not selected this option email on the Internet are clear text, after select this option is encrypted E-mail. When sending external network the optional don't choose, if you want to select this option, first asked to modify the SMTP server port, such as 163 email SMTP server port "safe mode" is 465, this according to the different email and choose a different port.

#### 2. Email recipient settings region

The recipient can add more, click the add button to add the recipient's email address, can be increased the recipient email address. In this area can also be set to send alarm events, click "Events setting "button show as follow figures. At the same time can also specify the time daily reports to send data and send the incident report time every month.

🛛 Event Setting
Deeper Alarm
Shutdown Active
Test in Progress
UPS Type
UPS Status
UPS Operating Mode
Battery Low
Usity Status
Select all Cancel all OK

## 5.1.4 SMS tab bar

To use this function you first need to have a message sending module, interface below

SM8-enabled		modern setting
SMS Setting Communication Port	None	×
Modern Type:	GSM	× .
Phone No		
8613468645774	0	Add
_		Modify
Ad	d telephone number	Delete
	6	vents Setting
		Send
Test Phone No.: 8618700872365		

## 1. Communication port and modem settings

Communication port: Generally through a serial port connection message module, if the connection module is connected, automatically detect serial communication port here connective, just can be selected in the drop-down box.

Modem Type : There are three kinds of patterns to choose namely GSM, CDMA, WCDMA.

Note: add "phone number" and "test mobile phone numbers" must be added in front of the "86", for example: 8613468645645

#### 5.1.5 Battery Management tab bar

When you checked the "Enable Battery Management", Here are usually set number of battery, group of battery, UPS power, the battery rated capacity, other default and software will calculate battery capacity and battery remaining time by oneself. If you not checked the "Enable Battery Management", the value of battery capacity comes from UPS transmit (tip: only support to single phase UPS now).

Splited to calculate the ballery remaining capacity and remaining time.     recep of Ballery
Orout Range 1-99     Orout Range 1-99     Orout Range 1-99     Drable Battery Management     Basic Parameter
Aumber of Buttery Management  Enable Elattery Management  Elasic Parameter  I DP Research 20 1000
Enable Battery Management     Easic Parameter
East: Parameter
1 PD Douged AM
i onput ronge u.1-100
Battery Risted Capacity(Ah) 7 (input Ringe 1-250)
Date of Battery Installation 2014/39/05 (\\\\MMDD)
Cell Battery Full Charge Voltage(V) 13.8 (input Range 0.01-98
Cell Battery End of Discharge Voltage(V) 10.2 (input Range 0.01-99
Constant Ourrent Discharge Table Default - Cettings

The influencing factors of battery capacity and display error

1. Battery current (sampling accuracy; different load rate; many UPS did not upload the battery current, if there is no battery power flow, monitoring only by other parameters estimation, there will be deviation estimates), and this is the main factor affecting the battery capacity.

2. Temperature (most UPS did not sample battery temperature)

3. The battery charge and discharge frequency (after the battery for a long time will be aging, aging battery capacity is differences)

## 5.2 Schedule toolbar

Here the set UPS time switch machine, without having to manually shutdown UPS. When in the case of nobody monitor , software will automatically time switch machine for UPS

un.	Time of shutdown	Time of startup
ton ues Ved hur	Time switcl setting regi	h machine on
*	τ	

## 1. Time schedule

User can be set UPS switch machine at any time within a week, in the "next time close UPS of time" and "next time you startup time" column will show a recent distance now time switch machine time, an so on.

## 2. Special schedule

Special schedule window

If there is no set time switch machine, user can be set up in the special task switch machine time, interface below. User can add tasks to set the time switch machine, set the interface as below. Frequency for once, daily, weekly, monthly, tasks can be choose

I manufacture in the second second	
Time schedule Special sched	ule
	Art Dates
	Add Defete
Next Time Shutdown:	Add Delete
Next Time Shutdown:	Add Delete
Next Time Shutdown:	Add Delete

Add task Management window

Task Date:	2014 11-25 19:33	~
Frequency		
Once      Every	Day O Every Week O Every	Month
Task		
Shutdown 0S ar	nd UPS	
O Startup UPS		
O Battery Low Volta	age Test	
O Battery Test 10 S	econds	
O Battery Test 1	C (1-99) Minute(s)	

### 5.3 Log File toolbar

Here store related event log, data log, SMS log, debug log four kinds of information. Here you can to save, print, clear record information. Display the following figure

ect Date: 2014-09 🜲		
Current page: 1	Total:10p	9945 E
Datetime	Event description	^
2014-09-05 15:35:53	UPS connected	
1014-09-05 15:21:00	Open Failed	
2014-09-05 15:20 40	Open Failed	
014-09-05 14:16:39	UPS connected	
1014-09-05 10:56:10	UPS connected	
014-09-05 08:42:13	Utility supply normal	
014-09-05 08:41:55	Utility supply fault	
	lines i i	~

Note: Debug log this item does not generally used, here mainly used in the technical engineering staff view.

## 5.4 Close File toolbar

# 1. The last shutdown time

It display the last closing of system time

## 2. The last number of close file

It display the system running applications when last shut down the operating system.

# 3. The last number of saved file

When closed system, software help save the file, save the file format is associated with specific system, usually can save office documents, TXT, file path set in the shutdown option set. Interface below.

≃Close File	×
The Last Shutdown Time:	
The Last Number(s) of Closed File: 0	
The Last Number(s) of Saved File: 0	
	OK

Note: the current closed application function is only suitable for some of the general application software system, such as Office, TXT, part of the application does not support the close function

# 5.5 Control toolbar

If you need real-time control of UPS, can according to options to control the UPS for the following:

- 1. Battery Test 10 Seconds
- 2. Battery Low Voltage Test
- 4. Cancel Shutdown
- Switch Buzzer
   BatteryTest
- 6. Shutdown OS and UPS

≡ UPS	Control	X
UPS C	ontrol	
0	Battery Test 10 Seconds	
0	Battery Low Voltage Test	
0	Switch Buzzer	
0	Cancel Test	
0	Cancel Shutdown	
0	Battery Test 1 💲 (1-99) Minute(s)	
0	Shutdown OS and UPS	
Tip some	e machines don't support for those command	OK

Note 1: the control command can be perform related to whether UPS response to this command Note 2: Whether shut down the operating system is related to the Settings of the closed system is checked

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