

Guide for Solar Battery Hybrid Controller

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APsystems

8627 N. Mopac Expy, Ste 150 Austin, TX 78759 United States of America Email: <u>info.usa@APsystems.com</u>

APsystems

Building 2, No. 522, Yatai Road, Nanhu District, Jiaxing City, Zhejiang, China Email: <u>info@APsystems.cn</u>

APsystems France

22 avenue Lionel Terray 69330 Jonage France Email: info.emea@APsystems.com

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1. Introduction

EMA App is an energy monitoring application for smart phones, designed for end users of APstorage Products. Users can check the real-time performance, historical energy data, and environmental benefits of their APstorage.

1.1 About this Guide

This document introduces the Solar Battery Hybrid Controller.

1.2 Need to Know

Before using the EMA APP to assist in configuring the device, please ensure that the device has been correctly assembled and connected to the power source. It takes time for the device to respond to the APP settings. For the actual situation, please refer to the LCD display on the device.

2. Local Control

The Solar Battery Hybrid Controller AHS-6.3 model has been designed with local connection and management functionality. You can access this local functionality through EMA APP.

2.1 Connect Device

Click "Local access" to enter this function.

On the **[Connect Device]** page, you can see two entrances for connecting devices, which respectively correspond to devices of ECU and devices of APstorage. Here, please click on the *"APstorage"* to connect APstorage devices.

	3.06 🗙 🥱 л 85% 🖬	11:14		
APsystems	English	<	Connect Device	
Debug 		Choose t Provide yo	he device type you connect u with precise service	
EMA (For End U	A ser) t ×	-	ECU The communication unit of the PV system, which completes data collection and functional control functions. You can do the monitoring and control via AP Hotspot or LAN.	
Password	argot Password		APstorage APstorage can be used in connection with PV systems or independently to optimize household electricity consumption. You can do the monitoring and control via AP Hotspot, LAN or Bluetooth.	
New Acco	ount	<u> </u>		Click "APstorage
	er System Inc.2023. served			

2.1.1 Bluetooth connection supported

- Step 1: Click *"Connect"* as indicated in the picture to enter the device's Bluetooth list.
- Step 2: Choose the Bluetooth of the APstorage device to connect to, the format of the Bluetooth is AH_A05XXXXXXXX, A05XXXXXXX being the device ID.
- Step 3: Wait for the device connection status to be updated. Once successful, check the option "Connected AP hotspot or Bluetooth" and then you can click "Next Step" to the [Home] page.

- **Note:** If the device fails to connect, please check whether the device is working properly and then repeat the above operation.



3. Home Page (Local Control)

On the [Home] page, you can visualize:

- The connection situation between the mobile phone and APstorage.
- Power flow of the system with AHS-6.3 model.
- Live data of the system.
- Total energy including consumption, production, grid or generator, charge and discharge.

Note

- There is a [Tip] page entered by clicking the icon "①", which displays the meanings of each icon on the [Power Flow].
- Within the [Live Data] area, after clicking the button "Show More", you will see more relevant data in the [Power Flow] area.



3.1 Alarm



This page displays the current alarm information of the device. If the actual alarm of the device has disappeared, the page will be updated accordingly. If the device is operating normally, the alarm indicator will be shown as "^(C)" without the red dot.

Device in alarm Device runs normally 17:35 <u>L</u>i Connected A0500000090, make sure your phone is Connected A050000000 enough to the device! close enough to the device! (j) Battery High Voltage Power Flow (j) Power Flow Process Suggestions: Last Update Time:2025-04-11 16:46:49 Turn off the Battery Breaker and check whether the battery pack voltage is in the range of 40-60V; Ow PV **O**w Grid 2. Restart the battery and PCS to see whether the system can 111 return to normal: 3. If the alarm persists, turn off the battery power and contact APS technical support engineers. 0w 542w Generator 睂 50.1v 0w.0% A (a) Live Data SLD 48V Solar and Utility Solar First . 38.1 °c 0w.0% 53.4v Battery Load Live Data 0.00 kW 0.0 v Fotal Energy Power Voltage 😭 Consumption 0.09 kWh 0.00 A # Production 0 kWh Current Grid or General 0.02 kWh 🚥 Charge 0.02 kWh Show More 0.08 kW Settings 合 Home (i) Settings

4. Settings Page (Local Control)

In this view, you can manage the AHS-6.3' system information.

Settings					
Universal Settings					
Battery Information	Lead-Acid Battery >				
Operation Mode	>				
Grid Profile	>				
Power Saving Mode	\bigcirc				
When power saving mode is disabled, the inverter regardless of the power level of the connected load inverter automatically cuts off its output when it de reached a very low level for 5 minutes.	maintains its original output state, ds.In power saving mode, the etects that the load power has				
Auto Bypass	\bigcirc				
If automatic bypass is enabled and the utility powe automatically switch to bypass mode even if the by	r is normal, the system can ypass function is disabled.				
Overload Bypass	\bigcirc				
When enabled, the unit will transfer to line mode if overload occurs in battery mode.					
Auto Restart When Overload O	ccurs				
Auto Restart When Over Tempe Occurs	erature				
Others					
Device Settings	>				
Network Settings	APsystems-EMA3 >				
Device Information	>				
Upgrade	>				
One-Click Diagnosis	>				
APP					
Language	English >				
Exit					
☆ Home	Settings				

4.1 Battery Information

•



In the *"Battery Type"* option, selecting the *"Lead-Acid Battery"* type battery and the *"Lithium Battery"* type battery will result in different categories of interface settings.

< Battery Information	< Battery Information
Battery Type Lead-Acid Battery >	Battery Type
Battery Voltage Type 48V >	Battery Company UZ >
Battery Mode Sealed Lead Acid Battery(SLD) >	Battery Model PLPA-L1-5K1 >
Maximum Charging Current(A) — 128 +	Battery Serial Number 🕒
To configure total charging current for solar and utility chargers.(Max. charging current = utility charging current+solar chargingcurrent)	Maximum Utility Charging 65 +
Maximum Utility Charging Current(A) - 64 +	10A-130A
	ок
ок	

4.1.1 Battery Type: Lead-Acid Battery

Battery Voltage Type

This option determines the input range of the settable items in the graph.

	որություն աներագրություններում աներագրություններում աներագրություններում աներագրություններում աներագրություններում աներագրություններում աներագրություններում աներագրություններում աներագրություններում աներագրություններո	17:14	🕺 💐 ଲି 🗐 72% 🛢
< Battery Informati	on	< Batte	ery Information
Battery Type	Lead-Acid Battery >		
Battery Voltage Type	48V >	Battery Type	
Battery Mode	User-Defined >	Battery Voltage Typ	De 24V>
Maximum Charging Current(A)	- 128 +	Battery Mode	
Fo configure total charging current for solar and utility ch current = utility charging current+solar chargingcurrent)	argers.(Max. charging		
Maximum Utility Charging Current(A) 10A-130A	— 61 +	Maximum Charging	g Current(A) — 128 +
Bulk Charging Voltage(V)	- 56.4 +	To configure total charging curre current = utility charging current+	
Floating Charging Voltage(V) 48V-58.4V	- 54 +	Maximum Utility Ch Current(A) 10A-130A	narging – 61 +
Bulk Charging Time(minute) 5-900(minute)	- 54 +		
DC Cut-off Voltage(V) 40V-54V	- 42 +		
Battery Equalization	\bigcirc		
Battery Equalization Voltage(V) 48V-58.4V	- 58.4 +	Cancel	ок
Battery Equalization Time(minute) S-900(minute)	- 60 +		
Battery Equalization Timeout(minute) 5-900(minute)	- 120 +		48V
Equalization Interval(day) 0-90(day)	- 30 +		24V
			12V
ок			Adaptive
Equalization Activated Immed	iately	L	
		_	

The options you can choose from are:

- 48V (default)
- 24V

- 12V
- Adaptive: If this option is selected, the inverter can automatically recognize the voltage type of the connected lead-acid battery and set all default parameters accordingly, while the user-defined setting range is also adjusted simultaneously.
- Battery Mode

17:14 [©] ≪ ® ⊿ 72%∎ < Rattery Information _	17:10 K Battery Informat	‱ 4. ≋ ⊿ 72%∎ ion	09:04 < Battery Inform	‰ ≰ ≋ ⊯ 32%∎ ation
C Dattery mornation	Rattery Type	Lead-Acid Battery)		ation
Battery Type Lead-Acid Battery >	Battery Voltage Type	48V >	Battery Type	Lead-Acid Battery >
Battery Voltage Type 48V >	Battery Mode	User-Defined >	Battery Voltage Type	48V >
Battery Mode Sealed Lead Acid Battery(SLD)	Maximum Charging Current(A)	- 128 +	Battery Mode Sealed Le	ead Acid Battery(SLD) >
	To configure total charging current for solar and utility ch current = utility charging current+solar chargingcurrent)	sargers (Max. charging		
Maximum Charging Current(A) - 128 +	Maximum Utility Charging Current(A) 104-1304	- 61 +	Maximum Charging Current(A)	- 128 +
To configure total charging current for solar and utility chargers (Max. charging current = utility charging current+solar chargingcurrent)	Bulk Charging Voltage(V)	- 56.4 +	To configure total charging current for solar and utili current = utility charging current+solar chargingcurrent	ty chargers.(Max. charging ent)
Maximum Utility Charging - 61 +	Floating Charging Voltage(V) 48V-58.4V	- 54 +	Maximum Utility Charging Current(A) 10A-130A	- 64 +
	Bulk Charging Time(minute) 5-900(minute)	- 54 +		
ak	DC Cut-off Voltage(V) 409-549	- 42 +	ок	
	Battery Equalization	9		
Cancel OK	Battery Equalization Voltage(V) 48V-58.4V	- 58.4 +		
	Battery Equalization Time(minute) 5-900(minute)	- 60 +		
User-Defined	Battery Equalization Timeout(minute) 5-900(minute)	- 120 +		
Sealed Lead Acid Battery(SLD)	Equalization Interval(day)	- 30 +		
Vented Lead Acid Battery(FLD)				
Colloidal Lead Acid Battery(GEL)	OK .			
	Equalization Activated Immed	liately		_

The options you can choose from are:

- User-Defined(User)
- Sealed lead acid battery(SLD) (default)
- Vented lead acid battery(FLD)
- Colloidal lead acid battery(GEL)
- Maximum Charging Current
 Default value: 130 A. Value range: 10 to 130 A.
- Maximum Utility Charging Current
 Default value: 130 A. Value range: 10 to 130 A.

Note: If the setting value in *"Maximum Charging Current"* is less than 130 A, the current program setting maximum value is the setting value of *"Maximum Charging Current"*.

4.1.2 Battery Type: Lithium Battery

Select *"Lithium Battery"* to obtain the detailed configuration of the battery in terms of company, model and serial number.

There are two ways to add the serial number, namely manual input and scanning the Barcode or QF code. Only 16 batteries can be added at most.					
	09:05	💥 K ବ୍ଜ 🖬 32% 🛢 mation			
	Battery Type	Lithium Battery >			
	Battery Company	UZ >			
	Battery Model	PLPA-L1-5K1 >			
	Battery Serial Number	\oplus			
	Maximum Utility Charging Current(A) 10A-130A	65 +			
	ок				

- Select "Battery Company",
- Select "Battery Model",
- Click ". to add battery serial number by scanning or manual input,
- Click *"OK"* to complete.
- Maximum Utility Charging Current
 Default value: 130 A. Value range: 10 to 130 A.

4.2 Operation Mode



- Charge Source Priority: To configure charger source priority
 - Solar First
 - Utility First
 - Solar and Utility (default)
 - Solar only
- Output Source Priority: To configure load power source priority
 - Solar First
 - Utility First (default)
 - SBU
 - SUB

4.3 Grid Profile



- AC input voltage range
 - Appliances (default)
 - UPS
 - Generator
- Output Voltage
 - 220V
 - 230V (default)
 - 240V
- Output Frequency
 - 50Hz (default)
 - 60Hz

4.4 Power Saving Mode

	17:16	° 🗙 🗞 🕷 🖃 71% 💼	4:45	4:45 🕺 🕺 🕬
	Setting	S		Home
	Battery Information	Lead-Acid Battery >	Connected A050000 close enough to the	Connected A0500000
	Operation Mode Grid Profile	>	Power Flow Last Update Time:202	Power Flow Last Update Time:2025-04-11 16:45:24
	Power Saving Mode When power saving mode is disabled, the inverte regardless of the power level of the connected lo inverter automatically cuts off its output when it reached a very low level for 5 minutes.	r maintains its process output state, ads. In pour leaving mode, the definition and the load power has	<i>i</i> h	A
	Auto Bypass In automatic bypass is enabled and the utility pow	ver is normal, the system can	Ow PV	Ow PV
Switch on	automatically switch to bypass mode even if the Overload Bypass	bypass function is disabled.		
	When enabled, the unit will transfer to line mode if Auto Restart When Overload (roverload occurs in battery mode.		ECO
	Auto Restart When Over Temp Occurs	berature	SLD	
	Device Settings	>	53.2 v Battery	53.2 v Battery
	Network Settings Device Information	apsystem-TestEMA3 >	Live Data	Live Data
	Upgrade	>	0.00 kw Power	0.00 кw 0.0 v Power Voltage
		Z English \	0.00 н z Frequency	0.00 Hz 0.00 A Frequency Current
	Language	English >		Show More
	Exit	0	Home	Home

- Switch off *"Power Saving Profile"* (default):
 - When power saving mode is disabled, the inverter maintains its original output state, regardless of the power level of the connected loads.
- Switch on *"Power Saving Profile"*:
 - When the device is actually in power saving mode, the inverter automatically cuts off its output when it detects that the load power has reached a very low level, or that the PV input has been interrupted for 5 minutes.
 - There will be an "ECO" logo within the [Power Flow] area on the [Home] page.

4.5 Auto Bypass

17:17 Settings	्रे ६ कि. ⊒ 71%∎ :				
Universal Settings					
Battery Information	Lead-Acid Battery >				
Operation Mode	>				
Grid Profile	>				
Power Saving Mode					
When power saving mode is disabled, the inverter r regardless of the power level of the connected load inverter automatically cuts off its output when it de reached a very low level for 5 minutes.	maintains its original output state, ds.In power saving mode, the rtects that the load power has				
Auto Bypass					
If automatic bypass is enabled and the utility powe automatically switch to bypass mode even if the by	r is normal, the system can rpass function is disabled.				
Overload Bypass					
When enabled the unit will transfer to line mode if overload occurs in battery mode.					
Auto Restart When Overload O	ccurs				
Auto Restart When Over Tempe Occurs	erature				
Others					
Device Settings	>				
Network Settings	apsystem-TestEMA3 >				
Device Information	>				
Upgrade	>				
One-Click Diagnosis	>				
APP					
Language	English >				
Exit					
i kama	©				

- Switch off (default): Manual.
- Switch on: Automatic.

Note: If automatic bypass is enabled and the utility power is normal, the system can automatically switch to bypass mode even if the bypass function is disabled.

4.6 Overload Bypass

17:17	o Ka 🛠 🕾 л 71% 🗎
Settings	\$
Universal Settings	
Battery Information	Lead-Acid Battery >
Operation Mode	>
Grid Profile	>
Power Saving Mode	
When power saving mode is disabled, the inverter regardless of the power level of the connected loa inverter automatically cuts off its output when it de reached a very low level for 5 minutes.	maintains its original output state, ds.In power saving mode, the etects that the load power has
Auto Bypass	
If automatic bypass is enabled and the utility powe automatically switch to bypass mode even if the b	er is normal, the system can sypass function is disabled.
Overload Bypass	
When enabled, the unit will transfer to line mode if	overload occurs in battery mode.
Auto Restart When Overload O	iccurs
Auto Restart When Over Temp Occurs	erature
Others	
Device Settings	>
Network Settings	apsystem-TestEMA3 >
Device Information	>
Upgrade	>
One-Click Diagnosis	>
APP	
Language	English >
Exit	
8	0

- Switch off (default): Overload bypass disabled.
- Switch on: Overload bypass enabled, when enabled, the unit will transfer to line mode if overload occurs in battery mode.

4.7 Auto Restart When Overload Occurs

17:16	🕺 💐 🛞 🖬 71% 🗎
Settin	igs
Universal Settings	
Battery Information	Lead-Acid Battery >
Operation Mode	>
Grid Profile	>
Power Saving Mode	
When power saving mode is disabled, the inve regardless of the power level of the connectes inverter automatically cuts off its output when reached a very low level for 5 minutes.	eter maintains its original output state, d loads.In power saving mode, the n it detects that the load power has
Auto Bypass	
If automatic bypass is enabled and the utility automatically switch to bypass mode even if t	power is normal, the system can the bypass function is disabled.
Overload Bypass	\bigcirc
When enabled, the unit will transfer to line mod	de if overload occurs in battery mode.
Auto Restart When Overload	d Occurs
Auto Restart When Over Ter Occurs	mperature
Others	
Device Settings	>
Network Settings	apsystem-TestEMA3 >
Device Information	>
Upgrade	>
One-Click Diagnosis	>
APP	
Language	English >
Exit	
~	6
Home	Settings

- Switch off: Disabled.
- Switch on (default): Enabled.

4.8 Auto Restart When Over Temperature Occurs

17:16						
Setting	5					
Universal Settings						
Battery Information	Lead-Acid Battery >					
Operation Mode	>					
Grid Profile	>					
Power Saving Mode						
When power saving mode is disabled, the inverte regardless of the power level of the connected ic- inverter automatically cuts off its output when it of reached a very low level for 5 minutes.	r maintains its original output state, ads.In power saving mode, the detects that the load power has					
Auto Bypass						
If automatic bypass is enabled and the utility pow automatically switch to bypass mode even if the	ver is normal, the system can bypass function is disabled.					
Overload Bypass	\bigcirc					
When enabled, the unit will transfer to line mode if overload occurs in battery mode.						
Auto Restart When Overload 0	Decurs					
Auto Restart When Over Temp Occurs	perature					
Others						
Device Settings	>					
Network Settings	apsystem-TestEMA3 >					
Device Information	>					
Upgrade	>					
One-Click Diagnosis	>					
APP						
Language	English >					
Exit						
Home	Settings					

- Switch off: Disabled.
- Switch on (default): Enabled.

4.9 Device Settings



Buzzer Mode

- Mode1: Buzzer mute.
- Mode2: The buzzer sounds when the input source changes or there is a specific warning or fault.
- Mode3: The buzzer sounds when there is a specific warning or fault.
- Mode4(default): The buzzer sounds when there is a fault.
- Auto return to default display screen

- Switch off: Stay on the current page. If this option is selected, the system stays on the page of the last operation.
- Switch on (default): Back to home. If this option is selected and the screen is not tapped for 1 minute, the system automatically returns to the home page.
- Auto Screen Off:
 - Switch off: Auto screen off disable. Once selected, the screen will remain lit.
 - Switch on (default): Auto screen off enable. If this option is selected, the system stays on the page of the last operation. Once selected, the screen will turn off when there is no button operation for 5 minutes; pressing any button will light up the screen.

4.10 Network Settings

The page will show up APstorage's wireless connection status. Click the " = " and choose the available Wi-Fi to connect, also, you can manually input the Wi-Fi name.

- Step1: Enter the Wi-Fi name.
- Step2: Enter the password.
- Step3: Click "Connect to Network".

09:06	0 Ks ≪ ⊜ all 32%∎	09:05		09:07	
<	Network Settings	< N	etwork Settings	<	Network Settings
Network Configuration Configure 2.4GHz WFFI for the energy storage machine to ensure normal communication with the cloud for remote services.		Network Configuration Configure 2.43Hz Wi-Fi for the energy storage machine to ensure normal communication with the cloud for remote services.		Network Configuration Configure 2.4GHz Wi-FI for the energy storage machine to ensure normal communication with the cloud for remote services.	
Device is Not networked		Device is networked		Device is networked	
	0	N	etwork Configuration		
Network Conn	mection Method1: Click to obtain WiFi list	apsystem-	TestEMA3	Network Connect	ion
Using Wirel	less Network Connection	APsystem	s-EMA3	Using Wireless	Network Connection
	enter WiFi name	APsystem	s-project	apsystem-Te	stEMA3 💿 🚔
		APsystem	s-Meeting310	apoyotani to	
Please	enter WiFi password 🗞	APsystem	s-EMATest		Ø ⊗
Connect to Network		ECU-WIFI_0733		Change Network	
		Apsystems	s-Meeting306		
/ Method2: Manually enter the WiFi name		APsystem	s-Institution		
		CU_7fPx			
		Redmi_81	10_2.4		
		KjcOffice			
		Xiaomi SU	7		
		RMM2			
		HOHAI_2.4	IG		
			-		

4.11 Device Information

The device information page displays the serial number, model, DSP version, DCM version, bluetooth, Wi-Fi MAC address, and currently connected IP address.

12:47	₀ K/s 🛰 कि ज∦ 68% 🛍				
C Device Information					
Serial Number	A0500000				
Model	AO				
DSP Version	5.0.0.211				
DCM Version	0.0.19.0				
Bluetooth	9-10-10-00-02				
Wi-Fi MAC Address	9C				
IP Address	192.1				

4.12 Upgrade

When an update is available, you can click the *"Upgrade"* button to upgrade.

Note: You need to reconnect your smart phone to the APstorage's Bluetooth if the connections fail once the signals disappeared during upgrading.

< Upgrade	< Upgrade	< Upgrade
If the software version is not up to date, please upgrade it first to ensure APstorage running normally. It may takes 10 minutes at most generally and do not logout the APP during the process of upgrade.	If the software version is not up to date, please upgrade it first to ensure APstorage running normally. It may takes 10 minutes at most generally and do not logout the APP during the process of upgrade.	Software is up to date
Current Version: 5.0.0.211_0.0.19.0 Latest Version: 1.0.0.11_0.0.21.0	Current Version: 5.0.0.211_0.0.19.0 Latest Version: 1.0.0.11_0.0.21.0	
	Upgrade Progress: 35%	
Upgrade		
	Upgra	
Click to start upgrading		
	Upgrading	

4.13 One-Click Diagnosis

Click to upload the diagnostic information of the device to the server.

	🖧 🔍 🕾 🖉 71% 🖬	09:07		
Settings		Settings		
niversal Settings		Cettingo		
Battery Information	Lead-Acid Battery >	If automatic bypass is enabled and the utility power automatically switch to bypass mode even if the by	is normal, the system can cass function is disabled.	
Operation Mode	>	Overload Bypass		
Grid Profile	>	2019 - De Statistic Marken (2019)	0	
Power Saving Mode		When enabled, the unit will transfer to line mode if o	verload occurs in battery mod	
hen power saving mode is disabled, the inv gardless of the power level of the connecte verter automatically cuts off its output whe sched a very low level for 5 minutes.	erter maintains its original output state, d loads in power saving mode, the n it detects that the load power has	Auto Restart When Overload Oc	curs	
Auto Bypass	$\overline{\mathbb{O}}$	Auto Restart When Over Tempe Occurs	rature	
automatic bypass is enabled and the utility itomatically switch to bypass mode even if	power is normal, the system can the bypase function is disabled.	Others		
Overload Bypass	\bigcirc	Device Settings		
hen enabled, the unit will transfer to line mo	de if overload occurs in battery mode.			
Auto Restart When Overloa	d Occurs	Network Settings	apsystem-TestEMA3 >	
Occurs			ceeded.	
thers				
Device Settings	3	Upgrade		
Network Settings	apsystem-TestEMA3			
Device Information		One-Click Diagnosis	>	
Upgrade	>	APP		
One-Click Diagnosis	>	Language	English)	
pp	Click			
Language	English >	Exit		
Exit		~	0	
	-		(2)	

4.14 Language

Select "Language" to set the APP language.

17:01 Settings	^{0.02} ¥ ⊛.⊿ 74%∎ S			
Universal Settings				
Battery Information	Lithium Battery >			
Operation Mode	>			
Grid Profile	>			
Power Saving Mode	\bigcirc			
When power saving mode is disabled, the inverter maintains its original output state, regardless of the power level of the connected loads. In power saving mode, the inverter automatically cuts of its output when it detects that the load power has reached a very low level for 5 minutes.				
Auto Bypass	\bigcirc			
If automatic bypass is enabled and the utility pow automatically switch to bypass mode even if the b	er is normal, the system can ypass function is disabled.			
Overload Bypass	\bigcirc			
When enabled, the unit will transfer to line mode if overload occurs in battery mode.				
Auto Restart When Overload C	occurs			
Auto Restart When Over Temp Occurs	erature			
Others				
Device Settings	>			
Network Settings	apsystem-TestEMA3 >			
Device Information	>			
Upgrade	>			
One-Click Diagnosis	>			
APP				
Language	English >			
Exit				
Home	© Settings			