

**NEC**

ND-91822 (E)  
ISSUE 1.0

# **WLPS1(E)-A**

**MH210 Setup Guide**

**NEC Corporation**

## **Purpose of the Manual**

This manual describes setting procedures necessary to use the Wireless LAN voice terminal MH210. Read this manual carefully and understand its content to handle the product properly.

## **Manual Configuration**

### Section 1: Overview of MH210

This section describes the appearance of MH210 and names and functions of each part.

### Section 2: Start-up Procedure for MH210

This section describes how to start up MH210.

### Section 3: Configuration for MH210

This section describes the configuration for MH210.

### Section 4: Firmware Download Procedure for MH210

This section describes how to download firmware to MH210.

### Section 5: List of Configuration Menu

This section lists configuration menu in the system setting mode.

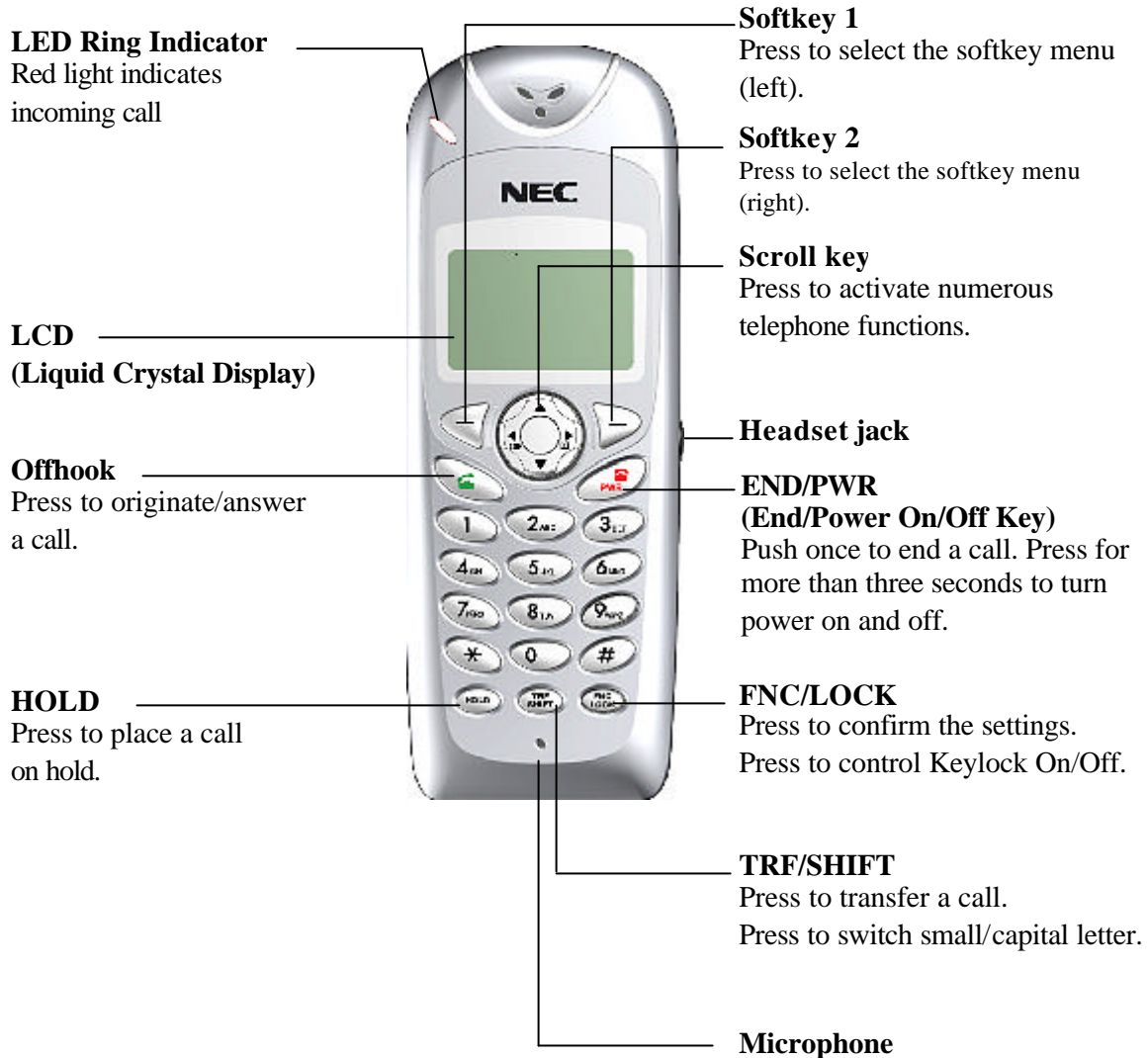
## Contents

1. Overview of MH210 .....	1
2. Start-up Procedure for MH210 .....	2
3. Configuration for MH210 .....	3
3.1 Settings from MH210 .....	3
3.1.1 Factory reset .....	4
3.1.2 Net setting .....	5
3.1.2.1 Network mode .....	5
3.1.2.2 IP address .....	5
3.1.2.3 Subnet mask .....	5
3.1.2.4 Gateway .....	6
3.1.3 SIP setting .....	6
3.1.3.1 Server .....	6
3.1.3.2 Proxy .....	8
3.1.3.3 User account .....	9
3.1.4 WLAN setting .....	10
3.1.4.1 Network .....	10
3.1.4.2 ESSID .....	11
3.1.4.3 Channel .....	11
3.1.4.4 Rate .....	11
3.1.4.5 WEP select .....	11
3.1.5 Information .....	11
3.1.5.1 Phone number .....	12
3.1.5.2 IP address .....	12
3.1.5.3 MAC ID .....	12
3.1.5.4 Firmware ver. ....	12
3.1.5.5 Hardware ver. ....	12
4. Firmware Download Procedure for MH210 .....	13
5. List of Configuration Menu .....	18

## 1. Overview of MH210

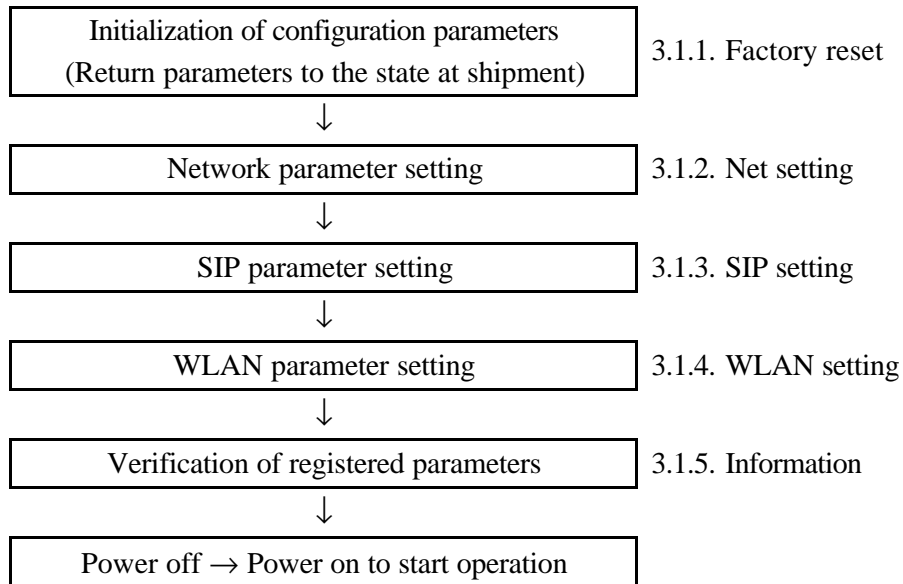
Appearance of MH210 and functions of each part

### THE BASICS DISPLAYS AND KEYS



## 2. Start-up Procedure for MH210

Procedure for MH210 until starting operation



### 3. Configuration for MH210

The following two methods are available for the configuration of MH210.

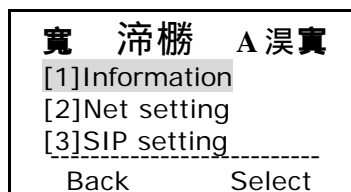
- (1) Settings from MH210
- (2) Settings from Web browser

#### 3.1 Settings from MH210

By starting MH210 in the system setting mode, the configuration data can be registered, displayed, and modified.

Procedure for starting MH210 in the system setting mode

- (1) “Power off” state
- (2) Simultaneously press [4]+[9]+[達] to power on MH210.  
“System Setting” displays.
- (3) Press [FNC].  
Menu items display.



**\* MH210 remains in the system setting mode until power-off.**

Items that can be selected from the system setting menu are as follows:

- [1] Information -- Verification of settings
- [2] Net setting -- Registration and modification of network parameters
- [3] SIP setting -- Registration and modification of SIP parameters
- [4] WLAN setting -- Registration and modification of WLAN parameters

**\* Be sure to perform [2] to [4] at the initial start-up of MH210.**

### 3.1.1 Factory reset

Procedures for resetting all configuration parameters to the state at shipment from the factory are as follow.

Be sure to perform them at the initial start-up of MH210.

Factory reset procedure

- (1) “Power off” state
- (2) Simultaneously press [4]+[9]+[郎]+[遣] to power on MH210.  
“Load Default IP” followed by “System Setting” displays.

Now, all configuration parameters are returned to the state at the shipment from the factory.

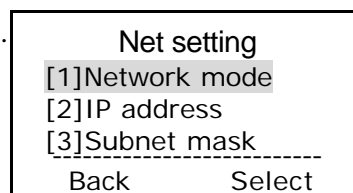
#### Initial Values of Configuration Parameters at Shipment from Factory

Parameter		Default Value
Network mode		Fixed IP
IP address		192.168.0.2
Subnet mask		255.255.255.0
Gateway		192.168.0.1
Server	DNS IP	192.168.0.3
	Port	5061
	Expire time	360
Proxy	Proxy IP	192.168.0.255
	Proxy port	5061
User account	Phone number	3
	User name	NEC
	User password	1111
Network mode		Public
ESSID		NEC
Channel		Auto
Rate		Auto
WEP select		None

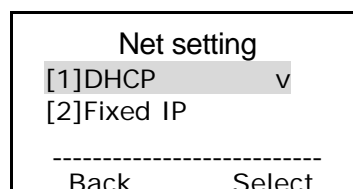
\* MH210 remains in the system setting mode until power-off.

### 3.1.2 Net setting

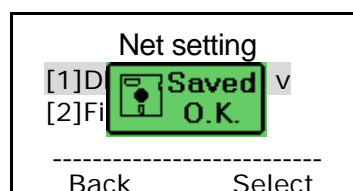
After System setting mode,  
Press [築]/[嵩] or [2]⇒ to select Net setting.



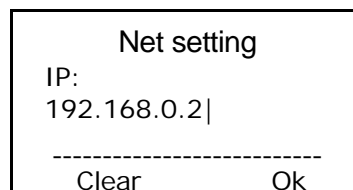
3.1.2.1 Network mode Press [築]/[嵩] or press [1],[2]  
⇒Select the Network mode of handset.  
If select Fixed IP, refer to 3.1.2.2.



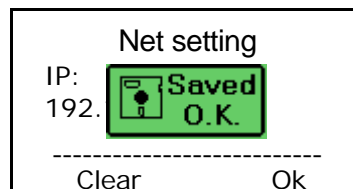
Press Select [鄧] ⇒ to confirm the setting.



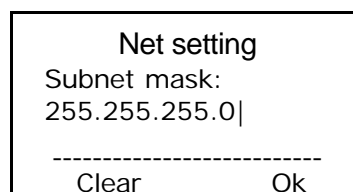
3.1.2.2 IP address Input the IP address of handset.



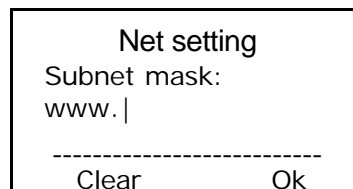
Press Ok [郷] ⇒ to confirm the setting.



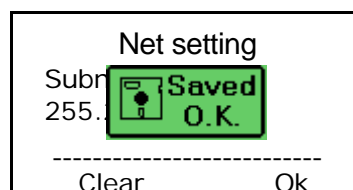
3.1.2.3 Subnet mask Input the Subnet mask of handset.



or Press [SHIFT] ⇒input the Subnet mask of handset.



Press Ok [鄧] ⇒ to confirm the setting.





### 3.1.2.4 Gateway

Input the Gateway of handset.

Net setting  
Gateway:  
192.168.0.1
Clear Ok

or Press [SHIFT] ⇒input the Gateway of handset.

Net setting  
Gateway:  
www.
Clear Ok

Press Ok [鄧] ⇒to confirm the setting.

Net setting  
Gate  
192. Saved O.K.  
-----  
Clear Ok

### 3.1.3 SIP setting

After System setting mode,

Press [桀]/[髙] or [3] ⇒ to select SIP setting

SIP setting  
[1]Server  
[2]Proxy  
[3]User account  
-----  
Back Select

[1] Server—setup server value “DNS IP”/ “Port” / “Expire time”

[2] Proxy—setup SIP server setting, Proxy value “Proxy IP”/ “Proxy port”

[3] User account—setup User account “Phone number”/ “User name” / “User password”

#### 3.1.3.1 Server

##### ◆DNS setting

Press [桀]/[髙] Or press [1] ⇒to set DNS IP number

Press Select [鄧] ⇒to confirm the select

SIP setting  
[1]DNS IP  
[2]Port  
[3]Expire time  
-----  
Back Select

Press [0]~[9] ⇒ to input the DNS IP number.

Ex. 192.168.0.3

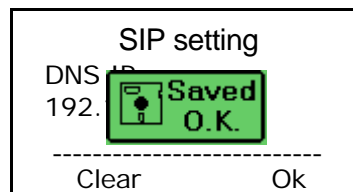
Press Clear[郷] ⇒ to modify the number.

SIP setting  
DNS IP:  
192.168.0.3
Clear Ok

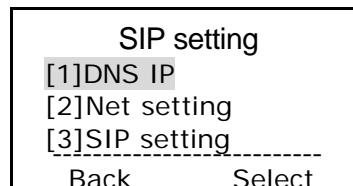
or Press [SHIFT] ⇒input the DNS IP of handset.

SIP setting  
DNS IP:  
www.
Clear Ok

Press Ok [鄧] ⇒ to confirm the setting.



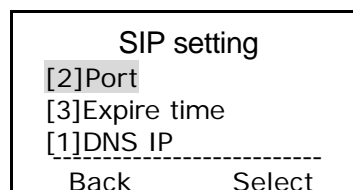
Then the LCD shows.



◆Port

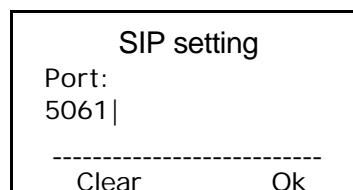
Press [築]/[髙] Or press [2]⇒to set Port number

Press Select [鄧] ⇒to confirm the select

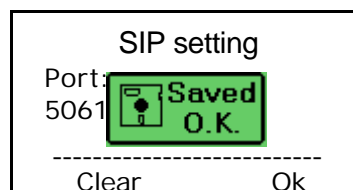


Press [0]~[9] ⇒ to input the Port number.  
Ex. 5061

Press Clear[郷] ⇒ to modify the number.



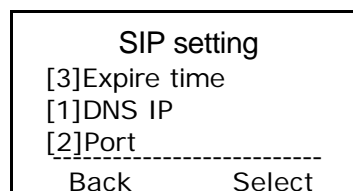
Press Ok [鄧] ⇒ to confirm the setting.



◆Expire time

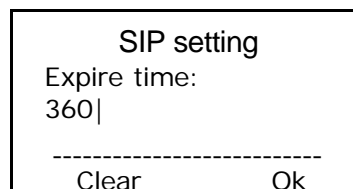
Press [築]/[髙] Or press [3]⇒to set Expire time

Press Select [鄧] ⇒to confirm the select

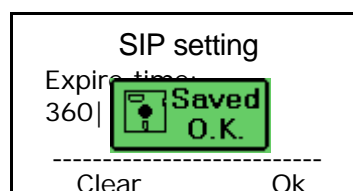


Press [0]~[9] ⇒ to input the Expire time.  
Ex. 360

Press Clear[郷] ⇒ to modify the number.

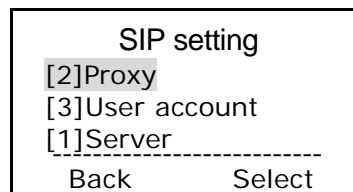


Press Ok [鄧] ⇒ to confirm the setting.



### 3.1.3.2 Proxy

Press [栞]/[髙] Or press [2]⇒ to choose “Proxy” mode.

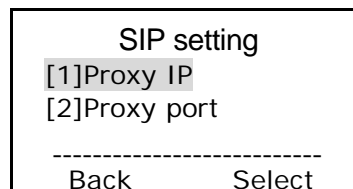


Press Select [鄧] ⇒ to confirm the setting.

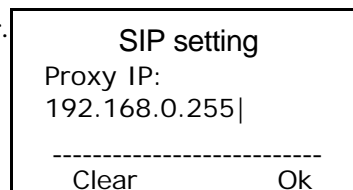
#### ◆Proxy IP

Press [栞]/[髙] Or press [1]⇒ to set Proxy IP number

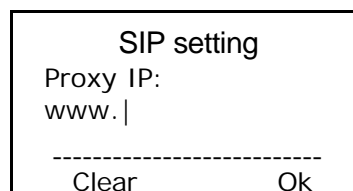
Press Select [鄧] ⇒ to confirm the select



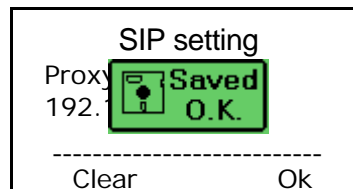
Press [0]~[9] ⇒ to input the Proxy IP number.  
Ex. 192.168.0.255  
Press Clear[郷] ⇒ to modify the number.



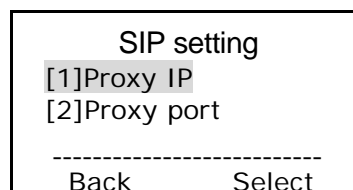
or Press [SHIFT] ⇒ input the Proxy IP of handset.



Press Ok [鄧] ⇒ to confirm the setting.



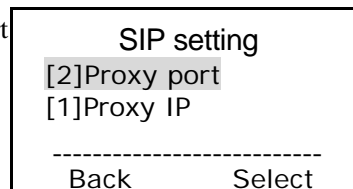
Then the LCD shows.



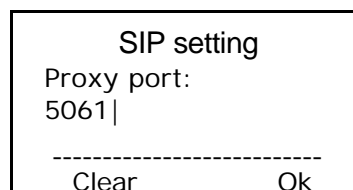
#### ◆Proxy port

Press [栞]/[髙] Or press [2]⇒ to set Proxy port number

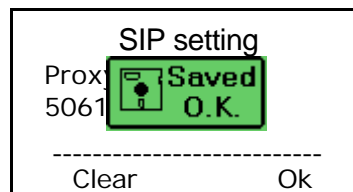
Press Select [鄧] ⇒ to confirm the select



Press [0]~[9] ⇒ to input the Proxy port number.  
Press Clear[郷] ⇒ to modify the number.

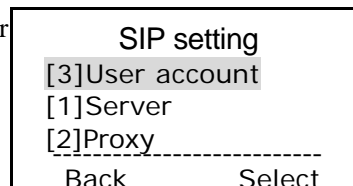


Press Ok [鄧] ⇒ to confirm the setting.



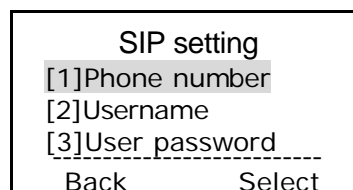
### 3.1.3.3 User account

Press [槩]/[髙] Or press [3]⇒ to choose “User account” mode.

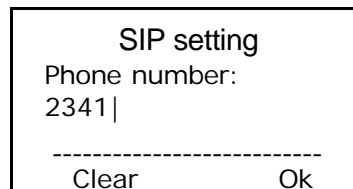


#### ◆ Phone number setting

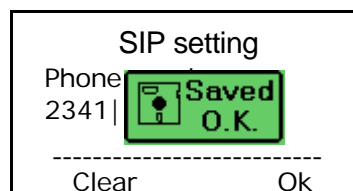
Press Select [鄧] ⇒ to confirm the setting.  
Press [槩]/[髙] Or press [1]⇒ to set Phone number  
Press Select [鄧] ⇒ to confirm the select



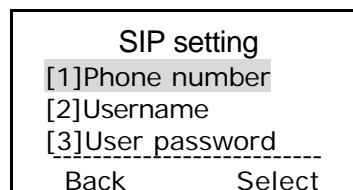
Press [0]~[9] ⇒ to input the Phone number.  
Ex. 2341  
Press Clear[郷] ⇒ to modify the number.



Press Ok [鄧] ⇒ to confirm the setting.

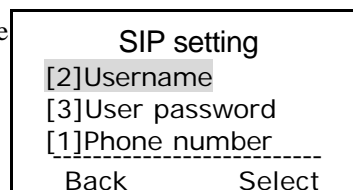


Then the LCD shows.

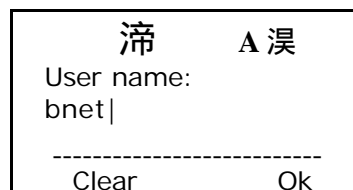


#### ◆ User name setting

Press [槩]/[髙] Or press [2]⇒ to set Username  
Press Select [鄧] ⇒ to confirm the select

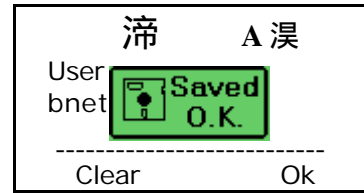


Input user name.  
Ex. bnet  
Press Clear[郷] ⇒ to modify the number.



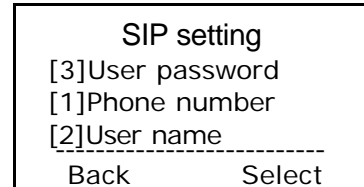
Press [SHIFT] to change the lower case or upper case mode or numeral mode during editing.

Press Ok [鄧] ⇨ to confirm the setting.

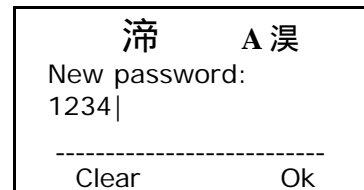


◆ User password

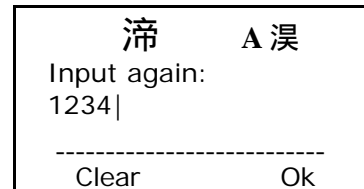
Press [槩]/[髙] Or press [3]⇨to set User password  
Press Select [鄧] ⇨to confirm the select



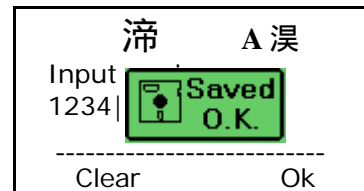
Input user password.  
Ex. 1234  
Press Clear[郷] ⇨ to modify the number.



Input user password again.  
Ex. 1234  
Press Clear[郷] ⇨ to modify the number.



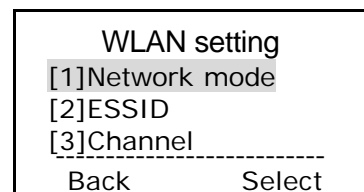
Press Ok [鄧] ⇨ to confirm the setting.



3.1.4 WLAN setting

After System setting mode,

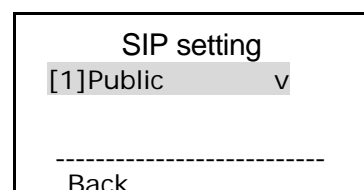
Press [槩]/[髙] or [4]⇨ to select WLAN setting



Press [槩]/[髙] Or [1], [2], [3], [4] ⇨ to select [1]Network mode/ [2]ESSID/ [3]Channel/ [4]Rate/ [5]WEP select

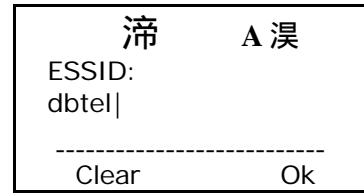
3.1.4.1 Network

Press [1]⇨to select Public

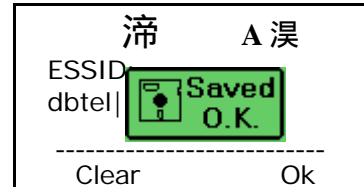


### 3.1.4.2 ESSID

Input ESSID number.  
Ex. dbtel  
Press Clear[郷] ⇒ to modify the number.

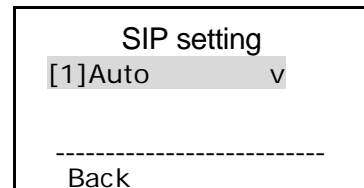


Press Ok [鄧] ⇒ to confirm the setting.



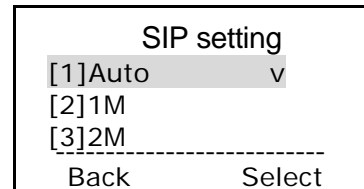
### 3.1.4.3 Channel

Press [1]⇒to select Auto

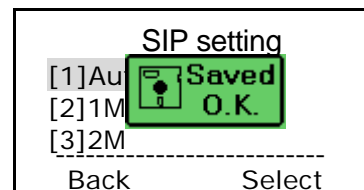


### 3.1.4.4 Rate

⇒ to setup Rate.  
Press [築]/[髙] Or [1], [2], [3], [4], [5]  
⇒ to select[1]Auto/ [2]1M/ [3]2M/ [4]5.5M/  
[5]11M

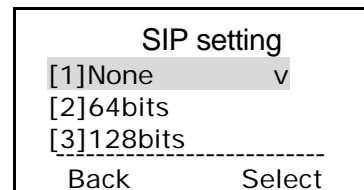


Press Select [鄧] ⇒ to confirm the setting.

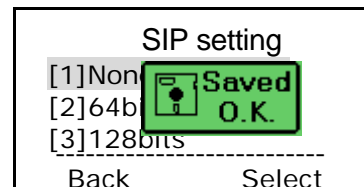


### 3.1.4.5 WEP select

⇒ to setup WEP select.  
Press [築]/[髙] Or [1], [2], [3]  
⇒ to select[1]None/ [2]64bits/ [3]128bits

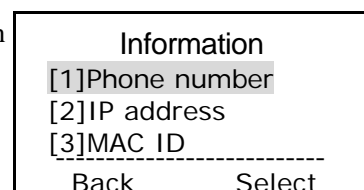


Press Select[鄧] ⇒ to confirm the setting.



## 3.1.5 Information

After System setting mode,  
Press [築]/[髙] or [1]⇒ to select Information



3.1.5.1 Phone number View the phone number of handset.  
Ex. The phone number is 3

<b>Information</b>
Phone number: 3
-----
Back

3.1.5.2 IP address View the IP address of handset.  
Ex. The IP address is 192.168.0.2

<b>Information</b>
IP address: 192.168.0.2
-----
Back

3.1.5.3 MAC ID View the MAC ID of handset.  
Ex. The MAC ID is 00026bff0123

<b>Information</b>
MAC ID: 00026bff0123
-----
Back

3.1.5.4 Firmware ver. View the Firmware version of handset.  
Ex. The Firmware version is WD.00.0A

<b>Information</b>
Firmware ver: WD.00.0A
-----
Back

3.1.5.5 Hardware ver. View the Hardware version of handset.  
Ex. The Hardware version is DB168 ver0.1

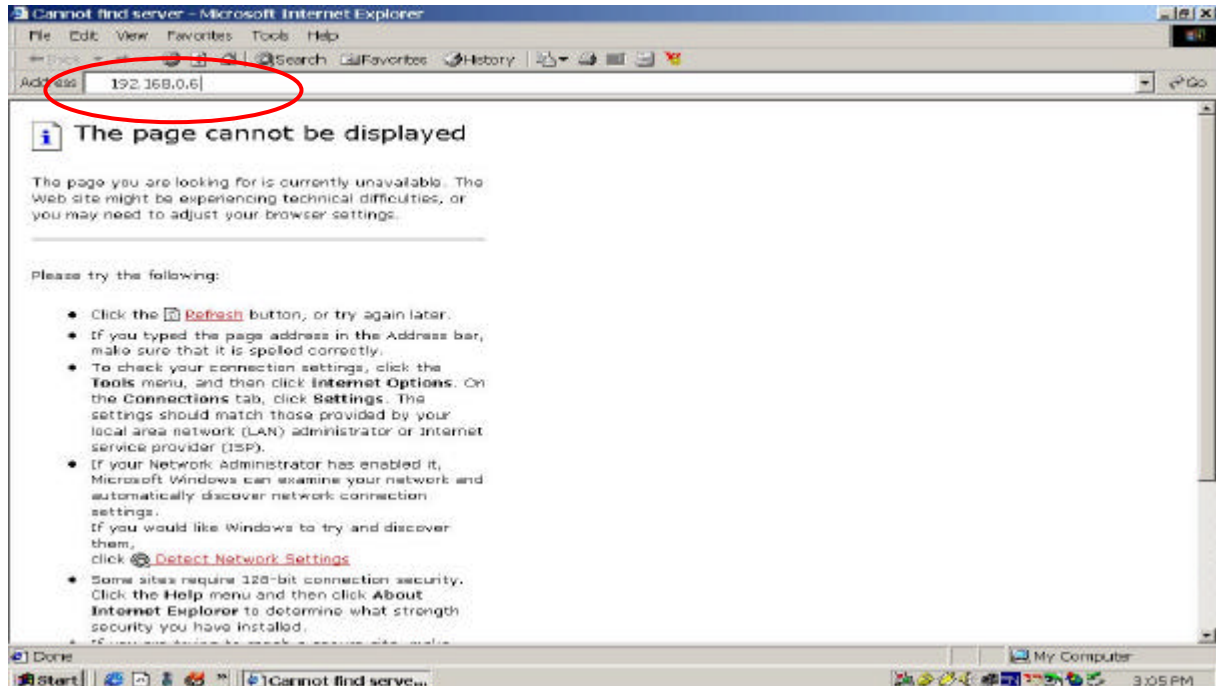
<b>Information</b>
Hardware ver: DB168 REV:0.1
-----
Back

## 4. Firmware Download Procedure for MH210

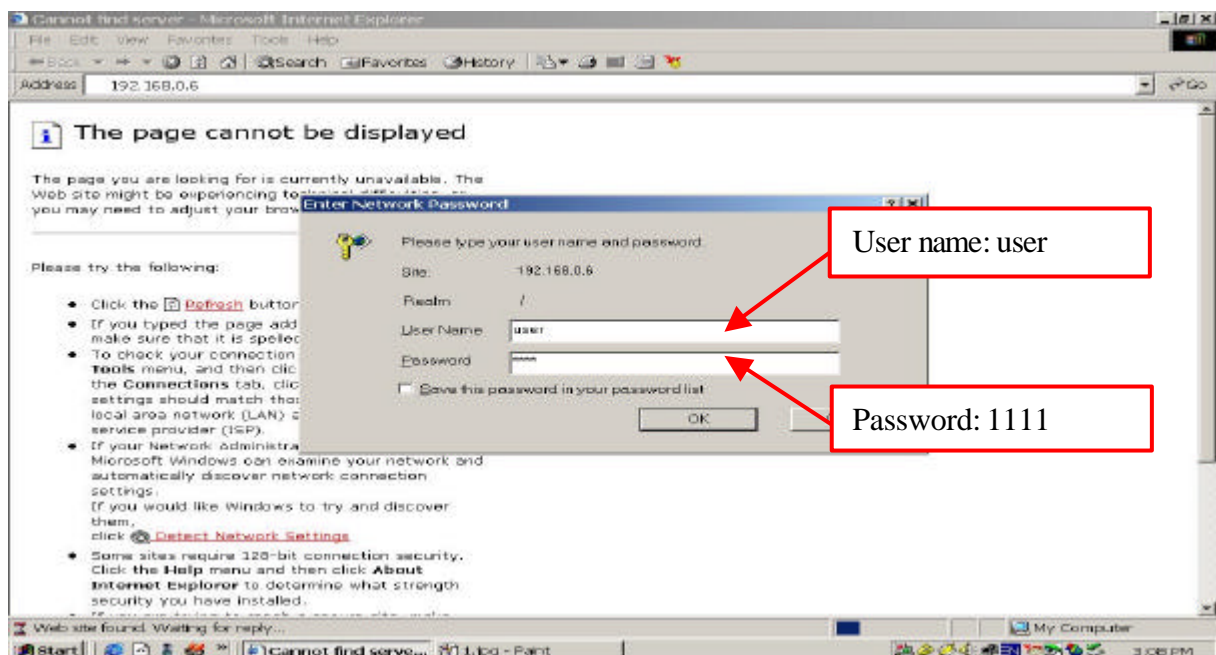
To download firmware to MH210, a Web Browser (Internet Explorer version 6.0 or later) is required.

### **How to update firmware via Web browser (For later than WD000B3)**

1. Turn on the handset and ensure the AP signal is connected.
2. Browse with the handset IP address, for example 192.168.0.6

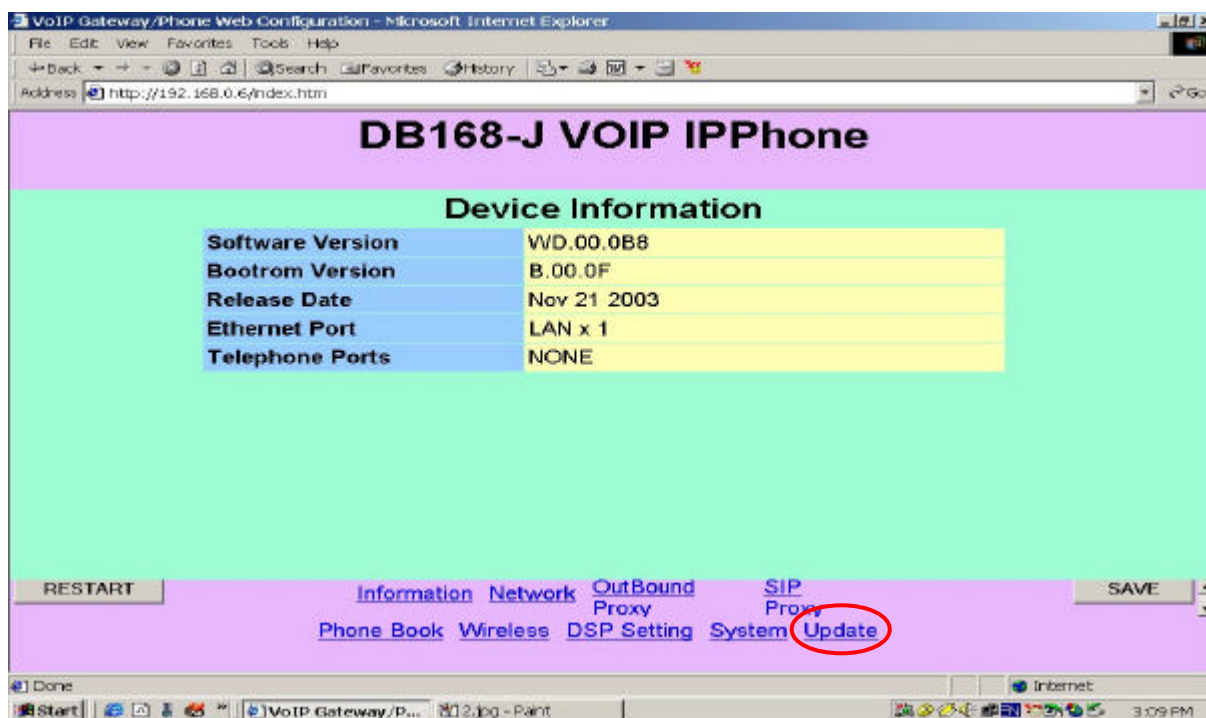


3. There comes up the screen: User Name: user, Password: 1111.  
Click OK after entering user name and password.

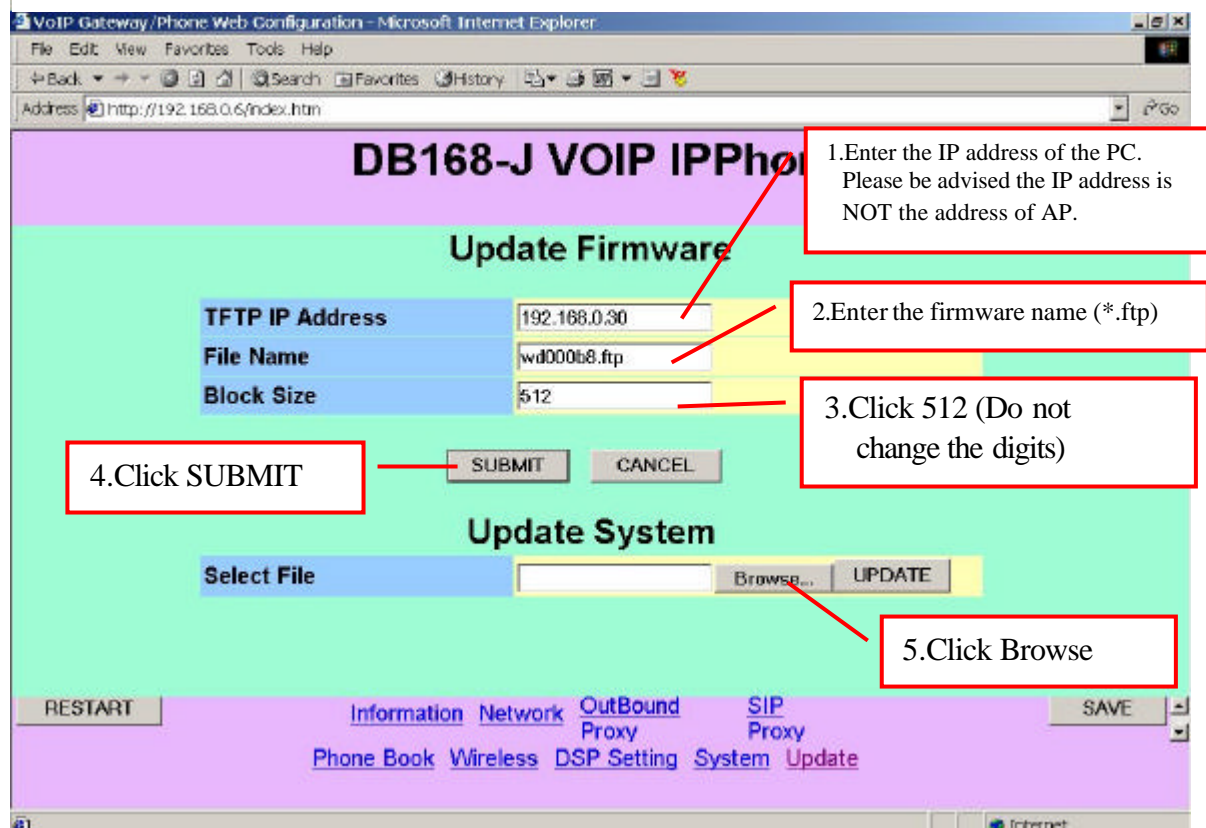




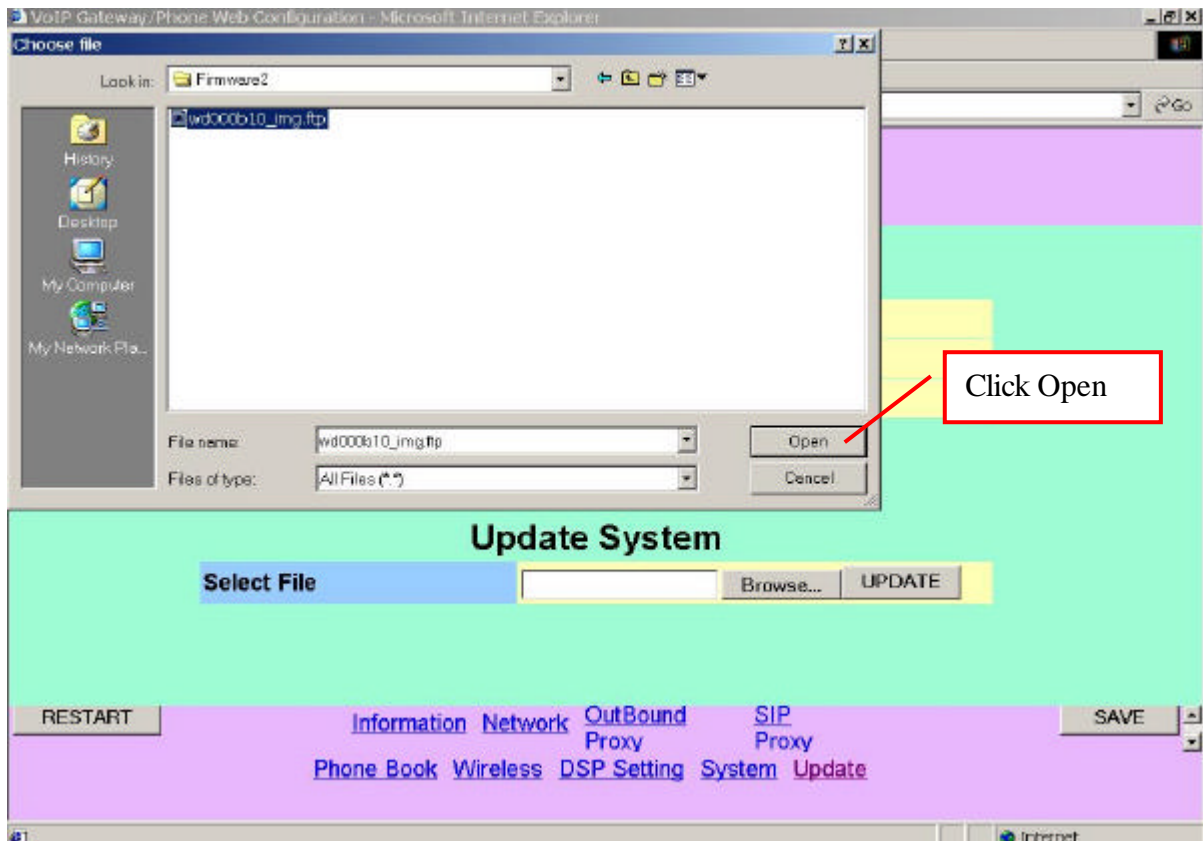
4. The setting screen comes up. The screen contains the contents of the Information folder of the handset.  
Click "Update" to display the update setting screen.



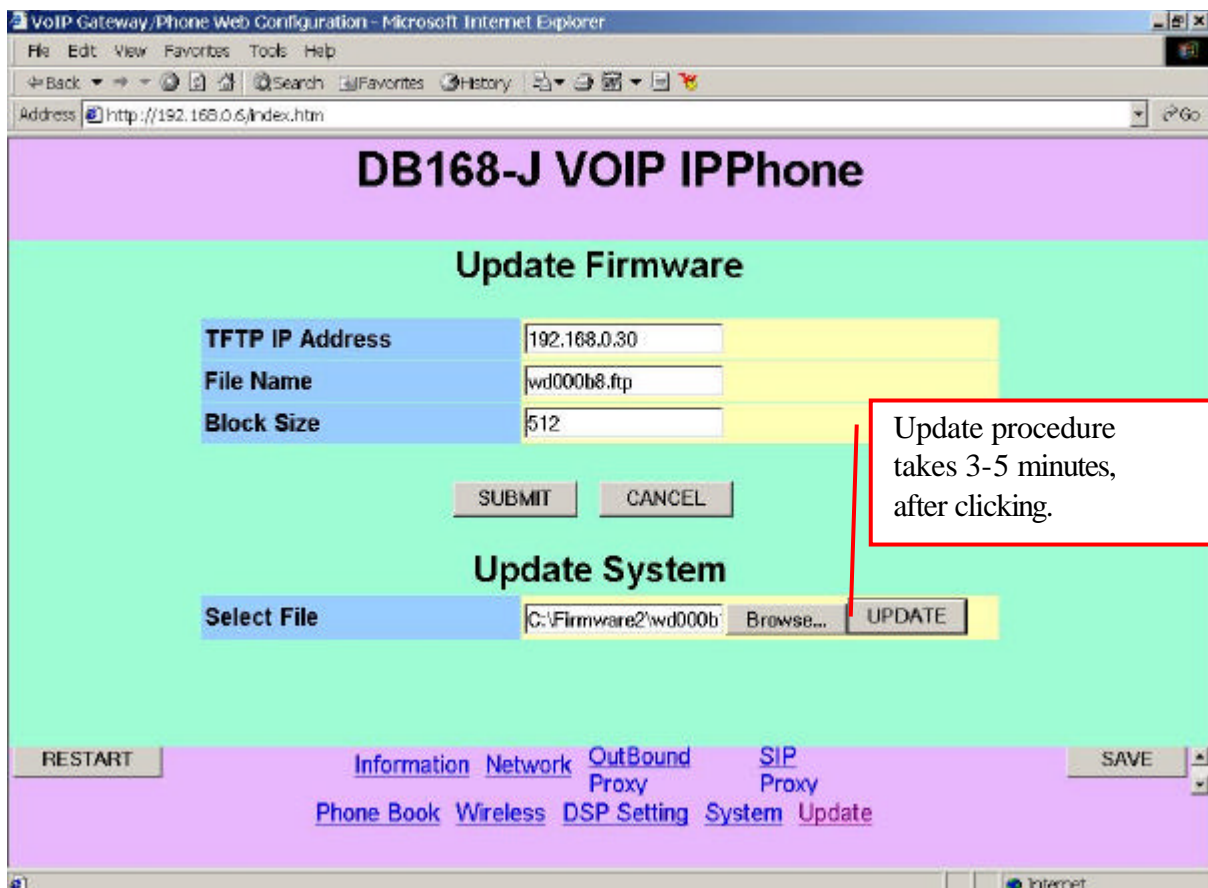
5. The Update setting screen:



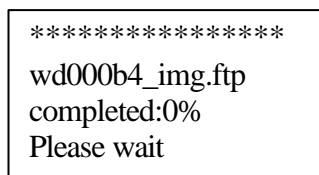
6. Specify the route that the firmware is to be updated.



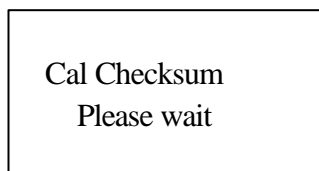
7. The update procedure starts when clicking UPDATE.



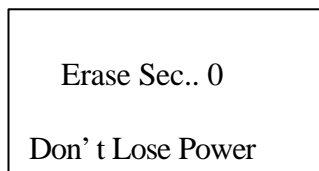
8. The handset displays the below screen when the update starts:



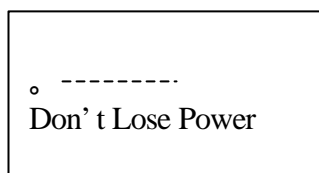
9. When the update is completed (100%), the handset show up; please wait for seconds.



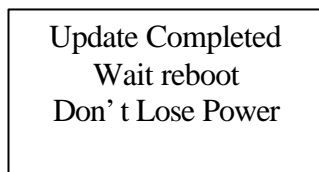
10. The following procedure takes about 40 seconds; Please ensure not to turn off the handset, and ensure the power supply is sufficient for running procedure. To shutdown the power during this procedure might cause the fatal damage to the FLASH.



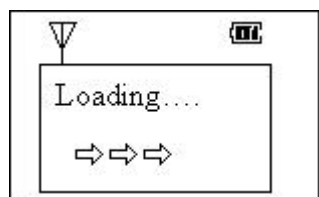
11. The icon “arrow” runs left to right about 10 seconds. Please ensure not to turn off the handset, and ensure the power supply is sufficient for running procedure.



12. The below screen tells the update procedure is completed. The handset will re-start. Please ensure not to turn off the handset, and ensure the power supply is sufficient for running procedure..



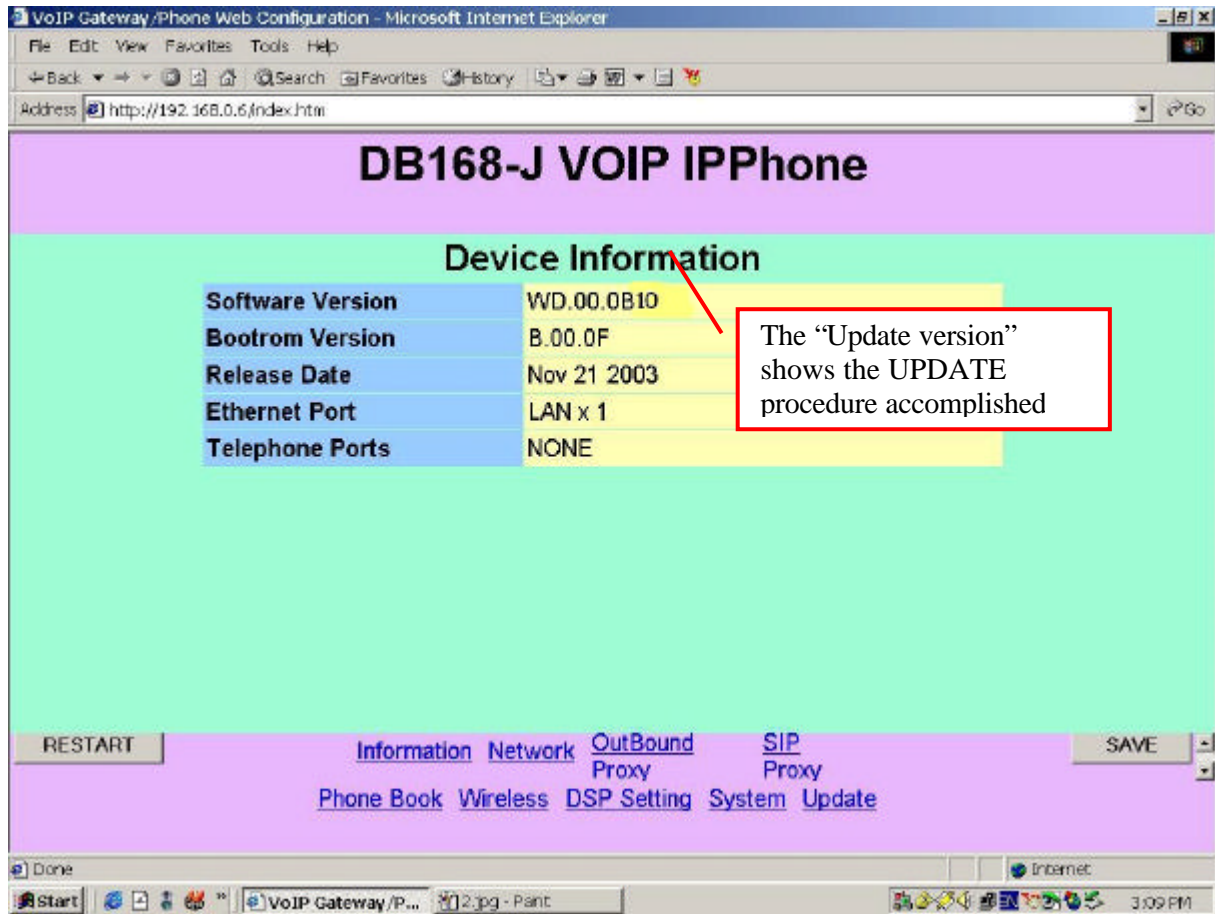
13. After the handset starts, the below screen comes up and the handset will restart again.:



**\* The handset restarts again.**

14. After the second handset re-start is finished, the complete update procedure is finished.

15. Please click the “Information” to ensure the Software Version item is changed to the new version of the update firmware.



## 5. List of Configuration Menu

Simultaneously press [4]+[9]+[**障**] at the “Power off” state, then press [FNC] to display configuration menu.

Menu	Parameter	
[1] Information	[1] Phone number	
	[2] IP address	
	[3] MAC ID	
	[4] Firmware ver.	
	[5] Hardware ver.	
[2] Net setting	[1] Network mode	[1] DHCP
		[2] Fixed IP
	[2] IP address <b>(Note)</b>	
	[3] Subnet mask <b>(Note)</b>	
	[4] Gateway <b>(Note)</b>	
[3] SIP setting	[1] Server	[1] DNS IP
		[2] Port
		[3] Expire time
	[2] Proxy	[1] Proxy IP
		[2] Proxy port
	[3] User account	[1] Phone number
		[2] User name
[3] User password		
[4] WLAN setting	[1] Network mode	[1] Public
	[2] ESSID	
	[3] Channel	Channel 1
		Channel 2
		:
		Channel 11
	[4] Rate	[1] Auto
		[2] 1M
		[3] 2M
		[4] 5.5M
[5] 11M		
[5] WEP select	[1] None	
	[2] 64 bits	
	[3] 128 bits	

**Note: When DHCP is selected, this item cannot be edited.**

## Federal Communication Commission Interference Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

FCC Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

### **IMPORTANT NOTE: FCC Radiation Exposure Statement:**

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. End users must follow the specific operating instructions for satisfying RF exposure compliance.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Body-worn operations are restricted to beltclips, holsters or similar accessories that have no metallic component in the assembly.