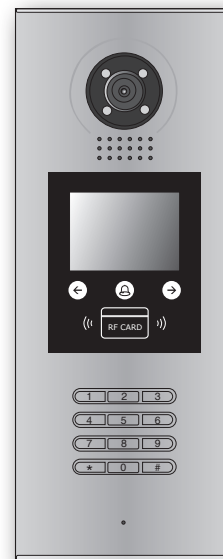


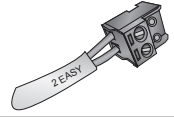
Apartment Intercom System  
2-wire series

# DigiOpen

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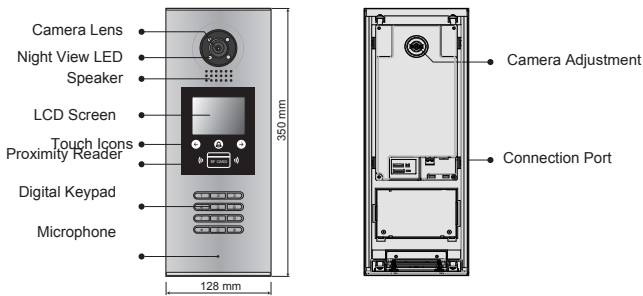




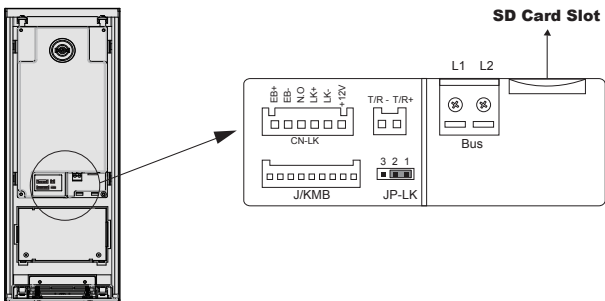
### DESCRIPTION

An upgrade of DMR18, DMR18S is more stable and has a few new functions such as touch sensitive icons, easy upload via SD card of namelist, voice prompt, etc. , which brings clients fresh and modernized experience. And for convenience, users can upgrade UI and Voice via SD card by themselves.

### PARTS AND FUNCTIONS



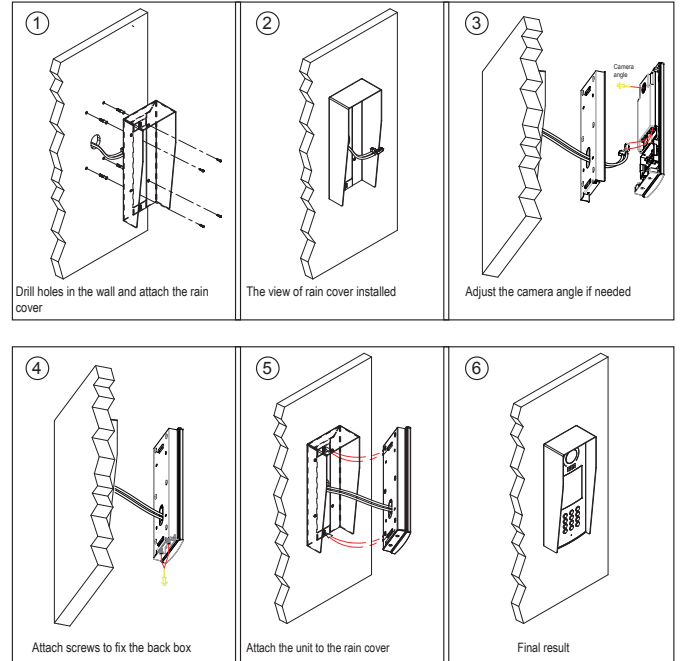
### TERMINAL DESCRIPTION



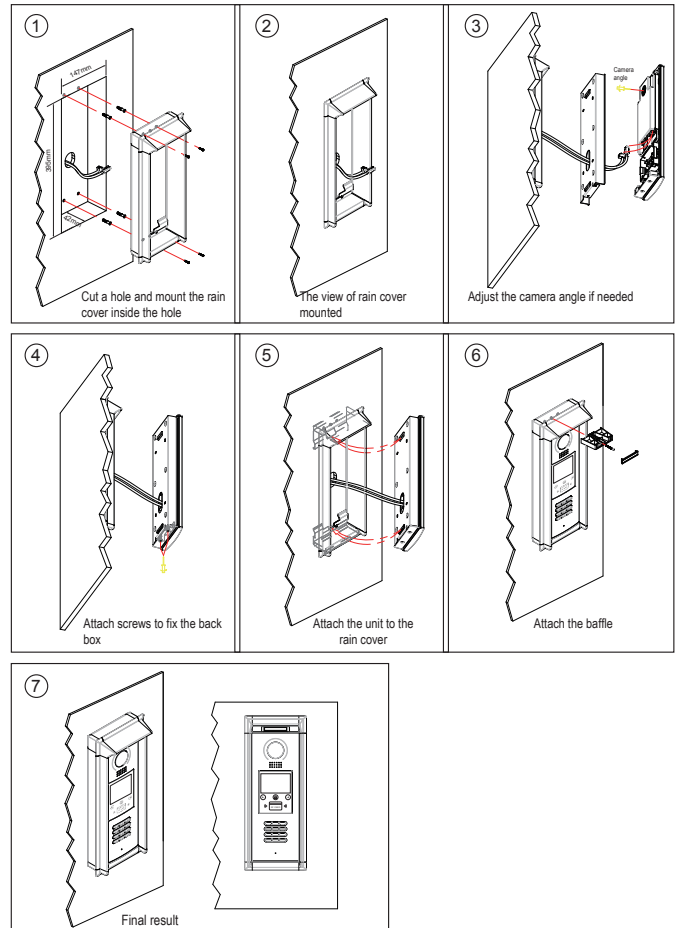
- **+12V:** 12VDC power output
- **LK-(GND):** Power ground
- **LK+(COM):** Common contact of the relay
- **NO.:** Normally open contact of the relay
- **EB+:** Exit button connection port
- **EB-:** Exit button connection port
- **JP-LK:** Electric locks type setting
- **T/R-:** USB-RS485 communication terminal negative
- **T/R+:** USB-RS485 communication terminal positive
- **Bus(L1,L2):** no-polarity bus line

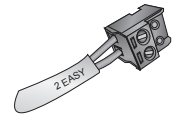
### MOUNTING

#### Surface mounting

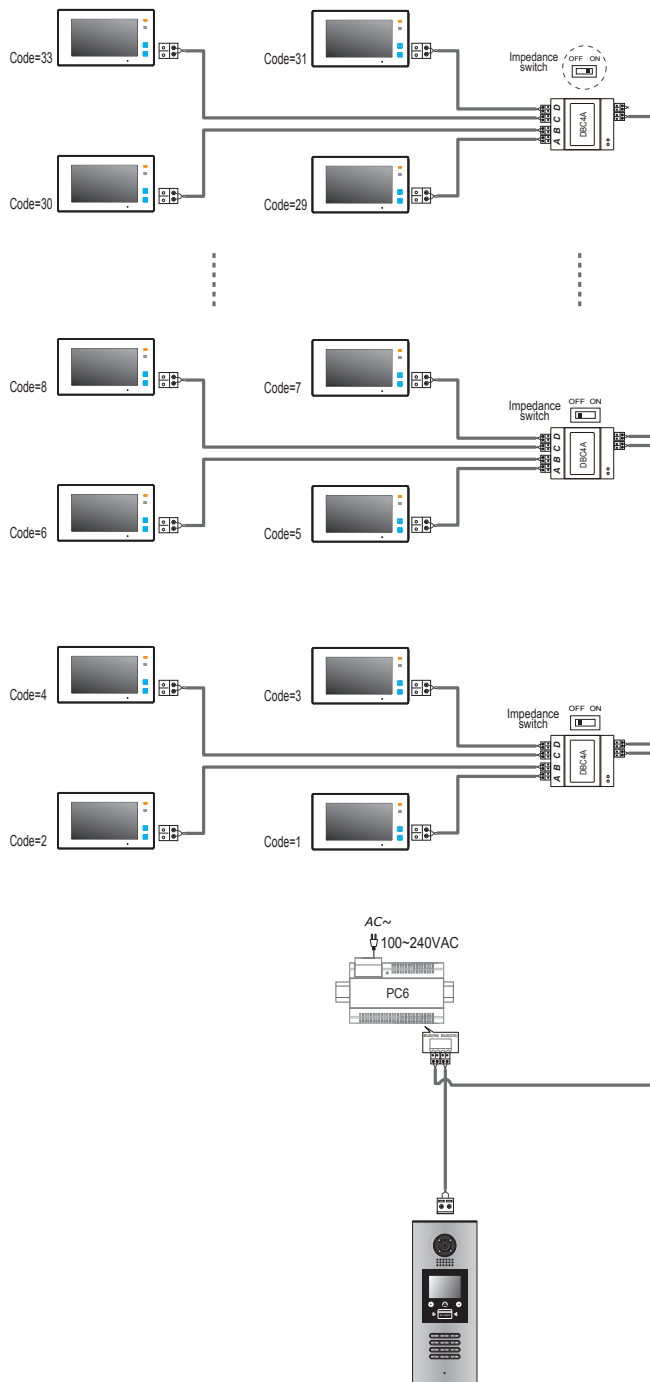


#### Flush mounting





### SYSTEM CONNECTION

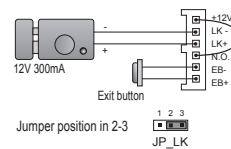


### ELECTRIC LOCK CONNECTION

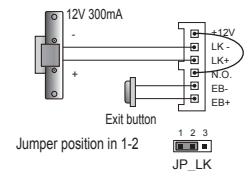
#### 1) Door Lock Controlled with Internal Power

1. The lock is limited to 12Vdc, and holding current must be less than 250mA when using internal power supply mode
2. The Unlock Mode Parameter must be set to 0 (default)
3. Jumper set to 1-2 position for Power-off-to-Unlock (*Normally closed mode*); set to 2-3 position for Power-on-to-Unlock type (*Normally open mode*)

#### Power-on-to-Unlock type:



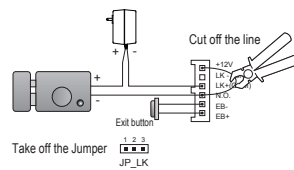
#### Power-off-to-Unlock type:



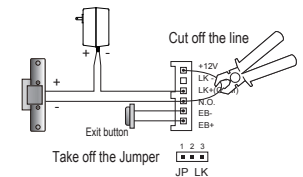
#### 2) Door Lock Controlled with External Power

1. The external power supply must be used according to the lock
2. The jumper must be taken off BEFORE CONNECTING
3. Setup the **Unlock Mode Parameter** for different lock types
  - Power-on-to-Unlock type: Unlock Mode=0 (default)
  - Power-off-to-Unlock type: Unlock Mode=1

#### Power-on-to-Unlock type:

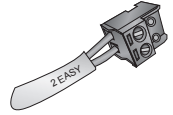


#### Power-off-to-Unlock type:



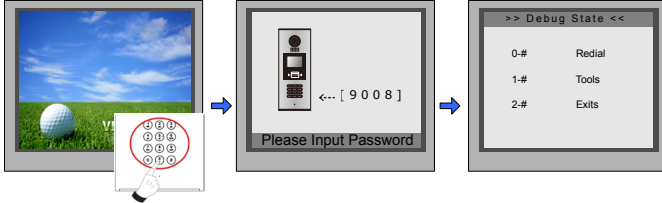
### DOOR STATION SPECIFICATION

- Power supply: DC24V
- Camera Lens: 1/4 ACS 4T image sensor
- Power consumption: Standby 33mA; Working status 157mA
- Screen: 3.5 inch TFT
- Resolution: 320(R, G, B)X240 pixels
- Video signal: CCIR/EIA optional
- Wiring: 2-wire, no-polarity
- Dimension: H350×W128×D46mm



### DEBUG MODE

The Debug Mode is your starting point for using all the applications on DMR18S



When door station is in standby, press '#' key  
 Input 9008, then type-in Admin Code(66666666)  
 Debug mode menu is launched

Description:

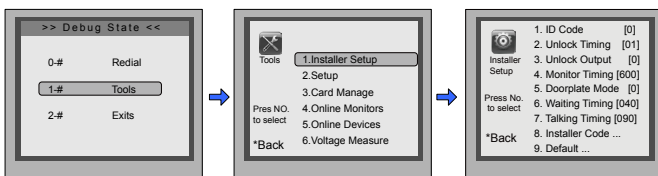
- 0-#: Call Monitor again
- 1-#: Go to Tools
- 2-#: Exit Debug Mode

### TALK VOLUME ADJUSTMENT

In **Debug Mode**, type-in 0# 'Redial' to change Talk Volume levels. From 0~9 max



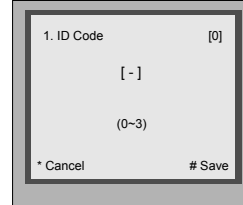
### INSTALLER SETUP



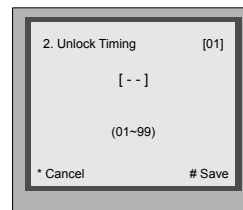
In debug mode, type-in 1# to enter tools  
 Type-in 1 to enter Installer setup  
 Installer setup page overview

Description:

**1.ID Code:** If more than one door station in one system, they need to be assigned unique ID Code. Type-in 1 to enter **ID Code** setting. You can set ID of Door Station here: 0~3 to set as Door Station 1 ~ Door Station 4



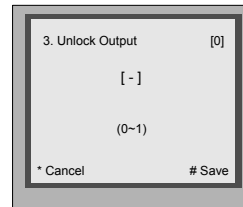
**2.Unlock Timing:** Type-in 2 to enter **Unlock Timing** setting. You can set Unlocking time between 01~99s



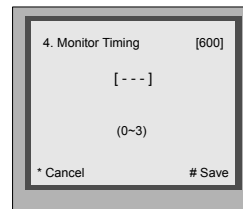
**3.Unlock Output:** Type-in 3 to enter **Unlock Output** setting.

0 : Power-on-to-Unlock mode

1 : Power-off-to-Unlock mode



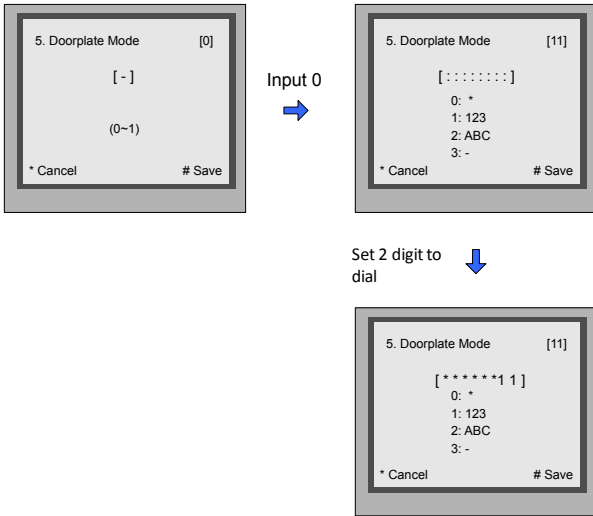
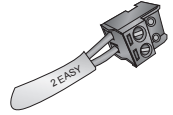
**4.Monitor Timing:** type-in 4 to enter **Monitor Timing** setting  
 You can set monitoring time between 006~600s



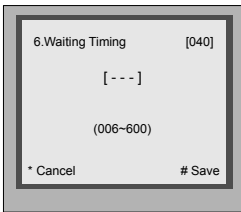
**5.Doorplate Mode:** Type-in 5 to enter **Doorplate Mode** setting

0 : To call by just a number

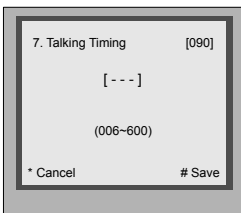
1 : To call by a number + '#'



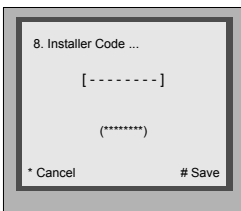
**6.Waiting Timing:** Type-in 6 to enter **Waiting Timing** setting. You can set waiting time between 006~600s



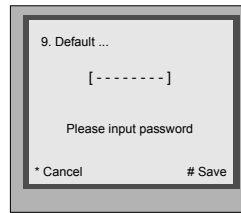
**7.Talking Timing:** Type-in 7 to enter **Talking Timing** setting. You can set talking time between 006~600s



**8.Installer Code:** Type-in 8 to enter **Installer Code** setting. (Set 8 digit Installer password).



**9.Default:** Type-in 9 to enter **Default** setting. Type-in the Admin password to restore to a factory default



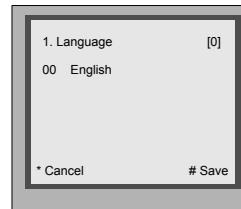
## SETUP



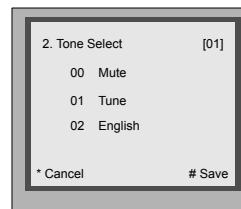
In debug mode, type-in 1# to enter Tools      type-in 2 to enter Setup      Setup page overview

### Description:

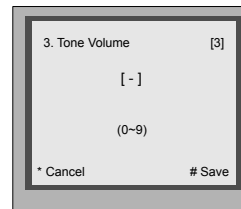
**1.Language:** Type-in 1 to enter **Language** setting. Select the language you need

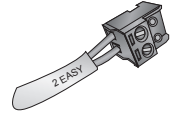


**2.Tone Select:** Type-in 2 to enter **Tone Select** setting. Select the Ringtone you want



**3.Tone Volume:** Type-in 3 to enter **Tone Volume** setting. The setting range is between 0 ~ 9



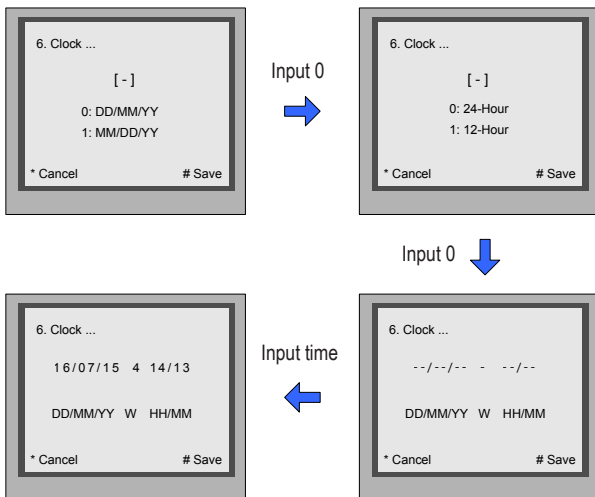


**4.Unlock Code:** Type-in 4 to enter **Unlock Code** setting. Default unlocking code is 1111. Type-in 4 digit numbers to set a new code (Exception numbers: 8001~8019 and 9008)

**5.Work Mode:** Type-in 5 to enter **Work Mode** setting. Four modes are available,the setting range is 0~3.(More details refer to the following **Work Mode** section)

- 0 : 32 apartments
- 1 : 128 apartments
- 2 : Router
- 3: Gateway

**6.Clock:** Type-in 6 to enter **Clock** setting



**7.Setup Code:** Type-in 7 to enter **Setup Code** setting. Input 8 digits to set a new setup code, then press '#' to save

**8.About:** Type-in 8 to enter **About** page. The information includes Hardware version, Software Version etc.

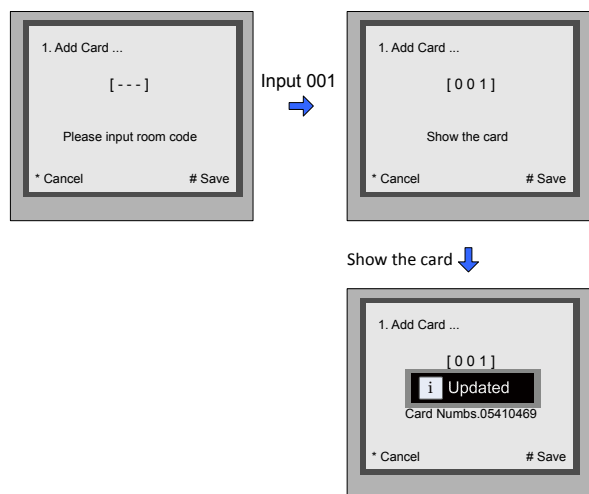
**9.Default:** Type-in 9 to enter **Default** setting. Input setup code to restore to a factory default

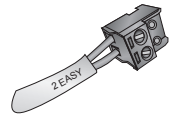
### CARD MANAGEMENT



In debug mode, type-in 1# to enter Tools      Type-in 3 to enter Card Manage      Card Manage page overview

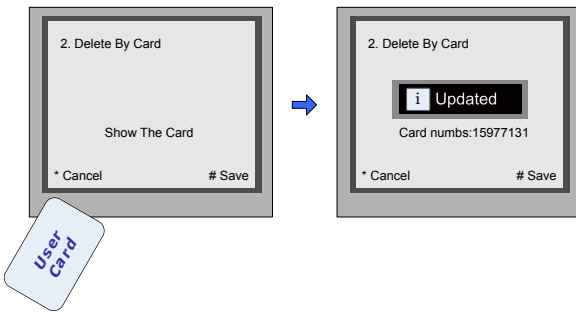
**1.Add Card:** Type-in 1 to enter **Add Card** setting



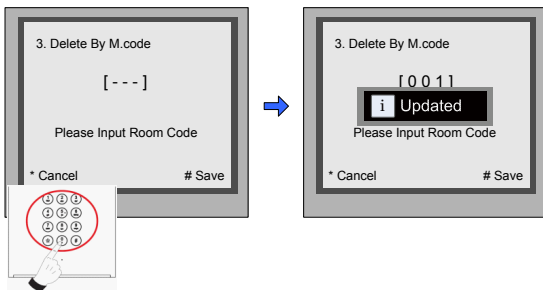


## 2.Delete Card:

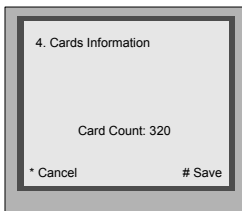
- Press 2 to enter Delete By Card



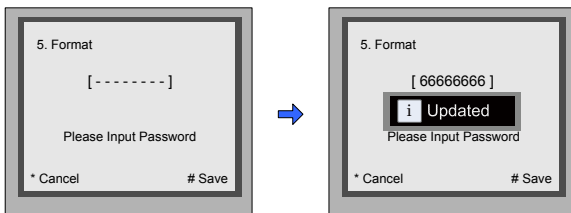
- Press 3 to enter Delete By Monitor code



**3.Card Information:** Press 4 to enter **Card Information** page, the card count will be showed

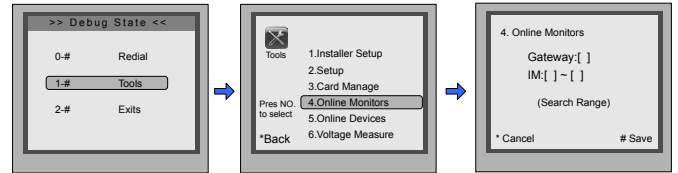


**4.Format:** Press 5 to enter **Format** page. Input 8 digits password to start formatting



## ONLINE MONITORS

To search the Gateway and Online Monitors,input the monitor code number to search



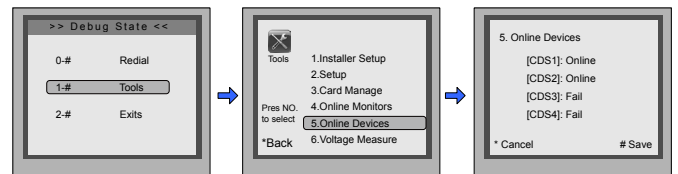
In debug state, press 1# to enter Tools

Press 4 to enter Online Monitors

Input the search range, then press # to start search

## ONLINE DEVICES

To search the online door stations and the other accessories



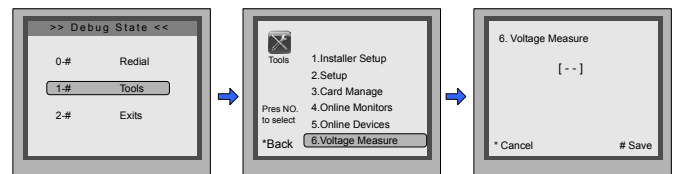
In debug state, press 1# to enter Tools

Press 5 to enter Online Devices

All devices online or offline will be showed

## VOLTAGE MEASURE

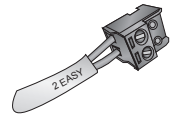
To check the voltage of the monitor the monitor must be online



In debug state,press 1# to enter Tools

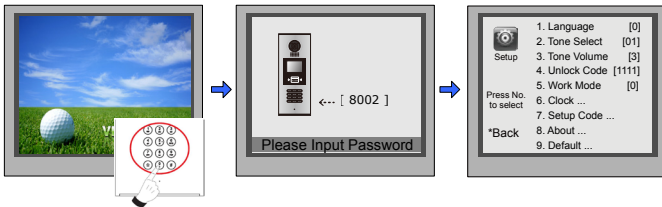
Press 6 to enter Card Manage

Input the code, then press # to search



### DEFINITION

Total four different work modes are available for DMR18S to accommodate different situations. In standby mode, input #8002 + 66666666 and press 5 to enter **Work Mode** setting page



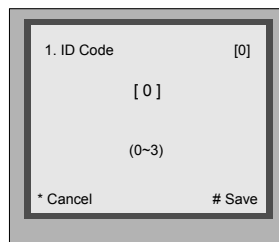
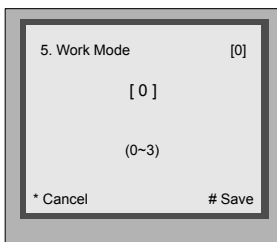
When door station is in standby, press # key    Input 8002, then Admin Code 66666666 (default)    Press 5 to enter Work Mode

### 32 APARTMENTS

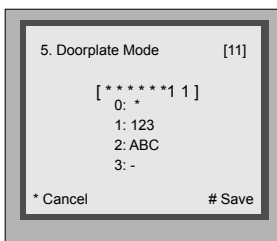
**Work Mode** set to 0;

The **Standard Mode** is applied in a small capacity system, which monitors are under 32 and without BDU unit. Generally dial 01~32 to call the monitor.

Work Mode set to **0**, and ID code set to **0~3**.



**Input Mode:** In standby mode. Input #8001+ Code ( 66666666 by default), then select " 5 " item to set the **Doorplate Mode**, for example input the code 15 to call the monitor.

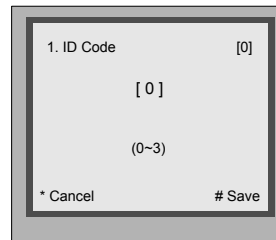
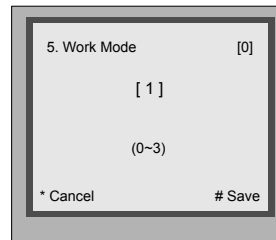


### DT-DJ MODE FOR AUDIO ONLY MONITORS

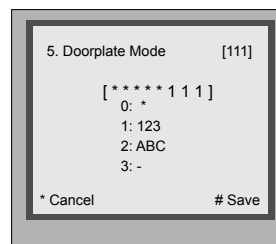
**Work Mode** set to 1:

**Up to 128 Audio Only Monitors can be connected.** The **DT-DJ Mode** can assign the address from 001 to 128 without need of BDU

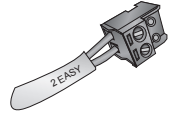
Work Mode set to **1**, and ID code set to **0~3**



**Input Mode:** In standby mode. Input #8001+ Code ( 66666666 by default), then select " 5 " item to set the **Doorplate Mode**, for example input the code 068 to call the monitor.



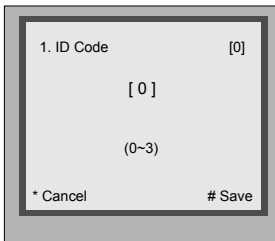
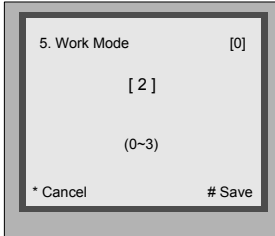




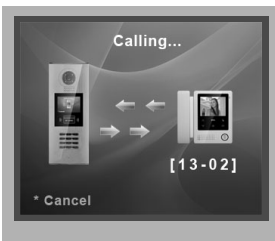
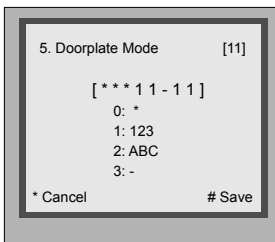
### DT-BDU ROUTER MODE

The **Router Mode** is used for system up to 256 apartments connected with up to 8 x BDUs. The namelist can be updated by SD Card or DT-Config (More details refer to **Update Namelist Section**).

Work Mode Set to **2**, and ID code set to **0~3**.



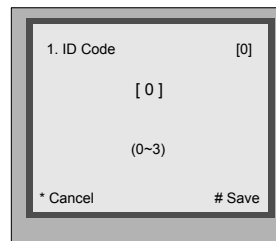
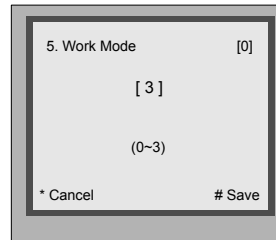
**Input Mode:** In standby mode. Input #8001+ Code ( 66666666 by default), then select “ 5 ” item to set the **Doorplate Mode**, for example input 13-02 to call the monitor. As the following picture shows: 13 means the 13th floor, and 02 means the second room number.



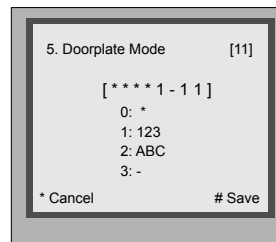
### DT-BDU GATEWAY MODE

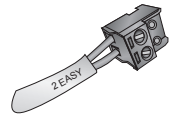
The **Gateway Mode** is used for the community network system, the common door station is connected in the system which can call all the monitors. Besides, if the door station is connected in each block, it can call the monitors in the block.

Work Mode set to **3**, and ID code set to **0~3**.



**Input Mode:** In standby mode. Input #8001+ Code ( 66666666 by default), then select “ 5 ” item to set the **Doorplate Mode**, for example input 3-06 to call the monitor. As the following picture shows: 3 means the third BDU, and 06 means the ID code of monitor is 06.



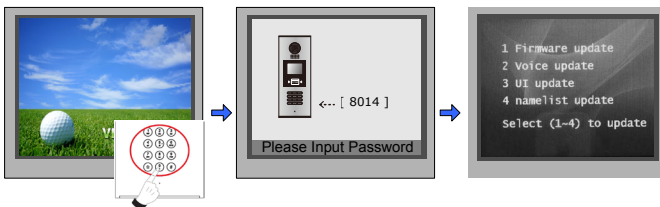


## DESCRIPTIONS

This section is used for the software version V000101 of DMR18S. (After 2015.07.10); In standby mode, please input “##” to check the DMR18S software version, see the following picture shows:



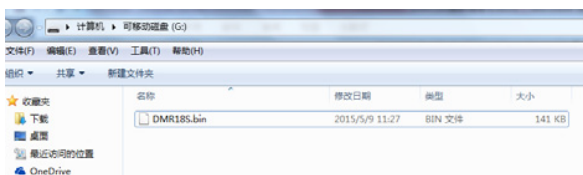
How to enter update page:



When door station is in standby, press '#' key      Input '8014', then input the Code 87625761      Update setting page overview

## SOFTWARE UPDATE

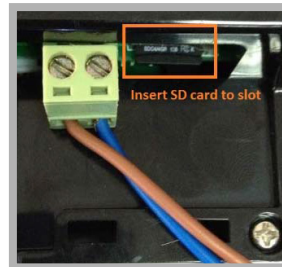
1. Format SD card
2. Copy the update software file( DMR18S.bin,provided by our company ) to SD card by computer.



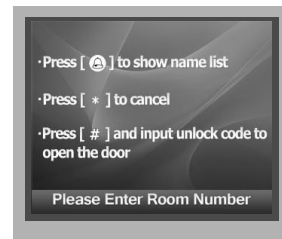
4. Select 1 to enter **Firmware update**, the information of “update ready” will be showed.



5. Insert the SD card to slot, the information of “Download...” will be showed when the updated is in progress. After 3 seconds, a long sound “BP+” will be heard to start the updated.



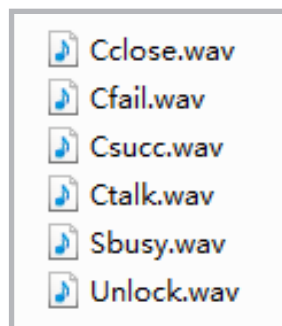
6. When update is finished, it will return to **Standby Mode** interface.

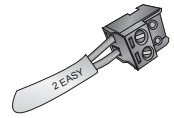


## TONE UPDATE

1. Format SD card
2. About the Ringtone file

- English is the standard audio file, as the picture shows:





- If other languages are needed for you, please record the audio file which language you want.
- Then provide the audio file to our company, a Ring.bin file will be created for you to update the tone.

3. Copy the Ring.bin file to SD card by computer.



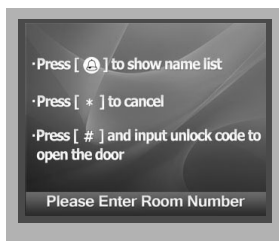
4. Select 2 (Voice update) to enter **Tone update**, the information of "update ready" will be showed.



5. Insert the SD card to slot, the information of "Download..." will be showed when the updated is in progress. After 3 seconds, a long sound "BP+" will be heard to start the updated.



6. When update is finished, it will return to **Standby Mode** interface.



7. Check the Tone



When door station is in standby, press "#8002"+code 66666666 to enter **Setup** page.

select item 2 to enter **Tone Select** setting page.

Select 02(English) to check your tone update, and press # to save.

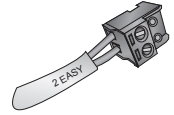
## UI UPDATE

1. Format SD card

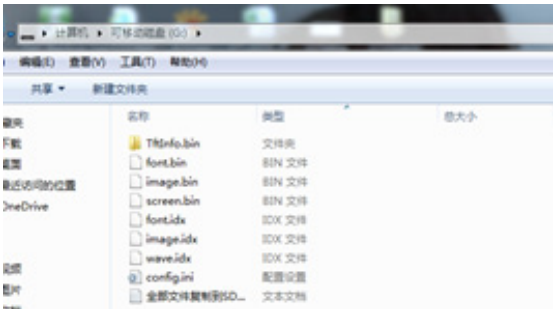
2. Edit UI file

Multi languages are supported on DMR18S, English is the standard language, if other languages are needed for you, please provide the translation to us. About the UI file, see the following picture shows:

English	Language
Press [ * ] to show name list	
Press [ * ] to cancel	
Press [ # ] and input unlock code to open the door	
Please Enter Room Number	
>> Name List Call <<	
Press [ * ] to call	
Please input Password	
Updated	
Door Open	
Door Open	
Cancel	
System Busy	
Ignore Change	
Download...	
Invalid Code	
Invalid Card	
Password Error	
Link Error	
Error	
Calling...	
* Cancel	
# Redial	
Conversation	



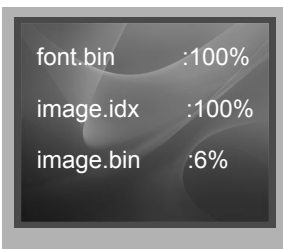
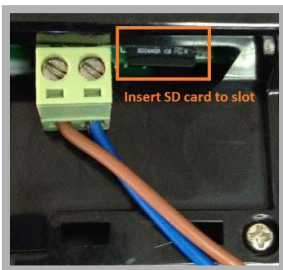
3. Copy the Update UI file to SD card by computer.



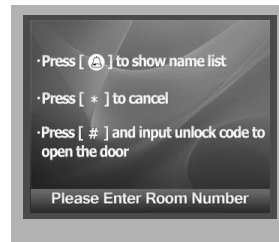
4. Select 3 to enter **UI update**, the information of "update ready" will be showed



5. Insert SD card to slot, after that, the update progress will be showed



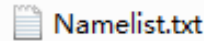
6. When update is finished, it will return to **Standby Mode** interface. And show the new UI.



### NAMELIST UPDATE

#### 1) Namelist update by SD card

1. Format SD card
2. Namelist.txt file setting



- Open the NameList.txt file, and input 5 [ ] symbols. Each [ ] symbol has its meaning, see the following picture.



**Descriptions:**

**Input:** The number to call the monitor

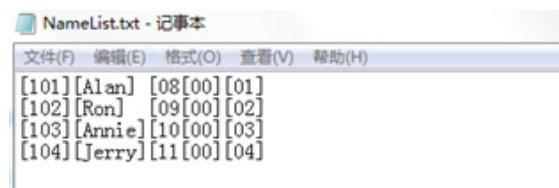
**Name:** It would be displayed on a screen

**Gateway:** Set the gateway mode according to BDU address. [08~15] means BDU address 01~08

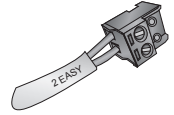
**Router:** Set the Router mode according to BDU address. [01~08] means BDU address 01~08

**Address:** Set the monitor address you want to call

- Edit NameList.txt file, for example, as the following picture shows:



101 will call the monitor with User Code 1 connected to BDU 1



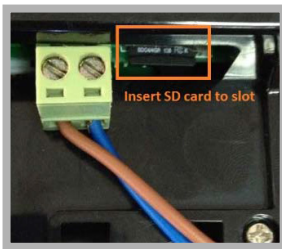
3. Copy the Namelist file to SD card by computer.



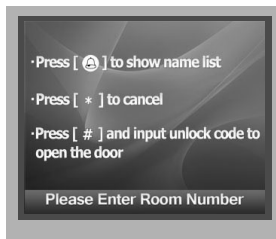
4. Select 4 to enter **Namelist update**, the information of “update ready” will be showed.



5. Insert the SD card to slot, the information of “Download...” will be showed when the updated is in progress. After 3 seconds, a long sound “BP+” will be heard to start the updated.



6. When update is finished, it will return to **Standby Mode** interface.



7. Press touch button to show the Name list

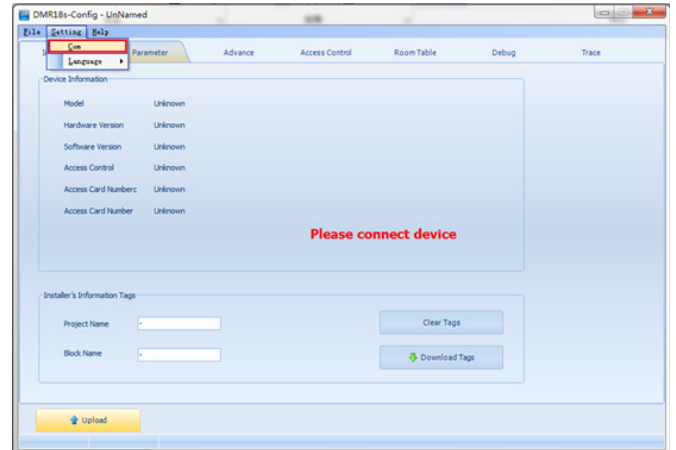


## 2) Namelist update by DT-Config

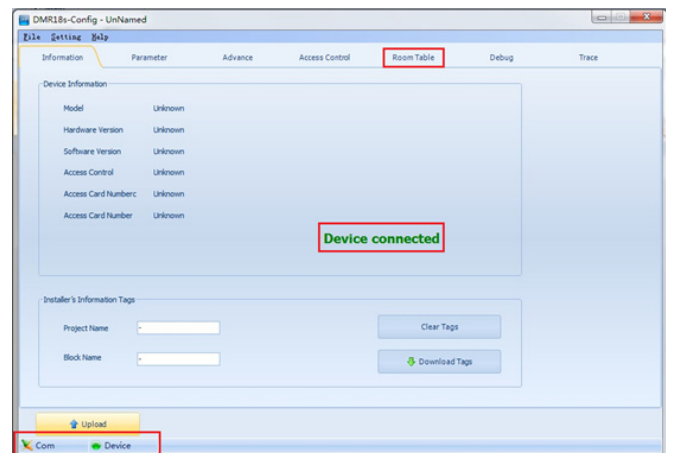
DMR18S-Config software is for parameters setting, namelist setting etc. It is great convenience to installation.

The DMR18S-Config software operation is as follows:

1. Open “DMR18S-Config” software, connect DMR18S to PC via USB-RS-485; Click “Setting” on the menu bar then click Com to select right Com. (Com information can be found in “ My Computer -> Properties -> Device Manage->Ports”)



2. Then if DMR18s is connected to PC successfully, one tips of “Device connected” will be showed. Click “Room Table” tab to edit Name list.)



3. Then click “Insert” to create the first item.

**Each item have 5 different properties:**

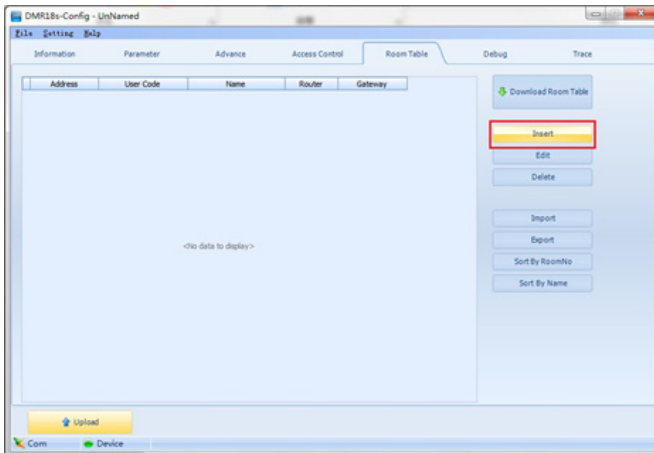
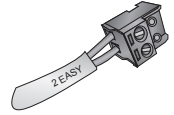
**Address:** Monitor’s address (can be find in “about”);

**User Code:** The number you can dial to the monitor;

**Name:** The name of resident;

**Router:** Set the BDU address when it is in Router mode;

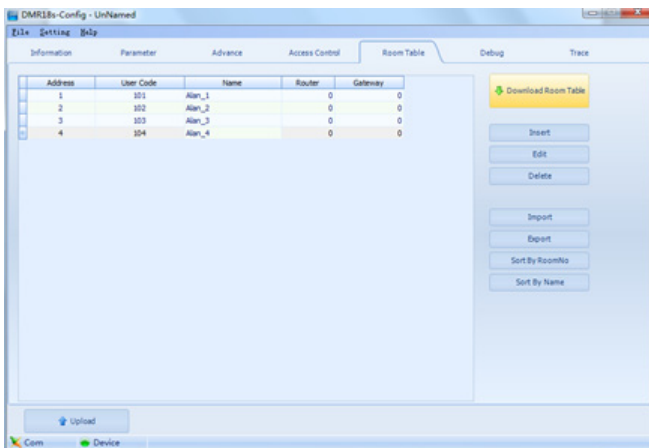
**Gateway:** Set the BDU address when it is in Gateway Mode.



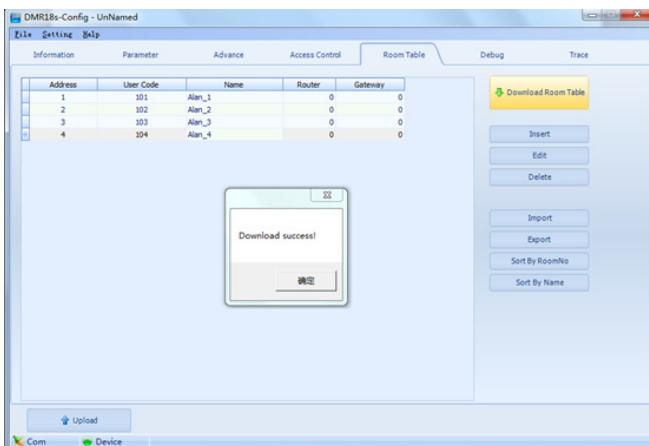
#### 4. Edit Namelist

##### 4.1 Apartments

- For example: Dial 101 to call the Apartment 01 without BDU. See the following picture shows:



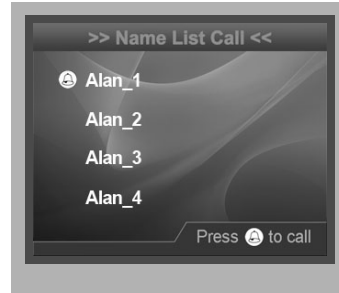
- After edited, click “Download Table” to download Name List to DMR18S; After a few seconds, a window will be displayed if it is updated successfully.



- Check Name List on DMR18S

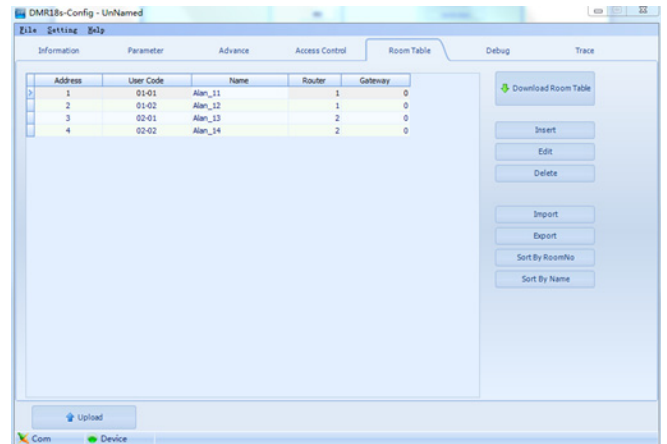
Set the DMR18S **Work Mode** as 0 (more details refer to **Work Mode** setting section).

- Press touch button to enter **Name List** page. See the following picture shows.

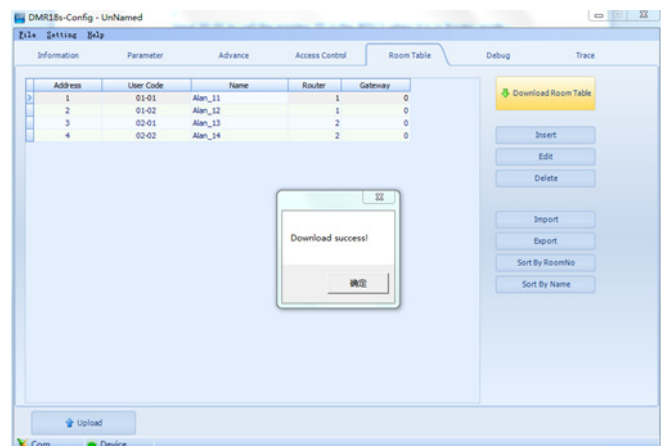


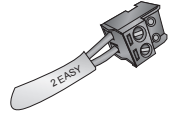
##### 4.2 Router

- Input 01-01 to call the monitor 01 in the BDU 1 when it is in **Router mode**, And input 02-02 to call the monitor 02 in the BDU 2 when it is in **Router mode**, see the following picture:



- Click Download Room Table to download the namelist.

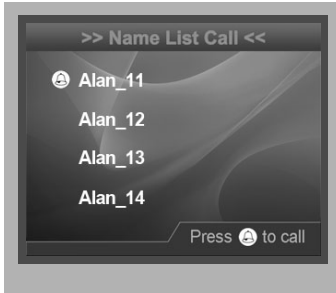




- Check Name List on DMR18S

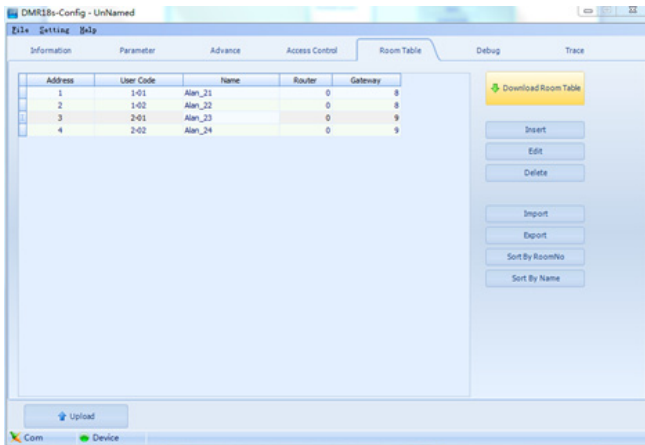
Set the DMR18S **Work Mode** as 2 (more details refer to **Work Mode** setting section).

- Press touch button to enter **Name List** page. See the following picture shows.

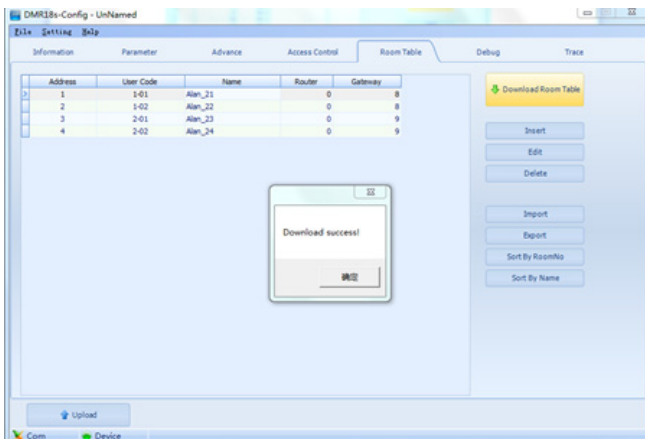


### 4.3 Gateway

- Input 1-01 to call the monitor 01 in the BDU 1 when it is in **Gateway** mode, And input 2-02 to call the monitor 02 in the BDU 2 when it is in **Gateway** mode, see the following picture:



- Click Download Room Table to download the namelist



- Check Name List on DMR18S

Set the DMR18S **Work Mode** as 3 (more details refer to **Work Mode** setting section).

- Press touch button to enter **Name List** page. See the following picture shows.

