

Key Phone



User Manual

please read this manual before using

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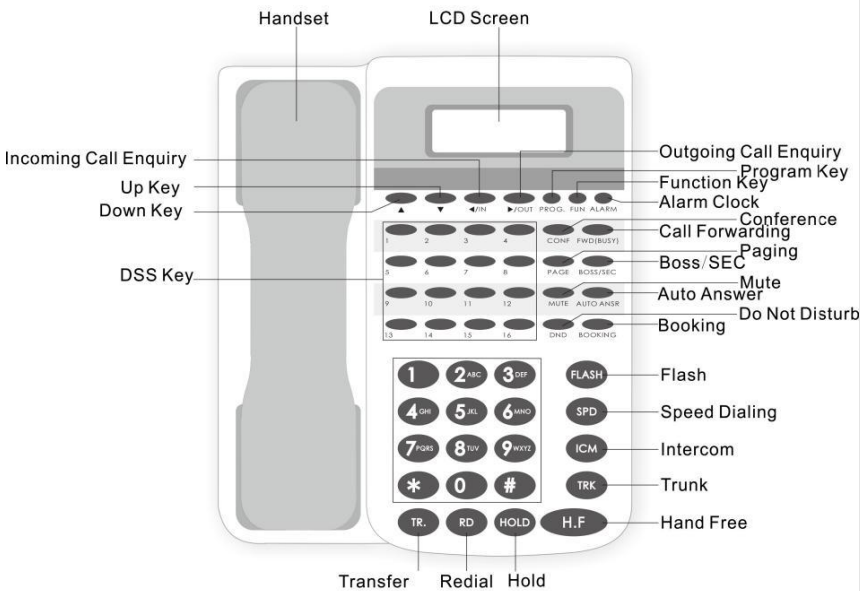
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Chap 1 Specification

1. Wiring Length : Please use twisted pair (TP) upon CAT5. (The length of connecting 1 key phone should be < 250m ; Connecting 2 key phones should be <150m ; Connecting 4 key phones should be <50m .
2. Working Current : less than 100mA
3. Environment humidity: 10%~95%, noncondensing
4. Weight : 0.8kg
5. Size : 22.8mm*18.3mm*12mm

Chap 2 Panel Illustration

2.1. Shortcut key Definition for PH202

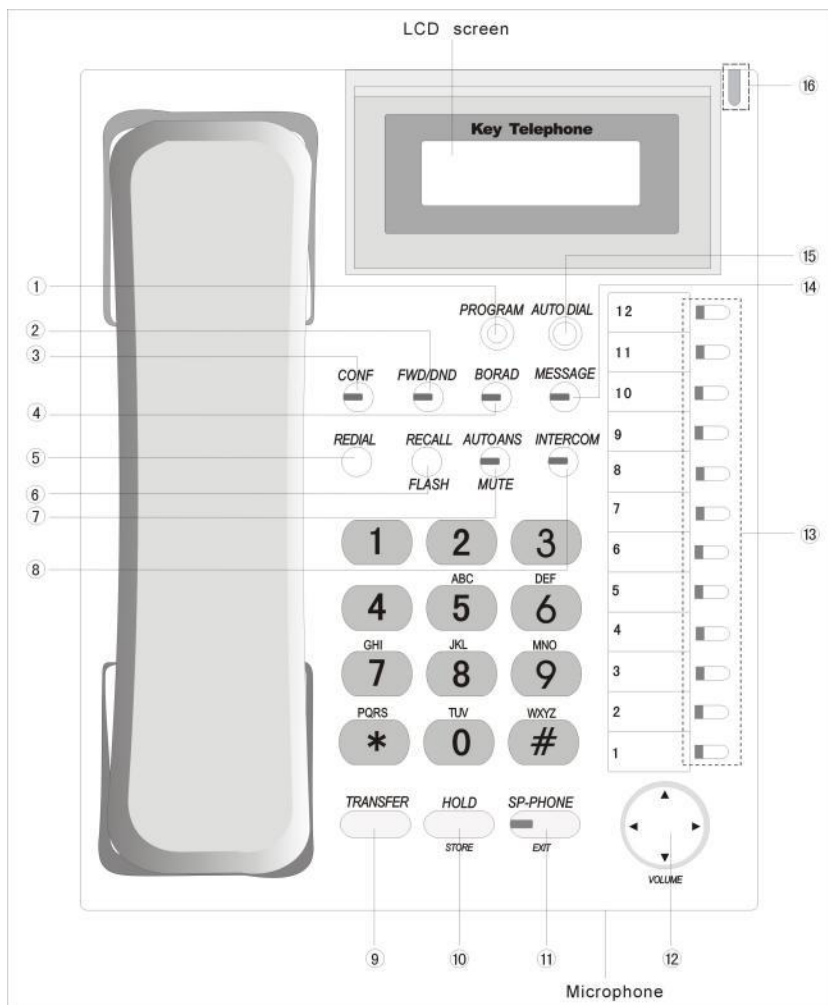


(PH202 Outlook)

1. **DSS:** Direct Station Selection keys, PH202 with 16 DSS keys, on default, DSS1 -12 corresponding to CO line 1-12, DSS 13-16 corresponding to Ext port 1-4. On hook status, press DSS key, to call corresponding extension or access corresponding CO line.
2. **Direction key:** used to configure parameter. On hook status, the left and right arrow key are used for entering incoming/outgoing call query interface, the up arrow key is used for adjusting ring volume, the down arrow key is used for adjusting speaker volume
3. **PROG:** enter menu setting interface, including using setting, programming, DSS setting, Speed Dialing setting, press H.F key to exit menu.
4. **FUN:** fast enter operator setting, equal to the operation of off hook + #, end with H.F key
5. **ALARM:** set the alarm clock

6. **CONF:** During the call with CO line, press this key to hold this call as conference status
7. **FWD(BUSY):** when extension is busy, forward the incoming call to another extension, press this key, input extension number, prompt "operation succeed", meanwhile the indicator is on. Press again this key, input #, to cancel this setting.
8. **PAGE:** press this key + (0, broadcast by extension / 8, call all extension)
9. **BOSS/SEC:** auto forward the incoming call to another extension
10. **MUTE:** press this key, the microphone of key phone is closed, the light of keys is on, press again, cancel MUTE function, the light is off.
11. **AUTO ANSR:** press this key, when any call is coming, system will auto answer in speaker, press again, to cancel this function.
12. **DND:** press this key, the extension is in Do Not Disturb status, press again, to cancel this function.
13. **BOOKING:** press this key, equal to press #0, when booking is succeed, key light is on, after booking is performed, key light is off.
14. **Flash :** used in call switch for the call with CO line. Equal to flash the hook and dial #8 during the conversation with CO line .
15. **SPD:** on hook status, press this key, and input speed dialing group number, to make speed dialing function. Off hook status, press this key, input system speed dialing group number, to make speed dialing function.
16. **ICM:** press this key, system is in intercom status, the light is on
17. **TRK:** press this key, system is in CO line access status, the light is on, equal to off hook + 9
18. **TR.:** press this key, and input another extension number, to transfer the call to another extension.
19. **HOLD:** during the call with C.O line, press this key, to hold the current call, after finish the call with another C.O line, press corresponding DSS key, to continue with previous call
20. **RD:** off hook, press this key, system will auto call the last dialed number. You can select incoming/outgoing call records to press redial.

2.2. Shortcut key Definition for PH201-D



(PH201-D Outlook)

1. **PROGRAM** ---Enter using setup, system program setup, DSS key setup, and auto-dial number setup status.
2. **FWD/DND**(red light) ----FWD: Forward the call to different EXT;
DND(Do-not-disturb)function can be used to restrict call when you are busy.
3. **CONF** (red light) ---- For conference talking

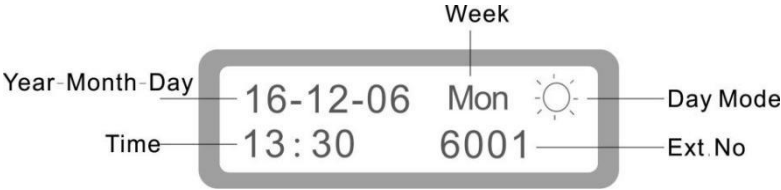
- 4. BROAD** ---- For external broadcasting system and key phone system, including paging and monitoring function.
- 5. REDIAL** ---- For CO line redial.
- 6. RECALL/ FLASH** ---- For incoming calls recalling; or flash operation during conversation.
- 7. AUTO ANS / MUTE** (red light) ----Enable the auto answer mode; press to mute the microphone in talking mode.
- 8. INTERCOM(ICM)** (red light) ---- Making or answer internal call.
- 9. TRANSFER**—Transfer the call to the other EXT in talking state
- 10. HOLD/STORE**----For holding calls (including extension line and CO line); and store the settings in programming setup mode
- 11. SP-PHONE / EXIT** (red light) ---- With SP-PHONE, dial numbers or talking without picking up the handset is possible; for exit in programming setup mode.
- 12. Navigation key / volume adjustment key** ---- 4 direction keys, the normal state up and down keys for ringing volume adjustment and sp-phone volume adjustment, left right keys for dialed and incoming calls checking. In programming state, 4 direction keys are menu choosing keys.
- 13. DSS key** -----total twelve from NO1 to NO12 with green and red indicator; on default setting, the 12 DSS setting as below:

NO1-8 is CO keys, correspond to NO1 to NO 8 CO lines----- display the status of Co line ;press it for calling or answer of the CO. line show working status of each CO line. Press key to make corresponding single key operation of CO line, such as make or answer calls.

NO9-12 is EXT keys, correspond to EXT601 to EXT604(default NO) ----- display the status of EXT; press it for calling or answer of the EXT

Notice: 12 DSS key can be flexible set to corresponding different extensions or CO. line, the detail see “DSS SETTING” sections.
- 14. MESSAGE** (green light) ----For CO line access.
- 15. AUTO DIAL**-----For auto dial
- 16. RUN/Ringer indicator** ----the lamp flashing when this telephone is ringing; also it can indicate the day/night mode, PBX is in night mode where lamp is always on.

2.3 LCD Display



Chap 3 Installation

Attention!!!: When customer need to lengthen(extend) the cable or make a 4 wire cable by himself, he should be attention to the correct wire sequence of cable: the two wires on middle(wire 2,3) are for voice transmission. wire 1,4 are for power supply. **If wrong connection, the key phone will not work, even destroy PABX system.** Furthermore make sure good contact and correct line sequence when make the RJ11 crystal head.

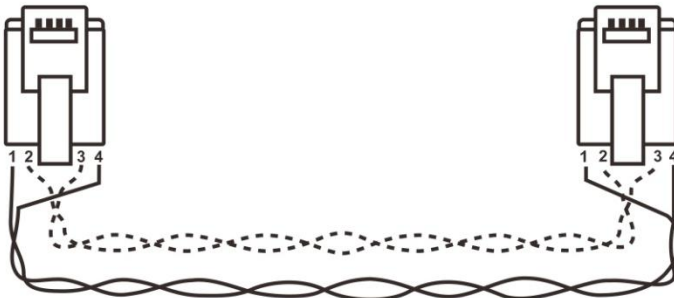
In order to prevent interference between power supply and voice transmission, the network twisted-pair wire is highly recommended to be used for making the key phone cables.(power supply is two wires, voice is two wires)

3.1 The making method for the cable are both 6P4C RJ11 crystal heads on two ends.

Wire sequence diagram :



Twisted-pair wire diagram :



If customer use 4 wires telephone cord to make the cable, probably will cause noise problem during call conversation. So we suggest network twisted-pair wire (for example: use white-blue, and two blue wires to connect wire 1,4. Use white-brown, and two brown wires to connect wire 2,3)

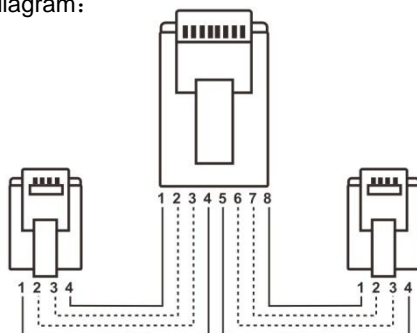
3.2 The making method for the RJ45 network cable are split with two 6P4C RJ11 crystal heads.

One RJ45 port can be connected with two key phones.

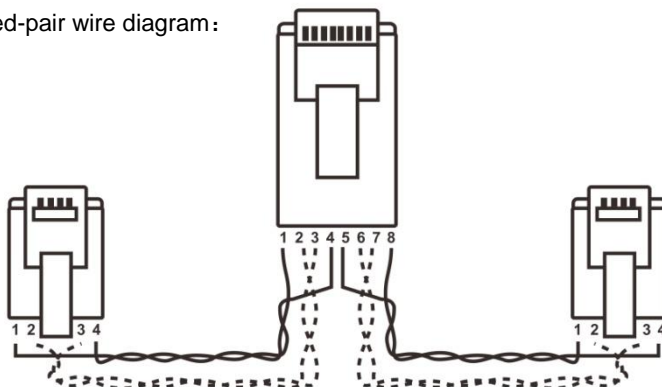
We suggest customer make the cable as per following color sequence:

Wires 1-8 of RJ45 corresponding to colour as: white-brown, white-blue, blue, brown, white-green, white-orange, orange, green)

Wire sequence diagram:



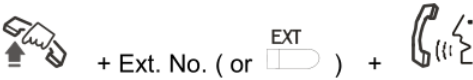
Twisted-pair wire diagram:



Chap 4 Using Guide

1) Intercom Call

- ① off hook + Ext.No + talking

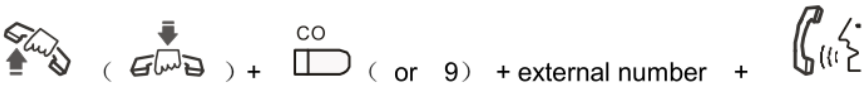


- ② dial DSS key directly

- ③ dial ICM key + Ext.No + talking

2) Outgoing Call


- ① off hook+ CO. DSS key + external number + talking







- ② dial DSS key directly





- ③ dial TRK key + external number + talking

3) Redial


- ① Incoming call redial : press  + talking


- ② Press  /IN +  or  to query the incoming number +  +talking

- ③ Outgoing call redial


Press  /OUT +  or  to query the outgoing call number +  +talking

4) Speed Dial


① Press  +the group number of speed dialing stored on key phone (01-32)

② off hook + Press  +the group number of speed dialing stored on the PBX (01-96)

5) Call Transfer


When talking with CO line or Extension +  + Ext.No or DSS key + on hook

6) Call Hold

During the conversation and dial  key to hold the conversation. Then key phone can enter intercom call status .

When hold the call from CO line , the CO LED will slow-flash .And when hold the call from intercom, if key phone don't hang up , the light of ICM key will be on .

7) Restore the holding call

Restore the holding call from CO.line : press the certain CO line key or press  press

Restore the holding call from extension : press  directly

8) Multi-party Conference

During the conversation with CO line ,after press the key ,system will enter in conference status.



9) Function Key (for PH202)



FUN + programming code

Function key means your dial *# . It works for the programming code without enter programming status .

Eg. Setting the system time to 12:30:20 am



FUN +01 (time setting code) +123030(time)

10) Alarm Clock Setting (for PH202)



ALARM + time

11) Call Forwarding(for PH202)



When Ext is busy or no answer : FWD(BUSY)+ Ext.number



Cancel : FWD(BUSY)+ #

Noted : Press this key, and dial the Extension number , it will display “ operation OK”,and the LED will be on . After cancel it , the LED will be off .

12) Boss/Secretary(for PH202)



Forward the call to Ext.N directly : BOSS/SEC+ Ext.number



Cancel : BOSS/SEC + #


Note: press this key, and input an extension number, will display “operation OK”,and the LED will be on . After cancel it, the LED will be off.

13) DND Key(for PH202)





DND(Do not Disturb) : After press this key DND ,it will enter DND status . If press again, it will cancel .


DND Key(for PH201-D)

1. Set Call Forward:  +1 + Ext. Number(or corresponding DSS key)
(red light slow flash)

Cancel Call Forward:  +1 + # (red light off)

2. Set busy/no answer forward:  + 2 + Ext. Number(or corresponding DSS key) (red light quick flash)

Cancel busy/no answer forward:  + 2 + # (red light off)


3. Set DND:  + 3 (red light always on)


Cancel DND:  + 3 (red light off)

DND: press the key to set Do Not Disturb status, and key light on, press again, cancel DND status.

14) Paging

External Broadcast :  +0 (equal to #86)

Monitor CO line:  +1+ CO line port (equal to #71+CO line port)

Monitor extension :  +2+extensions number (equal to #72+extension number)

Notes : If you want to monitor the intercom and external line from key phone, you need to set the key phone as operator .

Key phone Broadcast :  +3(all key phone will ring together and auto answer)

Emergency broadcast:  +8 (all extension will ring together and all key phone will auto answer)

15) Auto Answer (for PH202)

Auto Answer :  the LED will be on

Cancel :  the LED will be off

16) Mute Key (for PH202)

Mute :  the LED will be on


Cancel:  the LED will be off

17) Call Booking (for PH202)



Call Booking :  the LED will be on



Cancel :  the LED will be off


Chap 5 Using Setting



Press one time, then system will enter USING SETTING status. LCD shows as follow :

User Set
Language


1) You can press the key  or  to select the items .Like “Language”, “Backlight Setting”, “Ext Ring”, “CO.Ring”, “Door phone Ring”, “Alarm Ring”, “System Query “ , “ Reset Keyphone” etc.

2) You can press the key /IN or /OUT to set the selected item.
Eg.: when you select “ Language ”, you can select English ,Italiano,Turkish,中

文.After finish, press  to save

3) Pressing  one time ,will back to the current status . And pressing  twice , will back to home page.

Take an example for how to set the 16 DSS keys corresponding to CO line

◆ Step 1: Press  one time and enter setting status .

User Set
Language


◆ Step 2: Press  7 times or press  one time .Show as below:

User Set
Reset Keyphone

◆ Step 3: Press  one time. Show as below :

Reset Keyphone

01

Input 16 and press , then you will hear beep and it means save successfully .

The Option of User Setting and its suboption as below:

1) Language

Option: Chinese / English / Italiano /TURKISH

2) Backlight Setting

Option : Auto / On / Off

3) Ext Ring

Option : 01 to 16

4) CO. Ring

Option : 01 to 16

5) Door phone Ring

Option : 01 to 16

6) Alarm Ring

Option : 01 to 16

7) System Query


You can see the version number and outgoing mode

8) Reset Key phone

Option : 00 to 32 (CO.Line)

Chap 6 DSS Setting

Take an example for how to set DSS12 to Ext. Port 008



- ◆ Step 1 : Press  three times and enter DSS status . Show as below



DSS

001 TRU 01

Remark :




001, it means the number of the DSS button (001 means it is the first DSS button) . TRU means it was set for CO line (It has two options , TRU and EXT .

You can use  or  to select it .) 01 ,means it is the port number of CO line and Extension (and it means the first CO line port). All that means it is the first DSS button corresponding to the first CO line port

- ◆ Step 1 : Pressing the key /IN or /OUT to select the number of DSS and input 012 Or dial the No.12 DSS on the keyphone .


DSS

012 TRU 012

- ◆ Step 3 :Press /OUT and go the second part TRU . You can use  or  to select to EXT . Show as below


DSS


012 EXT 012

- ◆ Step 4:Press /OUT to go to the third part 001 and input 008 on the keyphone . Show as below.

DSS

012 EXT 008



- ◆ Press  to save and will hear beep tone .


- ◆ Press  to back to the home page.

Chap 7 Speed Dialing


Pressing  4 times , and show as below .

Speed Dial	01
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Pressing  or  to select the group number of speed dialing . It is range from 01 to 32 . Or it can dial the two digit group number .

After selecting the group number , then press /OUT to input the number you want.



Take an example for how to set the number 008618923238930 to group No.20 of speed dialing.

◆ Step 1 : press  four times to enter speed dial status .

Speed Dial	01
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◆ Step 2 : Press  or  to set the number to 20 . Or input 20 directly .

Speed Dial	20
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◆ Step 3 : Press /IN or /OUT to enter input status and input the number directly "008618923238930".

Speed Dial	20
008618923238930	

◆ Step 4 : Press  to save.

◆ Step 5 : Press  to back to home page.

Chap 8 How to set multiple DSS to connect with key phone

1) Setting a DSS to No.2 DSS . Programming as below

- ① Connect key phone with PBX
- ② Always-press the second button of No.DSS
- ③ At the same time, remove the cable between No.1 DSS and key phone then connect again .
- ④ Don't loosen the second,until the first and second green LED of No.2 DSS light .
- ⑤ Re-connect the PBX and key phone again .When the first and second green LED of No.2 DSS light together , that means it is the No.2 DSS

2)If you want to No.3 and No.4 DSS , repeat the last step . But when setting No.3 DSS , you should always-press the third button . And when setting No.4 DSS, you should always-press the forth button .

3)How to distinguish the DSS number .

When connect the PBX and key phone , if the DSS is No.1 DSS , the LED light of first button will be on . If it is No.2 DSS , the first and second light will be working together . If it is No.3 DSS , the first , second and third light will be on together . If it is No.4 DSS , the first, second, third and forth light will be on together.

