Alphacom®
Conference phone
User manual

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. Functions and Features

1) Full-duplex conversation, crystal clear voice
2) Bi-directional noise suppression purifies voice signal from both parties
3) Hypercardioid directional microphone plus automatic gain control satisfy group conference
4) Hi-Fi audio amplifier and rare-earth Neodymium magnet speaker
5) Convenient redial, on-hold, mute and rapid-dial features
6) SonicClear patented voice processing technology
7) ISO9000 certified
8) Compatible with PSTN analogy network
9) Easy installation

2. Specification

Dimensions: Φ300×63mm

Audio Bandwidth: 300-3400Hz

Speaker Volume: Max 85dB (Alphacom® Conference)
Max 95dB (Alphacom® Conference EX)

Power Requirement: AC 220V, 50Hz, 15W

Interface: RJ11

Environment: Temperature of Operation: 5□-40□

Humidity: 20%-80%

Recommended room: reverberation time < 0.4 second

Noise Degree: <48dBA

Exterior Color: Metallic Blue, Gray

3. Phone and Accessory

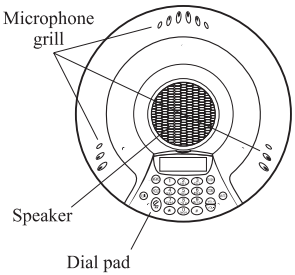
Alphacom® Conference model check list:

Conference phone, External power supply, User manual, Warranty Card

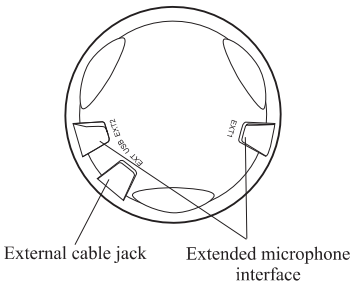
Alphacom® Conference EX model check list:

Conference phone, External power supply, Two Expanded microphone units , Cables, User manual, Warranty Card

3.1 Conference Phone

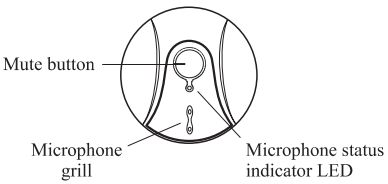


the front side

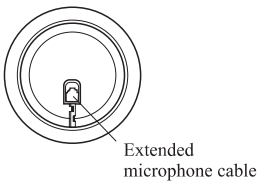


the reverse side

3.2 Extended microphone

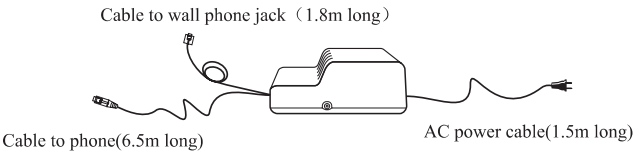


the front side



the reverse side

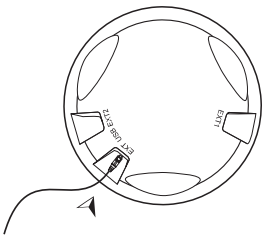
3.3 External power supply pod



4. Installation

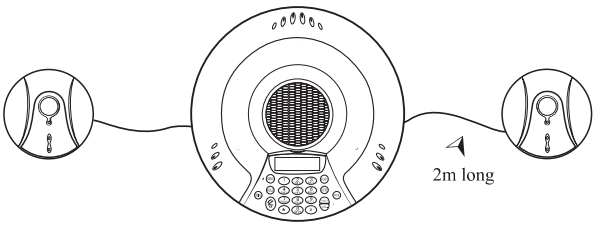
Steps:

4.1 Connect 8-strand cable to the external power supply and the phone

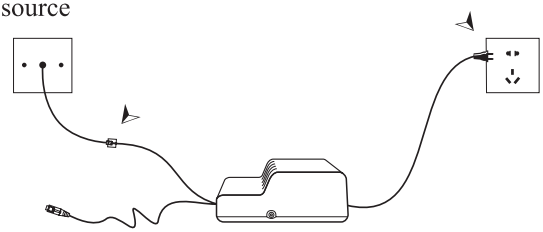


4.2 Connect 4-strand phone line cable to the wall phone jack

4.3 Connect external microphone cable to the phone
(For EX version)

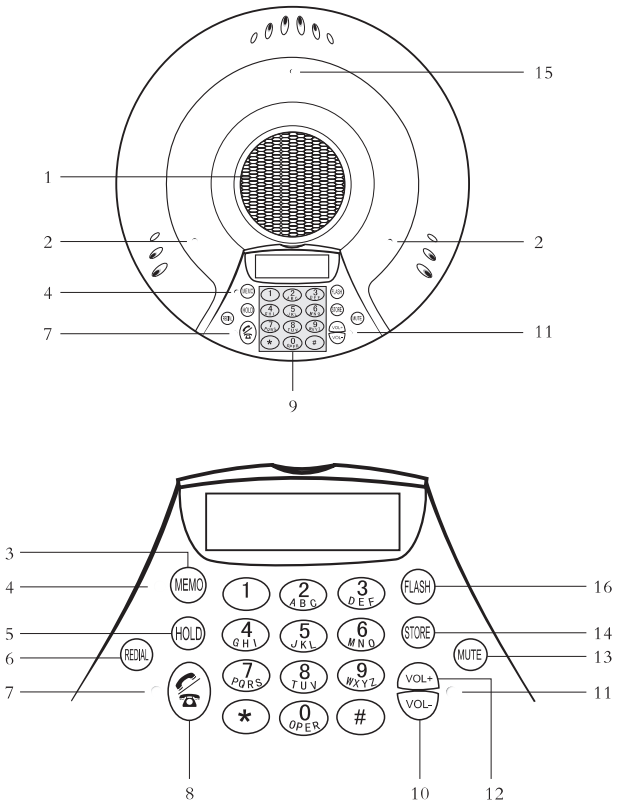


4.4 Connect power cord to the external power supply pod and the power source



5. Operation

5.1 Dial pad



1. Speaker
2. Near end microphone status LED
3. RAPID-DIAL key
4. Functional LED
5. HOLD button
6. REDIAL button
7. ON/OFF status LED
8. ON/OFF button
9. DTMF digit keys
10. VOL '+' button
11. Volume status LED
12. VOL '-' button
13. MUTE button
14. STORE button
15. Far end microphone status LED
16. FLASH button

5.2 Use of Functional Key

ON/OFF	ON for off-hook, OFF for on-hook
REDIAL	Redial the last dialed number
MEMO	Dial the number stored before
FLASH	Flash the hook
HOLD	Mute both parties in the conversation but still keep the line up
MUTE	Mute the microphone
VOL '+'	Increase the speaker volume
VOL '-'	Decrease the speaker volume
STORE	Store the rapid dial number

5.3 Dial and Answer the phone

In the on-hook state, push the ON/OFF button, when dial tone is heard, dial the phone number. In off-hook state, pushing the ON/OFF button will terminate the call.

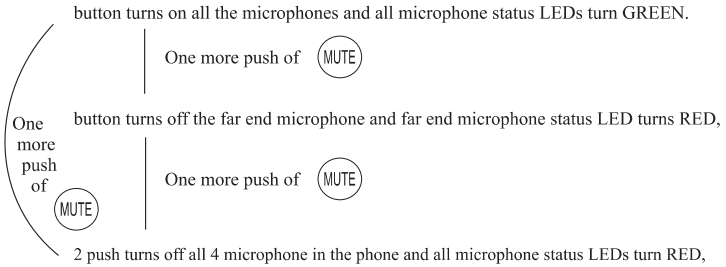
When incoming call is ringing, the power status LED is flashing, push the ON/OFF button will answer the phone.

5.4 Use of Microphone

Your Alphacom® conference unit has 4 microphones. Depending on how many people attend the conference, the user could determine how many microphones should be used to get the optimum communication quality.

When the conference attendees are more than 3 people, 4 microphones on the phone should be all turned on. When conference attendee is less than 3 people, far end microphone could be turned off to minimum the environment noise.

The microphones could be turned on or off using the 'MUTE' button. In the default state, both far end and near end microphone status LEDs are GREEN. One push of the 'MUTE' button turns off the far end microphone and far end microphone status LED turns RED, 2 push turns off all 4 microphone in the phone and all microphone status LEDs turn RED, and one more push of 'MUTE' button turns on all the microphones and all microphone status LEDs turn GREEN. The positions of microphone status LED are shown below.



★ In the default state,both far end and near end microphone status LEDs are GREEN.

5.5 Set and Use rapid dial

Rapid-dial feature allows you to set 20 pre-stored rapid-dial slots. Each slot could store as many as 31 numbers.

5.5.1 Store the Rapid-dial number

Rapid-dial number could only be stored in the on-hook state.

STEPS (See illustration below)

1) push 'STORE' button, functional status LED turns GREEN
2) Dial the number you want to store
3) After dialing, push the 'STORE' button
4) Dial 2 numbers as the identifier for this rapid-dial slot. When finished correctly the functional status LED will turn off.

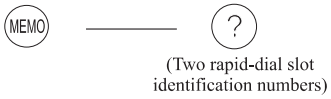
Store rapid-dial slot illustration

5.5.2 Dial the Rapid-dial number

In on-hook state (See illustration below)

1) Push rapid-dial 'MEMO' button and functional status LED turns GREEN
2) Dial two rapid-dial slot identification number and functional status LED will turn OFF if dialed correctly

Dial rapid-dial number illustration



Please note:

1) Each of the two rapid-dial slot identification number should be within 0-9 and the identification number should be within 0-20
2) All the rapid-dial operations should be used in the on-hook state
3) Any illegal operation during the process will turn the functional status LED RED
4) Illegal operation is rapid-dial slot identification number is greater than 20, or rapid-dial slot is non-exist or no number is stored in the rapid-dial slot

5.6 Use of 'FLASH' button

In the communication state, pushing 'FLASH' button will get the dial tone to connect other conference parties for conference bridge feature if subscribed for the line in use.

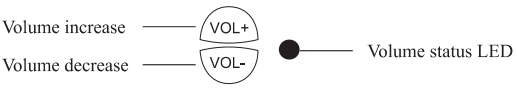
5.7 Use of 'HOLD' button

In the communication state, pushing the 'HOLD' button will mute both end of the communication but the line is still kept up.

5.8 Control the speaker volume

There are 12 volume steps are provided. When the maximum or minimum of the speaker volume is reached, the volume status LED turns RED otherwise is GREEN. User could increase the speaker volume by pushing 'VOL +' key and decrease the speaker volume by pushing 'VOL -' key. One push will increase or decrease the volume by one step.

Volume control illustration



Note:

1) The flash timing setup is designed to meet requirements of the different telephony switch.
2) On the repaid dial setup state, holding 'FLASH' key won't enter into flash timing setup state

○ Environment Parameter Setup

The conference phone provides the capabilities to switch between different acoustic environment modes in order to achieve best voice quality

Operation Steps

In the on-state, holding the 'HOLD' key for several seconds till 3 microphone status LED begins flash. Pushing '#' key to switch to different environment mode.

1) When the microphone status LEDs flash in GREEN, the current environment mode is in 'normal environment'. Pushing '#' key will change environment mode to 'special environment'.
2) When the microphone status LEDs flash in RED, the current environment mode is in 'special environment'. Pushing '#' key will change environment mode to normal environment'.

Note:

1) The 'normal environment' mode is default mode and could provide good voice quality for most conference rooms. Changing to 'special environment' when the voice quality is severely degraded, i.e. audible acoustic echo.
2) In the rapid dial setup mode, holding the 'HOLD' key won't enter into environment setup mode
3) The environment mode will be kept even when the power is off

○ Restoring DSP to factory default setup

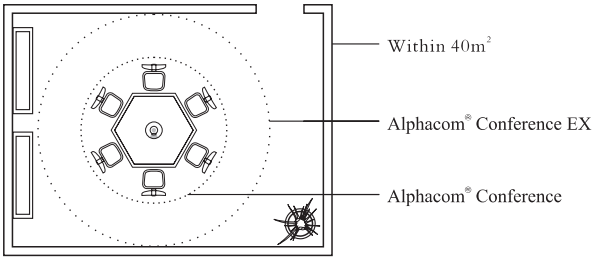
In the on-hook state, holding the 'MUTE' key for several seconds till 3 microphone status LEDs begins flashing in RED. Pushing '#' key will reset flash timing and environment setup to the factory default.

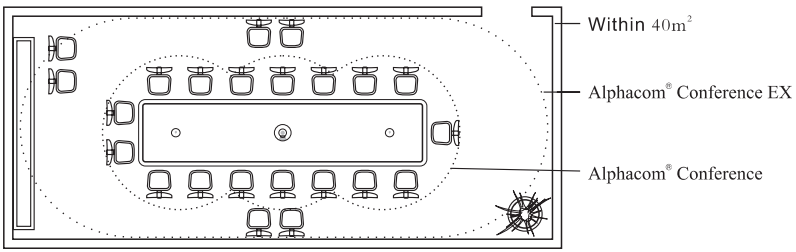
Note:

1) The operation will restore both environment mode and flash timing to factory default
2) In the rapid dial mode, holding 'MUTE' key will not enter into restoring DSP to factory default state.

- When the conference attendees are more□please use different model.

The conference phone is best in the broken line





- Special Functions

  - Setup Flash Timing

    In the on-hook state, holding 'FLASH' key for several seconds till 3 microphone status LED begins flashing in RED. Keying in the DTMF digits to setup the flash timing. After the setup finished the new flash timing setup will be effective when next power up.

    The DTMF digits and corresponding flash timing is shown below

1	90ms	6	600ms
2	120ms	7	700ms
3	180ms	8	800ms
4	300ms	9	900ms
5	500ms	0	1000ms

Note:

1) The flash timing setup is designed to meet requirements of the different telephony switch.
2) On the repaid dial setup state, holding 'FLASH' key won't enter into flash timing setup state

○ Environment Parameter Setup

The conference phone provides the capabilities to switch between different acoustic environment modes in order to achieve best voice quality

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3) The environment mode will be kept even when the power is off

○ Restoring DSP to factory default setup

In the on-hook state, holding the 'MUTE' key for several seconds till 3 microphone status LEDs begins flashing in RED. Pushing '#' key will reset flash timing and environment setup to the factory default.

Note:

1) The operation will restore both environment mode and flash timing to factory default
2) In the rapid dial mode, holding 'MUTE' key will not enter into restoring DSP to factory default state.

7. LCD Models Special User Manual

7.1 Features:

1) Compatable with PSTN nework and USB VoIP
2) DTMF/FSK Caller ID
3) LCD Display
4) Review and redial the last incoming calls 20 groups
5) Review and redial the last dialed numbers 20 groups
6) Display of the rear date /time
7) LCD contrast adjustable: 8 level
8) Speaker volume adjustable: 12 level
9) FLASH set
10) HOLD
11) MUTE
12) STORE
13) Redial
14) Rapid-dial

7.2 Setting operations:

1	SET DTAE
2	SET FLASH
3	LCD BRIGHT
4	INTERFACE

All the set items must press the MUTE key to confirm and exit after 5 seconds automatically.

7.3 Setting the Phone

7.3.1 Set the date/time:

Press MUTE key and then screen display 1 SET DATE. Then press the MUTE key to confirm and select the setting item. When the item font is flashing, press the VOL- / VOL+ to set, press the MUTE key to confirm.

7.3.2 Set Flash:

Press MUTE key and then press VOL- / VOL+ till the screen display 2 SET FLASH. Then press MUTE key to enter the situation of setting. Press VOL- / VOL+ to choose the wanted standard of flash. At last, press the MUTE key to confirm.

7.3.3 Adjust the LCD Bright:

Press MUTE key and then press VOL- / VOL+ till the screen display 3 LCD BRIGHT. Then press MUTE key to enter the situation of the setting, adjust the bright of LCD through operating VOL- / VOL+ , at last, press MUTE to

7.3.4 Review the Incoming and Dialed Calls:

While on hook press VOL- key to review the incoming calls and press VOL+ key to review the Outgoing calls .

7.3.5 Store and Rapid Dial:

While on hook, press STORE key then the screen display GROUP (01-20) . Then input the one group digital number from 01 to 20 . The next step input the telephone numbers which you want to store, at last press STORE key to confirm . When the screen display as the following: BEGIN CANCEL, it means that the group digital numbers have already stored the telephone numbers, so you can choose whether to replace the original telephone numbers or not through operating VOL- / VOL+ key. When choose BEGIN, input new telephone numbers will replace the original ones. When you choose CANCEL, it will keep the original ones. Press MEMO key, then the screen will display SPDL(01-20). Input the digital numbers then the corresponding telephone numbers will dial automatically.

7.4 Fast to Setup

7.4.1 Standard accessories:

Conference phone, power adapter, 2 expandable microphones; connection cables for the expandable microphones (2 meters long, 3 pieces)

7.4.2 Installation sequence:

1) Firstly, connect the expandable microphones to the EXT1, EXT2 interface of the phone by the two connection cables.

2) Secondly, connect the 8-strand cable of the power adapter to the EXT interface of the phone .

3) Connect 4-strand phone line cable to the wall phone jack.

4) Connect power cord to the external power supply pod and the power source.

7.4.3 How to get the best efficiency:

1) The recommended meeting-room size should be 20-40 square meters. If the meeting-room size is less than 15 square meters it is no need for you to use the expandable microphones. The built-in 4 microphones is enough to offer best efficiency.

2) While off hook the phone don't adjust the volume too higher until the phone is in normal status of conversation.

3) When the phone is in working, don't plug or pull the connection cable of the expandable microphones.

8. Notes

- Please read the user manual carefully before operating the phone
- Use standard 220V, 50Hz power. Indoor use only. Don't use with other unstable electronic devices to avoid damage to the phone.
- Please use good ventilation to the conference room. Avoid direct sunlight on the phone especially during the summer. Place the phone where the heat from the phone could be easily distributed.
- Avoid using the phone in highly humid environment to avoid damage to the fragile electronic parts in the phone. Don't put phone near wet place.
- Avoid using or keeping the phone in dusty environment.
- Don't use detergent to clean the phone. Don't leak water into the phone when cleaning.
- Please contact with sales representatives if the phone is not working correctly.

alphacom®

Dealer Stamp

All Alphacom products are manufactured to comply with CE standards