



STARBASE TELECOMS

Conference Phone

Southern African User

Manual

Titan 2

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1. 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 analog network (900 ohm impedance for RSA)
- 9) Easy installation

2. Specification

Dimensions: 300 X 63mm
 Audio Bandwidth: 300-3400HZ
 Speaker Volume: Max 80dB (Titan S)
 Max 85dB (Titan V, P, U)
 Max 95dB (Titan V-EX, V-PLUS)
 Power Requirement; AC 220V, 50Hz, 15W
 Interface: RJ11, USB, RJ45
 Environment: Temperature of Operation: 5°C - 40°C
 Humidity: 20% - 80%
 Recommended room: reverberation time < 0.4 second
 Noise Degree: <48dBA
 Exterior Color: Metallic Blue, Gray

3. Phone and Accessories

Titan S/V model check list:

Conference phone, External power supply, User manual.

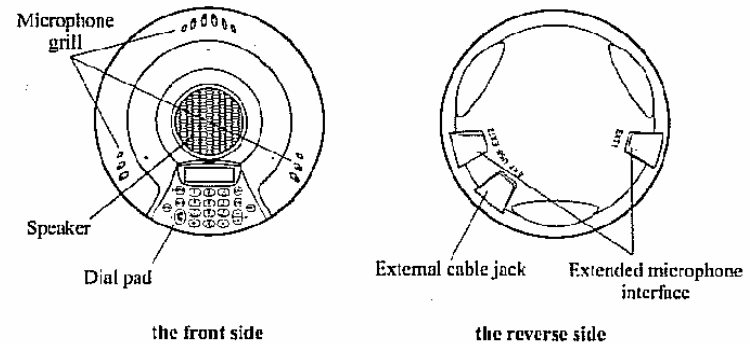
Titan V-EX /V-PLUS model check list:

Conference phone, External power supply, Two Expanded microphone units, cables, User manual.

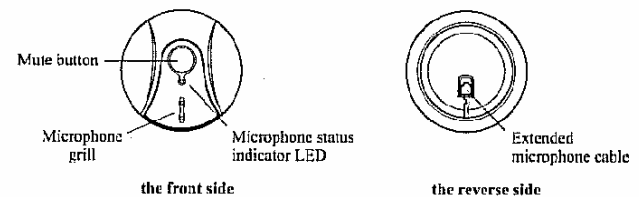
Titan U/P model check list:

Conference phone, External power supply, USB cable, User manual.

3.1 Conference Phone

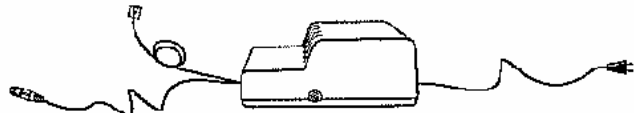


3.2 Extension microphone



3.3 External power supply pod

Cable to wall phone jack (1.8m long)

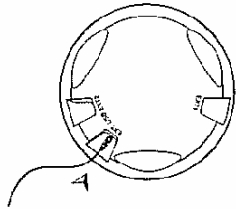


Cable to phone (6.5m long)

AC power cable (1.5m long)

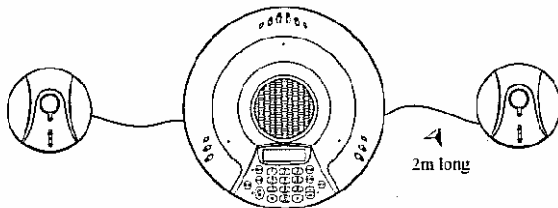
4. Installation Steps:

4.1 Connect 8-strand cable from the external power supply by inserting the RJ45 connector into the socket on the base of the phone labeled EXT

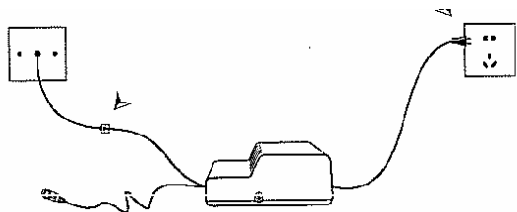


4.2 Connect 4-strand telephone line Cable from the external power supply by inserting the RJ11 connector into the wall phone jack

4.3 C For models V-EX / V-PLUS connect the external microphone cables to the phone jacks labeled EXT1 and EXT2.

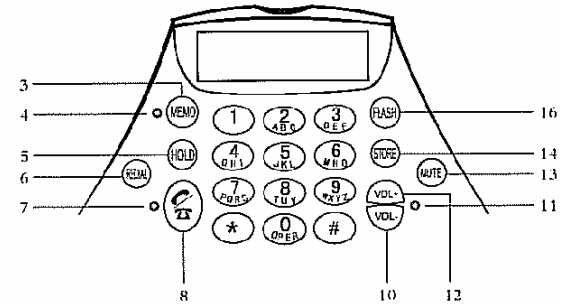
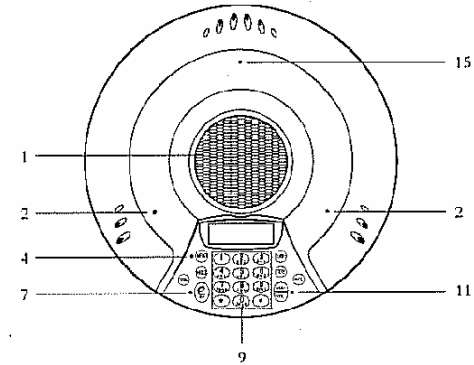


4.4 Connect the power cord plug to the electrical power source



5. Operation










5.1 Dial pad



- | | |
|-----------------------------------|-------------------------------|
| 1. Speaker | 9. DTMF digit keys |
| 2. Near end microphone status LED | 10. VOL '+' button |
| 3. RAPID-DIAL key | 11. Volume status LED |
| 4. Functional LED | 12. VOL '-' button |
| 5. HOLD button | 13. MUTE button |
| 6. REDIAL button | 14. STORE button |
| 7. ON/OFF status LED | 15. Far end microphone status |
| 8. ON/OFF button | 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 an incoming call is ringing, the power status LED is flashing, pushing the (ON/OFF) button will answer the call.

5.4 Use of MUTE

Press (MUTE) button to turn off all the 4 microphones in the phone and all microphone status LEDs turn RED. Press (MUTE) button again to turn on all the microphones and all microphone status LEDs turns BLUE.

5.5 Rapid dial

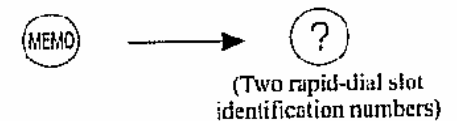
The Rapid-dial feature allows you to set 20 pre-stored rapid-dial numbers. Each slot can store up to 31 digits. See page 11 for details.

To Dial the Rapid-dial number

In on-hook state

- 1) Push the rapid-dial (MEMO) button and the functional status LED turns BLUE.
- 2) Dial the 2 digit rapid-dial slot identification code and the functional status LED will turn OFF

Dial rapid-dial number illustration



Please note:

- 1) The two rapid-dial slot identification digits should be within the range 01 to 20
- 2) All the rapid-dial operations should be carried out in the "on-hook" state
- 3) Any illegal operation during the process will turn the functional status LED to RED
- 4) Illegal operations are: rapid-dial code is greater than 20; or no number is stored in the rapid-dial slot



5.6 Use of (FLASH) button

When installed behind a PABX, pushing the (FLASH) button will recall dial tone for additional PABX features. (In South Africa use 100 m secs for timed break recall)

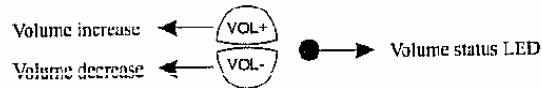
5.7 Use of (HOLD) button

In the communication state, pushing the (HOLD) button will place the call on hold and mute both ends of the communication.

5.8 Control the speaker volume

12 volume steps are provided. When the maximum or minimum speaker volume level is reached, the volume status LED turns from BLUE to RED. The user can 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



6. Troubleshooting of Conference Phone

• Please note the first call:

Echo or scattered voice can be heard for several seconds when the first call has just connected. It is normal that echo or clipped voices occur during the first several seconds of the conversation.

This is because the acoustic echo cancellation algorithms have to learn the acoustic characteristics of the room. After the acoustic echo model of the room is established, echo will be eliminated and all subsequent conversations will be normal.

• Placing the conference phone

Titan is suitable for small to medium sized conference rooms (up to 40 square meters). It allows as many as 10 conference attendees at the same time. Place the conference phone in the centre of the conference table and check that the phone is stable. Do not place anything within 60cm of the conference phone. When in use, don't sit too close to the phone (60cm is recommended). The power cord and phone cable should be securely placed to avoid damage.

• No Dial-tone / Ring-tone

- 1) Check the cable is correctly connected to the phone and the wall jack.
- 2) Check the power cord;
- 3) If voice is scattered during conversation please check the cable is correctly connected to the phone;
- 4) Try using another phone line.

• Can't Hear Other party's voice

- 1) Always make sure the conference room is quiet, keep windows and doors closed if possible.
- 2) Turn off any noisy equipment.
- 3) Do not touch the phone, the cable and the extended microphone during the conference.

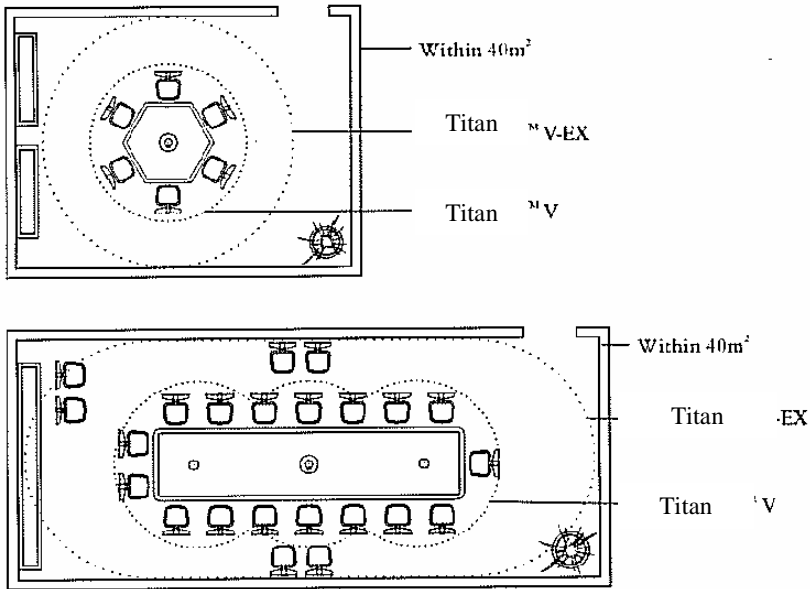
• Speaker volume is too high or too low

Use the volume keys to adjust speaker volume to a comfortable level. Maximum volume is not recommended if not necessary.



- When larger conference areas are required, please choose the appropriate conference telephone model. In the diagram layouts below, for the smaller dotted area choose the Titan V and for the larger dotted areas choose Titan V-EX with additional microphones.

The conference phone is best in the broken line



7. LCD Models Special User Manual

7.1 List of Features:

- 1) Compatible with PSTN network 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 levels
- 8) Speaker volume adjustable: 12 levels
- 9) FLASH set
- 10) HOLD
- 11) MUTE
- 12) STORE
- 13) Redial
- 14) Rapid-dial

7.2 List of setting operations:

1	SET DATE
2	SET FLASH
3	LCD BRIGHT
4	INTERFACE

With all items press the (MUTE) key to confirm. After 5 seconds the screen will return to normal.

7.3 Setting the Phone

7.3.1 Setting the date and time:

Press the (MUTE) key and the screen will display "1 SET DATE."

Press the (MUTE) key again to confirm this selection.

Using the (VOL+) and (VOL-) set the YEAR, MONTH, DATE, HOURS, MINUTES, and DAY of the WEEK. Confirm each setting with the MUTE key.

7.3.2 Setting the Flash Timer:

Press the (MUTE) key and (VOL+) / (VOL-) until the screen displays "2 SET FLASH"

Press the (MUTE) key again to confirm this selection.

Using the (VOL+) / (VOL-) choose the required flash time. (South Africa = 100)

Press the (MUTE) key to confirm.



7.3.3 **Adjusting the LCD Brightness:**

Press the (MUTE) key and (VOL-) / (VOL+) until the screen displays "3 LCD BRIGHT"

Press the (MUTE) key again to confirm this selection.

Using the (VOL+) / (VOL-) choose the required brightness setting.

Press the (MUTE) key to confirm.

7.3.4 **USB VoIP /PSTN Function: (USB on Titan model P only)**

Press the (MUTE) key and (VOL-) / (VOL+) until the screen displays "4 INTERFACE"

Press the (MUTE) key again to confirm this selection.

Using the (VOL+) / (VOL-) choose either the PSTN or USB setting.

Press the (MUTE) key to confirm

In the USB VoIP mode, "**USB**" is displayed on the left of the screen. In this mode please ensure the USB cable provided is connected to the telephone and your computer.

Effective keys are: (MUTE), (HOLD), (ON/OFF), (VOL-), (VOL+)

If PSTN is selected, you may make calls via the PSTN (telephone) network.

7.3.5 **Review the Incoming and Dialed Calls:**

While on hook press the (VOL-) key to review the **incoming calls** and, press (VOL+) key to review the **outgoing calls**.

7.3.6 **Storing numbers for Rapid Dial:**

While on hook, press the (STORE) key and the screen will display GROUP (01-20).

Enter the required 2 digit code 01 to 20.

Enter the telephone number, including access digits, that you wish to store.

Press the (STORE) key to confirm.

If the code already contains a stored telephone number, the number is displayed.

Press the (STORE) key and (BEGIN) (CANCEL) is displayed on the screen.

Using the (VOL+) / (VOL-) keys select (BEGIN) or (CANCEL) and confirm with (STORE).

(CANCEL) will retain the existing number, whereas (BEGIN) is used when the stored number is to be replaced with a new number. Enter the new number and press (STORE).

To dial a stored number:

While on hook, press the (MEMO) key, and the screen will display SPDL (01-20).

Enter the required 2 digit code and the corresponding telephone number will be dialed automatically.

7.4 **Fast Setup Procedure**

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) Connect the extension microphones to the EXT1, EXT2 interface of the phone by the two connection cables.

2) Connect the 8-strand cable of the power adapter to the EXT interface of the phone.

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

4) Connect the power cord to the power source.

7.4.3 **How to setup the USB VoIP function:**

1) Connect the PC USB port to the phone using the USB cable provided.

2) You'll hear a "Ding" sound from the speaker after a few seconds. This means the telephone has been identified by the computer and the driver has been installed.

3) Press the phone (On/Off) key so that the phone is in working mode.

When the phone is on-hook the built-in speaker is operational for background music.

When the phone is off-hook the built-in speaker and microphone will respond to the USB voice circuit.

4) Click the communication software (Skype, QQ, MSN, Yahoo Messenger, AOL Messenger) to start calling and talking.

7.4.4 **How to get maximum efficiency:**

1) The recommended meeting-room size should be 20-40 square meters. If the room size is less than 15 square meters it is not necessary to use extension microphones.

2) While using the phone, do not set the volume too high before normal conversation has commenced.

3) Do not plug or unplug the external microphones, or pull the connection cables when the phone is in used.



8. Notes

- Please read the user manual carefully before operating the phone
- Please use the **lightning protection module** provided for installations in Southern Africa.
- Use standard 220V, 50Hz power. Indoor use only.
- Please use good ventilation in the conference room. Avoid direct sunlight on the phone especially during the summer.
- Avoid using the phone in highly humid environments to avoid damage to the electronic parts in the phone. Don't put the phone in wet places.
- Avoid using or keeping the phone in dusty environments.
- Do not use detergent to clean the phone. Do not leak water into the phone when cleaning.

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