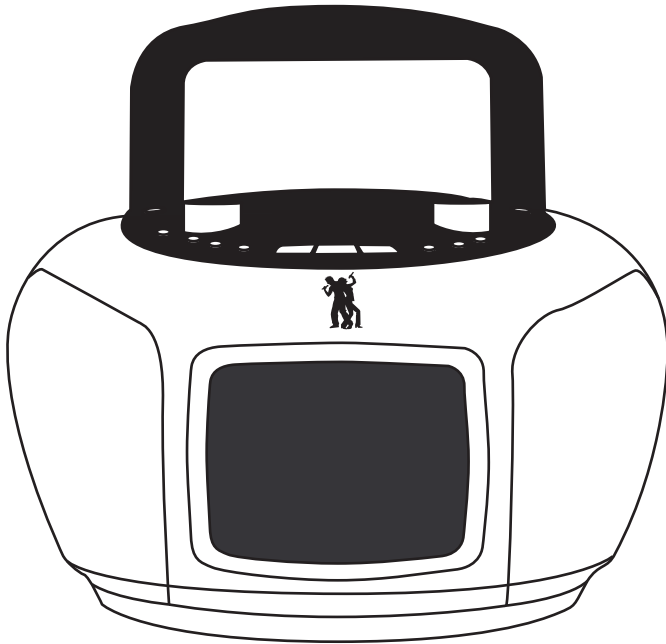# VocoStar
ORANGE-300

PORTABLE 5" B/W TV WITH KARAOKE PLAYER & AM/FM TUNER

INSTRUCTION MANUAL

SAFETY INSTRUCTIONS

⚠ **CAUTION**
RISK OF SHOCK

CAUTION: To reduce the risk of electric shock, do **not remove cover (or back)**. No user-serviceable parts inside. Only refer servicing to qualified service personnel.

• **Explanation of Graphical Symbols**

⚠ The lightning flash & arrowhead symbol, within an equilateral triangle, is intended to alert you to the presence of danger.

⚠ The exclamation point within an equilateral triangle is intended to alert you to the presence of important operating and servicing instructions.

WARNING
To reduce the risk of fire or electric shock, do not expose this unit to rain or moisture.

1 Read Instructions - All the safety and operating instructions should be read before the appliance is operated.

2 Retain Instructions - The safety and operating instructions should be retained for future reference.

3 Heed Warnings - All warnings on the appliance and in the operating instructions should be adhered to.

4 Follow Instructions - All operating and use instructions should be followed.

5 Attachments - Do not use attachments not recommended by the product manufacturer as they may cause hazards.

6 Water and Moisture - Do not use this unit near water. For example, near a bathtub or in a wet basement and the like.

7 Carts and Stands - The appliance should be used only with a cart or stand that is recommended by the manufacturer.

7A An appliance and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause an overturn.

8 Ventilation - The appliance should be situated so its location does not interfere with its proper ventilation. For example, the appliance should not be situated on a bed, sofa, rug, or similar surface that may block the ventilation slots.

9 Heat - The appliance should be situated away from heat sources such as radiators, heat registers, stoves, or other appliances (including amplifiers) that produce heat.

10 Power Sources - The appliance should be connected to a power supply only of the type described in the operating instructions or as marked on the appliance.

11 Grounding or Polarization - Precautions should be taken so that the grounding or polarization means of an appliance is not defeated.

12 Power-Cord Protection - Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the appliance.

13 Cleaning - Unplug this unit from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.

14 Power lines - An outdoor antenna should be located away from power lines.

15 Nonuse Periods - The power cord of the appliance should be unplugged from the outlet when left unused for a long period of time.

16 Object and Liquid Entry - Care should be taken so that objects do not fall and liquids are not spilled into the enclosure through openings.

17 Damage Requiring Service - The appliance should be serviced by qualified service personnel when:

   A. The power supply cord or plug has been damaged; or
   B. Objects have fallen into the appliance; or
   C. The appliance has been exposed to rain; or
   D. The appliance does not appear to operate normally or exhibits a marked change in performance; or
   E. The appliance has been dropped, or the enclosure damaged.

18 Servicing - The user should not attempt to service the appliance beyond that described in the operating instructions. All other servicing should be referred to qualified service personnel.

Note to CATV system installer's (U.S.A.):
This reminder is provided to call the CATV system installer's attention to Article 820-40 of the NEC that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected as close to the point of cable entry as practical.

WELCOME....

And thank you for purchasing the Orange-300 from VocoStar! All of our products are designed to provide years of high-quality karaoke entertainment to individuals and families across the world. Inherited with over a decade of experience crafting professional karaoke equipment from our parent company VocoPro, VocoStar products sound like no other in its class. We support all of our products with quality customer service and technical support professionals, who are ready to assist you with your needs. Also, don't forget to visit us online at www.vocostar.com and www.vocopro.com. We look forward to bringing out the rising star in you, because with VocoStar, you are always a star!

VocoStar
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Webmaster@vocostar.com

FOR YOUR RECORDS

Please record the model number and serial number below, for easy reference, in case of loss or theft. These numbers are located on the rear panel of the unit. Space is also provided for other relevant information.

Model Number _____

Serial Number _____

Date of Purchase _____

Place of Purchase _____

Listening For A Lifetime

Selecting fine audio equipment such as the unit you've just purchased is only the start of your musical enjoyment. Now it's time to consider how you can maximize the fun and excitement your equipment offers. VocoStar and the Electronic Industries Association's Consumer Electronics Group want you to get the most out of your equipment by playing it at a safe level. One that lets the sound come through loud and clear without annoying blaring or distortion and, most importantly, without affecting your sensitive hearing.

Sound can be deceiving. Over time your hearing "comfort level" adapts to a higher volume of sound. So what sounds "normal" can actually be loud and harmful to your hearing. Guard against this by setting your equipment at a safe level BEFORE your hearing adapts.

To establish a safe level:
• Start your volume control at a low setting.
• Slowly increase the sound until you can hear it comfortably and clearly, and without distortion.

Once you have established a comfortable sound level:
• Set the dial and leave it there.
• Pay attention to the different levels in various recordings.

Taking a minute to do this now will help to prevent hearing damage or loss in the future. After all, we want you listening for a lifetime.

Used wisely, your new sound equipment will provide a lifetime of fun and enjoyment. Since hearing damage from loud noise is often undetectable until it is too late, this manufacturer and the Electronic Industries Association's Consumer Electronics Group recommend you avoid prolonged exposure to excessive noise. This list of sound levels is included for your protection.

Some common decibel ranges:

Level	Example
30	Quiet library, Soft whispers
40	Living room, Refrigerator, Bedroom away from traffic
50	Light traffic, Normal Conversation
60	Air Conditioner at 20 ft., Sewing machine
70	Vacuum cleaner, Hair dryer, Noisy Restaurant
80	Average city traffic, Garbage disposals, Alarm clock at 2 ft.

The following noises can be dangerous under constant exposure:

Level	Example
90	Subway, Motorcycle, Truck traffic, Lawn Mower
100	Garbage truck, Chainsaw, Pneumatics drill
120	Rock band concert in front of speakers
140	Gunshot blast, Jet plane
180	Rocket launching pad

-Information courtesy of the Deafness Research Foundation
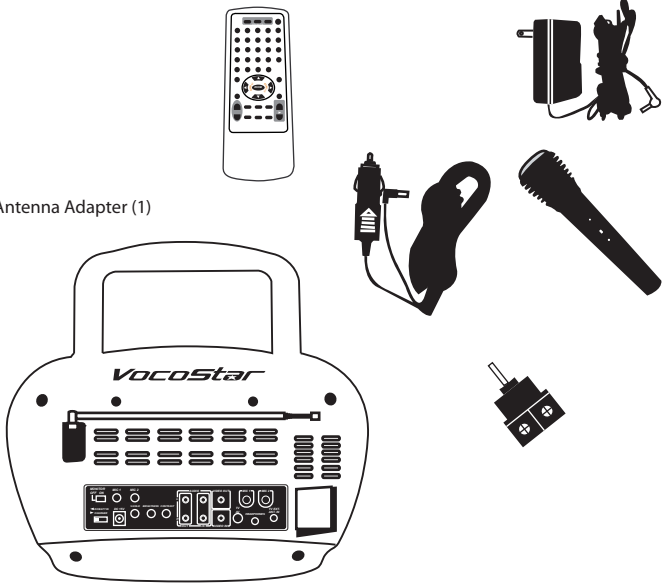
Contents

Features

- Built-in 5" B/W TV with 4-Way Power Design So You Can Truly Take Your Party Anywhere!
- Multi-Format Disc Player Supports CD+G, VCD, MP3, Audio-CD, Photo-CD and CD-R formatted disc media.
- Integrated Tuner for AM/FM Stereo and VHF/UHF TV Signal Reception
- 15-Step Digital Key Control with Digital Echo Control for Great Sounding Karaoke Experiences
- Innovative Battery Compartment Circuitry Design Allows You to Recharge Batteries Without Removing Them from the Unit (Rechargeable Batteries Not Included)
- Full-function Remote Control Places All System Features Right at Your Fingertips
- Vocal Cancel and Vocal Partner MPX Audio Modes for Removing Guide Vocals from Multiplexed Media
- Bass Boost Control for Extra Low-End Performance
- VCD 1.0-2.0 Compatible with PBC (version 2.0 only) & Intro, Zoom, Slow and Step Playback Modes
- Automated 'Score' Feature Provides a Fun and Easy Way to Gauge Your Vocal Performances
- Two 1 / 4" Microphone Inputs with Individual Volume Controls
- Headphones Jack for Private Listening and Practicing
- RCA-style I/O's for Audio and Video System Expandability to External Devices
- NTSC/PAL Switchable for Worldwide Video Compatibility

Before Getting Started

Unpacking

Before you start using the Orange-300, please make sure that you have all of the box contents located and ready. It is also recommended to keep the original packaging material in the case that re-shipping is necessary. You should have received the following accessories with your new Orange-300:

Orange-300 Unit (1)
Microphone (1)
1 / 4" Microphone Cable (1)
Remote Control (1)
AAA Batteries (2)
AC Power Adapter (1)
DC Car Adapter (1)
RCA Patch Cable (1)
75-ohm to 1 / 8" External TV Antenna Adapter (1)

AC Power Operation

1. *Before plugging into an AC wall outlet, please ensure that the power adapter being used is compatible with the power specifications used in your area. Using power adapters with the wrong power specification may damage this unit.*

2. Before powering on and operating this unit, ensure that the CHARGE/AC BATT IN toggle is set to the AC BATT IN position. While this toggle setting does not pose a threat to the unit when a power adapter or rechargeable batteries are being used, ***if standard alkaline batteries are in use and this toggle is incorrectly set to CHARGE, the batteries may leak acid and possibly explode.***

Notes:

- The only time that this toggle should be set to the CHARGE position is when you are going to be recharging rechargeable batteries seated in the battery compartment.
- This unit is not disconnected from the mains unless the mains lead is unplugged from the power outlet.

CAUTION:
WHEN INSTALLING BATTERIES
To prevent battery electrolyte leakage, which may result in injury and damage to the unit or other objects, observe the following precautions:
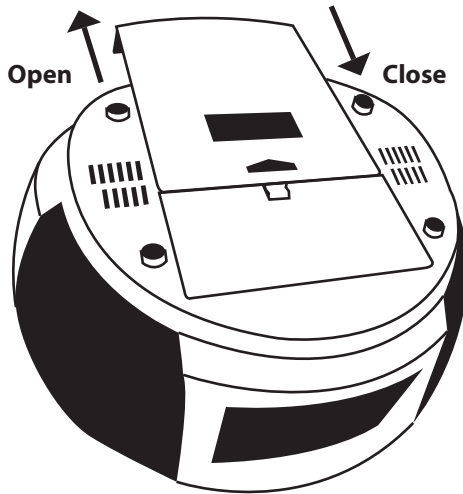
1. All batteries must be installed with the proper polarity (see diagram in the compartment lid of the unit).
2. Do don't mix new batteries with old batteries.
3. Only use batteries of the same type and brand.
4. Remove the batteries when they are not to be used for a long period of time.

Battery Power and Recharging Operations

To INSTALL standard alkaline batteries:

1. Open the BATTERY COMPARTMENT LID by moderately pushing down in an outward angle on the OPEN/CLOSE release tab

2. Refer to the polarity diagram inside the battery compartment of the unit to view the (+) and (-) polarity markings

3. Install 10 "D" size alkaline batteries (not supplied) according to the polarity diagram
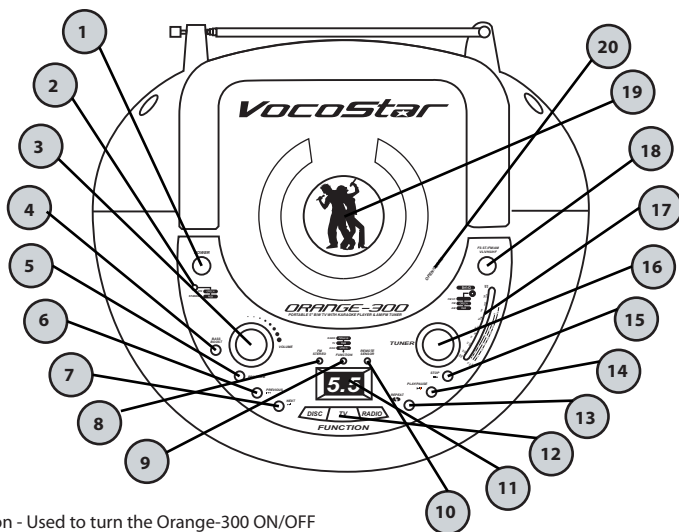
4. Replace the BATTERY COMPARTMENT LID

To RECHARGE Ni-Cd/Ni-MH batteries:

1. Connect the supplied POWER ADAPTER to the unit's DC input, and connect adapter to a compatible AC POWER SOURCE.

2. Set the CHARGE/AC BATT IN toggle to CHARGE.

3. Charge for approximately 12 HOURS when the batteries are depleted.

NOTES:

•   It is important not to severely over-charge rechargeable batteries, as their ability to fully recharge and retain the charge may be compromised. To avoid this, switch the CHARGE/AC BATT IN TOGGLE back to NORMAL or unplug the POWER ADAPTER from the POWER SOURCE.

•   Never try to recharge standard alkaline batteries as they can leak acid and possibly explode.

•   Only recharge Ni-MH and Ni-Cd batteries.

•   It is recommended to only use the supplied power adapter for recharging operations, and to always avoid using a power adapter that is not correctly matched for this unit and your power supply.
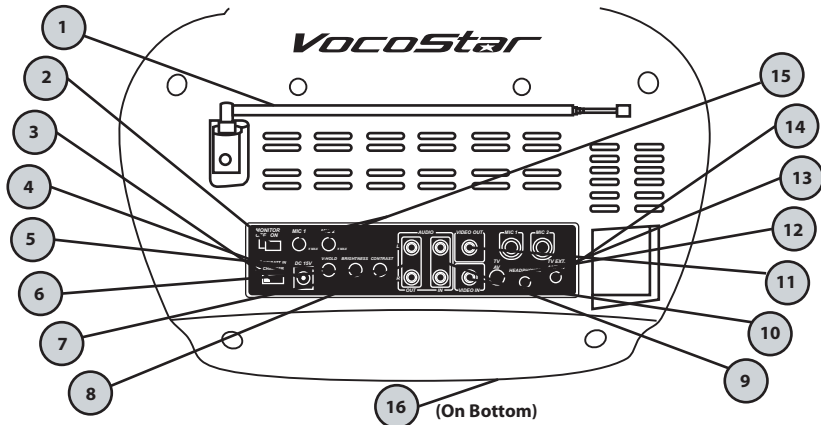
1. **POWER** button - Used to turn the Orange-300 ON/OFF

2. **POWER LED** indicator - Light RED when unit is in STANDBY mode and GREEN when POWERED on

3. **VOLUME** control - Used to adjust the MASTER VOLUME

4. **BASS** button - Used to boost LOW frequency audio response

5. **PROGRAM** button - Used to create a custom PLAYBACK SEQUENCE

6. **PREVIOUS** button - Used to SKIP BACK to a PREVIOUS media track/file

7. **NEXT** button - Used to SKIP to the next media track/file

8. **FM ST. LED** indicator - Lights RED when FM reception is present

9. **FUNCTION LED** indicator - Lights ORANGE when the DISC function is selected, RED when the TV function is selected and GREEN when the RADIO function is selected

10. **SENSOR** receiver - Accepts the REMOTE CONTROL input commands

11. **LCD** display - Displays OPERATIONAL status information (track #, playback modes and functions)

12. **FUNCTION** buttons - Used to select the INPUT SOURCE (DISC/TV/RADIO)

13. **REPEAT** button - Used to access REPEAT playback modes

14. **PLAY/PAUSE** button - Used to initiate or PAUSE CD/CD+G playback

15. **STOP** button - Used to STOP the playback of a media track/file

16. **TUNING** knob - Used to TUNE in to a AM/FM/UHF/VHF RADIO/TV station

17. **FREQUENCY** band - Used to display FREQUENCY information on selected FREQUENCY BANDS for tuning

18. **BAND** button - Used to toggle between AM/FM/FM-ST/VHF/UHF frequency bands

19. **DISC** tray - Discs are inserted here for PLAYBACK

20. **OPEN/CLOSE** recess - When pressed, OPEN/CLOSE's the CD compartment lid
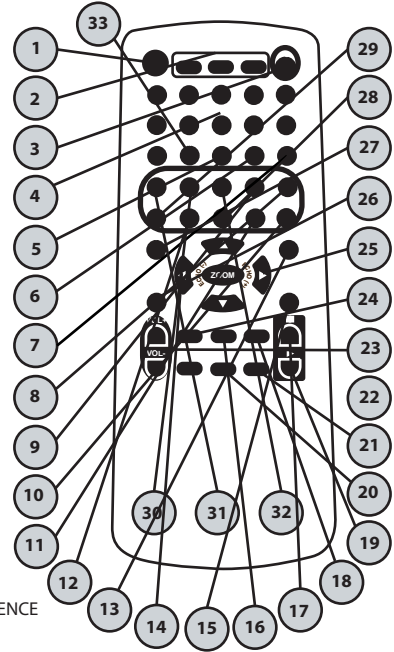
Rear Panel Descriptions and Controls

1. **TELESCOPIC ROD** antenna - Used to receive broadcast signals from radio and TV stations

2. **MONITOR ON/OFF** switch - Turns the TV screen ON/OFF

3. **DC/BATT IN-CHARGER** toggle - Switches between standard POWER INPUT and CHARGER modes. *NOTE: The only time that this toggle should be set to the CHARGE position is when you are going to be recharging rechargeable batteries seated in the battery compartment*

4. **DC INPUT** terminal - Used to connect a DC power cord to an AC/DC power source. *NOTE: Only the DC power adapters supplied with this unit should be connected to prevent system failure and possible damage to power source*

5. **V-HOLD** knob - Used to adjust the VERTICAL HOLD of the video picture. *NOTE: Only adjust if the video picture is rolling vertically*

6. **BRIGHTNESS** knob - Used to adjust the BRIGHTNESS level of the video picture

7. **CONTRAST** knob - Used to adjust the CONTRAST level of the video picture

8. **L/R AUDIO** output - RCA jacks for connecting to an AUDIO INPUT channel of an external device, such as an amplifier, mixer or recording device

9. **L/R AUDIO** input - RCA jacks for connecting to an AUDIO OUTPUT channel of an external device, such as a VCR, DVD player or console game system

10. **VIDEO IN** jack - Used for connecting to a VIDEO OUTPUT jack of an external device, typically the same device connected to the L/R AUDIO input jacks

11. **VIDEO OUT** jack - Used for connecting to a VIDEO INPUT jack of an external display, typically a telivision or moitor.

12. **TV/AV** selector - Used to toggle between TV signal video and video signals from either the DISC PLAYER or A/V DEVICE connected to the VIDEO INPUT jack when A/V is selected

13. **HEADPHONES** jack - Used to connect stereo HEADPHONES with an 1/8" mini-jack plug

14. **EXT. TV ANT. IN** jack - Used to connect an external TV antenna for TV reception instead of using the built-in telescopic rod antenna. Use the included 75-ohm to 1/8" TV antenna adapter to make the connection. *NOTE: If you have an external TV antenna connected to the TV EXT. IN jack and get video bleed from the TV signal and VocoStar spalsh screen, you have to reset the FUNCTION selector to TV. Select TV on the FUNCTION SELECTOR for a TV reception signal, ensuring that the TV/AV selector is also set to TV*

15. **MIC 1&2 jacks** - These jacks are for connecting MICROPHONES with 1 / 4" plugs

16. **BATTERY COMPARTMENT** lid - Used to house and/or recharge 10 "D" size batteries *NOTE: See the section 'BATTERY POWER AND RECHARGE OPERATIONS' for more information.*

Remote Control Descriptions and Functions

1. **POWER** button - Used to turn the Orange-300 ON/OFF

2. **DIGITAL KEY CONTROL/EQ** buttons - These buttons are used to adjust the natural key of disc audio so that singers can raise or lower the musical key to a comfortable range for their vocal range. The '*b*' button is used to lower the key a 1/2 step each time it is pressed. The '#' button is used to increase the key a 1/2 step each time it is pressed. The middle key is a dual-function key, used to 1) reset the musical key back to its original key and 2) enter the EQ mode for setting a custom EQ setting.

3. **STOP** button - Used to STOP the playback of a media track/file

4. **NUMBER PAD** buttons - Used to enter NUMERIC values for tracks, menu options and settings. For double-digit numbers, use the +10 and another number. For example, for 42, press +10 four times and then press 2.

5. **PBC** button - This button enables PBC (playback control) for VCD 2.0 and video playback settings. If PBC is not enabled, you will not be able to access screen menus, do track searches and advanced video options.

6. **PROGRAM** button - Used to create a custom PLAYBACK SEQUENCE

7. **MUTE** button - Used to MUTE audio playback

8. **FREEZE** button - Pauses the VIDEO playback without affecting the VIDEO signal.

9. **REPEAT** button - Used to enter REPEAT TRACK or REPEAT ALL playback modes

10. **LANGUAGE** button - Used to select an AUDIO language from a media title (if available)

11. **SLOW** button - Used to enter a SLOW playback mode for VCD viewing. Each time it is pressed, the playback will become slower until it reverts back to standard playback mode

12. **INTRO** button - Used to enter an INTRO playback mode where only the first 10 seconds of each track is played for reviewing

13. **N/P** button - Used to toggle between NTSC and PAL video mode settings. Select NTSC for North American-based video environments and PAL for European-based video environments

14. **ECHO INCREASE/MIC ON** button - This dual function button 1) moves the SELECT bar LEFT when navigating menus windows and 2) increases the ECHO effect when microphones are enabled and in use

15. **L/R AUDIO** button - This button is used to select between L/L, R/R and L/R audio playback modes. This is used to remove guide vocals from MULTIPLEXED karaoke media

16. **FAST REVERSE** button - Used to FAST REVERSE through a media track/file/scene

17. **PAUSE** button - Use to temporarily PAUSE playback. Press again to return to playback

18. **FAST FORWARD** button - Used to FAST FORWARD through a media track/file/scene

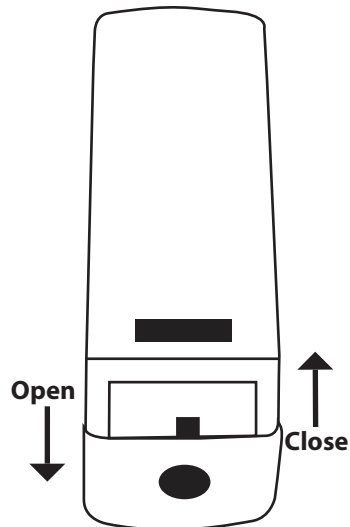19. **PLAY** button - Use to initiate PLAYBACK of a DISC in the CD tray

20. **NEXT** button - Used to SKIP to the next media track/file/scene

21. **PREVIOUS** button - Used to SKIP to the previous media track/file/scene

22. **SURROUND** button - Used to enhance audio with DSP audio enhancement

23. **VOL +/-** buttons - Used to INCREASE/DECREASE the VOLUME of all OUTPUT

24. **SCORE** button - Used to have the Orange-300 score your vocal performance for practice and accuracy assessment

25. **ECHO DECREASE/MIC OFF** button - This dual function button 1) moves the SELECT bar RIGHT when navigating menus and windows and 2) decreases the ECHO effect when microphones are enabled and in use

26. **RANDOM** button - Used to enter RANDOM playback mode. Press again to disable

27. **OSD** button - Used to ENABLE/DISABLE the ON-SCREEN DISPLAY

28. **VIEW** button - Used to toggle between VIEW ANGLES of media playback when available

29. **REMAIN** button - Selects TIME REMAINING mode for the OSD's track/disc time

30. **GOTO** button - Used to go directly to a user-set play point or track for playback

31. **STEP** button - Used to enter STEP playback mode where the playback speed is one frame at a time

32. **RETURN** button - Used to RETURN to either the VCD menu screen or PLAYBACK if in progress

33. **TIME** button - Used to display and toggle between TIME ELAPSED and TIME REMAINING for either TRACK or DISC mode

Remote Control Battery Replacement

1. Remove the BATTERY COMPARTMENT LID by using gently pushing out with a downward motion.

2. Remove BATTERIES and replace with new batteries of the same type (AAA) ensuring correct polarity.

3. Close BATTERY COMPARTMENT LID by sliding it back in until a "click" is heard.

Open

Close

Connections

Connecting to an External Audio System

To connect the Orange-300 to an external audio system:

1. Connect an RCA-style audio cable from the AUDIO IN jacks on your EXTERNAL AUDIO SYSTEM to the L/R AUDIO OUT jacks on the Orange-300
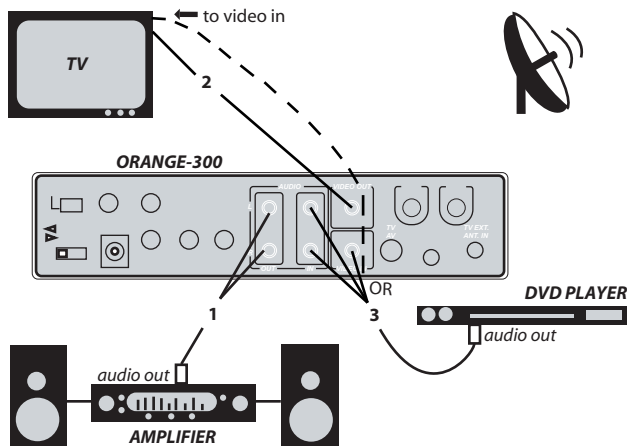
Connecting to an External TV

To connect the Orange-300 to an external TV:

2. Connect an RCA-style video cable from the VIDEO IN jack on your EXTERNAL TV to the VIDEO OUT jack on the Orange-300

Connecting an External A/V Device to the Orange-300

To connect an external device (DVD/MD/Camcorder/VCR/Game Console) to the Orange-300:

3. Connect an RCA-style A/V patch cable (yellow, red and white plugs) from the L/R AUDIO OUT/VIDEO OUT jacks on your VCR/Camcorder/Game Console to the AUX INPUT jacks located on the front bottom panel of the VSCTV-3513

General Operations

Controlling Music Volume and Sound

To ADJUST the Orange-300's SOUND OUTPUT, use up to FOUR features:

1. **Volume** control - Adjust the VOLUME control for overall VOLUME level by turning the VOLUME knob on the UNIT or using the VOL +/- buttons on the REMOTE CONTROL

2. **BASS** button - For extra LOW-END response ENABLE or DISABLE the BASS feature by pressing the BASS button on the UNIT.

3. **EQ** setting - You can create a custom EQ setting for detailed sound adjustment by pressing the MIDDLE DKC BUTTON on the REMOTE CONTROL twice, and setting the EQ sliders

4. **SRS** control - Widen the audio output signal for a simulated enhanced stereo field by pressing the SRS button on the UNIT or REMOTE CONTROL

Regarding Disc Compatibility and Handling

Supported Disc Formats

(VCD Logo)	Video CDs (8 cm disc/12 cm disc)
(CD Logo)	Audio CD's (8 cm disc/12 cm disc)
(CD+G Logo)	Karaoke CD's (8 cm disc/12 cm disc)
(MP3 Logo)	MP3 Audio CD's (8 cm disc/12 cm disc)
(Photo-CD Logo)	Photo-CD's (8 cm disc/12 cm disc)
(SVCD Logo)	Super Audio CD's (8 cm disc/12 cm disc)
(HDCD Logo)	High Density CD's (8 cm disc/12 cm disc)

Disc Care and Handling Tips

- Both 3" and 5" discs can be played with this unit
- Place only one disc at a time in the CD tray
- Only discs bearing the logos below should be played in this unit
- Always insert a CD with the label facing up
- Fingerprints and dust should be carefully removed from a disc surface prior to playing it
- Always return discs back to their cases after playback
- Do not expose a disc to direct sunlight, high heat or humidity
- Do not apply paper or write anything on the surface of the disc
- Do not use cleaners or anti-static sprays on discs
- CD+G formatted discs only support MPEG1 and a sampling frequency of 32KHz to 44.1KHz

Disc Player Operations

Disc Function LCD Display Indicators

1. **TRACK** number - CD/CD+G track number is indicated

2. **PLAY** indicator - Lights when playback is initiated

3. **REPEAT** indicator - Displays the REPEAT TRACK symbol when REPEAT TRACK mode is initiated and displays the REPEAT ALL symbol when REPEAT ALL mode is initiated

NOTE: When no disc is loaded, "00" is displayed

Loading a Disc, Pausing and Stopping Playback

To INITIATE the DISC PLAYER for playback:

1. Lift CD tray open, insert the DISC label-side up and close the CD tray

2. For AUDIO CD and CD+G type discs, playback will start automatically. For MP3, Photo-CD and VCD discs, a main menu may display for manual selection depending on the PBC setting

3. Press the PLAY/PAUSE button during playback. Playback will temporarily stop, and the PAUSE indicator will display blinking

4. Press the PLAY/PAUSE button again to resume play. Pause indicator will go off

5. Press STOP to cease playback

Track Skip/Search

To SKIP and SEARCH DISC tracks, files or scenes:

1. Press and release the ◄◄ or ►► SKIP buttons repeatedly during play to quickly locate the beginning of a track

2. The CD/CD+G track number display will show the number of the selected track. Playback will continue from the beginning of the new track

3. To search through a track hold the ◄◄ and ►► buttons on the REMOTE CONTROL

Repeat Play

To INITIATE a REPEAT playmode:

1. Press REPEAT once to enter REPEAT TRACK mode (REPEAT indicator will start blinking)

2. Press REPEAT again to enter REPEAT ALL mode (REPEAT indicator will light steady)

3. To CANCEL a REPEAT play mode, press REPEAT a third time (REPEAT indicator goes out)

Programmed Playback

To INITIATE a custom PROGRAM track/file/scene sequence:

1. Press PROGRAM to bring up the program window

2. Use the ← ↑ ↓ → number buttons to select a track

3. Once selected, press PROGRAM to enter it into the program

4. Repeat this procedure till you are complete with your program

NOTE: You can select up to 99 tracks to program. The program is maintained until the STOP button is pressed twice, the disc is removed or the unit is turned off

To START/CANCEL PLAYBACK:

1. Press PLAY once to START and STOP twice to CANCEL a PROGRAM set

Radio Operations

To use the AM/FM stereo tuner to listen to broadcast RADIO:

1. Turn on POWER

2. Ensure that the ANTENNA is extended to its outermost position with sufficient room for adjustment

3. Switch the FUNCTION SELECTOR to RADIO

4. Select a BAND from the BAND SELECTOR (AM, FM, FM-ST)

5. Find a STATION on the selected FREQUENCY BAND using the TUNING knob and re-adjust the ANTENNA if necessary to improve reception

TV Operations

To use the TV tuner to watch broadcast TV:

1. Turn on POWER

2. Ensure that the ANTENNA is extended to its outermost position with sufficient room for   adjustment

3. Switch the FUNCTION SELECTOR to TV

4. Ensure that the TV/AV button on the rear panel is set to TV. If video appears overlaid, reset the TV/AV button to TV

5. Choose a BAND from the BAND SELECTOR (UHF, VHF)

6. Find a STATION on the selected FREQUENCY BAND using the TUNING KNOB and re- adjust the ANTENNA if necessary to improve reception

NOTES:
-For the best signal, connect the unit to an aerial antenna using the external antenna jack or use the telescopic antenna on the back of the unit
-Adjust the BRIGHTNESS, CONTRAST etc, via the controls on the rear panel if necessary

Connecting Microphones

Most standard dynamic microphones with a ¼" plug can be connected to the Orange-300. If you have a condenser microphone that requires external phantom power, it should not be connected to the Orange-300 because the Mic jacks do not have a 48V feed. If your condenser microphone uses a battery-powered pre-amplifier, it should have no problems.

To CONNECT a MICROPHONE to a microphone input:

1. Carefully insert a 1/4" microphone plug into one of the microphone channels

2. Ensure the cable is completely inserted in both the 1/4" jack and the microphone itself (if detachable)

Balancing a Microphone Channel

To BALANCE a MICROPHONE channel:

1. First adjust the MIC VOLUME control to approximately 50%

2. Then if necessary, use the EQ's LOW, MID and HIGH controls to fine-tuning

3. Start background music with the MUSIC VOLUME set at approximately 50%

4. Fine-tune each MIC CHANNEL as necessary till you get a clean balanced mix

5. Remember to compensate if the background music has striking volume changes. To do this, set the microphone volume to a level that gives the singer latitude to increase their vocal velocity without sounding over-modulated

Karaoke Operations

Notes on Karaoke Media

There are various types of Karaoke media available for playback with the Orange-300. You can perform Karaoke with standard CD, CDG, and VCD formats. The thing to remember is how each type differs as far as audio channels and video support.

Standard CD
While standard CD's are not designed for Karaoke applications, it is still possible to practice Karaoke with them. There will be no graphics (lyrics) to view on a TV since there is no video coding, however because the vocals are audible, you can follow along and practice your accuracy.

CDG
CDG has been the most commonly used format of Karaoke media for the last 7 years. It is very similar to a standard CD, except it has video graphics that are decoded by your Karaoke player and displayed onscreen. In addition, many CDG's are specially 'multiplex' formatted with background music on the left channel and vocals on the right channel, so vocal cancellation can be done by simply adjusting the balance control.

VCD
While the VCD format is not as popular in North America as it is in other countries, it remains an excellent format to be used for Karaoke. Because video is not limited to 16 colors (as with CDG), VCD's tend to have motion video behind the lyrics instead of a monotone screen, making them a bit more attractive to party atmospheres. Most VCD's also have multiplexed coded audio for easy vocal cancellation.

Performing Karaoke

To perform KARAOKE:

1. Refer to and follow the instructions for 'Loading a Disc' in the 'Disc Operations' section

2. Refer to and follow the instructions for connecting microphones in the 'Microphone Operation' section

3. When playback is commenced, your voice will be mixed with the playback output and heard through the speakers, and the lyrics will be displayed on the TV screen

Removing Guide Vocals

To REMOVE guide VOCALS from MULTIPLEXED karaoke media:

1. Press the L/R button at any time during disc playback to enable VOCAL CANCEL mode. In this mode, the guide vocals are removed from the source music. Press again to bring the vocals back

2. Press the L/R button while singing into the microphone to enable VOCAL PARTNER mode. In this mode, the guide vocals are removed temporarily only when you are singing. When you stop singing for a minimum of 2 seconds, the guide vocals are reintroduced. Press again to bring the vocals back

NOTE: Disc must be multiplexed formatted for this feature to work

Using the Digital Key Controller

To CHANGE the natural KEY of source audio using the DIGITAL KEY CONTROLLER:

Use the DIGITAL KEY CONTROLLER to obtain the desired musical key. To STEP UP, press the button marked "b". To STEP DOWN, press the button marked "#". To revert to the original key, press the middle button.

NOTE: Digital key control is not applied to mic channels

To get a good BALANCE between the MIC CHANNELS and SOURCE MUSIC:

If you find that music and microphone output is not balanced for a good sound, simply adjust the VOLUME and MIC 1&2 VOLUME controls. It is recommended to first set the music volume and then adjust the microphone volume(s) to a good balance. Also, keep in mind that HIGH, MID and LOW frequency levels affect the overall "sound" of both music and vocals, so using custom EQ settings is also helpful in getting a good overall balanced sound.

NOTE: Excessive high frequencies can lead to feedback, so be careful when adjusting them

MP3 Basics

Tips on MP3 Discs

- An MP3 file stores audio data that has been compressed using the MPEG1 encoding scheme
- Track order may differ from MP3 player to MP3 player
- The maximum allowable # of tracks and folders on an MP3 disc is 900
- The maximum allowable depth of a nested folder is 127
- Discs containing data files and MP3 tracks (mixed-mode), it may not play in the Orange-300
- Multi-session discs are limited to a total of 20 sessions
- MP3 playback is optimal with MP3s encoded with a sampling rate of 44.1 kHz and a fixed bit rate of 128 kbps
- The unit may not play MP3 tracks recorded using a packet writing utility
- The unit can only play back MP3 tracks having a file extension of ".mp3"
- It may take 30 seconds or more before the unit can start playback of MP3's. This time depends on the number of recorded tracks and the complexity of the album tree
- If you play a non-MP3 track that has the ".mp3" file extension, the unit will skip to the next valid track automatically
- Digital recordings with this unit cannot be done while playing back MP3 discs

Tips On MP3 Menu and Display Text/Indications

- Up to 8 characters are displayed for the name of an album or track
- Characters other than uppercase letters ("A" to "Z"), numerals ("0" to "9") and underscore ("_") may not be displayed, or may be displayed in capitalized or different characters.
- The elapsed playing time may not be displayed correctly for MP3 tracks, depending on the MP3 encoding software used
- Depending on the condition of the disc recording equipment or the CD-R/RW disc itself, a false album or track which cannot by played on the unit may be displayed on an MP3 menu

Tips on Creating MP3 Discs

- When converting audio data to MP3, create MP3 files with a sampling frequency of 44.1 kHz and a fixed bit rate of 128 kbps
- When creating MP3 discs, do not store more than 900 albums and/or tracks in a disc
- To play tracks in the order they were recorded, ensure your encoding software is set up to auto arrange by name, or use only one album (if they are already alphabetized) or place a three digit number in front of each track to set an order manually

Recommended = 001-Song.mp3, 002-Song.mp3, 003-Song.mp3…
Not Recommended = 1-Song.mp3, 5-Song.mp3, 10-Song.mp3. . .

To activate REP MODE to repeat all files within a selected folder infinitely:

1. From the main MP3 window press the ➡ till the PLAY MODE window is selected

2. Press the ⬆ and ⬇ buttons to highlight the FOLDER REP mode

3. Press the ⬅ ⬆ ⬇ ➡ buttons to navigate back to the MP3 file in the folder you would like to start playback with

4. Press ENTER to begin playback

To activate DISC SCAN MODE to play the first 10 seconds of all files on the disc:

1. From the main MP3 window press the ➡ till the PLAY MODE window is selected

2. Press the ⬆ and ⬇ buttons to highlight the DISC SCAN mode

3. Press the ⬅ ⬆ ⬇ ➡ buttons to navigate back to the MP3 file you would like to start playback with

4. Press ENTER to begin playback.

NOTE: Press STOP to cancel Disc Scan Mode.

To activate DISC MODE to play all files on the disc sequentially:

1. From the main MP3 window press the ➡ till the PLAY MODE window is selected

2. Press the ⬆ and ⬇ buttons to highlight the DISC mode

3. Press the ⬅ ⬆ ⬇ ➡ buttons to navigate back to the MP3 file you would like to start playback with

4. Press ENTER to begin playback

NOTE: Playback will stop after all files have been played once.

To activate DISC REP MODE to repeat all files on the disc infinitely:

1. From the main MP3 window press the ➡ till the PLAY MODE window is selected

2. Press the ⬆ and ⬇ buttons to highlight the DISC REP mode

3. Press the ⬅ ⬆ ⬇ ➡ buttons to navigate back to the MP3 file you would like to start playback with

4. Press ENTER to begin playback

To activate RANDOM MODE to play all files on a disc in a random order:

1. From the main MP3 window press the ➡ till the PLAY MODE window is selected

2. Press the ⬆ and ⬇ buttons to highlight the RANDOM mode

3. Press the ⬅ ⬆ ⬇ ➡ buttons to navigate back to the MP3 file you would like to start playback with

4. Press ENTER to begin playback

NOTE: Playback will stop after all files have been played once

To activate SHUFFLE ON MODE to play files from a selected folder in a random order:

1. From the main MP3 window press the ➡ till the PLAY MODE window is selected

2. Press the ⬆ and ⬇ buttons to highlight the SHUFFLE ON mode

3. Press the ⬅ ⬆ ⬇ ➡ buttons to navigate to the MP3 file you would like to start playback with

4. Press ENTER to begin playback

NOTE: Playback is limited to one folder and will stop after all files have been played once

To activate PROGRAM MODE for programmed playlists from files in a selected folder:

1. From the main MP3 window press the ➡ till the PLAY MODE window is selected

2. Press the ⬆ and ⬇ buttons to highlight the PROGRAM mode

3. Use the ⬅ ➡ buttons to navigate back to the MP3 folders and files

4. Use the ⬅ ⬆ ⬇ ➡ buttons to find the files to program. When you want to program a file, press ENTER

5. Repeat process till program is complete

6. Press the STOP button to end file program selection mode

7. Press ENTER to begin playback.

NOTE: Program mode is limited to 20 files and will auto-stop after the program is complete

Viewing Photo-CDs

To LOAD a PHOTO-CD:

1. Insert a PHOTO-CD to automatically load and display the Photo selection window

To view PHOTO-CD images on-screen:

1. Press PLAY if the PHOTO-CD did not auto-play

2. Press the PAUSE button to PAUSE on an image. You can use the ⏮ or ⏭ buttons to maneuver through the Photo's in PAUSE mode

3. Press STOP to cancel viewing the Photo-CD

Zooming

To enter ZOOM MODE:

1. Press the ZOOM button. The picture is enlarged each time the ZOOM button is pressed

To move the ZOOM area:

1. Use the ⬅ ⬆ ⬇ ➡ buttons to move the zoom area

To cancel the ZOOM function:

1. Press ZOOM until it cycles back to a normal view

NOTE: The zoom function may not work with some discs and when used in conjunction with the SLOW or ANGLE functions

Frame Advance

To ENTER STEP MODE during playback:

1. Press the STEP button. Each press, the program advances one frame. There is no audio during STEP playback.

To RETURN to normal playback:

1. Press PLAY

Slow Playback

To enter SLOW MODE during playback:

1. Press SLOW. Each time SLOW is pressed, the play speed changes

NOTE:There is no audio during SLOW playback. Available SLOW playback speeds differ from DVD to VCD

To return to normal playback:

1. Press PLAY

Maintenance

Cleaning the unit
Clean the outside of the unit with a clean soft cloth moistened with lukewarm water. Do not use solvents such as benzene or thinner. These will permanently damage the units finish.

Cleaning the CD lens
The lens should never be touched. If dust is on the lens, blow it off using a camera lens blower.

If trouble occurs...
To avoid the hazard of electric shock and damage to the unit, have the unit bench tested by an authorized VOCOSTAR service center. Do not remove the unit from its cabinet to attempt repairs yourself.

Warning
- Do not block the ventilation hole.
- Do not expose to rain or moisture

Specifications

TV System:	M
Ch. Range VHF-Lo / VHF-Hi / UHF:	2-6 / 7-13 / 14-83
Radio AM / FM:	530-1710 kHz / 88-108 MHz
Antenna Input Impedance:	75-ohm/300-ohm
Disc Formats:	CD, CD+G, VCD 1.0/2.0, MP3, CD-R, CD-RW
CRT:	5.5 Inches, Diag./70 Def.
Resolution:	+280 Lines
Sound Output:	2.5W, 1kHz, 0dB (CD)
Power Source:	DC 15V 1.8A AC Adapter, 10x"D" Alkaline/Rechargeable Batteries, Car Adapter
Power Consumption:	27W@DC 15V Input (average)
Dimensions:	12" (W) x 10.8" (D) x 7.5" (H)
Net Weight:	7.5 lbs.
Gross Weight:	8.2 lbs.
Avg. Battery Life (77°F):	12-14 Hours (Alkaline), 2.5-3.5 Hours (Rechargeable)
Accessories Included:	Car Adapter, AC Adapter, Antenna Adapter, RCA A/V Cable, Remote Control, Microphone and Microphone Cable

-Specifications subject to change without notice