BVP 8770 User's Manual





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1 Getting Started

Overview

Leadtek BVP 8770 is designed to avoid complicated installation. And with the buttons on the keypad, you are able to access the user-friendly on screen display menu (OSD), easily control the functions and make adjustments.

The BVP 8770 has a built-in high quality CCD camera and an active matrix liquid crystal display. Images are transmitted through the Internet at up to 24 frames per second (fps) (@ CIF resolution). While making a video call, you can enjoy the brilliant real-time color images of yourself, your correspondents or both. If you do not want your image to display on the caller or receiver's screen, BVP 8770's private mode can do just that.

The BVP 8770 is fully compliant with H.323 international standards for video communication. It can be used with any video phone that are compatible with this standard.

Feature highlights:

- Broadband IP Address video phone
- Connect the other video phone by simply entering the IP address/number*
- Built-in high quality CCD camera with cover protection and focus adjustment knob
- High quality TFT LCD display
- Friendly and easy operation through keypads
- Phone book dialing function
- 2 A/V inputs & 1 A/V output for additional video/audio input and video/audio output for large display
- Up to 24 frames per second video display (@ CIF resolution)
- Video selectable and picture image up to VHS quality
- Echo-cancellation and no delay high quality audio

*Note: To dial numbers, BVP 8770 must work in conjunction with additional accessories, such as the H.323 Gatekeeper.

What's in the package?



BVP 8770 x1
Handset x1
User's Manual x1
Handset Cable x1
Power Adapter x1
Power Cord x1
Ethernet Cable (RJ-45) x1
Audio/Video Cable x1

BVP 8770



Handset



Handset Cable



Ethernet Cable



User's Manual







Power Cord



Audio/Video Cable



Please unpack the product package with caution; inspect the Items closely. If you find any damaged item, please contact your local distributor immediately. Also, please keep the box and packing material for future use in the event of future shipments.

2 Getting to Know Your BVP 8770

Front view



Front view (cont.'d)



Front view (cont.'d)

Numeric Keypad

Inputting numbers

Pressing any key on the numeric keypad can input the correspondent number.

For example, pressing (8_{TUV}) will generate the number " 8 ".

Inputting letters

Every button on the numeric keypad has characters printed on it, in addition to the numbers. Number keys from "2" to "

9 " have English letters on them, so they can be used to input English letters. When inputting data, pressing a key consecutively will generate the letters on it. For example, (7_{PORS}) has the number "7" and the alphabets "PQRS" on it. Pressing this key once will generate the number "7".

Pressing this key twice consecutively will generate the letter " P ".

Pressing this key three times consecutively will generate the letter " O ".

Pressing this key four times consecutively will generate the letter " R ".

Pressing this key five times consecutively will generate the letter " S ".

Ant it will cycle in such order.

Inputting punctuation marks

The keypad provides four punctuation marks:

". ": Press (*... twice consecutively;

Press only once to generate ". " when inputting IP addresses.

", ": Press (*. "!": Press (0)

"; ": Press

three times consecutively. twice consecutively.

three times consecutively.

(0):8 **Inputting special characters**

The keypad also provides six special characters: " (a) " " " " - " " * " " \$ " and " # ".

" (*a*), ": Press 1@-) twice consecutively; three times consecutively. " ": Press (1_@. " - ": Press four times consecutively. 1@

Switching between upper

case and lower case letters

Press (# ~) once to switch between upper and lower case letters when inputting data.



Numeric Keypad

Rear view



Side view





Installing the unit

Step 1 Pick a good spot

Stability

Place your BVP 8770 on top of a counter, desk, or table with the CCD camera opening in front.

Lighting Condition

Make sure the lighting is sufficient and does not shine directly into camera lenses.

View of camera

Avoid using BVP 8770 in a room with brightly painted walls or flamboyant wallpaper. Soft and evenly painted background provides the best results.

Prolonging the lifespan

Avoid storing or operating BVP 8770 in abnormal conditions. High temperatures or excessive humidity could cause the unit to malfunction and shorten its useful lifespan.

Step 2 Hook up the handset

Connect the handset and the BVP 8770 main unit with handset cable.



Installing the unit

Step 3 Connect the Ethernet cable

Plug one end of the Ethernet cable in the jack marked "WAN" on BVP 8770. Plug the other end of the Ethernet cable in the RJ-45 jack on the wall.



Using external devices





The System Setup section gives instructions on how to set up your BVP 8770 system under some mostly used interconnection types. There is a condition bar on each page (as shown in the figure), indicating what type of connection the setup guide on that page is for. Look for the type of connection you use with your BVP 8770 to find the setup instructions you need.



Other than the settings that vary in different interconnections. There are some common settings that should be done under in type of connection. Detailed information is as follows:

Common Settings

The following settings need to be done by users with any type of connection.





(see p. 39)

Note:

- 1. Host name and H.323 Alias are for terminal identification. The default settings are the same in all units. Therefore, you must change them.
- 2. You can set the number of rings before the system picks it up under the Auto Answer mode. The default is 4.

Connection IP ADSL Type Constant ADSL Single, Public, & Fixed

When the IP is used exclusively by BVP 8770



BVP 8770 System Setup



(see p. 37)

Note : IP address, Subnet Mask and Gateway are assigned by your ISP, each consisted of 4 sets of numbers with dots in between them. Check with your ISP for the information.



Connection ADSL Type Constant ADSL IP Single, Public, & Fixed

When the IP is shared with other devices (with a DHCP server connected)





(see p. 37)

Note : IP, Subnet Mask and Gateway are assigned by your DHCP server.



(see p. 39)

Note : The NAT door is the public IP of your router and this IP is assigned by your ISP.



Connection ADSL Type Constant ADSL IP Single, Public, & Fixed

When the IP is shared with other devices (without a DHCP server connected)



BVP 8770 System Setup



⁽see p. 37)

Note: You can assign your own IP, Subnet Mask and Gateway within your private segment. If the segment is 172.16.0.0-172.16.0.255, your settings should be:

IP : one chosen from the range between 172.16.0.1 to 172.16.0.254 **Subnet mask :** 255.255.255.0

Gateway : one chosen from the range between 172.16.0.1 to 172.16.0.254, usually 172.16.0.254, and can't be the same as your IP address.



```
(see p. 39)
```

Note : The NAT door is the public IP of your router and this IP is assigned by your ISP.



Connection ADSL Type Constant ADSL IP Multiple, Public, & Fixed

When BVP 8770 uses one of the IPs (with a DHCP server connected)



BVP 8770 System Setup



⁽see p. 37)

Note : IP, Subnet Mask and Gateway are assigned by your DHCP server.



System Setup (Cont'd) Connection IP ADSL Type Constant ADSL Multiple, Public, & Fixed

When BVP 8770 uses one of the IPs (without a DHCP server connected)



BVP 8770 System Setup



```
(see p. 37)
```

Note : IP address, Subnet Mask and Gateway are assigned by your ISP, each consisted of 4 sets of numbers with dots in between them. Check with your ISP for the information



Connection ADSL Type Constant ADSL IP Multiple, Public, & Fixed

When one of the IPs is shared with other devices (with DHCP server connected)



(see p. 37)

Phone Book

Note : IP, Subnet Mask and Gateway are assigned by your DHCP server.

Remote Update



Option

(see p. 39)

Note : The NAT door is the public IP of your router and this IP is assigned by your ISP.



Gateway: see note * : as default

Connection ADSL Type Constant ADSL IP Multiple, Public, & Fixed

When one of the IPs is shared with other devices (without a DHCP server connected)



BVP 8770 System Setup



```
(see p. 37)
```

Note: You can assign your own IP, Subnet Mask and Gateway within your private segment. If the segment is 172.16.0.0-172.16.0.255, your settings should be:

IP: one chosen from the range between 172.16.0.1 to 172.16.0.254Subnet mask : 255.255.255.0

Gateway: one chosen from the range between 172.16.0.1 to 172.16.0.254, usually 172.16.0.254, and can't be the same as your IP address.



```
(see p. 39)
```

Note : The NAT door is the public IP of your router and this IP is assigned by your ISP.



Connection ADSL Timing ADSL IP Single, Public, & Dynamic Type

When the ADSL is used exclusively by BVP 8770



BVP 8770 System Setup



(see p. 37)

Note : IP, Subnet Mask and Gateway are assigned by PPPoE.



(see p. 39)

Note : Press <OK> to go into a submenu where you enter the PPPoE username or password.



System Setup (Cont'd) Connection ADSL Type Timing ADSL IP Single, Public, & Dynamic

When the ADSL is shared with other devices (with a DHCP server connected)





(see p. 37)

Note : IP, Subnet Mask and Gateway are assigned by your DHCP server.



(see p. 39)

Note : The NAT door is the public IP of your router and is assigned by PPPoE.



System Setup (Cont'd) Connection ADSL Type Timing ADSL IP Single, Public, & Dynamic When the ADSL is shared with other devices (without a DHCP server connected)

BVP 8770

BVP 8770 into DMZ if your router supports this function.

Bandwidth Setup

Remote Update

System Setup

This router has to be able to provide the NAT service and the following static routes should be set : TCP port 1718-1720, 8058 and UDP port 8050-8060. Or you can put

Network Setup

Option

Server Setup

Terminal Setup

General PC 1. 2. ...n



Note: You can assign your own IP, Subnet Mask and Gateway within your private



Router

BVP 8770 System Setup

Configuration

Password

(see p. 37)

Phone Book

Note : The NAT door is the public IP of your router and is assigned by PPPoE.



IP Address: see note

Subnet Mask: see note

Gateway: see note

Phone No. : *

Connection Cable IP Single, Public, & Dynamic Type

When the IP is used exclusively by BVP 8770



BVP 8770 System Setup



(see p. 37)

Note : IP, Subnet Mask and Gateway are assigned by the DHCP server of your ISP.



Connection Cab	е Туре		IP	Single, Public, & Dynamic
----------------	--------	--	----	---------------------------

When the IP is shared with other devices (with a DHCP server connected)



Note : IP, Subnet Mask and Gateway are assigned by your DHCP server.



(see p. 39)

Note : The NAT door is the public IP of your router and is assigned by the DHCP server of your ISP.





When the IP is shared with other devices (without a DHCP server connected)



* : as default

(see p. 40)

Connection LAN Type
Firewall Packet Filter

With a DHCP server connected



BVP 8770 System Setup



Note : IP, Subnet Mask and Gateway are assigned by your DHCP server.



Connection LAN Type
Firewall Packet Filter

Without a DHCP server connected



BVP 8770 System Setup



⁽see p. 37)

Note: IP address, Subnet Mask and Gateway are assigned by your ISP. If you are using an IP segment, which is x.x.x.0-x.x.x.255, your settings should be:

IP: one chosen from the range between x.x.x.1 to x.x.x.254 Subnet mask: 255.255.255.0

Gateway : one chosen from the range between x.x.x.1 to x.x.x.254, usually x.x.x.254, and can't be the same as your IP address.



M NAT Connection LAN Firewall Packet Filter Type

With a DHCP server connected



Note : IP, Subnet Mask and Gateway are assigned by your DHCP server.



```
(see p. 39)
```

Note : The NAT door is the public IP of your router and is assigned by your ISP.



MNAT Connection LAN Type
Firewall Packet Filter

Without a DHCP server connected



Network Setup IP Address: see note Configuration System Setup Server Setup Phone No. : * Password Bandwidth Setup Terminal Setup Subnet Mask: see note Phone Book **Remote Update** Option Gateway: see note

(see p. 37)

Note: You can assign your own IP, Subnet Mask and Gateway within your private segment. If the segment is 172.16.0.0-172.16.0.255, your settings should be:

> **IP**: one chosen from the range between 172.16.0.1 to 172.16.0.254 Subnet mask : 255.255.255.0

Gateway: one chosen from the range between 172.16.0.1 to 172.16.0.254, usually 172.16.0.254, and can't be the same as your IP address.

* : as default





Note : The NAT door is the public IP of your router and this IP is assigned by your ISP.



Connection LAN Type V Firewall I NAT V Packet Filter

With a DHCP server connected



BVP 8770 System Setup



(see p. 37)

Note : IP, Subnet Mask and Gateway are assigned by your DHCP server.



Without a DHCP server connected



BVP 8770 System Setup



(see p. 37)

Note : IP address, Subnet Mask and Gateway are assigned by your ISP, each consisted of 4 sets of numbers with dots in between them. Check with your ISP for the



MAT MPacket Filter Type **V** Firewall Connection LAN

With a DHCP server connected



BVP 8770 System Setup



(see p. 37)

Note : IP, Subnet Mask and Gateway are assigned by your DHCP server.



(see p. 39)

Note : The NAT door is the public IP of your firewall and is assigned by your ISP.



MAT MPacket Filter Type IV Firewall Connection LAN

Without a DHCP server connected



This firewall must be able to enable packets I/O for TCP port 1718-1720, 8058 and UDP port 8050-8060 (for BVP 8770 exclusively).

It must also be able to provide the NAT service and the following static routes should be set: TCP port 1718-1720, 8058 and UDP port 8050-8060. Or you can put BVP 8770 into DMZ if your firewall supports this function.

BVP 8770 System Setup



⁽see p. 37)

Note: You can assign your own IP. Subnet Mask and Gateway within your private segment. If the segment is 172.16.0.0-172.16.0.255, your settings should be:

> **IP**: one chosen from the range between 172.16.0.1 to 172.16.0.254Subnet mask : 255.255.255.0

Gateway: one chosen from the range between 172.16.0.1 to 172.16.0.254, usually 172.16.0.254, and can't be the same as your IP address.



```
(see p. 39)
```

Note : The NAT door is the public IP of your firewall and this IP is assigned by your ISP.



5 Working with a Gatekeeper

If the Internet service you use applies the gatekeeper, it is important to be sure that certain settings are done as instructed below.





Note : You need to get a phone number from your gatekeeper service provider.

Server Setup



(see p. 38)

Note : You need to get the IP of the gatekeeper from your gatekeeper service

Terminal Setup



(see p. 39)

Note : The host name and H.323 alias may be assigned by your gatekeeper service provider.

Option



(see p. 40)

After finishing these settings, you don't need the IP address of the other party when making a call. Simply dial their phone number, then your call will get through. However, the other party has to be registered with the gatekeeper as well.

6 Making a Call

Before making a video call

Here are a few things you need to consider before making a video call.

1 Keep a distance of 0.5 meters away from BVP 8770.



- **2** Make sure of the most appropriate lighting source, preferably from the front with the beam on your face.
 - Ô

3 Avoid having lights behind you that might shine into the camera lens.



4 Do not point the BVP 8770 at a mirror or bright light.



5 Avoid having a lot of movement in the background and try not to move around excessively. Too much movement tends to slow down the frame rate of the video image, resulting in a jerky picture.

6 Use the self-view image and focus knob to get the best shot of yourself.





7 Adjust the hue and brightness of the screen for best image. $\sqrt{7}$





Making a video call

- Step 1 Turn on the power of the unit. The LCD screen shows the local view, the image of the caller.
- Step 2 Pick up the handset. Enter the desired IP address/number * (See note). Use the " * " key to input the dots between the numbers. When a key is pressed, the image on the LCD screen disappears and the numbers you input are displayed.
- Step 3 The other party answers the phone, and the video connection is established. You will be able to see the person you are talking to.
- Step 4 To end the connection, simply hang up the handset.
- Step 5 If there is difficulty in making connection, please make sure that BVP 8770 has been properly installed. Please also check if the network settings are correctly configured.

Power Saving Mode

The BVP 8770 incorporates a power saving circuit to protect its internal components and extend its service life.

If the BVP 8770 is inactive for 5 minutes, the LCD screen automatically shuts down and goes blank. The power indicator blinks.

The image returns to the screen when the handset is picked up or any key is pressed.

*Note: To dial numbers, BVP 8770 must work in conjunction with additional accessories, such as the H.323 Gatekeeper.

7 Making Adjustments

Using OSD menus

BVP 8770 allows you to use the cursor panel on the keypad to control OSD (on-screen-display) menus. The OSD menu is brought out by pressing the OK button on the cursor panel of the keypad. The figure below shows you what an OSD menu looks like:



Operating OSD menus – cursor panel explained



Brings up on-screen menu, enter the submenu. or confirm the selection made.

Moves the cursor right or enter the submenu.

Moves the cursor left or go back to the previous menu.

Moves the highlighted option down.



Moves the highlighted option up.

Goes back to the previous menu, or serves as the backspace key when inputting data.

Using OSD menus Configuration

Password Checking



Network Setup



After changing any setting under System Setup, you need to restart BVP 8770 (turn the power off and then turn it on) so the changes will take effect (see page 44).

Server Setup



After changing any setting under *System Setup*, you need to restart BVP 8770 (turn the power off and then turn it on) so the changes will take effect (see page 44).

Terminal Setup



Option



Note: You can change *Phone Number* only when *DHCP* is *ON*.

Phone Number is required when *GateKeeper* is set to *ON*, and its address must be unique. If you are not familiar with them, please contact your service provider.

After changing any setting under *System Setup*, you need to restart BVP 8770 (turn the power off and then turn it on) so the changes will take effect (see page 44).



The Bandwidth Setup in BVP 8770 divides the bandwidth into 5 levels: (in Kbps)

- 1. Under 128 2. 128 ~ 192 3. 192 ~ 256 4. 256 ~ 320
- 5. Over 320

Note that the bandwidth affects the quality of video transmission; a low bandwidth setting that leaves too much bandwidth unused is a waste of connection resources, and a high bandwidth setting that exceeds the bandwidth that is available will jam the transmission and the video quality will be far lower than expected.

To choose the bandwidth that makes the most effect use of your connection, read the following carefully.

For home users:

Set the bandwidth you wish to be used by the BVP 8770. It should not be more than the bandwidth of your type of connection.

Note for ADSL users:

The upload and download rates of BVP 8770 are the same. ADSL is a type of connection whose download rate is not the same with the upload rate. ADSL users are advised to set the lower rate of the two as the bandwidth to be used by BVP 8770.

For business users:

It is best to reserve a certain amount of bandwidth for videoconferencing on a LAN connection for the BVP 8770 users to set its bandwidth accordingly.



Should the update failure be caused by the update server, and the attempt of re-entering the update procedure be unsuccessful, the system will still function provided the step1 through step 4 of the instructions given above are followed in restarting the system.

The updated software will be created to suit the ongoing development of the internet environment. Users who continue to use BVP 8770 under the same connection, do not need to renew the software. If you do not know whether you should update the software under certain circumstances, visit our website at <u>http://www.leadtek.com.tw</u> for information you need.

Using OSD menus Configuration

Configuration Changed





Using OSD menus Phonebook ► Add

Adding to the phonebook



Search for a number



(Continued on next page)

Search for a number (cont'd)

(Continued from previous page)



Search for a number (cont'd)

Dial the searched number

 $\textcircled{\black}$ and $\textcircled{\black}$: Item selection



If you can not dial out with BVP 8770, please hang up or press the speakerphone button to return to local view, and try to dial again.

Search for a number (cont'd)

Edit the phonebook record of the searched number



Search for a number (cont'd)

Delete the phonebook record of the searched number



Using OSD menus Phonebook ► InBox

InBox contains the numbers of the 10 last received calls.



If you can not dial out with BVP 8770, please hang up or press the speakerphone button to return to local view, and try to dial again.

Using OSD menus Phonebook ► OutBox

OutBox contains the numbers of the 10 last dialed calls.



If you can not dial out with BVP 8770, please hang up or press the speakerphone button to return to local view, and try to dial again.

Using OSD menus Copyright Information

In local view screen, pressing "0000" will bring out a status screen with some information displayed, including the company name, copyright statement, and hardware/software version.



Using OSD menus Restore factory settings

In local view screen, pressing "*******" (eight asterisks) will bring out a dialog window, asking if you want to restore all settings to factory default (see below). Press () to begin the process. Press () Clear to cancel.



OSD Menu Tree



9 Trouble Shooting

Error messages in bootup sequence

In factory default setting, the local view will be displayed when BVP8770 is powered on. If the system is not correctly set up, any of the three messages will appear on screen, as shown below. Please press (a) and refer to *Chapter 4: System Setup* and *Chapter 5: Working with a Gatekeeper* to set up the system correctly.



Error messages in changing System Setup settings

When the user changes the settings in System Setup menu, BVP8770 will automatically check if the configuration is set up correctly before leaving OSD menu. If any item is not properly configured, an error message as well as the remedy will be displayed. Please follow the instructions on the screen and refer to *Chapter 4: System Setup* and *Chapter 5: Working with a Gatekeeper* for correct settings.

DHCP is OFF.

Please assign the IP address.

DHCP is set to OFF but the IP address is not assigned. When BVP 8770 does not use DHCP to get an IP, you have to assign an IP for it. Please assign the IP address.

PPPoE is ON. Please assign the username. PPPoE is set to ON but the username is not given. The username is required when you use PPPoE. Please assign the PPPoE username that you use to login.

Host Name is empty. Please assign it. The Host Name is empty. BVP 8770 can not work without a Host Name. Please input a Host Name for BVP 8770.

Error messages in changing System Setup settings (cont.'d)

Gatekeeper is ON. Please assign the Gatekeeper IP. Gatekeeper is set to ON but the Gatekeeper IP is not assigned.. Please assign the Gatekeeper IP for the Gatekeeper to work.

Gatekeeper is ON. Please assign the phone no. or alias. Gatekeeper is set to ON but the phone no. or alias is not assigned. Please assign the phone no. or alias.

NAT is ON. Please assign the NAT door. NAT is set to ON but the NAT door is not assigned. Please assign the NAT door so the NAT can work.

Other problems

Your BVP 8770 is reliable and easy to use. If you encounter any problem while using this product, please refer to the table below for possible solutions.

Power Indicator OFF

Plug power adapter in the power outlet in the wall. Plug the power cord in the unit. Turn on the power switch.

Video of local view is dark



Increase light on the image and reduce back lighting.

No image is displayed on LCD screen



Make sure the power indicator is ON

If auxiliary video input is used on TV, select the appropriate video input for TV.

The unit is not responding when the "OK" button is pressed



Be sure the RJ-45 wire is plugged into the "WAN" jack directly on the BVP 8770.

Can not dial an IP address



Plug RJ-45 cable into "WAN" jack on the unit.

Plug RJ-45 cable from wall socket into "WAN" jack on the unit.

Video in local view has a red cast



Aim the BVP 8770 at a strong white light source momentarily. Increase the room light level.

Video connection is not established correctly



Hang up and call again. Make sure the remote video phone is compatible with H.323 standard.

Ask the other party call you.

Green or yellow blocks appear in the remote picture

Probable cause is bad connection (noisy line). Hang up and try again. This time, ask the other party to call you.

10 Tech Support

In the event of not finding the solution to your problem, please contact your local distributor. You may also contact our technical support staff, E-mail to <service@leadtek.com.tw>.

Product name:

It will be easier for our staff to answer your question if you know the name of the product.

Detailed description of your problem:

Please describe in detail all the problems you encountered, including the kind of software and hardware you are using, and the contents of your system files.

11 Limited Warranty

Leadtek warrants to the original purchaser of this product that it shall be free of defects resulting from workmanship or components for a period of one (1) year from the date of sale. Defects covered by this Limited Warranty shall be corrected either by repair or, at Leadtek's discretion by replacement. In the event of replacement, the replacement unit will be warranted for the remainder of the original one (1) year period or thirty (30) days, whichever is longer. THERE ARE NO OTHER ORAL OR WRITTEN WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING BUT NOT LIMITED TO THOSE OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

This Limited Warranty is nontransferable and does not apply if the product has been damaged by negligence, accident, abuse, misuse, modification, misapplication, shipment to the Manufacturer or service by someone other than the Leadtek Transportation charges to Leadtek are not covered by this Limited Warranty. To be eligible for warranty service, a defective product must be sent to and received by Leadtek within fourteen (14) months of the date of sale and be accompanied with proof of purchase. Leadtek does not warrant that this product will meet your requirements; it is your sole responsibility to determine the suitability of this product for your purposes. Leadtek does not warrant the compatibility of this product with your computer or related peripherals, software.

LEADTEK'S SOLE OBLIGATION AND LIABILITY UNDER THIS WARRANTY IS LIMITED TO THE REPAIR OR REPLACEMENT OF A DEFECTIVE PRODUCT. THE MANUFACTURER SHALL NOT, IN ANY EVENT, BE LIABLE TO THE PURCHASER OR ANY THIRD PARTY FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES OR LIABILITY IN TORT RELATING TO THIS PRODUCT OR RESULTING FROM ITS USE OR POSSESSION.

This limited warranty is governed by the laws of Taiwan.

12 FCC Statement

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- This device may not cause harmful interference.
- This device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class B digital device pursuant to Part 15 of FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.
- Shielded interface cables must be used in order to comply with emission limits. Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.