BVP 8759 *User's Manual*





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Table of Contents

1	Getting Started1
2	What's In The Package2
3	Getting to Know Your BVP 87593
	Front view
	Rear view 4
	Using remote control 5
4	Installation8
	Installing the unit
5	System Setup 11
	ADSL/Constant ADSL/Single, Public, & Fixed IP 12
	When the IP is used exclusively by BVP 8759 12
	When the IP is shared with other devices (with a DHCP
	server connected) 13
	When the IP is shared with other devices (without a DHCP
	server connected) 14
	ADSL/Constant ADSL/Multiple, Public, & Fixed IP 15
	When BVP 8759 uses one of the IPs (with a DHCP server
	connected) 15
	When BVP 8759 uses one of the IPs (without a DHCP
	server connected) 16
	When one of the IPs is shared with other devices (with
	a DHCP server connected) 17
	When one of the IPs is shared with other devices (without
	a DHCP server connected) 18

Table of Contents

6

ADSL/Timing ADSL 19
When the ADSL is used exclusively by BVP 8759 19
When the ADSL is shared with other devices (with a DHCP
server connected)
When the ADSL is shared with other devices (without a
DHCP server connected) 21
Cable
When the IP is used exclusively by BVP 8759 22
When the IP is shared with other devices (with a DHCP
server connected)
When the IP is shared with other devices (without a DHCP
server connected)
LAN/No Firewall or NAT 25
With a DHCP server connected 25
Without a DHCP server connected
LAN/NAT
With a DHCP server connected 27
Without a DHCP server connected 28
LAN/Firewall with Packet Filter 29
With a DHCP server connected 29
Without a DHCP server connected 30
LAN/Firewall with NAT & Packet Filter
With a DHCP server connected
Without a DHCP server connected
Making a Call 33
Before making a video call 33
Making a video call
Icon explanations

Table of Contents

7	Using OSD Menus	37
	Password Checking	37
	Configuration	38
	System Setup	38
	Network Setup	38
	Server Setup	39
	Terminal Setup	40
	NTP Setup	41
	Service Setup	42
	Call Service Setup	42
	Auto Answer Setup	44
	Advanced Setup	45
	Option	46
	Bandwidth Setup	47
	Remote Update	48
	Password	49
	Phonebook	50
	Add	50
	Search	51
	In Box	54
	Out Box	55
	Copyright Information	56
	Restore Factory Settings	57
8	OSD Menu Tree	. 58
9	Trouble Shooting	. 59
10	Tech Support	60
11	Limited Warranty	. 61
12	FCC Statement	. 62

1 Getting Started

Overview

The BVP 8759 is designed to avoid complicated installation. And with the buttons on the remote control, you are able to access the user-friendly on screen display menu (OSD), easily control the functions and make adjustments.

The BVP 8759 has a built-in high quality CCD camera. 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. The BVP 8759's private mode can do just that.

The BVP 8759 is fully compliant with SIP (Session Initiation Protocol) international standards for video communication. It can be used with any video phone that are compatible with this standard.

Feature highlights:

- Broadband IP address videophone
- Onnect the other videophone by simply entering the phone number
- Built-in high quality CCD camera
- Friendly and easy operation through remote control
- Phonebook dialing function
- I A/V input for additional video/audio input
- 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
- I serial port for PTZ camera control
- 2 USB 1.1 connectors provide USB application extension

What's In The Package



3 Getting to Know Your BVP 8759

Front view



Rear view



Using remote control



- 1. Camera
- 2. Number keys
- 3. PTZ Camera zoom in
- 4. Navigation key
- 5. Navigation key
- 6. Navigation key
- 7. Menu
- 8. Source
- 9. Phonebook
- 10. Video key (privacy, view)
- 11. Mute

- 12. Soft key 1 (reserved)
- 13. On-hook / Off-hook
- 14. PTZ Camera zoom out
- 15. Navigation key
- 16. Ok
- 17. Cancel
- 18. Outbox
- 19. Inbox
- 20. Mirror
- 21. Soft key 2 (reserved)

Using remote control (cont.'d)

◀

Cursor Panel

Used with OSD menus; to move the cursor left or to go back to the previous menu. During a video call, used to reduce the incoming video bit rate.

Used with OSD menus; (to move the cursor down. During a call, to turn the volume of the speakerphone down.

Hot Keys



MENU:

To bring out the OSD menu.



Phonebook:

To bring out the phonebook menu. See page 50.

Video Key (Privacy, View): Privacy:

Stop sending your image to the other side so that you will not be seen by the person you talk to. **View:**

To select how local and remote video is displayed on the screen. The options are: Remote, PIP upper-left, PIP lower-left, PIP upper- right, PIP lower-right, Local. And it switches in that sequence.

Mute:

During a video call, this button is used to mute the audio so that you will not be heard by the other party on the phone. Used with OSD menus; to move the cursor up. During a call, to turn the volume of the speakerphone up.

Used with OSD menus; to move the cursor right or to enter the sub menu. During a video call, used to raise the incoming video bit rate.

OK: Used with OSD menus; to enter the sub menu, or to confirm the selection. During a call, related to the "Call Waiting" option (see page 42).

Cancel:

To cancel a selection, or to function as Backspace when you input letters or numbers.

) IN-BOX:

To bring out the menu that contains the numbers of the 10 last received calls.

OUT-BOX:

To bring out the menu that contains the numbers of the 10 last dialed calls.

) Source:

Select between the built-in and the external A/V source.



Mirror:

To toggle mirror video on/off.

) CAMERA Camera:

To switch between STB and external PTZ camera.

Using remote control (cont.'d)

Numeric Keypad

Inputting numbers

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

For example, pressing $\underbrace{8}_{TUV}$ 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 below 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, $\frac{7}{PQRS}$ has the number " 7 " on it and the letters " PQRS " below 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 will generate the letter " Q ", four times the letter

" R ", and five times the letter " S ". And it will cycle in such order.

Inputting punctuation marks

The keypad provides four punctuation marks:

- ". ": Press (*) twice consecutively;
- ", ": Press $\underbrace{*}_{\cdot,\cdot}$ three times consecutively.
- ": ": Press () twice consecutively.
- "; ": Press $\underbrace{0}_{ii}$ three times consecutively.

Inputting special characters

The keypad also provides three special characters: " " * " and " # ". " ": Press 1 twice consecutively; " * ": Press * once.

Numeric Keypad

Switching between upper case and lower case letters Press # once to switch between upper and lower case letters when inputting data.





Installing the unit

Step 1 Pick a good spot

Stability

Place your BVP 8759 on top of a counter, desk, or table with the CCD camera opening in front.

Or you can install BVP 8759 on the wall by fixing the included mounting plate to the wall with screws and sliding the slot on the back of BVP 8759 onto the mounting plate.

Lighting condition

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

View of camera

Avoid using BVP 8759 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 8759 in abnormal conditions. High temperatures or excessive humidity could cause the unit to malfunction and shorten its useful lifespan.

Step 2 Connect the Ethernet cable

Plug one end of the Ethernet cable in the jack marked " \u2265 " on BVP 8759. Plug the other end of the Ethernet cable in the RJ-45 jack of the Internet device (hub, router, or ATU-R).



Installing the unit (cont'd)

Step 3 Plug in for power

Connect the power cord between the wall outlet and the power adapter. Plug the free end of the power adapter into the power connector (DC IN) on BVP 8759.



Notes for removing the power cord

The connector on the power adapter has a mechanism which, when connected to the videophone, will be locked to the power connector. To remove the power cord from the videophone, follow the steps below:

- 1. Grab the connector and slide it outward to loosen the lock.
- 2. Gently pull the connector until the cord is fully disconnected.



Note: Do not force the connector or pull the cord abruptly, or the power adapter may be damaged.

Installing the unit (cont'd)



External Microphone (Optional)

System Setup

The System Setup section gives instructions on how to set up your BVP 8759 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 8759 to find the setup instructions you need.



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

When the IP is used exclusively by BVP 8759



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)



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



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.

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

When BVP 8759 uses one of the IPs (with a DHCP server connected)



PPPoE Password(►)

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

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

When BVP 8759 uses one of the IPs (without a DHCP server connected)



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)



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

System Setup (Cont'd) 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 8759 System Setup



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.

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

When the ADSL is used exclusively by BVP 8759



Note : IP, Subnet Mask and Gateway are assigned by PPPoE. PPPoE Username and Password are assigned by your ISP.

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)



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

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) Internet ATU-R BVP 8759 General PC 1, 2, ...n This router has to be able to provide the NAT service and the following static routes

This router has to be able to provide the NAT service and the following static routes should be set: TCP port 1720-1730 and 7000-7009 and UDP port 8050-8058. Or you can put BVP 8759 into DMZ if your router supports this function.

BVP 8759 System Setup



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.

Connection Cable Type -- IP Single, Public, & Dynamic

When the IP is used exclusively by BVP 8770



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

Connection	Cable	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.



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



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.

Connection LAN Type Firewall NAT Packet Filter

With a DHCP server connected



BVP 8759 System Setup



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

Connection LAN Type Firewall NAT Packet Filter

Without a DHCP server connected



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.

Connection LAN Type Firewall NAT Packet Filter

With a DHCP server connected



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

System Setup (Cont'd) NAT DPacket Filter Connection Type 🛛 Firewall LAN Without a DHCP server connected Internet Router General PC 1, 2, ...n **BVP 8759** _____ This router has to be able to provide the NAT service and the following static routes should be set: TCP port 1720-1730 and 7000-7009 and UDP port 8050-8058. Or you can put BVP 8759 into DMZ if your router supports this function. **BVP 8759 System Setup** System Setup Network Setup Configuration Service Setup Server Setup Password **Terminal Setup Bandwidth Setup** Phonebook **Remote Update NTP Setup** (see p. 37) **Connect Type: STATIC** IP address: see note Subnet Mask: see note Gateway: see note **PPPoE Username(**▶) PPPoE Password(►)

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.

Connection LAN Type V Firewall NAT V Packet Filter

With a DHCP server connected



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

Gateway: see note PPPoE Username(►) PPPoE Password(►)



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.

Connection LAN Type V Firewall V NAT V Packet Filter

With a DHCP server connected



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

Connection LAN Type V Firewall V NAT V Packet Filter

Without a DHCP server connected



This firewall must be able to enable packets I/O for TCP port 1720-1730 and 7000-7009 and UDP port 8050-8058 (for BVP 8759 exclusively).

It must also be able to provide the NAT service, and the following static routes should be set: TCP port 1720-1730 and 7000-7009 and UDP port 8050-8058. Or you can put BVP 8759 into DMZ if your router supports this function.

BVP 8759 System Setup



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.

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 8759.



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



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



Do not point the BVP 8759 at a mirror or bright light.



- 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.
- Use the self-view image to get the best shot of yourself.







Making a video call

Step 1 Turn on the power of the unit. The bootup screen is shown on the TV.



Bootup screen

Step 2 Press the button on the remote control. Enter the desired phone number. When a key is pressed, the bootup screen disappears and the numbers you input are displayed.

Please input phone number

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 press the **Cro** button.

Step 5 If there is difficulty in making connection, please make sure that the BVP 8759 has been properly installed. Please also check if the network settings are correctly configured.



Dialing (local view)

Icon explanations

When BVP 8759 is powered on, a bootup screen will be displayed, as the figure shown below. There are icons around the screen indicating various statuses of the unit, as explained below.



Icon explanations

After the connection is established, the Up/Down information is displayed on the upper left corner of the screen, and it will disappear in a few seconds.

The antenna icon on the lower right corner indicates the connection status. The sun icon means the Ethernet cable is connected to the unit.

If the sun icon disappears, it means the Ethernet cable is not connected.

Up: 192kbps Down: 192kbps

7 Using OSD Menus

Password Checking



Note:

Only after you enter the correct password can you change the settings in the OSD menu.

Network Setup

Connect Type: (note) IP address: 192.168.1.1 Subnet Mask: 255.255.255.0 Gateway: 192.168.1.254 PPPoE Username (▶) PPPoE Password (▶)

Connect Type:

STATIC: IP address/Subnet Mask/Gateway have to be assigned (Consult your ISP).

DHCP: IP address/Subnet Mask/Gateway will be assigned by DHCP server.

PPPoE: PPPoE Username/PPPoE Password have to be assigned (Consult your ISP).



Server Setup

SIP Server: ********* Port: **** Domain: ******** Re-Reg.(1~24h): 1 DNS: 172.16.0.2 NTP Server: 204.152.184.72 Update Server: 0.0.0.0

SIP Server:

SIP Server: Please contact your SIP service provider to get the IP of the SIP server.

Port: Please contact your SIP service provider (the default port number is 5060).

Domain: Please contact your SIP service provider to get the domain name.

Re-Reg.(1~24h): Please contact your SIP service provider.

DNS: Please contact your SIP service provider to get the IP of the Domain Name Server.

<u>NTP Server:</u> Please contact your SIP service provider to get the IP of the NTP Server. You can also set it to the IP of the Network Time Protocol (NTP) public time servers.

Update Server: Please contact your SIP service provider to get the IP of the Update Server.

Terminal Setup



<u>Phone No.</u>: Consult your SIP Service Provider for Phone No. <u>Login Name/Login Password:</u> Consult your SIP Service Provider.

NTP Setup

Timer Zone: GMT 00:00 Daylight savings: OFF

Time Zone:

Please set the time zone according to the place you are using the phone. If there is daylight saving in your area, please set Daylight saving to ON.

Call Service Setup

```
Call Forward: OFF
Forward No.(▶)
Call Waiting: OFF
Audio Priority: G.711UA,G.729
Video: ON
```

Call Forward:

OFF: Forward No. does not have to be assigned.

No Answer: A call will be forwarded after a number of rings (the same as "Num. Of Rings" in Option menu). Please assign Forward No.

Busy: When you are in a call and another call comes in, it will be forwarded. Please assign Forward No.

Always: Every call will be forwarded. Please assign Forward No.

```
Forward No.:
```

There will be a number 9 on the bottom left corner of the screen, indicating the current input mode. Press # button to cycle through 9 (numbers), 1 (upper case letters), and 2 (lower case letters) for your desired input mode.

Call Waiting:

ON: When you are in a call and another call comes in, you will hear a reminding tone. Press (∞) to answer the call and switch between both.

Audio Priority:

There are four options: G.711UA,G.729 / G.711AU,G.729 / G.729,G.711UA / G.729,G.711AU. We recommend the default setting: G.711UA,G.729

Call Service Setup

Video:

ON: BVP 8759 can be used to make a video call.

OFF: BVP 8759 can only be used to make a voice call.

Auto Answer Setup



Auto Answer (ON/OFF):

ON: BVP 8759 will automatically pick up the phone.

If you set Auto Answer to ON but would like to retain security, please set a Password. The other party has to enter the password to establish the connection.

The password is limited to a maximum of eight characters.

<u>Num. Of Rings: (0~9):</u>

When Auto Answer is ON, you can set the number of rings before BVP 8759 automatically picks up the phone.

Ringer (High/Low):

You can set the volume of the ringer to *High* or *Low*.

Advanced Setup

```
QoS Mode(▶)
Country Tone: Taiwan
Auto Provision: OFF
Timer(1~24h): 1
```

QoS Mode:

QoS Type (DSCP/TOS/OFF): Please contact your ISP (Internet Service Provider) to determine which QoS to use.

Country Tone:

Taiwan/HK/China: Please set according to where you are using BVP 8759.

Auto Provision (ON/OFF):

ON: When BVP 8759 is turned on and connected to the network, your SIP service provider will check the information of your BVP 8759, including user profile and firmware versions, and will update the firmware to the latest version.

Timer(1~24h): Set the interval for BVP 8759 to check for updates.

Option



Video TX/RX Info:

ON: In a video call, you can monitor the bandwidth of incoming and outgoing video.

Language:

English/Traditional Chinese/Simplified Chinese: Choose the language for the OSD Menu.

Media Detection (ON/OFF):

If you plan to keep BVP 8759 connected for a long period of time, please set to OFF.

Using OSD menus Configuration ► Bandwidth Setup

Bandwidth Setup

Video Bandwidth:	
1. 40 Kbps	
2. 64 Kbps	
3. 90 Kbps	
4. 128 Kbps	
5. 192 Kbps	
6. 256 Kbps	
7. 384 Kbps	
8, 512 Kbps	

Please set the bandwidth according to the bandwidth your ISP provides.

Note: Do not set the bandwidth to higher than what your ISP provides to avoid the instability of video quality.

Remote Update



Note: If BVP 8759 has the same software version as the Update Server, the software will not be updated, and BVP 8759 will return to the standby screen.

After the update is completed, BVP 8759 will automatically reboot.

Using OSD menus Password



Using OSD menus Phonebook ► Add

Adding to the phonebook



Using OSD menus Phonebook ► Search

Search for a number



(Continued on next page)

Using OSD menus Phonebook ► Search



Using OSD menus Phonebook ► Search



Using OSD menus Phonebook ► In Box

InBox contains the numbers of the 30 last received calls.



If you can not dial out with BVP 8759, please press the button to return to local view, and try to dial again.

Using OSD menus Phonebook ► Out Box

OutBox contains the numbers of the 30 last dialed calls.



If you can not dial out with BVP 8759, please press the 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 software version, including main s/w and LAN s/w.



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 \bigcirc to begin the process. Press \bigcirc to cancel.







Trouble Shooting

Your BVP 8759 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 unit. Plug the power cord in the power outlet in the wall.

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 TV screen

Make sure the power indicator is ON, and select the appropriate video input for TV.

Video in local view has a red cast



Aim the BVP 8759 at a strong white light source momentarily. Increase the room light level.

The unit is not responding when the (or) button is pressed



Be sure the ethernet cable is plugged into the " 晶 " port directly on the BVP 8759.

Video connection is not established correctly



Can not dial a phone number



Plug ethernet cable from the Ethernet device into the " 品 " port on the unit.

Green or yellow blocks appear in the remote picture



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> with the following information:

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.