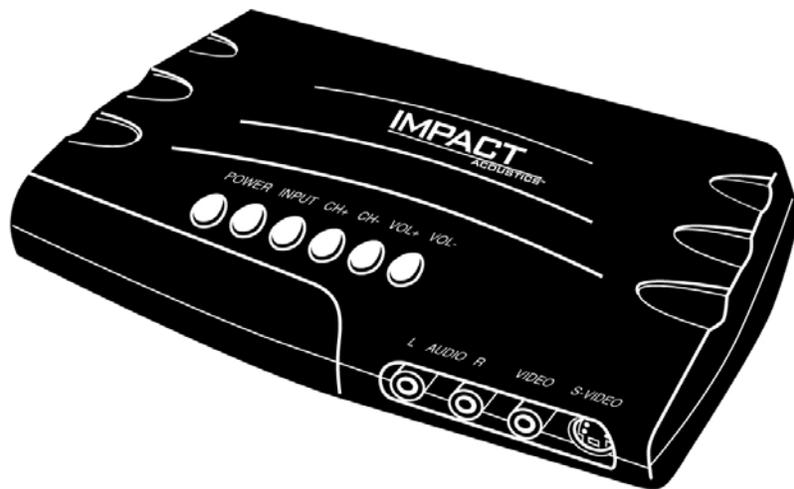# Multi-Function Converter w/CATV Tuner & PIP

Model: 40972

Operation Manual

Operational Manual
Multi-Function Converter w/CATV Tuner & PIP
Converts a CRT or LCD computer monitor to a television set
Model: 40972

Thank you for purchasing the Multi-Function Converter w/CATV Tuner & PIP. We hope that you will be pleased with the functionality and capabilities that this converter offers. **We recommend that you read this manual thoroughly and retain for future reference.**
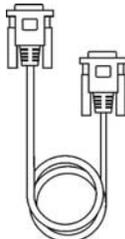

Function:

The imaging method of a CRT or LCD monitor is quite different from a television set. CRTs and LCDs utilize non-interlace scanning to form an image on the screen while the TV uses interlaced scanning. It becomes apparent that an LCD or CRT monitor is better for long time viewing and the CRT or LCD has higher resolution than a TV. Traditional television sets have limited resolution (Horizontal Lines) and CRT or LCDs generally have more than two to three times the resolution. The Multi-Function Converter turns your CRT or LCD into a second TV with higher picture quality and stability for DVD, VCR, Video Games and television viewing.

Package Contents

Before connecting your devices, please make sure that the package contents include the following accessories:

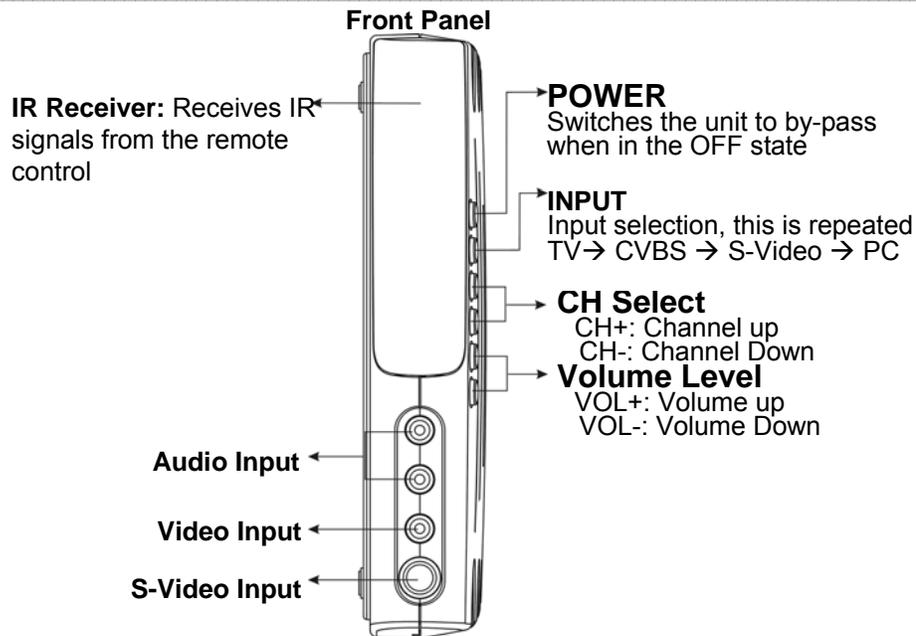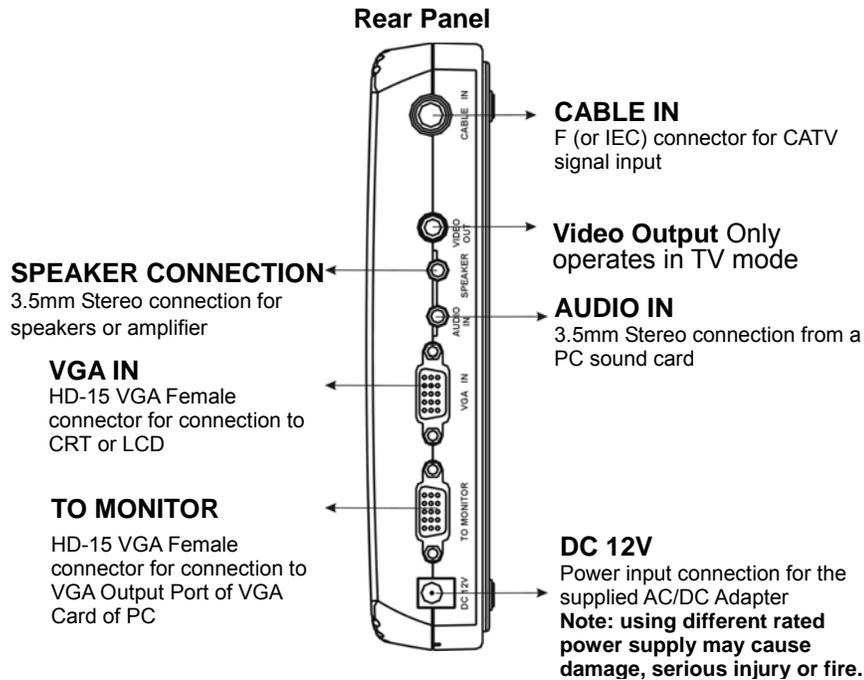| Remote Control | VGA Cable | 3.5mm Audio Cable | AC/DC Adapter | Base | AAA Batteries |

Table of Contents

Features:

- **Plug 'n' Play: No software required**

- **Full Channel Selection for CATV up to channel 125**

- **4 output resolutions, 1024X768, 800X600, 640X480, 852X480 (Mac)**

- **Stylish Design, can place upright (stand included) or horizontal**

- **Full-function remote control**

- **Front panel AV and S-Video inputs; Rear panel VGA in/out and 3.5mm audio in/out**

- **Adjustable TV function: brightness, hue, color, etc.**

- **Auto-Scan channel programming**

- **MTS Stereo for a true theater like experience**

Connecting the Converter:

Front Panel

IR Receiver: Receives IR signals from the remote control

POWER
Switches the unit to by-pass when in the OFF state

INPUT
Input selection, this is repeated
TV→ CVBS → S-Video → PC

CH Select
CH+: Channel up
CH-: Channel Down

Volume Level
VOL+: Volume up
VOL-: Volume Down

Audio Input

Video Input

S-Video Input

Rear Panel

CABLE IN
F (or IEC) connector for CATV signal input

Video Output Only operates in TV mode

SPEAKER CONNECTION
3.5mm Stereo connection for speakers or amplifier

AUDIO IN
3.5mm Stereo connection from a PC sound card

VGA IN
HD-15 VGA Female connector for connection to CRT or LCD

TO MONITOR
HD-15 VGA Female connector for connection to VGA Output Port of VGA Card of PC

DC 12V
Power input connection for the supplied AC/DC Adapter
Note: using different rated power supply may cause damage, serious injury or fire.

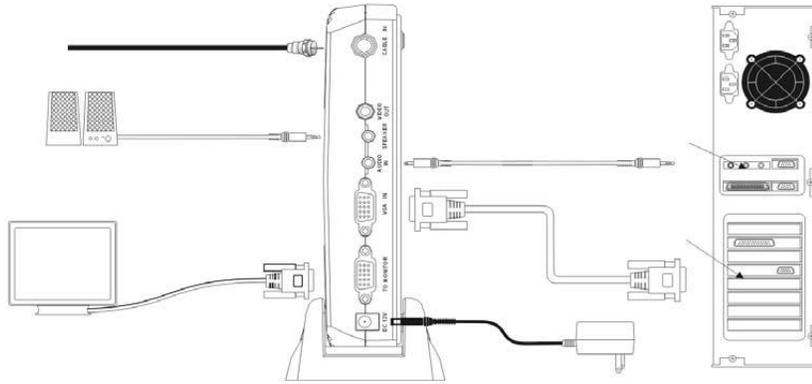## To connect to a PC:

1. Place your Multi-Function Video Converter near the monitor.

2. Connect the CATV cable to the "CABLE IN" jack on the back panel.

3. Connect the monitor's VGA cable to the "TO MONITOR" jack on the back panel. Tighten the screws as a loose connection will cause picture distortion.

4. Connect your multimedia (computer) speaker (**please note the connector should be 3.5mm male stereo type**) to "SPEAKER" on the back panel.

5. Connect the supplied 3.5mm audio cable to the speaker output of your PC sound card and the opposite end to the "AUDIO IN" on the back panel.

6. Connect the supplied AC/DC adapter to "DC 12V" on the back panel and then plug into a standard 110~120Volt receptacle. **NOTE: Using a differently rated adapter may result in damage to the unit, risk of electrical shock and possible fire.**

7. Turn on your monitor and then push the "POWER" button on the Multi-Function Converter. You should have a TV image on your LCD or CRT screen. Turn off the Multi-Function converter and your computer should be displayed.

To connect a source device –
If your video source has a composite video output, follow these steps:

1. Connect the 3-RCA patch cable to the output of your; game, DVD, VCR, etc. (pay special attention to color coding; YELLOW for video, WHITE for left audio and RED for right audio).

2. Connect the other end of RCA patch cable to the "Video/Audio Input" on the front panel of Multi-Function Converter (paying attention to color coding).

If your video source has a S-Video output, follow these steps:

1. Connect the S-Video and 2-RCA patch cable to the output of your; game, DVD, VCR, etc. (pay special attention to connector orientation and color coding; WHITE for left audio and RED for right audio).

2. Connect the S-Video patch cable to the S-Video input and the 2-RCA patch cable to the "AUDIO" on the Multi-Function Converter (pay special attention to connector orientation and color code).

3
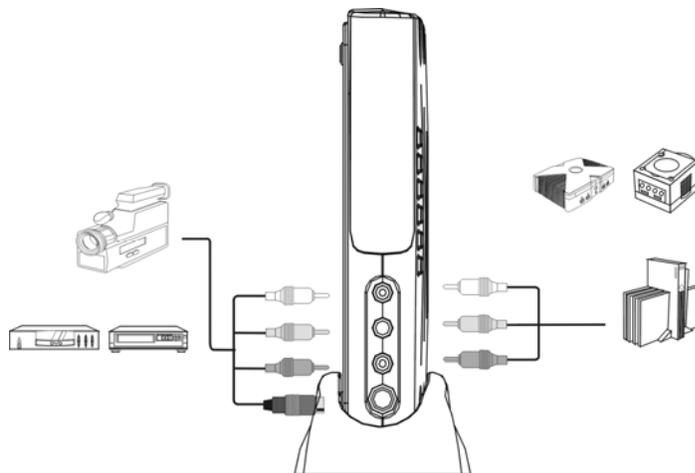
Operating the Multi-Function Converter

Remote control functions

VOL+/-: Volume Control

CH+/-: Channel up/down

MTS (NTSC)
Second Audio
Program Select

MUTE:
Mute key for audio
muting

CH+/-: channel
up/down (only valid in
TV/CATV mode)

Select: selection key
(should work with
"MENU" key)

MENU: Setting of TV
function

FC SCAN: Scan
function of TV/CATV
Channel (only valid in
TV/CATV mode)

FC MEMO: selection
of the Output
Resolution

OSD: OSD Display

Power: TV/PC mode
selection

INPUT: Source
selection between
different sources

Volume Control:
Volume Control for
TV, Video, S-Video
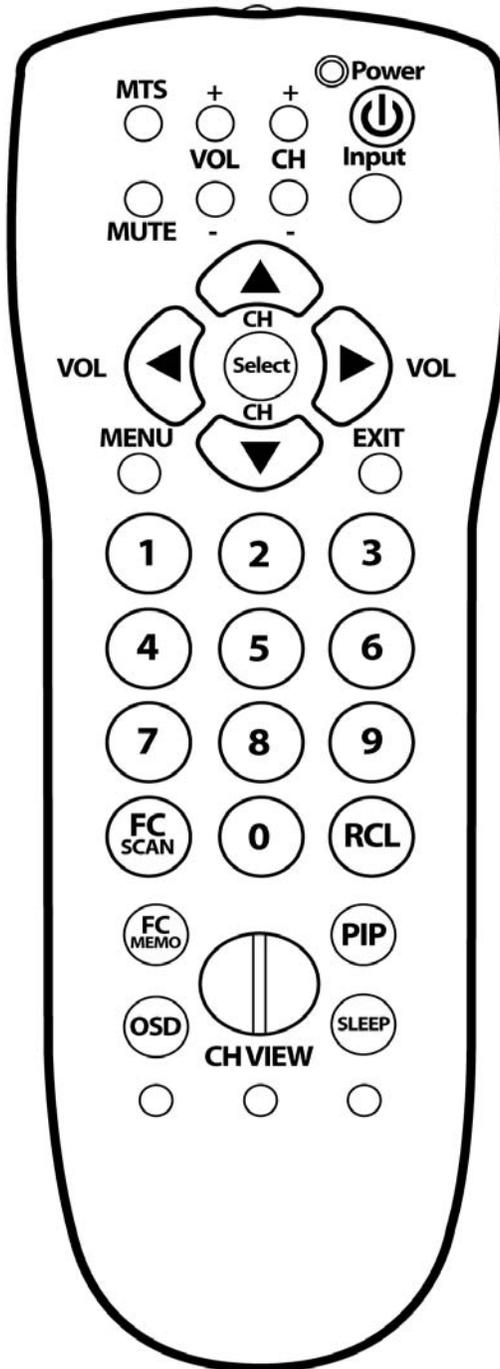
EXIT: exit key (for
use with the "Menu"
key)

Numeric Key: 0~9

RCL: Last Channel
Recall (only valid in
TV/CATV mode)

PIP: PIP Function
Key

Sleep: Timer for
sleep

9 Channel Preview

4

Operating the Multi-Function Converter con't

(1) MTS
When you are watching a CATV Program, use this button to select the audio output mode.
(Please note: not all the CATV Programs are broadcast in MTS STEREO)

MONO ⇨ Press "**MTS**" SAP ⇨ Press "**MTS**" STEREO

(2) Power
When the power is switched "ON", the Multi-Function Converter operates in CATV mode. When the power is switched "OFF" the Multi-Function Converter will pass through PC video. Please note that if your PC is off, when you press this button to PC mode, there will be no video on your screen.
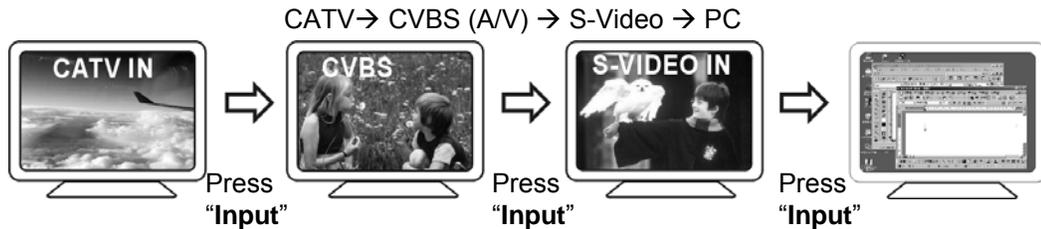
CATV IN ⇨ Press "**Power**"

(3) MUTE
To MUTE the audio, press this button. To resume audio, press this button or "VOLUME UP" Please Note: this function only works in "CATV Mode".

0 ◄▮▮▮▯40 ⇨ Press "**Mute**" MUTE

(4) Input Source Selection
There are four possible sources for the Multi-Function Converter. You can press this button to select between Composite Video Base-Band Signal (CVBS), S-Video, CATV and PC. The selection mode is repeated.

CATV→ CVBS (A/V) → S-Video → PC

CATV IN ⇨ Press "**Input**" CVBS ⇨ Press "**Input**" S-VIDEO IN ⇨ Press "**Input**"

5

(5) Channel +/-

Press + for channel
up or - for channel down.
Please note these keys only
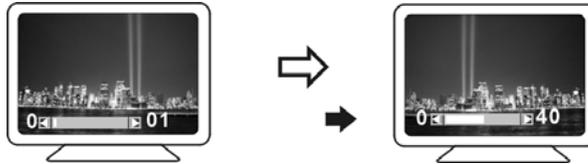operate in CATV MODE
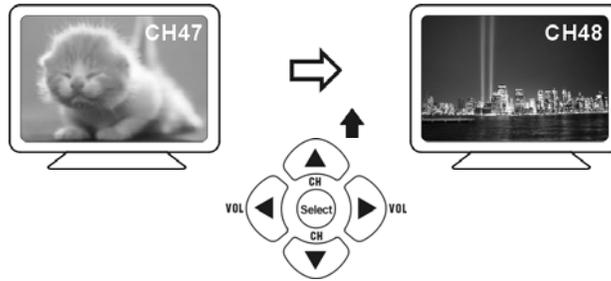
(6) Navigate/Select

These keys navigate the "MENU"
to make adjustments.

(7) VOL +/-

Adjusts the listening level
of the audio you hear.
+ for volume up,
- for volume down.
Please note these keys only
operate in CATV MODE

(8) MENU

Adjustment of the Multi-Function Converter,
there are 6 selections available,

MENU

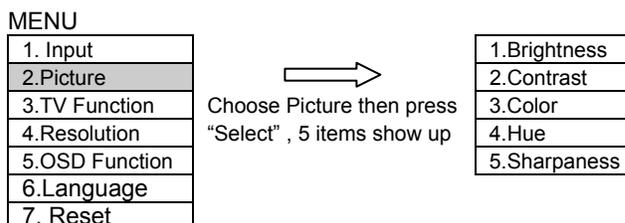| |
|---|
| 1.Input |
| 2.Picture |
| 3.TV Function |
| 4.Resolution |
| 5.OSD Function |
| 6.Language |
| 7. Reset |

1. Input:

There are 4 selections available, use the navigation keys to choose what you like. Press the "Select" key to finish the operation.

MENU

1.Input
2.Picture
3.TV Function
4.Resolution
5.OSD Function
6.Language
7. Reset

Choose Input then press
Select, 4 items show up

1.TV
2.CVBS
3.S-Video
4.PC
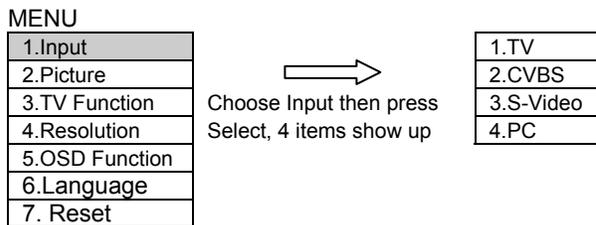
2. Picture: Setting the Picture Parameters

There are 5 adjustments available within this function. Navigate over the intended adjustment and press "SELECT". Use the left and right arrows to make the adjustment.

Brightness is for adjusting the brightness on your screen.
Contrast is for adjusting the contrast of the Picture.
Color is for adjusting the color of picture.
Hue is for adjusting the saturation of Color.
Sharpness is for adjusting the sharpness of Picture.

MENU

1. Input
2.Picture
3.TV Function
4.Resolution
5.OSD Function
6.Language
7. Reset

Choose Picture then press
"Select" , 5 items show up

1.Brightness
2.Contrast
3.Color
4.Hue
5.Sharpaness

3. TV Function

There are 6 adjustments available within this function. To make an adjustment, highlight the item you want to adjust, press the "Select" key on the remote and make the adjustment. ← key to adjust lower, → to adjust higher.

> **TV System → "CATV"**
> **Channel Edit→ "Add", "Erase" 2 selections**
> **Fine Tune: Fine tuning the TV frequency,**
> **MTS→ MONO, STEREO, SAP**
> **Full Scan: Scan the available television channels**
> **Channel Scan: Scan television Channels with internal frequency map**

MENU

1. Input
2.Picture
3.TV Function
4.Resolution
5.OSD Function
6.Language
7. Reset

⟹ Choose TV Function then press "Select", 4 items show up

| 1.TV system |
|---|
| 2.Channel Edit |
| 3.Fine Tune |
| 4.MTS |
| 5.Full Scan |
| 6.Channel Scan |
| |

4. Resolution

There are 6 adjustments available within this function. To make an adjustment, highlight the item you want to adjust, press the "Select" key on the remote and make the adjustment. ← Key to adjust lower, → to adjust higher.

> **640X480 60Hz, 800X600 60Hz, 852X480 60Hz, 1024 X768 60Hz,**
>
> **640X480 75Hz, 800X600 75Hz, 852X480 75Hz, 1024 X768 75Hz**

MENU

1. Input
2.Picture
3.TV Function
4.Resolution
5.OSD Function
6.Language
7. Reset
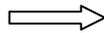
⟹ Choose Resolution then press "Select" , 8 items show up

1. 640 X480 60Hz
2. 800X600 60Hz
3. 852X480 60Hz
4.1024X768 60Hz
5. 640 X480 75Hz
6. 800X600 75Hz
7. 852X480 75Hz
8. 1024X768 75Hz

5. OSD Function

There are 2 adjustments available within this function. To make an adjustment, highlight the item you want to adjust, press the "Select" key on the remote and make the adjustment. ← key to adjust lower, → to adjust higher.

OSD Position: Select "OSD Position" and press ↓↑→← to adjust the image position.

OSD Color: Choose the color of OSD Message

MENU

| 1. Input |
| 2.Picture |
| 3.TV |
| 4.Resolution |
| 5.OSD |
| 6.Language |
| 7. Reset |

⟹

Choose OSD then

"Select", 2 items show

| 1.OSD Position |
| 2. OSD Color |
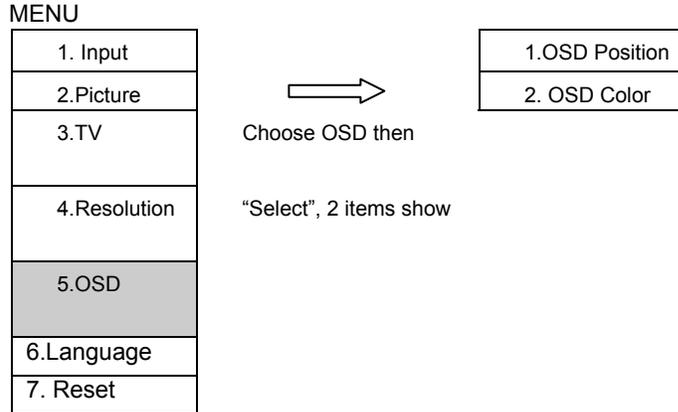
6. Language:

There are 2 adjustments available within this function. To make an adjustment, highlight the item you want to adjust, press the "Select" key on the remote and make the adjustment. ← key to adjust lower, → to adjust higher.

1. English 2.Chinese

7. Reset

Select this function to bring the Multifunction Video Converter to original factory settings.

(9) EXIT

In "MENU" functions, press this key to return to Main MENU or exit set up.

(10) Numeric Key

You can directly select the channel you want to watch. Please note these keys are only active in TV Mode.

(11) SCAN

When you set up Multifunction Video Converter for the first time, it is recommended to press this key to search for television channels available in your area and store them into memory. There are 3 selections available:

1. Full Scan,

2. Channel Scan

3. Exit.

Full Scan: scans the available channels by frequency (recommended).

Channel Scan: scans the available channels according to the internal pre-set channel map.

Please Note: this key is valid in TV Mode only.

(12) RCL

Press to return to the previous channel. Please Note: this key is valid only in TV Mode only.

(13) FC MEMO

There are 8 resolution selections available, and this function is cyclic. **640X480 60Hz, 800X600 60Hz, 852X480 60Hz, 1024 X768 60Hz, 640X480 75Hz, 800X600 75Hz, 852X480 75Hz, 1024 X768 75Hz**

(14) OSD Function

Press this key to review the input source and/or channel selected, press again to remove the display from view.

(15) 9 Channels Preview
Please note: This function is only valid in TV mode only

You can preview up to 9 channels. To select a channel from the preview, press numeric key 1-9 or press a numeric key twice to cancel.
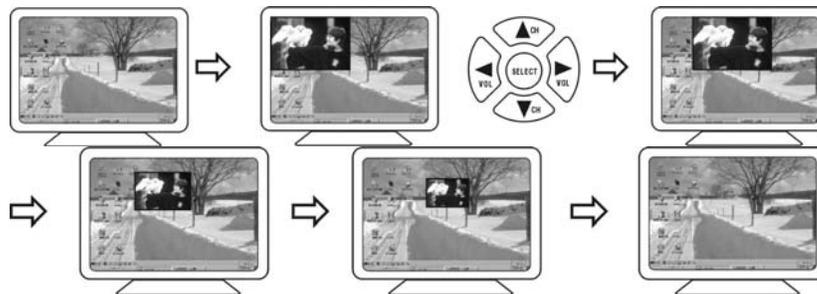

TV mode   Press this key   9 Channel Preview

press a numeric key (0-9) to view the channel shown in 9 channels
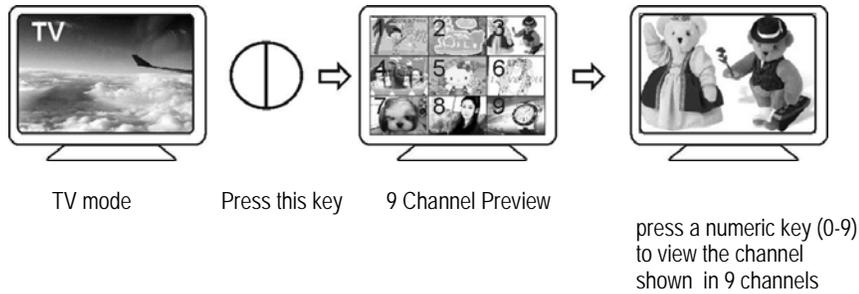
(16) Sleep
Press the SLEEP key to active the sleep timer. This will turn the unit off after the pre-set time.

1. 5 min
2. 10 min
3. 15 min
4. 30 min
5. 60 min
6. 90 min
7. OFF

(17) PIP Function
There are 4 PIP modes; 1/4, 1/9, 1/16 and off, the selection mode is cyclic. Use the navigation keys (arrow keys) to position the PIP display on the screen. When you activate the PIP display, the last source selected will be displayed.

Troubleshooting:

Problem	Solution
No picture	1. Compare all connections to the appropriate illustrations to verify correct connectivity. 2. Make sure the power adapter is connected to the electrical supply and the converter. 3. Make sure that the selected mode is the same as the input signal, and then perform *Auto Scan*.
No sound	1. Compare all connections to the appropriate illustrations to verify correct connectivity.
No response while using the remote control	1. Make sure that you are pointing to the IR sensor window within 20ft. and within +/- 15 degrees of the unit. 2. Check batteries and replace with new ones if necessary.

Specifications:

CATV/TV Input	75 Ohm "F" type female connector
Video Input	Composite Video, S-Video
Composite Video	75Ohm, 1V p-p via RCA type connector
S-Video	75Ohm, 1V p-p via 4-Pin mini-DIN
Audio Input (Signal Source)	Stereo Audio via 2 RCA type connectors
Audio Input (PC)	Stereo Audio via 3.5mm stereo connector
VGA In	HD-15 Female
Power-AC/DC adaptor	12 V DC 500mA (UL, CE)
VGA Output	HD-15 Female
Video Output (only Valid on TV Mode)	75Ohm, 1V p-p via RCA type connector
Audio Output	Stereo Audio via 3.5mm stereo connector
Regulatory specification: **Complies with requirements of:**	FCC 15.225 FCC Part 15-Class B ICES-003 CE

Replaceable Parts

In the event of a lost or damage part, the following replaceable accessories are available. Please call 877-AV-EXPERT for order information.	Part Number: 98000- AC/DC adapter 98023- Remote control

10

Impact Acoustics™ One Year Warranty

At Impact Acoustics, we want you to be totally confident in your purchase. That is why we offer a one year warranty on this device. If you experience problems due to workmanship or material defect for the duration of this warranty, we will repair or replace this device. To request a Return Merchandise Authorization (RMA) number, contact customer service at 877-AV-EXPERT or www.impactacoustics.com.

Important Safety Information

! Do not plug the unit in any outlet that does not have enough current to allow the switch to function. Refer to the specifications in this manual for power level of the unit.

! Liquid:
If this unit or its corresponding power adapter has had liquid spilled on or in it, do not attempt to use the unit.
Do not attempt to use this product in an outdoor environment as elements such as rain, snow, hail, etc. can damage the product.

! In case of a storm, it is recommended that you unplug this device from the outlet.

! Avoid placing this product next to objects that produce heat such as portable heaters, space heaters, or heating ducts.

! THERE ARE NO USER SERVICEABLE PARTS
Do not attempt to open this product and expose the internal circuitry. If you feel that the product is defective, unplug the unit and refer to the warranty information section of this manual.

IMPACT
ACOUSTICS™