

AVerMedia® AVerVision150

User Manual



AVerMedia

AVerMedia®
Document Camera

FCC NOTICE (Class A)



This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

NOTE- This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. 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. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

CAUTION ON MODIFICATIONS

To comply with the limits for the Class A digital device, pursuant to Part 15 of the FCC Rules, this device must be installed in computer equipment certified to comply with the Class A limits. All cables used to connect the computer and peripherals must be shielded and grounded. Operation with non-certified computers or non-shielded cables may result in interference to radio or television reception.

Changes and modifications not expressly approved by the manufacturer could void the user's authority to operate this equipment.

European Community Compliance Statement



Class A

This product is conformity with the protection requirements of EU Council Directives 89/336/EEC amended by 92/31/EEC on the laws of the Member States relating to electromagnetic compatibility.

Warning- This is a Class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures to correct this interference.

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THE MARK OF CROSSED-OUT WHEELED BIN INDICATES THAT THIS PRODUCT MUST NOT BE DISPOSED OF WITH YOUR OTHER HOUSEHOLD WASTE. INSTEAD, YOU NEED TO DISPOSE OF THE WASTE EQUIPMENT BY HANDING IT OVER TO A DESIGNATED COLLECTION POINT FOR THE RECYCLING OF WASTE ELECTRICAL AND ELECTRONIC EQUIPMENT. FOR MORE INFORMATION ABOUT WHERE TO DROP OFF YOUR WASTE EQUIPMENT FOR RECYCLING, PLEASE CONTACT YOUR HOUSEHOLD WASTE DISPOSAL SERVICE OR THE SHOP WHERE YOU PURCHASED THE PRODUCT.

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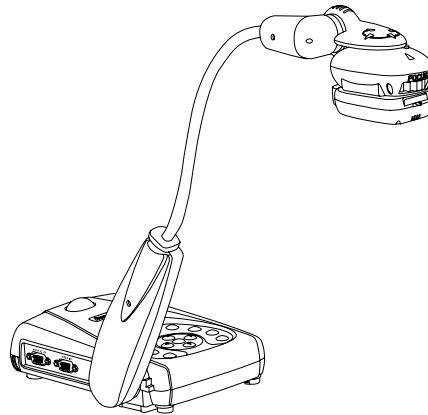
Introduction

Thank you for purchasing the AVerMedia® AVerVision150. This document camera displays any documents, negatives, transparencies and 3D objects onto a TV, LCD or DLP projector making presentations a snap.

AVerVision150 is an ideal presentation tool for business, academic, medical and the scientific community.

AVerMedia

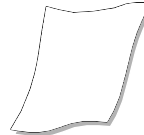
Package Contents



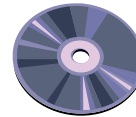
AVerMedia® AVerVision150



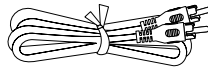
User Manual



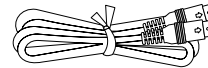
(1) Anti-glare Sheet



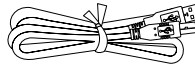
Driver CD



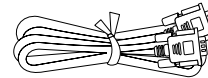
RCA Cable



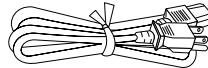
S-Video Cable



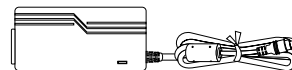
USB Cable



Computer Extension cable
(VGA Cable)



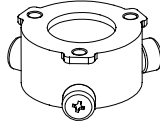
Power Cord



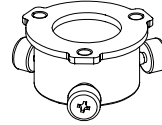
Power Adapter

* The power cord will vary depending on the standard power outlet of the country where it is sold.

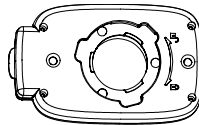
Optional Accessories



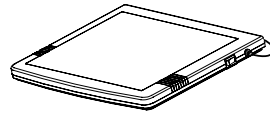
34mm Microscopic Adapter



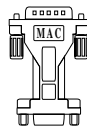
28mm Microscopic Adapter



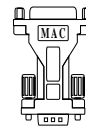
Microscopic Coupler



Light Box



Monitor Adapter (for MAC)

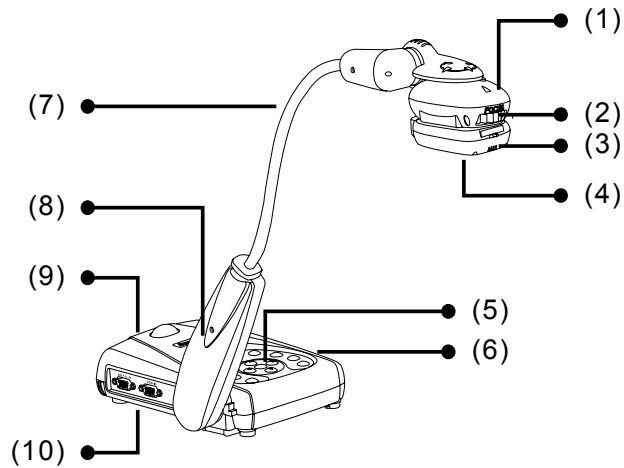


Computer Adapter (for MAC)

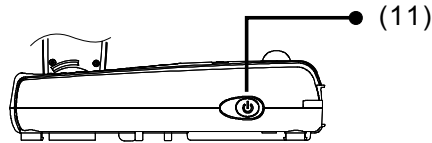
AVerVision150 Parts

The illustrations below identify the parts of AVerVision150.

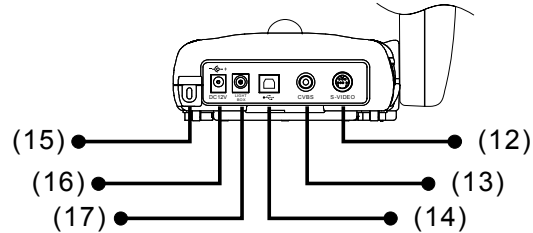
- (1) Camera head
- (2) Focus wheel
- (3) LED light module
- (4) Camera lens
- (5) Control panel
- (6) Right panel
- (7) Gooseneck
- (8) Arm
- (9) Rear panel
- (10) Left panel
- (11) Power button
- (12) S-Video output port
- (13) Composite video output port
- (14) USB port
- (15) Security slot
- (16) DC 12V port
- (17) Light box power port
- (18) VGA input port
- (19) VGA output port



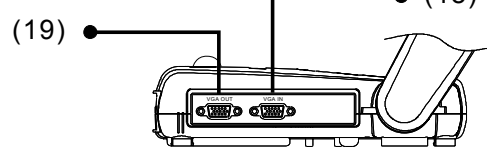
Right Panel



Rear Panel



Left Panel



Technical Specifications

Image

Sensor	1/2" progress scan CMOS
Effective Pixels	3 Mega pixels
Frame Rate	24 fps (max.)
White Balance	Auto / Manual
Exposure	Auto / Manual / Flicker / Night View
Image mode	Text / Graphics / High Frame
Effect	Color / B/W / Negative;
Analog RGB output	XGA 75 Hz; SVGA 60 Hz; VGA 60 Hz
H Sync. Signal	60 K / 37.879 K / 31.469 KHz, TTL level
V Sync. Signal	75 Hz / 60Hz / 60 Hz, TTL level
Image Signal Level	0.7 Vpp
Image Capture	Up to 32 Frames

Optics

Lens	F3.0; fl=9.6mm
Focusing	Manual
Shooting Area	360mm x 270mm (max.);
Zooming	AVERZOOM: 2x, Digital Zoom: 4x
Power Source	100-240V ~ 4.0-4.2A, 50-60Hz
Consumption	6 Watts (lamp off); 9 Watts (lamp on)

Lighting (Optional)

Lamp Type	LED lamp without laser pointer
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Input/Output

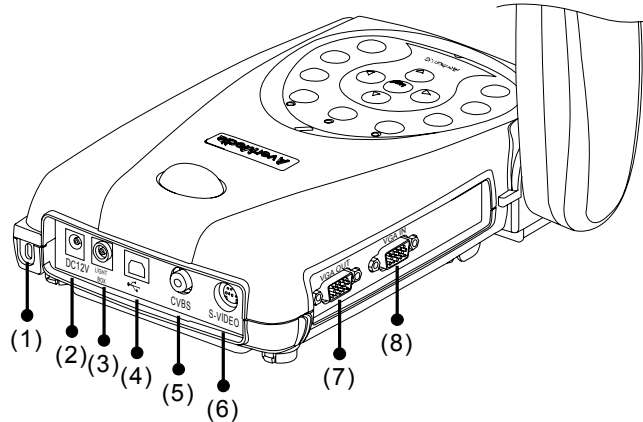
VGA Input	15-Pins D-sub (VGA)
VGA Output	15-Pins D-sub (VGA)
S-Video	Mini-DIN Jack
Composite Video	RCA Jack
USB	USB1.1
DC 6V Output	Power Jack

Dimension

Operating	220mm x 140mm x 570mm
Folded	380mm x 170mm x 55mm
Weight	2 kg (about 4.4 lb)

Making the Connections

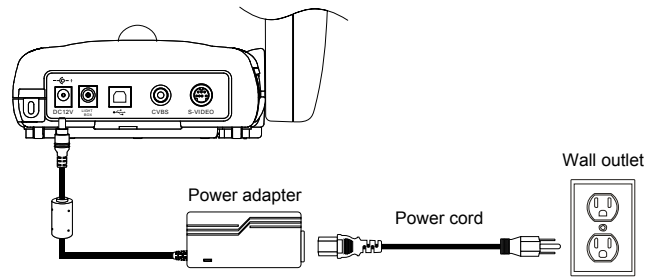
The ports on the back and side panel of the AVerVision150 enable you to connect the unit to a computer, graphics display monitor or LCD/DLP projector, TV or other device. Illustrated below are the ports that are located at the back and side panel of the AVerVision150 with their corresponding labels.



Port	Description
(1) Antitheft Slot	Attach a Kensington compatible security lock or antitheft device.
(2) DC 12V (input)	Connect the power adapter into this port.
(3) Light Box Port	Plug the optional light box into this port.
(4) USB1.1 Port	Use AVerVision150 as a PC Camera or Mass storage device allowing you to transfer the captured images to and from the AVerVision150 memory and PC.
(5) CVBS Port (RCA/Composite)	Output the signal from the camera or the captured images from the memory on TV or Video equipment.
(6) S-VIDEO Port	Output the signal from the camera or the captured images from the memory on TV or Video equipment.
(7) VGA OUT Port	Output RGB signal from the camera, VGA input port, or the captured images from the memory on a VGA/Mac monitor or LCD/DLP projector.
(8) VGA IN Port	Input RGB signal from a computer or other sources and pass it through to the VGA output port only. Connect this port to the VGA output port of the computer.

Connecting the Power Adapter

Connect the power adapter to a standard 100V~240V AC power source.

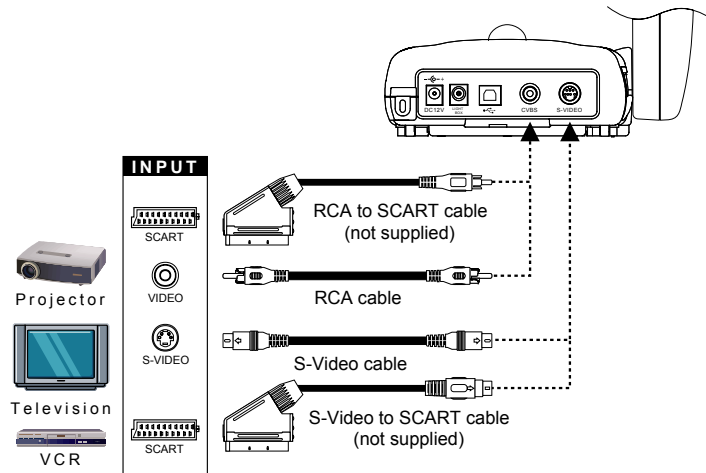


Connecting a TV

Locate the video, s-video or SCART RGB input port of the TV or Video equipment (i.e., VCR) to record your presentation on a videotape. If you are not sure, please refer to the user manual of the TV or Video equipment.



- For better video quality, we strongly suggest using s-video connection.
- Press VGA/TV button on the control panel to switch output presentation to TV.

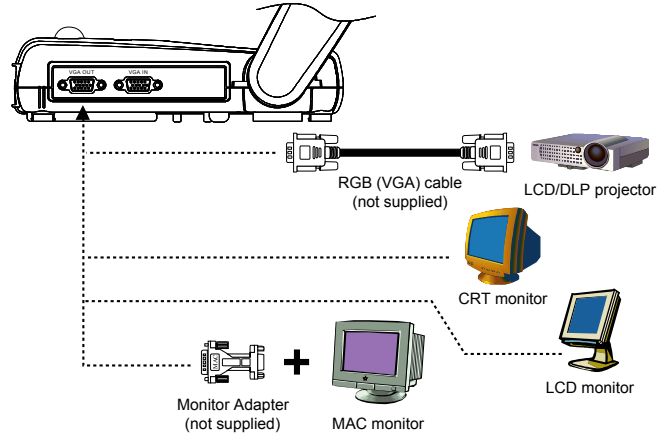


Connecting a VGA, Mac Display Monitor or LCD/DLP Projector

Locate the RGB (VGA) input port of the display device. If you are not sure, please refer to the user manual of the device.

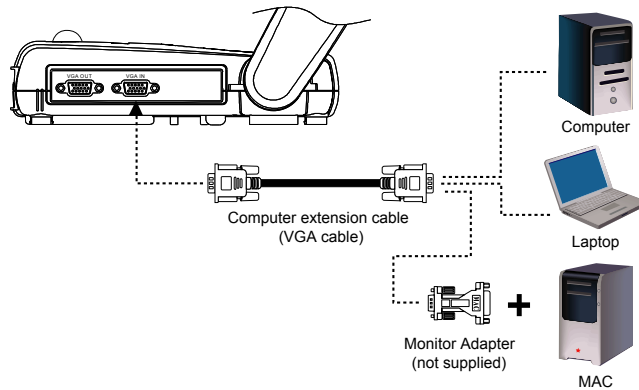


Press VGA/TV button on the control panel to switch output presentation to VGA.



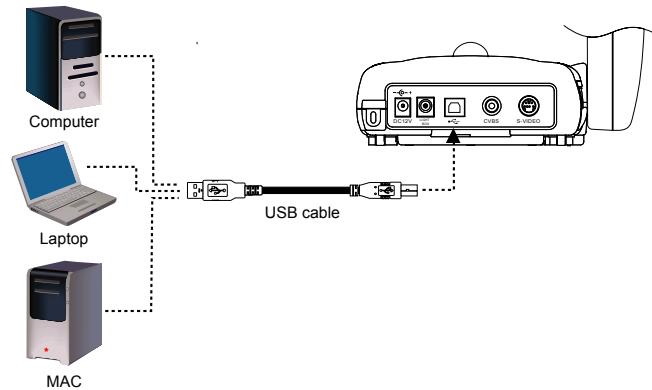
Connecting an IBM Compatible PC or Macintosh Computer

Locate the RGB video output port of the computer or laptop to display your PC presentation on screen. AVerVision150 supports active pass-thru connectivity, wherein the video signal from the VGA input port is continuously streamed to VGA output port and displayed on screen even when the AVerVision150 is turned off.



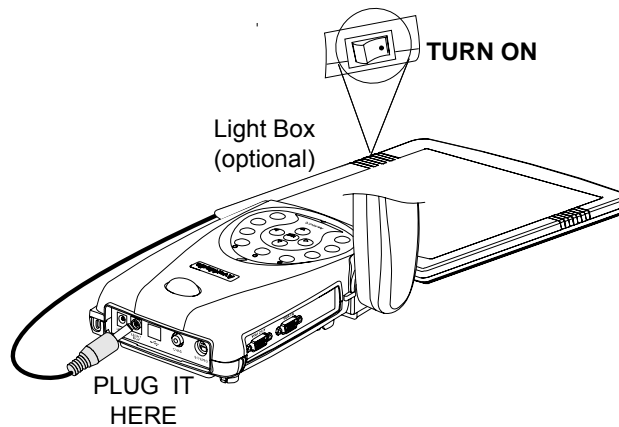
Connecting a Computer via USB Connection

Locate the USB port of the computer or laptop. This enables you to use AVerVision150 as a PC Camera and to transfer the captured images to and from the memory and computer. Also see "Using the AVerVision Application" and "Transfer Image from AVerVision150 to PC".



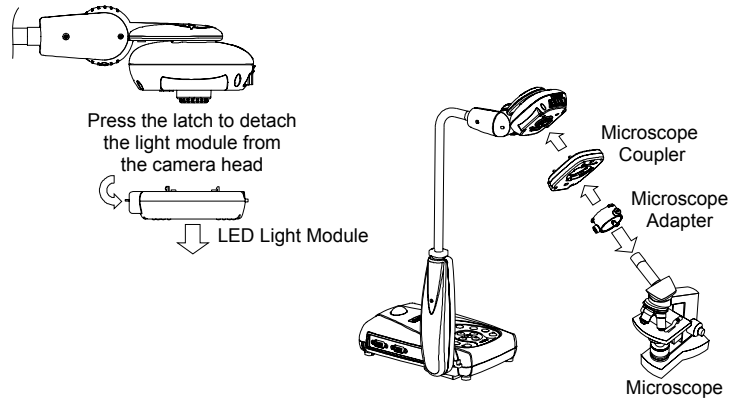
Installing the Optional Light Box

Connecting an optional light box enables you to view x-rays, transparencies and negative slides.



Connecting to a Microscope

Connecting the AVerVision150 to a microscope enables you to examine microscopic objects on a big screen without straining your eyes.

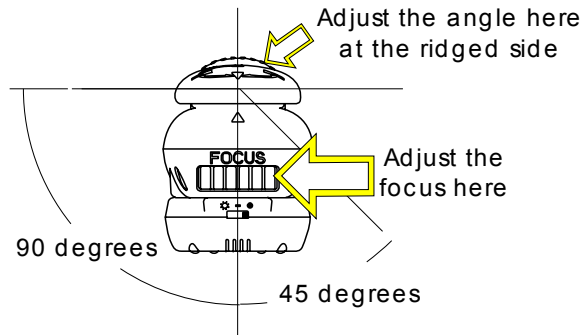


Setting Up AVerVision150

This section provides useful tips on how to adjust the AVerVision150 to meet your needs.

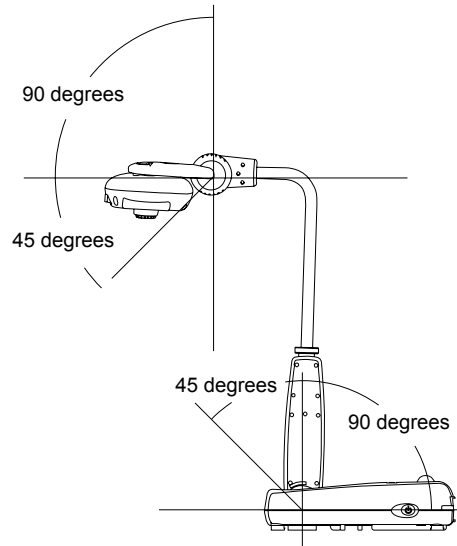
Camera Head

The camera head can be rotated 135 degrees from left to right. You can also manually adjust the focus from here to improve the quality of the pictures.



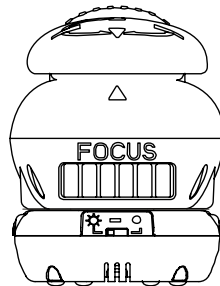
Flexible Gooseneck and Arm

The flexible gooseneck and Mechanical arm design allows you to position the camera head from any angle.

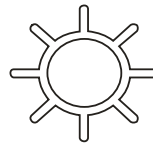


LED Light Module

The LED light module provides white light and it is best use when presenting in low lightning condition.



Turn on LED Light

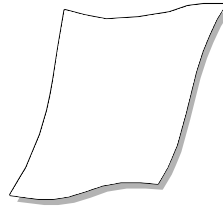


Turn off LED Light



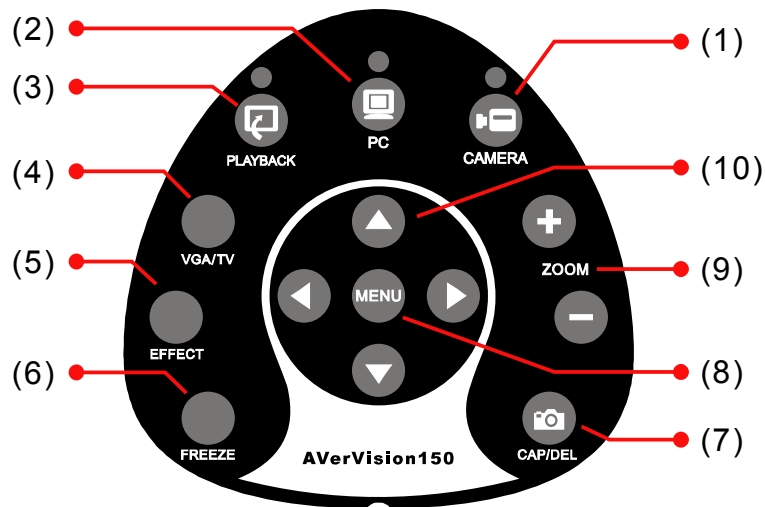
Anti-glare Sheet

The anti-glare sheet is a special coated film that helps eliminate any glare you may encounter when you are displaying very shiny object or glossy surfaces such as magazines, pictures, etc. Simply place the anti-glare sheet on top of the shiny document to reduce reflected light.




Touch Button Control Panel

The touch button control panel located on the top side of the AVerVision150 provides quick access to commonly used functions.



Function	Description
(1) CAMERA MODE	Switch to Camera mode and display the image from the AVerVision150's document camera.
(2) PC MODE	Switch to PC mode and display the video signal from the VGA IN port.

<i>Function</i>	<i>Description</i>
(3) PLAYBACK MODE	Switch to Playback mode and toggle to display 32-thumbnail images and project the image in full screen.
(4) VGA/TV	Switches between VGA (VGA Out) or TV (Composite Video/S-Video Out).
(5) EFFECT	Convert and display the video in BW, Negative or Color. (camera mode only)
(6) FREEZE	Toggle to pause or resume the camera.
(7) CAP/DEL	Photograph an image in Camera Mode. The captured image is automatically stored in the built-in memory at 1024 x 768 resolution and it can save up to 32 images. Permanently remove the selected image in Playback Mode.
(8) MENU	Call up and exit the OSD main and sub-menu.
(9) ZOOM +/-	<ul style="list-style-type: none"> - Zoom in and zoom out the picture digitally in Playback mode. - Zoom in and zoom out the image optically and digitally in Camera mode. When it reaches the maximum AVERZOOM level of about 2 times, you can still continue to digitally zoom in the image up to 800%.
(10) ▲ ▼ ◀ ▶	<ul style="list-style-type: none"> - Use ▲, ▼, ◀ and ▶ to make a selection and adjustment. And use ▶ to enter sub-menu. (See Menu Functions, for more details) - Use ▲, ▼, ◀ and ▶ to make a selection in 32-thumbnail images and press  to view the selected image.

LED Panel

The LED on the front panel of AVerVision150 indicates the status of the unit.

Color	Description
Green	The unit is operated with VGA output.
Orange	The unit is operated with TV output
Red	The unit is in standby mode.

Using the AVerVision Application

Use the AVerVision PC Camera applications provided to control the AVerVision150 to save any captured images or video clips to your PC, or send them via emails.

Note: If AVerVision150 is used in PC Camera mode, the frame rate could drop to below 12 fps.

Installing the Software

Minimum System Requirements

- Pentium®-class processor
- Windows2000 Professional with Service Pack 2, Windows XP Professional or Home, or Windows XP Tablet PC
- 32 MB of RAM (64 MB recommended)
- 60 MB of available hard-disk space

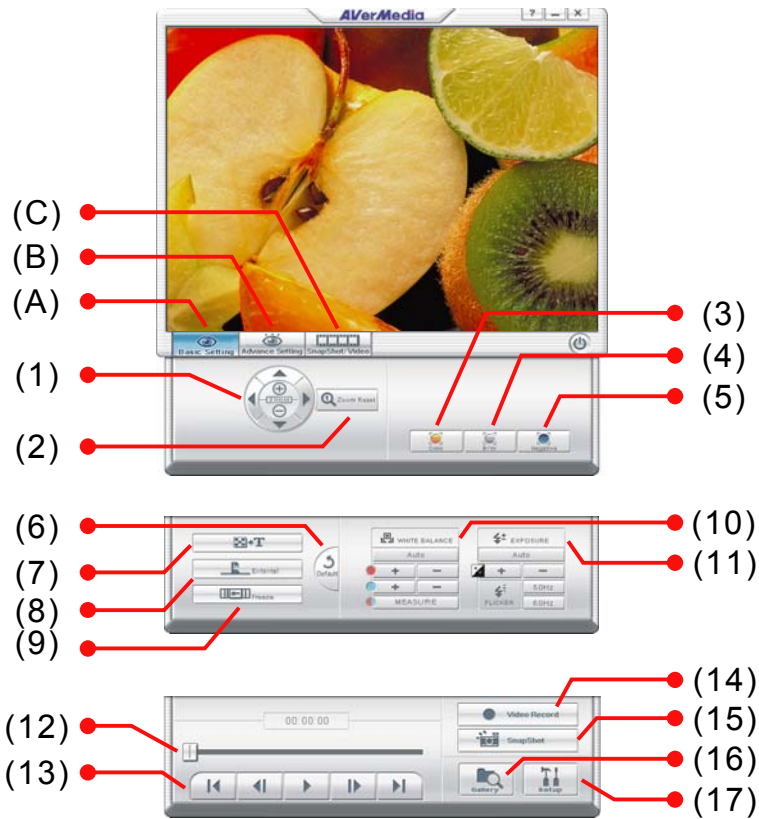
To install PC Camera Applications:

1. Insert your Software CD into your CD-ROM drive, and click on "PC Camera Applications" and follow the instructions.



2. Click "Finish" to complete installation.
3. After the installation, connect the USB cable between the AVerVision150 and your PC. Open the applications by clicking "VisionAP" icon on your desktop.

Application User Interface



A. Basic Setting

Function	Description
1	Digital Zoom and Pan Control
2	Return to normal view (1X)
3	Convert the image to Negative
4	Convert the image to Black and White
5	Back to the original image

B. Advance Setting

Function	Description
6	Restore to original factory setting
7	Select between text and graphic image enhancement mode

Function	Description
8	Display the image from AVerVision's camera or from the PC IN port
9	Freeze image
10	Adjust White Balance
11	Adjust Exposure
C. SnapShot/Video	
Function	Description
12	Control the video display by controlling bar
13	Play and control the video display
14	Record the video and save it into PC
15	Capture a single picture and save it into PC
16	Retrieve saved picture or video clips
17	Setup for the picture snapshot or video recording.

Transferring the captured image from AVerVision150 to PC

This enables you to transfer the captured image from the built-in memory to PC.



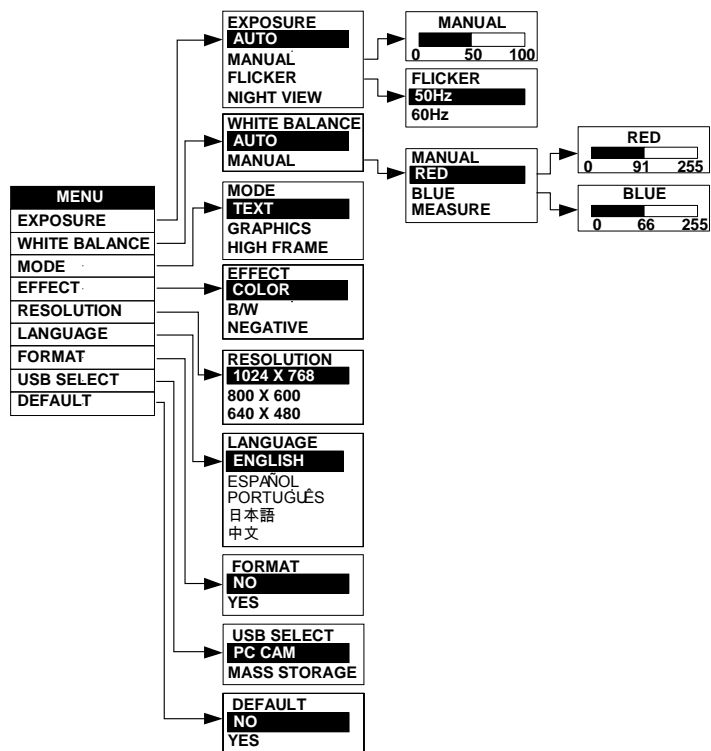
: The instruction below **MUST** be read and followed **BEFORE** connecting the USB cable.

1. **MUST** set the USB SELECT as Mass Storage before connecting the USB cable.

To set the USB SELECT as Mass Storage, press **MENU** > select **USB SELECT** and press (▶)> select **MASS STORAGE** and press (▶).

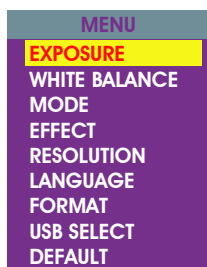
2. When "STORAGE" appears at the lower left corner of the presentation screen, you may now connect the USB cable.
3. Upon connecting the USB cable, the system automatically detects the new removable disk.
4. You may now transfer the captured image to and from AVerVision150 built-in memory and PC hard disk.

OSD Navigation Tree



Menu Functions

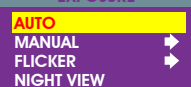
The MENU functions of AVerVision150 enhance fine-tuning your screen display, set the timer, select OSD language and more. Press the **MENU** button to call up and exit from the main menu or sub-menu display. Then use ▲ or ▼ buttons to select the items in the menu list. Use ► button to enter sub-menu. To adjust the setting, press ◀ or ▶ buttons.



OSD Menu

Description

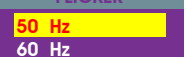
EXPOSURE



MANUAL



FLICKER



EXPOSURE :

Use ▲ or ▼ buttons to select between Auto and Manual.

AVerVision150 enables you to automatically or manually adjust the camera to determine how much light is required.

If you choose to manually adjust the exposure, press ► or ◀ buttons to adjust the exposure level.

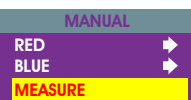
FLICKER :

Use ▲ or ▼ buttons to select between 50Hz or 60Hz. Some display devices cannot handle high refresh rates. The image will flicker a couple of times as the output is switched to another refresh rate.

NIGHT VIEW :

If you are presenting in a low-light condition, Night View enables the image of the object to appear as though under normal lighting conditions. The AVerVision150 automatically adjusts the exposure to compensate for the adverse condition, but the captured image will appear to be in slow motion.

WHITE BALANCE



WHITE BALANCE :

Use ▲ or ▼ buttons to select between Auto and Manual.

AVerVision150 enables you to automatically or manually adjust the camera to suit the lighting condition or color temperature. If you select to manually adjust the white balance, you can adjust the Red, Blue or use the system to measure the color temperature.

To obtain a more accurate color balance, place a sheet of white paper under the camera. Select

MEASURE then press ► button to calibrate the color temperature. Wait until a "MEASURE OK" appears at the lower right corner of the presentation screen.

MODE



MODE :

Use ▲ or ▼ buttons to select between Text, Graphics and High Frame modes.

In text mode, the AVerVision300p corrects the intensity of the adjacent pixel making it more uniform producing sharper and clearer images.

While in graphics mode, the AVerVision300p adjusts the gradient of the adjacent pixel making it appears to have a smooth image.

While in real-time requirement, we suggest to select High Frame mode, which can more visually track animated objects and react quickly. (This mode is better to be used in good light.)

OSD Menu

Description

EFFECT

COLOR
B/W
NEGATIVE

EFFECT :

Use ▲ or ▼ buttons to display the image captured by the camera into negative, positive (true color), or monochrome (black and white) the image.

RESOLUTION

1024 x 768
800 x 600
640 x 480

RESOLUTION :

Use ▲ or ▼ buttons to choose from 1024x768, 800x600 or 640x480 display resolution then press ► to make the selection.

This selection will not be found in TV output (Composite/S-Video)

FORMAT

NO
YES

FORMAT :

Use ▲ or ▼ buttons to select No to exit or YES to format and delete all the images saved in the built-in memory then press ►.

Please wait till the message "FORMAT" disappear to finish the process.

USB SELECT

PC CAM
MASS STORAGE

USB SELECT :

Use ▲ or ▼ buttons to select USB functions between PC Camera and Image Download.

In PC Camera mode, you can connect a USB cable to your computer and access the software application from the Driver CD.

In Mass Storage mode, you can transfer the saved images from AVerVision150's built-in memory to your computer.

LANGUAGE

ENGLISH
ESPAÑOL
PORTUGUÊS
日本語
中文

LANGUAGE :

Use ▲ or ▼ buttons to select from different languages then press ► to make the selection.

DEFAULT

NO
YES

DEFAULT :

Use ▲ or ▼ buttons to select YES to restore to original factory default setting or NO to exit then press ► to make the selection.

Troubleshooting

This section provides many useful tips on how to solve common problems while using the AVerVision150.

There is no picture on the presentation screen.

1. Check all the connectors again as shown in this manual.
2. Check the on/off switch of the display output device.
3. Verify the setting of the display output device.
4. If you are presenting from a notebook or computer through the display output device, please check and switch the document camera source to PC Mode.

I have set up the AVerVision150 and checked all the connections as specified in the manual, but I cannot get a picture on the preferred presentation screen.

1. Once the power cords are connected, the LED light turns RED as standby mode. Simply switch the AVerVision150 "ON" by pressing the on/off switch until the LED light is blanking and turns GREEN.
2. The default camera display resolution setting is on 1024x768. If your output device does not support this resolution; no image can be projected. Simply press the MENU and RIGHT or LEFT button to the increase or decrease the resolution setting.
3. If your display output device is TV or any analog device, please click on the VGA/TV button to switch output mode.

The picture on the presentation screen is distorted or the image is blurry.

1. Reset all changed settings, if any, to the original manufacturer default setting (Refer to the Menu Functions for more details and steps).
2. Use the Brightness and Contrast menu functions to reduce the distortion if applicable.
3. If you discover that the image is blurry or out of focus, adjust the focus ring on the camera head.

There is no computer signal on presentation screen.

1. Check all the cable connections among the display device, AVerVision150 and your PC.
2. Connect your PC to the AVerVision150 first before you power on your computer.

I plug in the power of AVerVision150, but still couldn't see anything.

It will take 20~30 seconds for warming up AVerVision150.

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