

# **AVerMedia® AVerVision330**

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## **User's Manual**



*AVerMedia®*  
**Document Camera**

## I. Introduction

Thank you for purchasing the AVerMedia® AVerVision330. This document camera displays any documents, negatives, transparencies and 3D objects onto a TV, LCD or DLP projector making product demonstration a snap.

The AVerVision330's advanced features make it a versatile and multifunctional product. You can think of it as a document camera, USB card reader/writer, digital camera and USB PC web cam all rolled into a single handy and compact device. Bundled with it is a remote control, which has a laser pointer built right into it making it easy for you to highlight or point out key areas in your presentation. All these features make the AVerVision330 an ideal device for business, academic, medical and the scientific community.



## **II. Features**

### **High Image Quality with 850K Pixel Color CCD Image Sensor**

Thanks to the built-in 850,000 pixel CCD sensor, you can now easily display 10 to 12-pt small text through LCD/DLP projectors or VGA monitors. Additionally, AVerVision330's automatic white balance control ensures that only the proper amount of light enters the camera to maintain the perfect image quality.

### **Supports VGA, DVI, Composite and S-Video Output**

AVerVision330 displays 640 x 480, 800 x 600 and even 1024 x 768 output resolutions for great quality display on LCD/DLP projector presentations. The VGA output allows you to connect to any monitor or projector, and DVI output can be used with high-end projectors for higher bandwidth and clearer images. Furthermore, AVerVision330 also allows you to connect to a TV set.

### **5x Optical Zoom and 8x Digital Zoom**

To enhance your presentations, AVerVision330's zoom function is improved. With 5 times (500%) optical zoom and eight times (800%) digital zoom, AVerVision330 can turn any tiny object into a clear image.

### **Smart AutoFocus System**

Don't bother with manual focus anymore! AVerVision330's user-friendly "Smart AutoFocus System" makes your presentations better, clearer, and easier. All you need to do is just touch the camera head and it will automatically re-focus.

### **Image Capture and Playback by CF/SD Card**

AVerVision330 provides image capture capability and combined with the built-in CF/SD card slot. By pressing a button, the image would be recorded and be stored into the CF/SD card in the format of JPEG. To provide great flexibility to your presentations, you can also playback any stored image.

### **PC Camera and Card R/W function via USB1.1 Connection**

With USB1.1, AVerVision330 can work as a PC camera and a card reader/writer. With USB interface, you can easily upload and download image files to and from your computer, and use them for documentation, archiving and distribution via emails.

### **LED/CCFL Lighting System**

Even in a dark environment, AVerVision330 still can ensure the quality of your presentation. AVerVision330 comes with detachable LED/CCFL lighting system which will make the image of documents or objects brighter and more vivid.

### III. Technical Specification

#### Image

Pick-up Device	1/3" progress scan CCD
Effective Pixels	790K 1024 (H) x 768 (V)
Frame Rate	15 fps
White Balance (RGB Output only)	Auto/Manual
Exposure (RGB output only)	Auto/ Manual/ Flicker / Night View
Image mode	Text/ Graphics
Effect	Color/ B/W / Negative
Analog RGB output	XGA 75 Hz; SVGA 75 Hz
S-Video, C-Video Output	NTSC/ PAL
Memory Card Storage	Secure Digital (SD) and Compact Flash (CF)

#### Optics

Lens	F1.8-2.7
Shooting Area	380mm x 285mm (max.); 40mm x 30mm (min.)
Zooming	Optical: 5x, Digital: 8x (Accelerated)
Focusing	Auto/ Manual
Min Focal Range	50mm

#### Lighting

Lamp type	Two CCFL lamps
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#### Input

VGA Input	15-Pins D-sub (VGA)
RS232	9-Pins D-Sub Female

#### Output

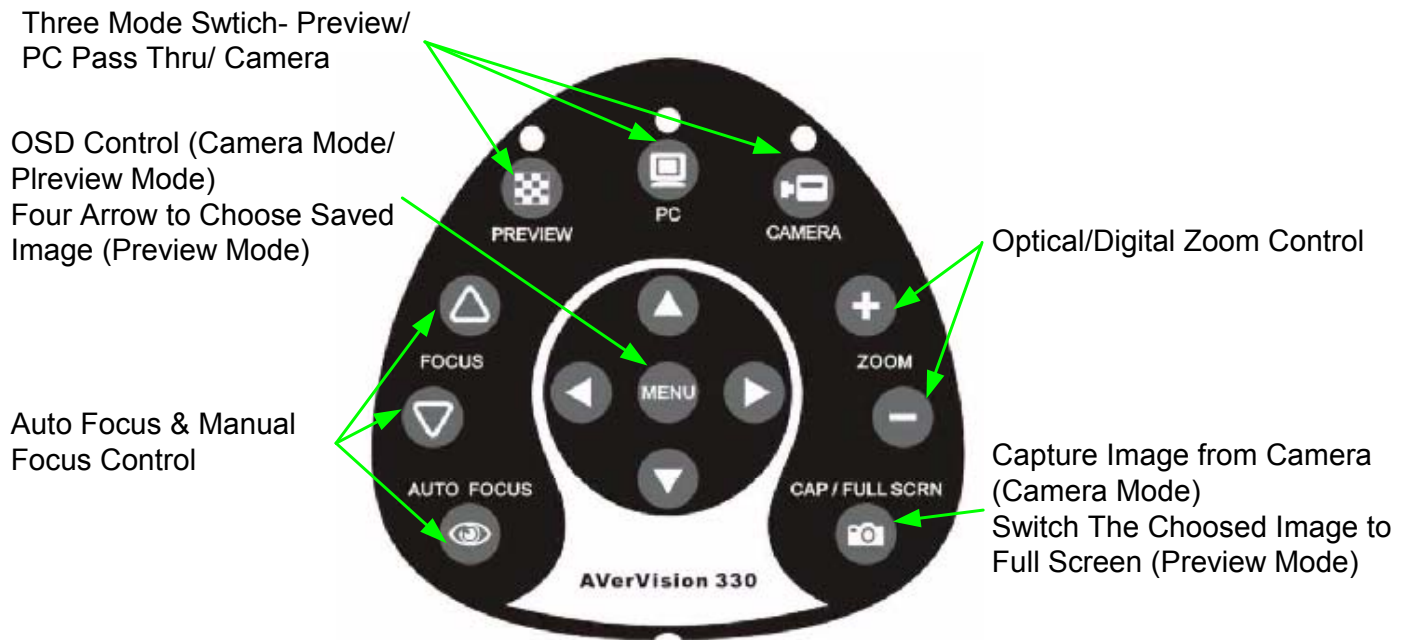
VGA Output	DVI to 15pin D-sub (VGA) Cable
DVI	DVI-I Type Female
S-Video	Mini-DIN Jack
Composite Video	RCA Jack
USB	USB1.1 Mini B Type
DC 6V Output	Power Jack

#### Dimension

Operating	220mm x 140mm x 500mm
Folded	220mm x 140mm x 55mm
Weight	2 kg (about 4.4 lb) w/o Light Arm
Power Source	100-220V ~ 1.8A, 50-60 Hz
Consumption	15 Watts (lamp off); 30Watts (Lamp on)

## IV. Function Definition

### Control Panel

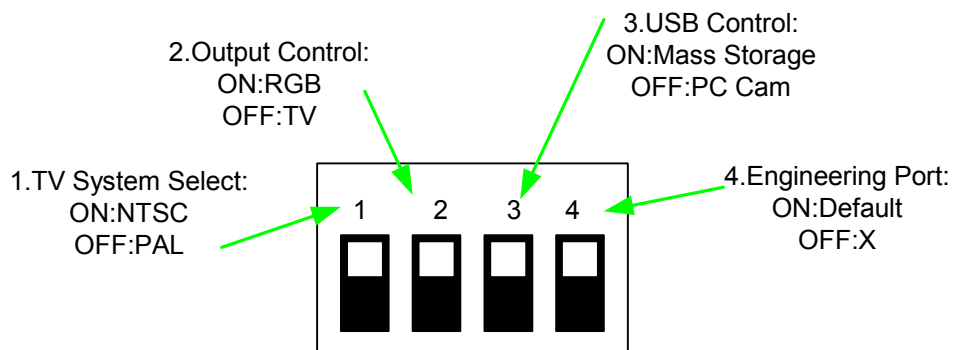


**Back:** Power Port, DVI Output, and DVI Input

**Front:** Light Arm Slot

**Right:** Power Switch

**Left:** SD Slot, CF slot, DIP switch, USB Port, Power Port for Light Arm, Video Output Port



## V. Making the Connection

### Initial Settings:

Please set the DIP switch at the side to the correct TV signal for your country, which can be either PAL or NTSC.

### - Connecting an IBM Compatible PC or Macintosh Computer

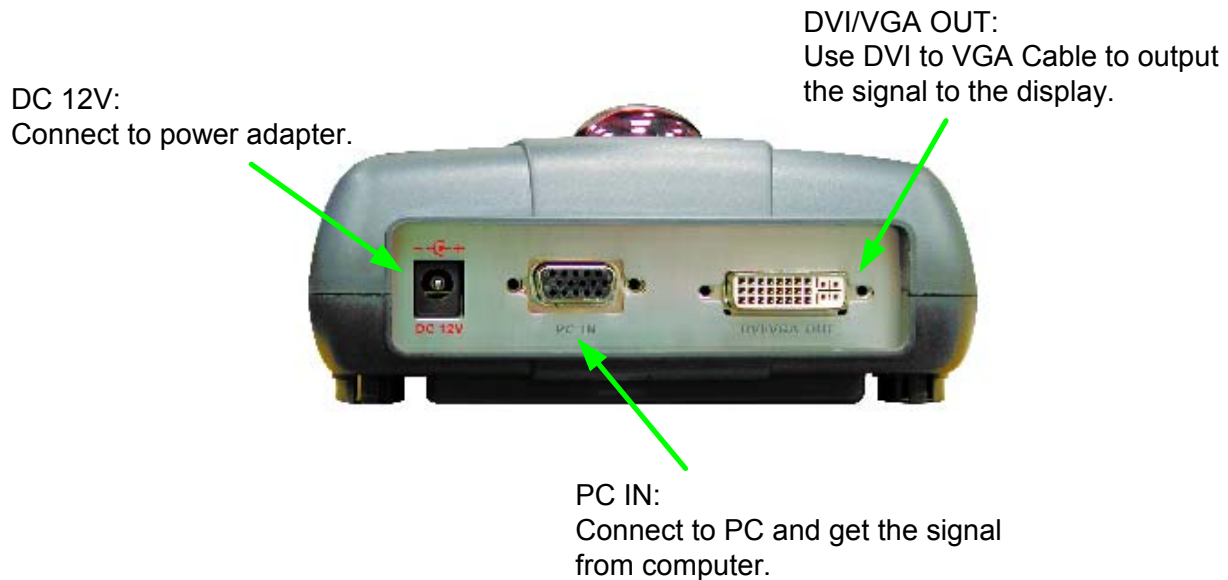
The signal from *AVerVision330* is equipped with the 15-Pin VGA interface to provide the highest video quality. The video signal from the computer can be connected to the VGA In and pass the signal thru the DVI out port only. In order to connect the computer, use the VGA cable.

### - Connecting a VGA, MAC or LCD/DLP Projector

The DVI Out port acts as a pass thru port for the monitor. For compatibility purposes a DVI Cable is supplied with 15-Pin VGA output. To display the image from the DVI/VGA source, you need to set the DIP switch #2 to RGB.

### - Connecting the Power Adapter

Use a standard 100V~240V AC power source.



### - Connecting a TV or AV Equipment

Use the supplied RS-232/AV/S-Video-in-one adapter and S-Video or RCA cable to make the connection. The s-video or video signal from *AVerVision330* can be shown on TV or LCD/DLP projector. To display the image from the DVI/VGA source, you need to set the DIP switch #2 to RGB.

### - Inserting Memory Cards

Use CF/SD Memory Card to store the image captured from *AVerVision330* Camera. For images saved in PC, an application software in Driver CD (/application/avermedia.exe) can also transform the image format to be shown by *AVerVision330*

### - Installing the Light Arm

The Light arm allows you to view documents and real objects at dim environment. Link the light arm with the slot in front side and connect the power card in left side.

### - Installing the Optional Light Box

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

SD:

The slot to plug in the SD card.  
( supports up to 512MB)

SW:

Select the output format or  
USB function by these four DIP  
Switchs.

USB:

The mini USB terminal provide  
USB1.1 transmission with  
computer.

CF:

The slot to plug in the CF card.  
( supports up to 512MB)

DC 6V:

6V power output. connect to light  
arm or light box.

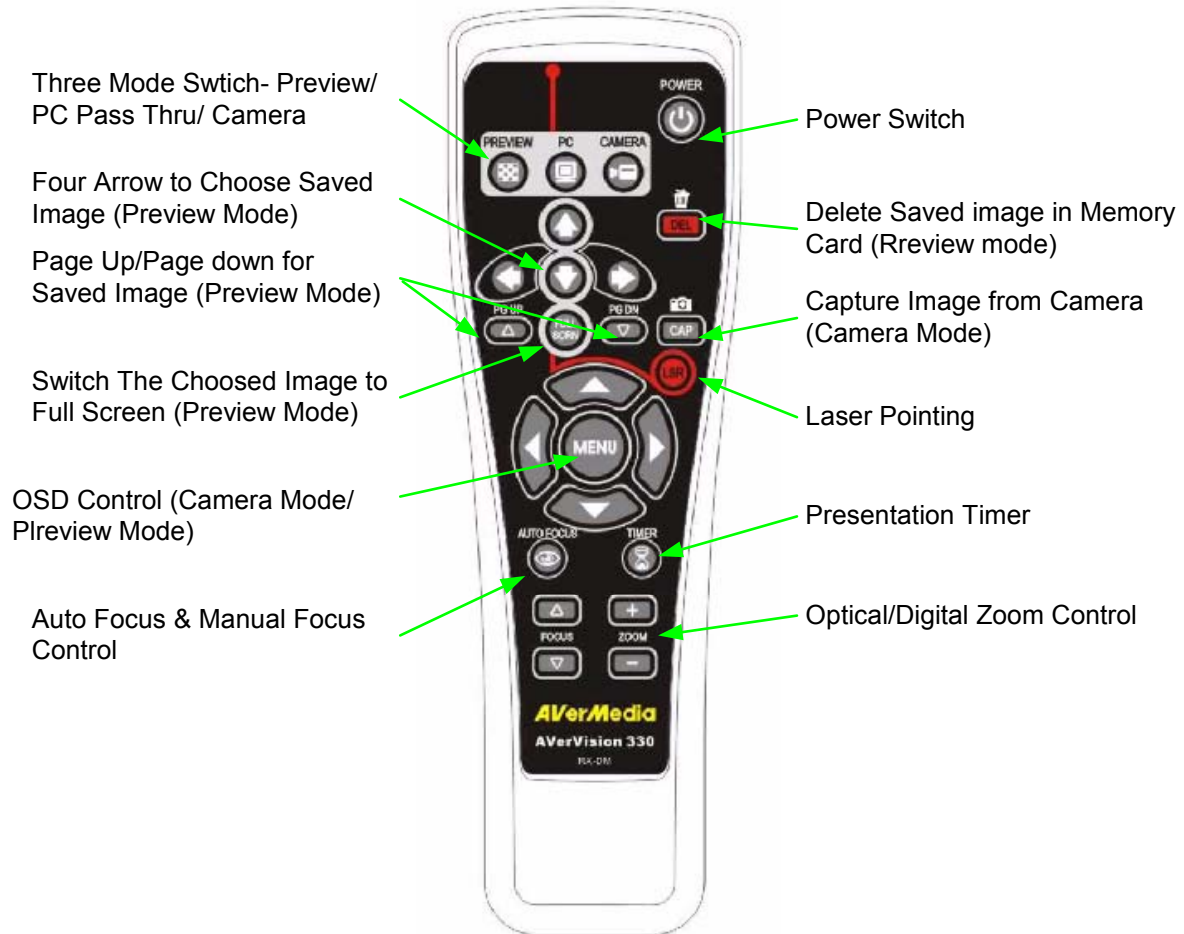
TV/RS232:

1.Connect to TV in S-Video or  
Composite signal via the RS-  
232/AV/S-Video-in-one VGA  
adapter.  
2.Can be controlled by  
computer via the RS-232/AV/  
S-Video-in-one VGA adapter.



## VI. Using the Infrared Remote Control

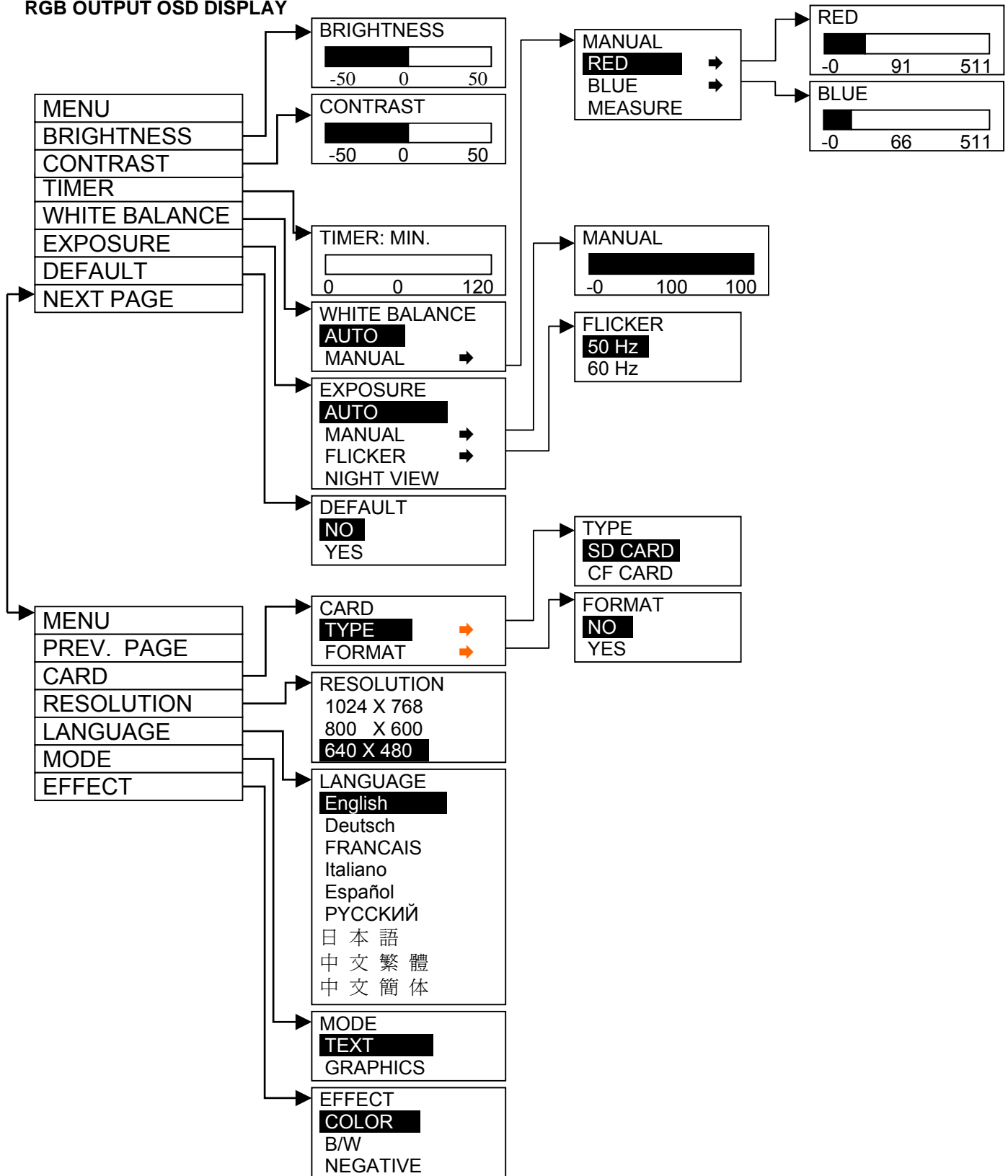
*AVerVision330's* remote control allows you to enhance your camera presentation and to switch between camera and PC presentations anytime. To use the remote control, first insert the batteries (2 AAA-sized batteries are provided) into the battery compartment at the back of the remote control. The figure and description below show you the function of each button.



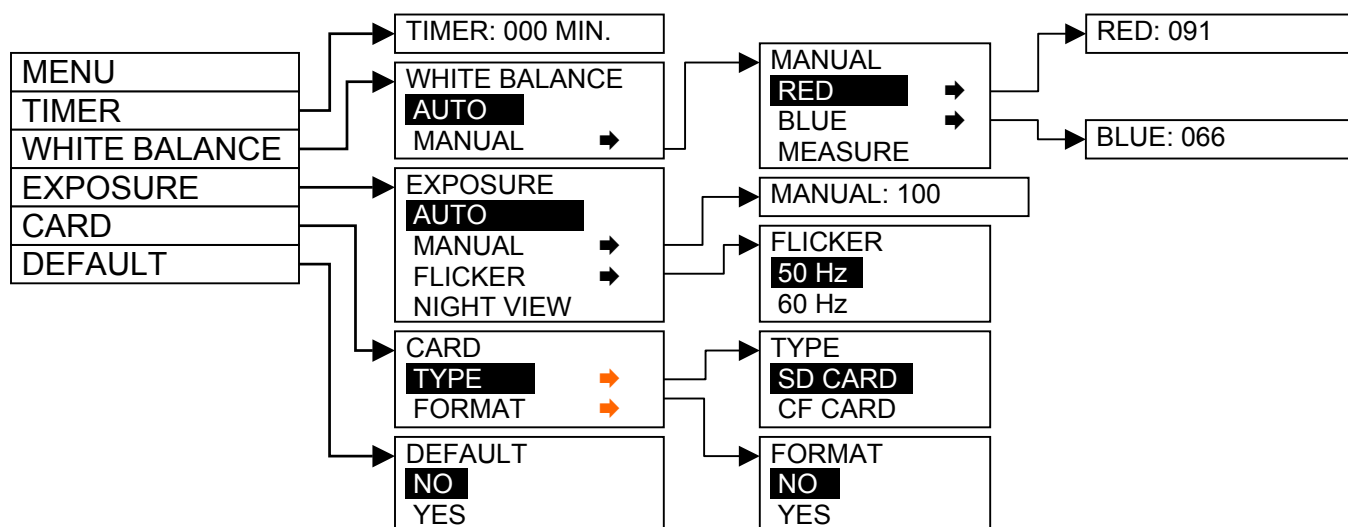


## VII. OSD Navigation Tree

### RGB OUTPUT OSD DISPLAY



## Video Out OSD Display



## VIII. Card Reader/Writer Function

*AVerVision330* is able to function as a USB1.1 SD and CF card reader/writer when connecting to a computer via the USB cable. The product is compatible with USB 1.1 specification and can transmit data at a rate up to 12Mb/s.

To drive the Card Reader/Writer, please see the installation guide in Driver CD.

## IX. Using AVerVision 330 as a web cam

*AVerVision330* is able to function as a web camera when connecting to a computer via the USB cable. The product is compatible with USB 1.1 specification and can transmit data at a rate up to 12Mb/s.

To drive the web cam, please see the installation guide in Driver CD.

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## **XI. Package Checklist**

Your AVerMedia® AVerVision330 package contains the following:

- AVerMedia® AVerVision330
- Light Arm
- Remote Control
- RS-232/AV/S-Video-in-one Adapter
- DVI to VGA Cable
- Power Cord
- Power Adapter
- S-Video Cable
- RCA Cable
- USB Cable
- Batteries
- The User's Manual
- Driver CD
- Carrying Case

Optional Accessory:

- Light Box