#### Federal Communications Commission Statement(Class A)

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 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 tuning 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/television technician for help.

#### Class A ITE:

Class A ITE is a category of all other ITE which satisfies the class A ITE limits but not the class B ITE limits. Such equipment should not be restricted in its sale but the following warning shall be included in the instructions for use:

**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.

#### CE Class A (EMC)

This product is herewith confirmed to comply with the requirements set out in the Council Directives on the Approximation of the laws of the Member States relating to Electromagnetic Compatibility Directive 2004/108/EEC.

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.

#### **Remote Control Battery Safety Information**

- Store batteries in any cool & dry place.
- Do not dispose used batteries in domestic waste. Dispose batteries at special collection points or return to stores if applies.
- Remove the batteries if they are not in use for long period of time. Battery leakage and corrosion can damage the remote control, dispose batteries safely.
- Do not mix and use old and new batteries.
- Do not mix and use different types of batteries: alkaline, standard (carbon-zinc) or rechargeable (nickel-cadmium).
- Do not dispose batteries in a fire.
- Do not attempt to short circuit the battery terminals.

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| Navigate the Menu and Submenu             |     |
| Image                                     |     |
| 46BBrightness                             |     |
| 47BContrast                               |     |
| 49BMode                                   |     |
| 51BEffect                                 |     |
| 8BMirror                                  |     |
| 48BAdvanced                               |     |
| 48BAuto Image                             |     |
| 53BExposure                               |     |
| 54BWhite Balance                          |     |
| 50BFocus                                  |     |
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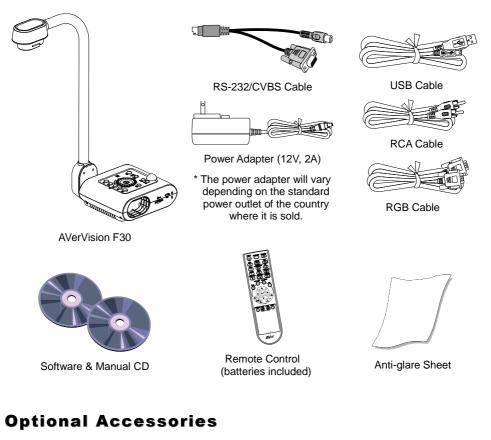


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## **Package Contents**

Make sure the following items are included in the package.





Microscope Adapter



28mm Rubber Coupler



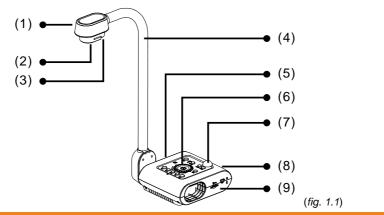
34mm Rubber Coupler



Light Box

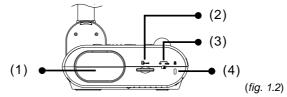


## **Get Familiar with the AVerVision F30**



| Name Function  |   | Function  |  |  |  |
|--|---|---|--|--|--|
| (1)  | Camera head   | Contain the camera sensor.  |  |  |  |
| (2)  | Camera lens   | Focus the image in the camera.  |  |  |  |
| (3)  | LED light   | Provide light to enhance the lighting condition.                                |  |  |  |
| (4)  | Flexible arm  | Provide adjustable viewing coverage.  |  |  |  |
| (5)  | Left panel  | Connections for microphone, speaker, USB flash drive/USB mouse, and USB switch. |  |  |  |
| (6)  | Control panel   | Easy access to various functions.   |  |  |  |
| (7)  | 7) IR sensor Receive remote control commands.   |   |  |  |  |
| (8) Rear panel Connections for power, computer, RGB/RCA external display device RS-232, and USB to PC. |   |   |  |  |  |
| (9)  | (9) Right panel Connections for the camera head holder, SD card, TV-RGB displation output switch, and antitheft Kensington security lock compatible s |   |  |  |  |

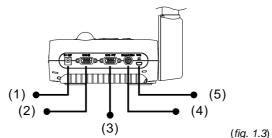
## **Right Panel**



| Name  | Function   |  |  |
|---|--|--|--|
| (1) Camera Holder   | Hold the camera head for storage.  |  |  |
| (2) SD card slot Insert the SD card with the label facing up. |  |  |  |
| (3) TV-RGB switch   | TV switch to output display video from RS232/CVBS (via RCA connection), and RGB to RGB OUT port. |  |  |
| (4) Antitheft Slot  | Attach a Kensington compatible security lock or antitheft device.                                |  |  |

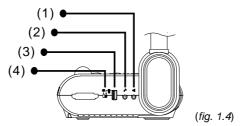


## **Rear Panel**



| (19. 1.0)   |  |  |  |  |  |
|---|--|--|--|--|--|
| Name  |  | Function   |  |  |  |
| (1) DC12V   | V Connect the power adapter into this port.                                  |  |  |  |  |
| (2) RGB INPUT port Input the signal from a computer or other sources and pass it through to the RGB OUT port only. Connect this port to the RGB/VGA output port of a computer or other sources. |  |  |  |  |  |
| (3) RGB OI  | DUTPUT port Connect the AVerVision F30 to any display device with RGB cable. |  |  |  |  |
| (4) RS-232/CVBS port RCA jack outputs the video signal from video equipment. The RS-232 jack is u   |  | Connect the supplied RS-232/CVBS cable into this port. The RCA jack outputs the video signal from the camera to a TV or video equipment. The RS-232 jack is used to connect to computer serial port or to any control panel or for centralized control if desired. |  |  |  |
| (5) Mini US   | B port   | Connect to a USB port of a computer with a USB cable and use<br>AVerVision F30 as a USB camera or transfer the captured<br>images from the memory source to computer.  |  |  |  |
| <i></i>   |  |  |  |  |  |

## Left Panel

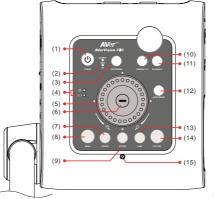


| Name  |  | Function  |  |  |
|---|--|---|--|--|
| (1) Speaker port Connect to an amplified speaker to playback recorded audio a video clip.                                       |  |   |  |  |
| (2) MIC port Connect a 3.5mm plug microphone. The built-in mic will be disabled when an external MIC is connected to this port. |  |   |  |  |
| (3) USB port Insert a USB flash drive to save the captured images or recorder video directly from the USB flash drive.          |  |   |  |  |
| (4) USB switch  |  | Switch to for saving the captured image and audio video recording directly to the USB flash drive; and for when connecting AVerVision F30 to a computer using a USB cable from the rear USB port. |  |  |



## **Control Panel**

|     |  | ( <i>fig. 1.5</i> )  |  |  |  |  |
|-----|--|--|--|--|--|--|
| Nan |  | Function   |  |  |  |  |
| (1) | POWER  | Turn the unit on/standby mode.   |  |  |  |  |
| (2) | OUTPUT LED   | Indicate TV-RGB switch selection to show which port the video signal<br>is sent out.   |  |  |  |  |
|     |  | <ul> <li>TV indicates that the video signal is sent out thru RS232/CVBS</li> </ul>   |  |  |  |  |
|     |  | port via RCA connection.   |  |  |  |  |
|     |  | <ul> <li>RGB indicates the video signal is sent out thru RGB OUT port.</li> </ul>  |  |  |  |  |
| (3) | RECORDING  | Start/Stop audio & video recording. Audio and video recording can be saved on a SD card or an USB Flash drive only. See <u>External</u> Memory Storage.  |  |  |  |  |
| (4) | USB Switch LED   | tch LED Indicate the USB switch selection to show which USB port is activated.   |  |  |  |  |
|     | <ul> <li>allowing you to use the AVerVision F30 as USB camera or<br/>transfer the captured images from the memory source to computer.</li> </ul>   |  |  |  |  |  |
| (5) | Shuttle Wheel  | <ul> <li>Image: Second sec</li></ul> |  |  |  |  |
| (0) |  | to zoom out the image in Camera and Playback mode only.<br>When it reaches the AVerZoom of 200%, you can still continue to<br>zoom in up to 8X digital zoom.   |  |  |  |  |
|     | <ul> <li>Press the shuttle wheel ▲, ♥, ◄, &amp; b to pan the image while in zoom in mode, to make a selection on 16-thumbnail images or move to the next or previous single full screen preview in Playback mode, or to make a selection and adjustment on the OSD mainmenu and sub-menu (See Menu Functions for more details).</li> </ul> |  |  |  |  |  |
|     |  | - Use ▲&▼ to increase and decrease the video playback volume.  |  |  |  |  |
|     |  | - Use <b>∢</b> & <b>▶</b> to play the video backward and forward.  |  |  |  |  |
|     |  | - Move the Spotlight frame and Visor screen cover.   |  |  |  |  |



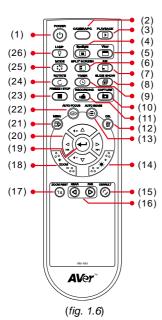
(fig. 1.5)

| Name              | Function   |  |  |  |
|-------------------|--|--|--|--|
| (6)               | <ul> <li>Make a selection in Playback mode and OSD menu.</li> <li>Start/Pause video playback.</li> </ul>                     |  |  |  |
| (7) FREEZE        | <ul> <li>Pause or resume image display in Camera mode.</li> <li>Stop audio &amp; video playback in Playback mode.</li> </ul> |  |  |  |
| (8) MENU          | Open and exit the OSD menu.  |  |  |  |
| (9) ROTATE        | Turn the image by 90° in Camera and Playback mode.   |  |  |  |
| (10) CAMERA/PC    | Switch the video signal between camera or computer from the RGB IN port.   |  |  |  |
| (11) PLAYBACK     | View & playback captured still images and video files.   |  |  |  |
| (12) AUTO FOCUS   | Adjust the focus automatically.  |  |  |  |
| (13) LAMP         | Turn the overhead light on/off.  |  |  |  |
| (14) CAP/DEL      | <ul> <li>Capture picture in Camera mode. In continuous capture mode,<br/>press this button again to stop.</li> </ul>         |  |  |  |
|                   | - Delete the selected picture/video in Playback mode.  |  |  |  |
| (15) Built-in MIC | Record audio when recording video clip. The recorded sound will be<br>in monophonic.   |  |  |  |



#### **Remote Control**

The remote control requires two (2) "AAA" size batteries (supplied), make sure batteries are installed properly before use. You can access all the features of AVerVision F30 with the remote.

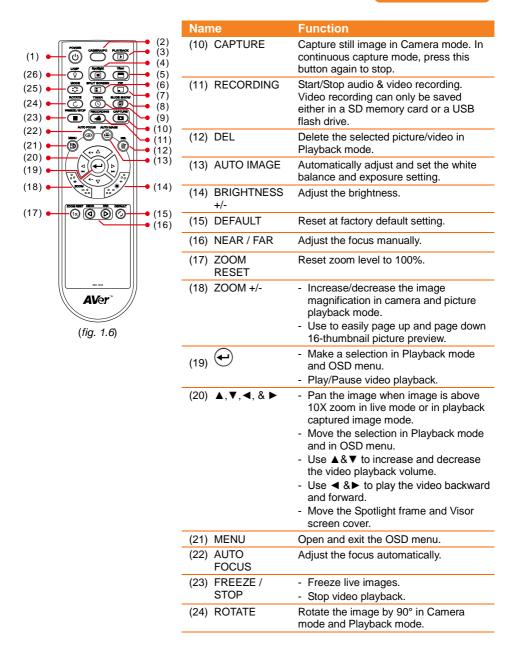


| Name            | Function   |  |  |
|-----------------|--|--|--|
| (1) POWER       | Turn the unit on/standby.  |  |  |
| (2) CAMERA / PC | Switch between Camera and computer mode.   |  |  |
|                 | <ul> <li>Camera mode displays the video<br/>signal from the built-in camera.</li> </ul>  |  |  |
|                 | <ul> <li>PC mode displays the video signal<br/>from the RGB INPUT port of F30.</li> </ul>  |  |  |
| (3) PLAYBACK    | View the captured picture/video from the memory in 16-thumbnail images.  |  |  |
| (4) SPOTLIGHT   | Call the Spotlight submenu. Spotlight<br>overlays a box frame on the presentation<br>screen. You can adjust the box size and<br>move it around.  |  |  |
|                 | In the Spotlight submenu, the following options are available.   |  |  |
|                 |  |  |  |
|                 | <b>ON/OFF</b> – select to run/cancel the   |  |  |
|                 | Spotlight. Press to move to the next selection.  |  |  |
|                 | Shade – set the opacity level of the area<br>outside the box. The shaded area will<br>completely turns black when it is set to   |  |  |
|                 | level 100. Press 🕶 to move to the next selection.  |  |  |
|                 | <b>Color</b> – select the Spotlight frame color.   |  |  |
|                 | Press to move to the next selection.   |  |  |
|                 | <b>OK</b> – press $(\bullet)$ for the setting to take<br>effect. If you select ON, the frame will<br>appear and blink, use the $\blacktriangle, \lor, \blacktriangleleft, \And$ buttons to adjust the frame size and |  |  |
|                 | press 🔶 to set the desired size; and OFF will close the submenu.   |  |  |
|                 | To turn off Spotlight, press 🛅 again.  |  |  |
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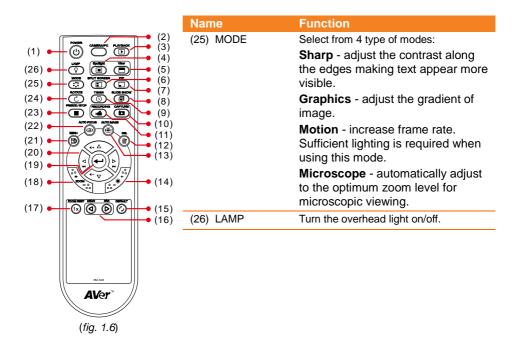
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|        | (fig. 1.6)   |
|        |              |

|   | Name |                 | Function  |  |
|---|------|-----------------|---|--|
| (2)<br>(3)<br>(4)<br>(5)<br>(6)<br>(7)<br>(8) | (5)  | VISOR           | Call the Visor submenu. Visor covers<br>part of the presentation screen and allow<br>presenter to reveal the material as<br>desire.<br>In the Visor submenu, the following<br>options are available.  |  |
| (9)<br>10)<br>11)<br>12)<br>13)               |      |                 | options are available.  |  |
| 15)   |      |                 | <b>ON/OFF</b> – select to run/cancel the Visor.   |  |
| 16)   |      |                 | Press to move to the next selection.<br><b>Shade</b> – set the opacity level of the<br>covered area. The shaded area will<br>completely turns black when it is set to   |  |
|   |      |                 | level 100. Press 🕶 to move to the next selection.   |  |
|   |      |                 | <b>OK</b> – press $(\bullet)$ for the setting to take<br>effect. If you select ON, upper part of the<br>presentation screen is slightly exposed.<br>Use the $\blacktriangle, \lor, \triangleleft, \&$ buttons to reveal<br>more of the covered area; and OFF will<br>close the submenu. |  |
|   |      |                 | To turn off Visor, press 🛅 again.   |  |
|   | (6)  | SPLIT<br>SCREEN | Divide the screen into two. One side<br>displays the live image from the built-in<br>camera and the other side displays 8-<br>thumbnail size picture/video from the<br>memory.  |  |
|   | (7)  | PIP             | Show a thumbnail size captured picture/video from the memory at the corner of the screen in Camera mode.  |  |
|   | (8)  | SLIDE SHOW      | Start/Stop automatically showing the captured picture/video one-by-one.   |  |
|   | (9)  | TIMER           | Call the Timer<br>submenu.<br>Select to<br>Start/Pause/St<br>op the timer<br>countdown<br>and set the<br>timer duration.  |  |









## **Making the Connections**

Before making the connection, make sure the power of all devices are turned off. If you are not sure on where to connect, simply follow the illustrated connections below and also refer to the user manual of the device you are connecting the AVerVision F30 with.

## Set the TV-RGB Switch Setting

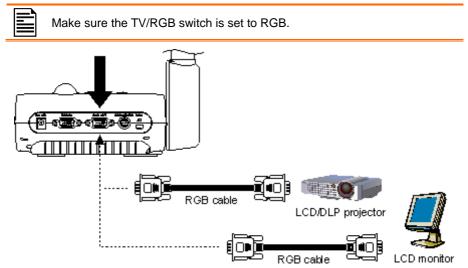
The TV-RGB switch determines the display output selection. Switch it to RGB (right) to output signal using RGB connection and TV (left) to output signal using RCA connection. (see fig. 1.2 # 3)

| Switch | AVerVision Port                       | AVerVision Port Display Device Port |  |
|--------|---------------------------------------|-------------------------------------|--|
| RGB    |                                       |                                     | C CONTROL CONT |
| τν     | RS232/CVBS<br>(use RS-232/CVBS cable) | То                                  | VIDEO IN   |



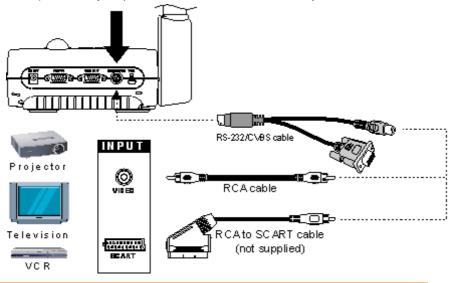
## **Connect to a Monitor or LCD/DLP Projector**

Locate the RGB (VGA) input port of the graphics display device and connect it to RGB OUT port of AVERVISION F30.



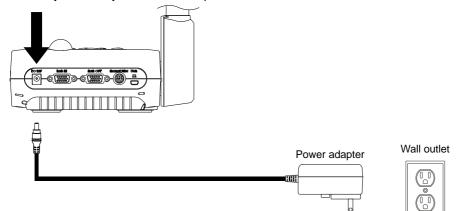
## **Connect to a TV**

Locate the VIDEO or SCART RGB (if applicable) input port of the TV or Video equipment (i.e., VCR) to record your presentation and connect it to RCA jack of RS-232/CVBS cable.



## **Connecting the Power**

Connect the power adapter to a standard 100V~240V AC power outlet. The unit automatically in standby mode once the power is connected. Press 0 to turn on.

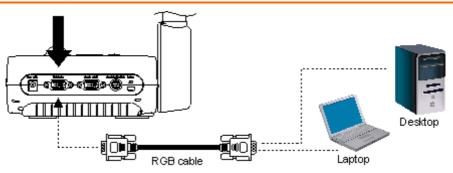


## **Connect to a Computer**

Locate the RGB (VGA) output port of the computer or laptop and connect it to RGB IN port of AVerVision F30. The video signal from the RGB IN port is streamed to RGB OUT port.

 To display computer image, press Camera/PC button on the control panel or remote control to switch AVerVision F30 to computer mode.

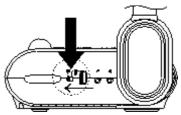
 For laptop to output display image, use the keyboard command (FN+F5) to switch between the display modes. For different command, please refer to your laptop manual.



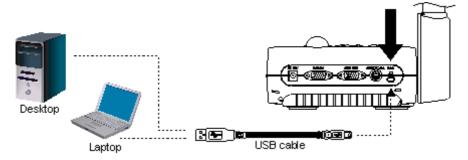


## **Connect to a Computer via USB**

Set the USB switch on the left panel to and the E LED on the control panel will light up. This enables you to use AVerVision F30 as a USB Camera or to transfer the captured pictures from the memory source and to computer. Also see "Transfer File from AVerVision F30 to PC".

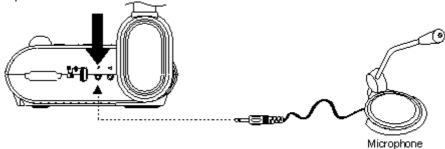


2. Locate the USB port of the computer or laptop and connect it to PC port of AVerVision F30.



## **Connect an External Microphone**

Plug a 3.5mm mono microphone to  $\swarrow$  port. The built-in microphone on the control panel will be disabled when an external microphone is connected. The recorded audio will be in monophonic sound.

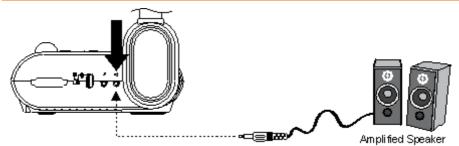


12

## **Connect an Amplified Speaker**

Plug a 3.5mm plug amplified speaker to qport. Only the audio from the video playback is supported.

We recommend connecting an amplified speaker to the Audio output port. Take caution when using earphones. Adjust the volume down on the remote to prevent hearing damage due to loudness.



## **Connect to a Microscope**

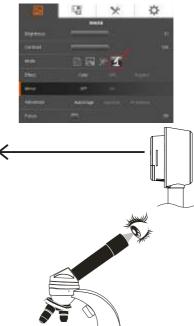
Connect the AVerVision F30 to a microscope enables you to examine microscopic objects on a big screen.

1. Change the image display mode to Microscope. Press **MENU** > select

IMAGE tab > select MODE > select

(microscope) and press

- 2. Aim the camera head at the farthest point and press **AUTO FOCUS**.
- 3. Adjust the focus of the microscope.



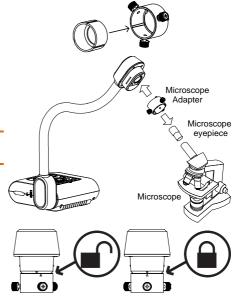


- 4. Select the appropriate rubber coupler size for the microscope eyepiece and insert it in the microscope adapter.
- 5. Remove the microscope eyepiece from the microscope and connect it to the microscope adapter with the rubber coupler inserted. Fasten the 3 bolts until the adapter secures the eyepiece.

For the eyepiece, we suggest using 15.5mm eye relief or higher.

6. Attach the microscope adapter to the AVerVision camera head. Then connect it to the AVerVision and microscope.

Make sure the arrow on the camera head and microscope adapter are on the same side to connect and twist clockwise for the arrows to meet and lock.

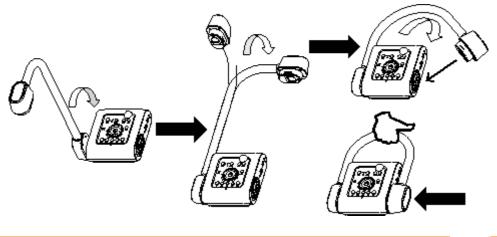


## **Setting Up AVerVision F30**

This section provides useful tips on how to adjust the AVerVision F30 to meet your needs.

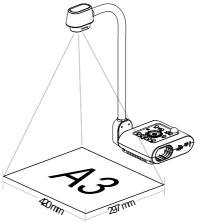
## **Storing and Handling**

The gooseneck design allows you to freely bend the arm and store the camera head in the camera holder. Once you have properly secured the camera head to the camera holder, you may use the arm to carry AVerVision F30.

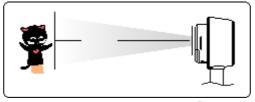


## **Shooting Area**

The shooting area can view an area of 420x297mm which allows you to show an A3 size landscape paper.



If the camera head is in upright position, press ROTATE on the control panel or remote control twice to rotate the image in 180°.



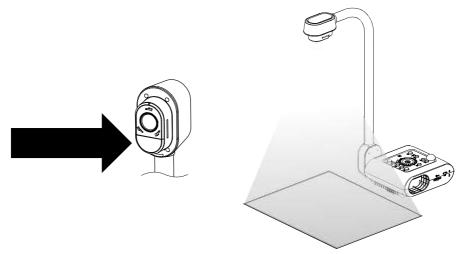
To mirror the image, press MENU > select Mirror, press (+), and select On.





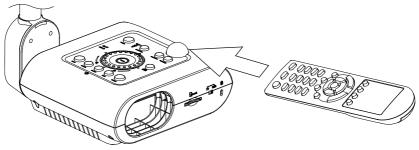
## **Overhead Light**

Press LAMP button on the control panel or remote control to turn on and off light.



## **Infrared Sensor**

Aim the remote control at the infrared sensor to operate the unit.



## **Anti-glare Sheet**

The anti-glare sheet is a special coated film that helps eliminate any glare that maybe encountered while displaying very shiny objects or glossy surfaces such as magazines and pictures. To use, simply place the anti-glare sheet on top of the shiny document to reduce reflected light.



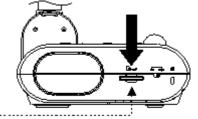


## **External Memory Storage**

AVerVision F30 supports both SD memory card and USB flash drive for more image capture and audio & video recordings. AVerVision F30 can detect when there is an external storage media and automatically switch to the last detected storage. If no external storage is connected, all captured still images will be saved in the built-in memory.

#### Insert an SD Card

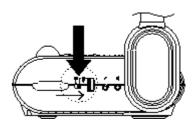
Insert the card with the contact facing down until it reaches the end. To remove the card, push to eject and pull the card out. The supported SD card capacity is from 1GB to 32GB (FAT32). We recommend using SDHC card with class-6 or above for high quality recording.



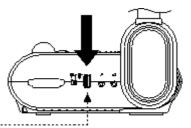


## Insert a USB Flash Drive

 Set the USB switch on the left panel to E. AVerVision F30 will then detect the USB flash drive and the E. LED on the control panel will light up.



2. Connect the USB flash drive in the USB slot. AVerVision F30 can support USB flash drive from 2GB to 64GB (FAT32). <u>Best to format the USB flash</u> <u>drive using AVerVision F30 for better video recording</u>.







## OSD MENU

There are 4 tabs on the OSD menu: IMAGE, PRESENTATION, SETTING and SYSTEM. In Playback mode, you can access PLAYBACK OSD menu to enable the Slide Show feature and modify Slide Show interval and transition setting if desire.



For TV output, the RESOLUTION will be disabled in SETTING menu list.





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#### PRESENTATION

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|--------------|---------|-----|------------|
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SYSTEM



PLAYBACK



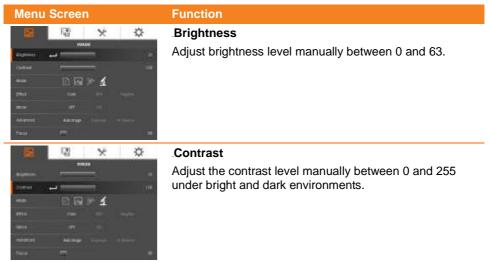
## Navigate the Menu and Submenu





- 1. Press MENU button on the remote or control panel.
- 2. Press  $\blacktriangleright$  and  $\triangleleft$  to toggle between tabs
- Press ▼ and ▲ to choose a selection in the menu list.
- 4. Press 🕶 to make a selection.
- 5. Use ► and ◄ to adjust the setting or make a selection.
- 6. Press 🕶 to enter submenu.
- 7. Press MENU to close the OSD menu.

## Image





#### **Menu Screen**

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#### Function

#### Mode

Select from the various image display settings.

**Sharp** - adjust the contrast along the edges making text appear more visible.

Graphics - adjust the gradient of image.

**Motion** - increase frame rate. Sufficient lighting is required when using this mode.

**Microscope** - automatically adjust to the optimum zoom level for microscopic viewing.

# Image: second secon

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#### Effect

Convert the image into positive (true color), monochrome (black and white) or negative.





#### Advanced

Select to set the Auto Image, Exposure, and White Balance settings.



#### **Menu Screen**



#### Function

#### Auto Image

Select ON or OFF to automatically adjust the white balance and exposure setting, and correct the color and exposure compensation.



#### Exposure

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Select the exposure setting. **AUTO** - automatically adjust the camera exposure and the amount of light required. **MANUAL** - manually adjust the exposure level. The exposure can be adjusted up to 100.



#### White Balance

Select the White Balance setting for various light conditions or color temperature.

AUTO - automatically adjust the white balance.

**MANUAL** - manually adjust the red and blue color level. The color level can be adjusted up to 255.



#### Focus

Manually adjust the focus.



## Presentation



#### Function

#### Spotlight

Spotlight overlays a frame on the presentation screen. You can move the Spotlight around the presentation screen using the  $\blacktriangle, \blacktriangledown, \triangleleft, \And$  buttons. Select Execute to call the Spotlight submenu.



In the Spotlight submenu, the following options are available.



**ON/OFF** – select to run/cancel the Spotlight. Press to move to the next selection.

**Shade** – set the opacity level of the area outside the box. The shaded area will completely turns black when it is set

to level 100. Press to move to the next selection.

**Color** – select the Spotlight frame color. Press  $\textcircled{\leftarrow}$  to move to the next selection.

**OK** – press  $\textcircled{\bullet}$  for the setting to take effect. If you select ON, the frame will appear and blink, use the  $\blacktriangle$ ,  $\blacktriangledown$ ,  $\blacklozenge$ ,

► buttons to adjust the frame size and press ( to set the desired size; and OFF will close the submenu.

#### Visor

Visor covers the presentation screen. The upper part of the presentation screen is slightly exposed. Use the ▲, ▼, ◀, & ► buttons to reveal more of the covered area. Select Execute to call the Visor submenu.





#### Menu Screen



#### Function

In the Visor submenu, the following options are available.



ON/OFF – select to run/cancel the Visor, Press to move to the next selection.

**Shade** – set the opacity level of the covered area. The shaded area will completely turns black when it is set to level 100. Press



to move to the next selection.

**OK** – press for the setting to take effect. If you select ON, upper part of the presentation screen is slightly exposed. Use the  $\blacktriangle, \lor, \triangleleft, \& \succ$  buttons to reveal more of the covered area; and OFF will close the submenu.



#### PIP

Select the thumbnail playback screen location and show the thumbnail playback screen at the corner of the screen to recall the captured image from the memory in Camera mode. Select OFF to cancel PIP.

Lower Left



Upper Left

- Upper Right
- Lower Right



#### Split Screen

Divide the screen into two parts. Half of the screen displays the 8-thumbnail images and the other half display the image from the AVerVision F30 camera.

Select the display location of the 8- thumbnail playback images. Select OFF to cancel Split Screen.









#### Function

#### Timer

Start/Pause/Stop the timer and set the timer duration. The timer automatically counts up after the count down reaches zero to show the elapsed time. Even when you switch between Playback, PC or Camera modes, the timer will continue.

## Setting



#### Function

#### Capture

Select to set the capture resolution, quality, type and interval settings.



#### Resolution

Select the capture size. In 3M setting, the capture resolution size is 2592 X 1944.



#### Quality Select the capture compression setting.



| Menu Screen  | Function   |
|--|--|
|  | Туре   |
|  | Select the capture type.                                 |
|  | Single - capture one picture only.                       |
|  | Continuous - capture successive pictures.                |
|  |  |
|  |  |
| La Castral de la companya de la companya   |  |
|  | Interval   |
| Transformer and the second   | Set the time interval for continuous capture. The length |
| and the second   | can be set up to 600 sec (10 min).                       |
| and the second s |  |
|  |  |
| 1000   |  |
| 5 G X 5  | Recording  |
| 100 C  | Select the video recording compression setting.          |
| Canada Constanti Constanti Constanti   | Select the video recording compression setting.          |
| Series Descent Line out on   |  |
| Format defining on the section   |  |
| Metallic Server Annue  |  |
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| 2 3 X X  | Storage  |
| attive.  | Change the storage location. Audio & video recording     |
| Same man in the same   | can only be saved in SD memory card or USB flash         |
| Terms at training time street  | drive.   |
| Turne articles of the  |  |
| Instance Server  |  |
| (mm) (m) (m)   |  |
| D 13 X 0   | Format   |
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| Sense internet internet  | Format to delete all the data in the selected memory.    |
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|  |  |



#### **Menu Screen**



#### Function

#### USB to PC

Select the status of the AVerVision F30 when it is connected to the computer via USB. Make sure the USB switch on the left panel is set to <u>FC</u>.

**Camera** - can be used as a computer webcam or with our bundled software to record video and capture still image.

**Storage** - transfer the captured pictures from the memory to computer hard disk.

#### Flicker

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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.

## System

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#### Function

#### Language

Change and select different language.



#### Output Display

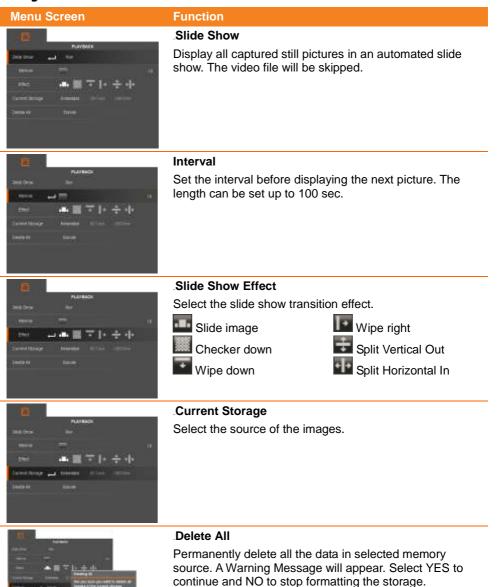
Set the resolution to display the image on screen. This selection will be disabled in TV output mode.



| Menu Screen  | Function   |
|--|--|
| Image         Image         Image           Limit court         Statest Court         Statest Court           Limit court         Kindet         Statest Court           Terminal         Market         Statest Court   | . <b>Backup</b><br>Copy the image from the built-in memory to SD card or<br>USB flash drive.                           |
| 🛿 🖓 🛠 🔅  | Save Setting   |
| Longonia<br>Sanak Sanak<br>Sanak Sanak<br>Sanak Sanak<br>Sanak Sanak<br>Sanak Sanak<br>Sanak Sanak<br>Sanak Sanak<br>Sanak<br>Sanak Sanak<br>Sanak   | Save current setting in the selected profile number. Only effect, mode, brightness and contrast settings can be saved. |
| Emiliaria Series | Recall Setting<br>Restore the setting back to the selected profile number.   |
| ona la la  |  |
|  | Information<br>Display the product information.  |
| E E E E E E E E E E E E E E E E E E E  | <b>Default</b><br>Restore all the settings into original factory default<br>setting.                                   |



## Playback



## **Transfer Captured Images/Videos to a computer**

This enables you to transfer the captured image from the built-in memory or SD to a computer.



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

- 1. Make sure to set the USB switch to 🖾 for the computer to detect AVerVision F30.
- 2. **MUST** set the USB to PC as STORAGE before connecting the USB cable.



- 3. When "Mass Storage Start..." appears at the lower right corner of the presentation screen, you may now connect the USB cable.
- Upon connecting the USB cable, the system automatically detects the new removable disk. You can now transfer the captured image(s) from the <u>F30 built-in memory</u> to the computer hard disk.

## **Technical Specifications**

Image

| 3             |   |
|---------------|---|
| Sensor        | 1/2" CMOS   |
| Pixel Count   | 3 megapixels                                      |
| Frame Rate    | 30 fps (max.)                                     |
| White Balance | Auto / Manual                                     |
| Exposure      | Auto / Manual                                     |
| Image mode    | Sharp / Graphics / Motion / Microscope            |
| Effect        | Color / B/W / Negative / Mirror / Rotate / Freeze |
| RGB output    | 1280x720, 1024x768                                |
| Image Capture | 240 Frames(XGA) ; 80 Frames(3M Pixel)             |
|               |   |

Optics

| Focusing      | Auto / Manual                        |
|---------------|--------------------------------------|
| Shooting Area | 420mm x 297mm                        |
| Zooming       | 16X (2X AVERZOOM™ + 8X Digital Zoom) |



#### Power

| Power Source | DC 12V, 100-240V, 50-60Hz                 |
|--------------|---|
| Consumption  | 16.8 Watts (lamp off); 18 Watts (lamp on) |

## Lighting

| -         |           |
|-----------|-----------|
| Lamp Type | LED light |

## Input/Output

| RGB Input       | 15-Pins D-sub (VGA)                           |
|-----------------|---|
| RGB Output      | 15-Pins D-sub (VGA)                           |
| CVBS/RS-232     | Mini-DIN Jack (use CVBS/RS-232 Adapter cable) |
| Composite Video | RCA Jack                                      |
| USB             | USB2.0  |
| DC 12V Input    | Power Jack                                    |
| MIC             | Phone Jack                                    |
| Speaker         | Phone Jack                                    |

## Dimension

| Operating | 380mm x 200mm x 525mm (+/-2mm include rubber foot) |
|-----------|--|
| Folded    | 305mm x 230mm x 77mm (+/-2mm include rubber foot)  |
| Weight    | 2.5 kg (about 5.513lbs)                            |

## External Storage

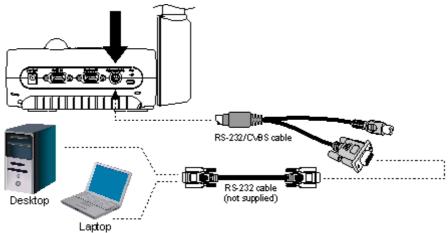
| Secure Digital<br>(SDHC) | 1GB ~ 32GB (FAT32) |
|--------------------------|--------------------|
| USB Flash Drive          | 2GB ~ 64GB (FAT32) |

# Using the RS-232 Interface

AVerVision F30 can be controlled using a computer or any centralized control panel through RS-232 connection. The command code for RS-232 is provided for the system integrator to be able to incorporate it with the system program.

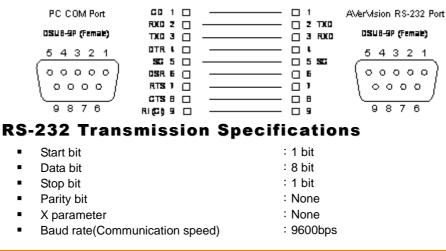
## **Connect to the Computer RS-232**

Locate the RS-232 port of the computer and connect it to RS-232 jack of RS-232/CVBS cable.



## **RS-232 Cable Specifications**

Make sure the RS-232 cable matches the cable specification design.





## **RS-232 Communication Format**

| Send Device Code(1 Byte)<br>Type Code(1 Byte) | : 0x52<br>: 0x0B   |
|---|--|
| DataLength Code(1 Byte)                       | : 0x03   |
| Data Code(1 Byte)                             | : See the Command Table for reference.                                       |
| Data Code(2 Byte)                             | : See the Command Table for reference.                                       |
| Data Code(3 Byte)                             | : See the Command Table for reference.                                       |
| Receive Device Code(1 Byte)                   | : 0x53   |
| CheckSum Code(1 Byte)                         | : See the Command Table for reference.                                       |
| Format  | : Start + Type + DataLength + Data + CheckSum                                |
| Example                                       | : 0x52 + 0x0B + 0x03+ 0x3 + 0x01 + 0x00 + 0x00 + 0x53 + 0x5A (Command Power) |

## **RS-232 Send Command Table**

Send Format : 0x52 + 0x0B + 0x03 + Data[0] + Data[1] + Data[2] + 0x53 + CheckSum Receive Format : 0x53 + 0x00 + 0x02+ \*2 + \*3 + 0x52 + CheckSum

\*1 : CheckSum = 0x0B xor 0x03 xor Data[0] xor Data[1] xor Data[2] xor 0x53

\*2 : Receive data ok : 0x0B, ID error: 0x01, CheckSum error: 0x02, Not Command : 0x03, Function fail = 0x04

\*3 : Data[0], Return 0x00 if error

| Function                                      | data[0] | data[1] | data[2] | Checksum |
|---|---------|---------|---------|----------|
| POWER OFF                                     | 0x01    | 0x00    | 0x00    | 0x5a     |
| POWER ON                                      | 0x01    | 0x01    | 0x00    | 0x5b     |
| CAMERA MODE                                   | 0x02    | 0x00    | 0x00    | 0x59     |
| PLAYBACK MODE                                 | 0x03    | 0x00    | 0x00    | 0x58     |
| PC-1 PASS THROUGH                             | 0x04    | 0x00    | 0x00    | 0x5f     |
| IMAGE CAPTURE TYPE: SINGLE                    | 0x05    | 0x00    | 0x00    | 0x5e     |
| IMAGE CAPTURE TYPE: CONTINUOUS                | 0x05    | 0x01    | 0x00    | 0x5f     |
| IMAGE CAPTURE CONTINUOUS<br>INTERVAL INCREASE | 0x06    | 0x00    | 0x00    | 0x5d     |
| IMAGE CAPTURE CONTINUOUS<br>INTERVAL DECREASE | 0x06    | 0x01    | 0x00    | 0x5c     |
| NORMAL IMAGE CAPTURE                          | 0x07    | 0x00    | 0x00    | 0x5c     |
| 3M IMAGE CAPTURE                              | 0x07    | 0x01    | 0x00    | 0x5d     |
| TIMER START                                   | 0x08    | 0x00    | 0x00    | 0x53     |



| Function                 | data[0] | data[1] | data[2]             | Checksum |
|--------------------------|---------|---------|---------------------|----------|
| TIMER PAUSE              | 0x08    | 0x01    | 0x00                | 0x52     |
| TIMER STOP               | 0x08    | 0x02    | 0x00                | 0x51     |
| TIMER SET TIME           | 0x08    | 0x03    | Value[ 1<br>~ 120 ] | *1       |
| PREVIEW MODE: SHARP      | 0x0A    | 0x00    | 0x00                | 0x51     |
| PREVIEW MODE: GRAPHICS   | 0x0A    | 0x01    | 0x00                | 0x50     |
| PREVIEW MODE: MOTION     | 0x0A    | 0x02    | 0x00                | 0x53     |
| PREVIEW MODE: MICROSCOPE | 0x0A    | 0x03    | 0x00                | 0x52     |
| PREVIEW MODE CAPTURE     | 0x0B    | 0x00    | 0x00                | 0x50     |
| PLAYBACK DELETE          | 0x0C    | 0x00    | 0x00                | 0x57     |
| PLAYBACK FULL SCREEN     | 0x0D    | 0x00    | 0x00                | 0x56     |
| MIRROR OFF               | 0x0E    | 0x00    | 0x00                | 0x55     |
| MIRROR ON                | 0x0E    | 0x01    | 0x00                | 0x54     |
| ROTATE 0                 | 0x0F    | 0x00    | 0x00                | 0x54     |
| ROTATE 90                | 0x0F    | 0x01    | 0x00                | 0x55     |
| ROTATE 180               | 0x0F    | 0x02    | 0x00                | 0x56     |
| ROTATE 270               | 0x0F    | 0x03    | 0x00                | 0x57     |
| EFFECT: COLOR            | 0x10    | 0x00    | 0x00                | 0x4b     |
| EFFECT: B/W              | 0x10    | 0x01    | 0x00                | 0x4a     |
| EFFECT: NEGATIVE         | 0x10    | 0x02    | 0x00                | 0x49     |
| CONTRAST INCREASE        | 0x11    | 0x00    | 0x00                | 0x4a     |
| CONTRAST DECREASE        | 0x11    | 0x01    | 0x00                | 0x4b     |
| CONTRAST VALUE           | 0x11    | 0x02    | Value[ 0<br>~ 255 ] | *1       |
| BRIGHTNESS INCREASE      | 0x12    | 0x00    | 0x00                | 0x49     |
| BRIGHTNESS DECREASE      | 0x12    | 0x01    | 0x00                | 0x48     |
| BRIGHTNESS VALUE         | 0x12    | 0x02    | Value[ 0<br>~ 63 ]  | *1       |
| EXPOSURE: AUTO           | 0x13    | 0x00    | 0x00                | 0x48     |
| EXPOSURE: MANUAL         | 0x13    | 0x01    | 0x00                | 0x49     |
| EXPOSURE MANUAL INCREASE | 0x14    | 0x00    | 0x00                | 0x4f     |
| EXPOSURE MANUAL DECREASE | 0x14    | 0x01    | 0x00                | 0x4e     |



| Function                      | data[0] | data[1] | data[2] | Checksum |
|-------------------------------|---------|---------|---------|----------|
| WHITE BALANCE: AUTO           | 0x15    | 0x00    | 0x00    | 0x4e     |
| WHITE BALANCE: MANUAL         | 0x15    | 0x01    | 0x00    | 0x4f     |
| WHITE BALANCE BLUE INCREASE   | 0x16    | 0x00    | 0x00    | 0x4d     |
| WHITE BALANCE BLUE DECREASE   | 0x16    | 0x01    | 0x00    | 0x4c     |
| WHITE BALANCE RED INCREASE    | 0x17    | 0x00    | 0x00    | 0x4c     |
| WHITE BALANCE RED DECREASE    | 0x17    | 0x01    | 0x00    | 0x4d     |
| FLICKER: 50Hz                 | 0x18    | 0x00    | 0x00    | 0x43     |
| FLICKER: 60Hz                 | 0x18    | 0x01    | 0x00    | 0x42     |
| SPOTLIGHT: OFF                | 0x19    | 0x00    | 0x00    | 0x42     |
| SPOTLIGHT: ON                 | 0x19    | 0x01    | 0x00    | 0x43     |
| SPOTLIGHT SHADE: 0% dark      | 0x1A    | 0x00    | 0x00    | 0x41     |
| SPOTLIGHT SHADE: 50% dark     | 0x1A    | 0x01    | 0x00    | 0x40     |
| SPOTLIGHT SHADE: 100% dark    | 0x1A    | 0x02    | 0x00    | 0x43     |
| SPOTLIGHT COLOR: RED          | 0x1B    | 0x00    | 0x00    | 0x40     |
| SPOTLIGHT COLOR: GREEN        | 0x1B    | 0x01    | 0x00    | 0x41     |
| SPOTLIGHT COLOR: BLUE         | 0x1B    | 0x02    | 0x00    | 0x42     |
| SPOTLIGHT RESIZE              | 0x1C    | 0x00    | 0x00    | 0x47     |
| VISOR: OFF                    | 0x1D    | 0x00    | 0x00    | 0x46     |
| VISOR: ON                     | 0x1D    | 0x01    | 0x00    | 0x47     |
| VISOR SHADE: 50% dark         | 0x1E    | 0x00    | 0x00    | 0x45     |
| VISOR SHADE: 100% dark        | 0x1E    | 0x01    | 0x00    | 0x44     |
| PIP: OFF                      | 0x1F    | 0x00    | 0x00    | 0x44     |
| PIP: ON                       | 0x1F    | 0x01    | 0x00    | 0x45     |
| PIP POSITION: BOTTOM LEFT     | 0x20    | 0x00    | 0x00    | 0x7b     |
| PIP POSITION: TOP LEFT        | 0x20    | 0x01    | 0x00    | 0x7a     |
| PIP POSITION: TOP RIGHT       | 0x20    | 0x02    | 0x00    | 0x79     |
| PIP POSITION: BOTTOM RIGHT    | 0x20    | 0x03    | 0x00    | 0x78     |
| SPLITSCREEN: OFF              | 0x21    | 0x00    | 0x00    | 0x7a     |
| SPLITSCREEN: ON               | 0x21    | 0x01    | 0x00    | 0x7b     |
| SPLITSCREEN DIR: UPPER SCREEN | 0x22    | 0x00    | 0x00    | 0x79     |



| Function                      | data[0] | data[1] | data[2] | Checksum |
|-------------------------------|---------|---------|---------|----------|
| SPLITSCREEN DIR: LOWER SCREEN | 0x22    | 0x01    | 0x00    | 0x78     |
| SPLITSCREEN DIR: LEFT SCREEN  | 0x22    | 0x02    | 0x00    | 0x7b     |
| SPLITSCREEN DIR: RIGHT SCREEN | 0x22    | 0x03    | 0x00    | 0x7a     |
| RECORD: OFF                   | 0x23    | 0x00    | 0x00    | 0x78     |
| RECORD: ON                    | 0x23    | 0x01    | 0x00    | 0x79     |
| MOVIE FAST REWIND             | 0x25    | 0x00    | 0x00    | 0x7e     |
| MOVIE FAST FORWARD            | 0x25    | 0x01    | 0x00    | 0x7f     |
| MOVIE VOL INC                 | 0x26    | 0x00    | 0x00    | 0x7d     |
| MOVIE VOL DEC                 | 0x26    | 0x01    | 0x00    | 0x7c     |
| RECORD QUALITY: NORMAL        | 0x27    | 0x00    | 0x00    | 0x7c     |
| RECORD QUALITY: HIGH          | 0x27    | 0x01    | 0x00    | 0x7d     |
| STORAGE: EMBEDDED             | 0x28    | 0x00    | 0x00    | 0x73     |
| STORAGE: SD CARD              | 0x28    | 0x01    | 0x00    | 0x72     |
| STORAGE: THUMB DRIVE          | 0x28    | 0x02    | 0x00    | 0x71     |
| FORMAT: EMBEDDED              | 0x29    | 0x00    | 0x00    | 0x72     |
| FORMAT: SD CARD               | 0x29    | 0x01    | 0x00    | 0x73     |
| FORMAT: THUMB DRIVE           | 0x29    | 0x02    | 0x00    | 0x70     |
| OUTPUT RESOLUTION: 1024x768   | 0x2F    | 0x01    | 0x00    | 0x75     |
| OUTPUT RESOLUTION: 1280x720   | 0x2F    | 0x02    | 0x00    | 0x76     |
| USB CONNECT: USB CAMERA       | 0x30    | 0x00    | 0x00    | 0x6b     |
| USB CONNECT: MASS STORAGE     | 0x30    | 0x01    | 0x00    | 0x6a     |
| BACKUP TO SD CARD             | 0x31    | 0x00    | 0x00    | 0x6a     |
| BACKUP TO THUMBDRIVE          | 0x31    | 0x01    | 0x00    | 0x6b     |
| PROFILE SAVE: PROFILE 1       | 0x32    | 0x00    | 0x00    | 0x69     |
| PROFILE SAVE: PROFILE 2       | 0x32    | 0x01    | 0x00    | 0x68     |
| PROFILE SAVE: PROFILE 3       | 0x32    | 0x02    | 0x00    | 0x6b     |
| PROFILE RECALL: PROFILE 1     | 0x33    | 0x00    | 0x00    | 0x68     |
| PROFILE RECALL: PROFILE 2     | 0x33    | 0x01    | 0x00    | 0x69     |
| PROFILE RECALL: PROFILE 3     | 0x33    | 0x02    | 0x00    | 0x6a     |
| SLIDESHOW: OFF                | 0x34    | 0x00    | 0x00    | 0x6f     |



| Function                   | data[0] | data[1] | data[2] | Checksum |
|----------------------------|---------|---------|---------|----------|
| SLIDESHOW: ON              | 0x34    | 0x01    | 0x00    | 0x6e     |
| SLIDESHOW EFFECT: EFFECT 0 | 0x35    | 0x00    | 0x00    | 0x6e     |
| SLIDESHOW EFFECT: EFFECT 1 | 0x35    | 0x01    | 0x00    | 0x6f     |
| SLIDESHOW EFFECT: EFFECT 2 | 0x35    | 0x02    | 0x00    | 0x6c     |
| SLIDESHOW EFFECT: EFFECT 3 | 0x35    | 0x03    | 0x00    | 0x6d     |
| SLIDESHOW EFFECT: EFFECT 4 | 0x35    | 0x04    | 0x00    | 0x6a     |
| SLIDESHOW EFFECT: EFFECT 5 | 0x35    | 0x05    | 0x00    | 0x6b     |
| AUTO IMAGE:OFF             | 0x36    | 0x00    | 0x00    | 0x6d     |
| AUTO IMAGE:ON              | 0x36    | 0x01    | 0x00    | 0x6c     |
| CAPTURE QUALITY: STANDARD  | 0x37    | 0x00    | 0x00    | 0x6c     |
| CAPTURE QUALITY: FINE      | 0x37    | 0x01    | 0x00    | 0x6d     |
| CAPTURE QUALITY: FINEST    | 0x37    | 0x02    | 0x00    | 0x6e     |
| AUTO FOCUS                 | 0x40    | 0x00    | 0x00    | 0x1b     |
| MENU                       | 0x41    | 0x00    | 0x00    | 0x1a     |
| ARROW - DOWN               | 0x42    | 0x00    | 0x00    | 0x19     |
| ARROW – UP                 | 0x42    | 0x01    | 0x00    | 0x18     |
| ARROW - LEFT               | 0x42    | 0x02    | 0x00    | 0x1b     |
| ARROW - RIGHT              | 0x42    | 0x03    | 0x00    | 0x1a     |
| ENTER                      | 0x43    | 0x00    | 0x00    | 0x18     |
| FREEZE                     | 0x44    | 0x00    | 0x00    | 0x1f     |
| DEFAULT                    | 0x45    | 0x00    | 0x00    | 0x1e     |
| ZOOM -                     | 0x46    | 0x00    | 0x00    | 0x1d     |
| ZOOM +                     | 0x46    | 0x01    | 0x00    | 0x1c     |
| ZOOM RESET                 | 0x47    | 0x00    | 0x00    | 0x1c     |
| NEAR                       | 0x48    | 0x00    | 0x00    | 0x13     |
| FAR                        | 0x48    | 0x01    | 0x00    | 0x12     |
| LAMP OFF                   | 0x49    | 0x00    | 0x00    | 0x12     |
| LAMP ON                    | 0x49    | 0x01    | 0x00    | 0x13     |



## **RS-232 Get Command Table**

Send Format : 0x52 + 0x0A + 0x01 + Data[0] + 0x53 + CheckSum

Receive Format : 0x53 + 0x0C + 0x01 + ReData[0] + 0x53 + ReCheckSum

\*1 : ReCheckSum = 0x0C xor 0x01 xor ReData[0] xor 0x52

| Function            | Data[0] | CheckSum<br>Code | ReData[0]  |
|---------------------|---------|------------------|--|
| Red Value           | 0x02    | 0x5A             | Value[ 0 ~ 255 ]   |
| Blue Value          | 0x03    | 0x5B             | Value[ 0 ~ 255 ]   |
| Power Status        | 0x04    | 0x5C             | 0:OFF 1:ON   |
| Lamp Status         | 0x05    | 0x5D             | 0:OFF 1:ON   |
| Display Status      | 0x06    | 0x5E             | 0: Camera Mode<br>1: Playback Mode<br>2: PC-1 Pass Through |
| Video Output Status | 0x07    | 0x5F             | 0: VGA 1: TV   |
| Freeze Status       | 0x08    | 0x50             | 0:OFF 1:ON   |
| Brightness Value    | 0x0A    | 0x52             | Value[ 0 ~ 63 ]  |
| Contrast Value      | 0x0B    | 0x53             | Value[ 0 ~ 255 ]   |
| LIGHT BOX Status    | 0x0C    | 0x54             | 0 : OFF 1: ON  |

# Troubleshooting

This section provides many useful tips on how to solve common problems while using the AVerVision F30.

#### 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.
- If you are presenting from a notebook or computer through the display output device, check the cable connection from computer RGB (VGA) output to RGB input of AVerVision F30 and make sure AVerVision F30 is in PC Mode.

# I have set up the AVerVision F30 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 is connected the unit is set to standby mode. Press the POWER button to turn on.
- If your display output device is on TV or any analog device, please switch the TV-RGB dip switch to TV.

#### 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. Press MENU then go to SYSTEM > Default and select YES in the OSD menu.
- 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, press the Auto Focus button on the control panel or remote control.



#### There is no computer signal on presentation screen.

- 1. Check all the cable connections among the display device, AVerVision F30 and your PC.
- 2. Connect your PC to the AVerVision F30 first before you power on your computer.
- 3. For notebook, repeatedly press FN+F5 to toggles between display modes and display the computer image on the presentation screen. For different command, please refer to your laptop manual.

# The presentation screen does not show the exact desktop image on my PC or Notebook after I toggle from Camera to PC mode.

- 1. Return to your PC or Notebook, place the mouse on the desktop and right click, choose "Properties", choose "Setting" tab, click on "2" monitor and check the box "Extend my Windows desktop onto this monitor".
- 2. Then go back one more time to your PC or Notebook and place the mouse on the desktop and right click again.
- 3. This time choose "Graphics Options", then "Output To", then "Intel® Dual Display Clone", and then choose "Monitor + Notebook".
- 4. After you follow these steps, you should be able to see the same desktop image on your PC or Notebook as well as on the presentation screen.

#### AVerVision F30 can't detect the inserted USB flash drive.

Make sure the USB flash drive switch is set to  $\boxed{\texttt{res}}$  and check if the USB flash drive is properly inserted.

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