

AVerVision W30

User Manual



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 protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by 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.

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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.

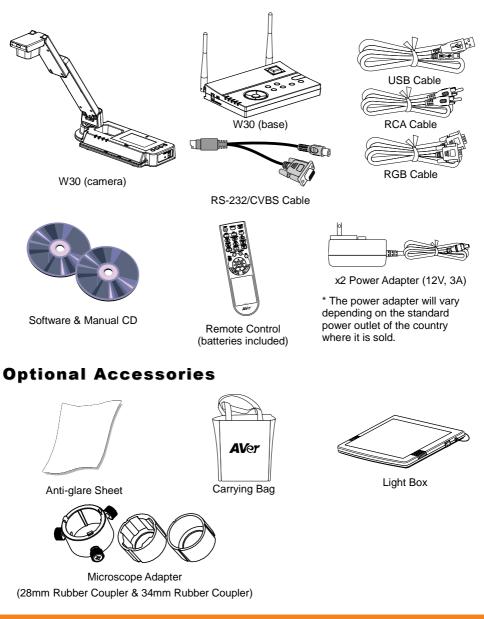
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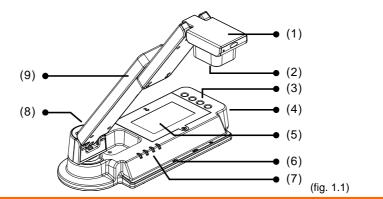
Package Contents

Make sure the following items are included in the package.



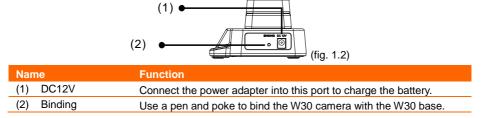
Get Familiar with the AVerVision W30

Camera

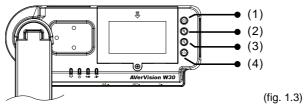


| Nar | ne | Function | |
|-----|------------------------|--|--|
| (1) | Camera Head | Contain the camera sensor. | |
| (2) | Camera Lens | Focus the image in the camera. | |
| (3) | Control Panel | Easy access to various functions. | |
| (4) | Right Panel | Connection for the power adapter to charge the battery and binding button to tie up with the W30 base. | |
| (5) | Battery Compartment | Rechargeable battery location. | |
| (6) | Paper Guide | Guide to position the A4 size paper. | |
| (7) | LED Light | Indicate the wireless signal condition, power status, battery life, and power connection mode. | |
| (8) | Label Slot | Label the W30 camera. | |
| (9) | Swivel Arm | Fold and unfold the arm of the W30 camera. | |

Right Panel

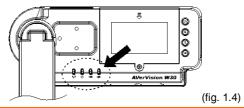


Control Panel



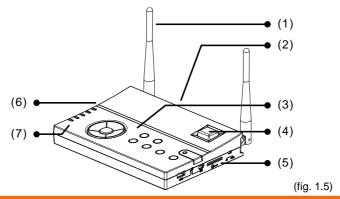
| Name | Function | |
|---------------------------------------|---|--|
| (1) Power Turn the W30 camera on/off. | | |
| (2) Zoom + | Increase the magnification of the W30 camera image. | |
| (3) Zoom - | Decrease the magnification of the W30 camera image. | |
| (4) Auto Focus | Adjust the focus automatically. | |

LED Light



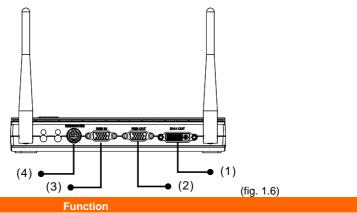
| Symbol | LED Pattern | State |
|-----------------------|------------------------------|--|
| | Steady Green | Binding the W30 camera with the W30 base. |
| (1) ⁽⁽ 1)) | Continuous Green Flashing | Data transition. It sends the W30 camera data to W30 base. |
| (2) (l) | Steady Blue | W30 camera is power on. |
| (2) | No Light | W30 camera is power off. |
| | Green | Good charge. |
| | Orange | Medium charge. |
| (3) | Red | Low charge. The camera battery has to be charged soon. |
| | Blinking Red | Very low charge. The camera battery has to be charged immediately. |
| (4) | Green | Battery is fully charged. You may unplug the power adapter or continue to use the power source from the power adapter. |
| (-) | Red | Charging the battery. |
| | No Light | The power adapter is not connected. |

Base



| Function | | |
|---|--|--|
| Send and receive data signal to and from W30 camera and base. | | |
| Connections for computer, RGB/DVI-I/RCA external display device, and RS-232 communication port. | | |
| nel Easy access to various functions. | | |
| Receive remote control commands. | | |
| el Switches for USB and output display selection, and SD card slot | | |
| Connection for power and output resolution selection switch. | | |
| Indicate the display output selection, USB switch selection, and wireless signal condition. | | |
| | | |

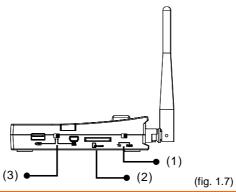
Rear Panel



| Name | Function | |
|---------------|---|--|
| (1) DVI-I OUT | Connect the W30 base to any display device with DVI cable. | |
| (2) RGB OUT | Connect the W30 base to any display device with RGB cable. | |
| (3) RGB IN | 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. | |

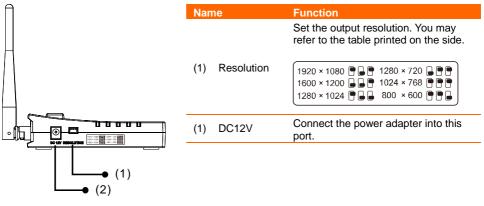
| Name | Function | |
|----------------------|---|--|
| (4) RS-232/CVBS port | Connect the supplied RS-232/CVBS cable into this port. The RCA jack outputs the video signal from the camera to a TV or video equipment. The RS-232 jack is used to connect to computer serial port or to any control panel or for centralized control if desire. | |

Right Panel



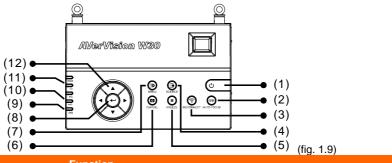
| Nai | me | Function | | |
|-----|---------------|--|--|--|
| (1) | TV-RGB switch | TV switch to output display video from RS232/CVBS (via RCA connection), and RGB to RGB OUT and DVI-I OUT ports. | | |
| (2) | SD card slot | Insert the SD card with the label facing up. | | |
| (3) | USB switch | Switch to 💬 for saving /displaying the captured image directly to a USB flash drive and 🖭 when connecting W30 base to a computer via USB cable and use it as computer webcam or transfer the captured image to computer. | | |

Left Panel





Control Panel



| Name | Function | | | |
|-----------------------|---|--|--|--|
| (1) POWER | Turn the unit on/standby mode. | | | |
| (2) AUTO FOCUS | Adjust the focus automatically. | | | |
| (3) RECONNECT | Reconnect the W30 camera and base. | | | |
| (4) SOURCE | Select from 6 types of display options. CAM – display the video signal from the W30 camera. | | | |
| | RGB IN – display the video signal from the W30 base RGB IN port. BLAYBACK – display the picture from the memory source. | | | |
| | PLAYBACK – display the picture from the memory source. CAM/RGB IN – half of the screen display the video signal from the W30 camera and the other half display the video signal from W30 base RGB IN port. | | | |
| | SPLT SCRN – half of the screen display the video signal from the W30 camera and 8-thumbnail picture from the memory. | | | |
| | PIP – display a thumbnail picture from the memory at the corner of the screen over the full screen video signal from the W30 camera. | | | |
| (5) FREEZE | - Freeze live images in camera mode. | | | |
| | - Pause slide show in playback mode. | | | |
| (6) CAP/DEL | Capture still image in Camera mode. In continuous capture mode, press this button again to stop. | | | |
| | Delete the selected picture in Playback mode. | | | |
| (7) MENU | Open and exit the OSD menu. | | | |
| (8) | Make a selection in Playback mode and OSD menu. Play/Pause picture slide show. | | | |
| (9) ⁽⁽ i)) | Show the wireless signal condition. | | | |
| | Steady Green - binding the W30 camera with the W30 base. | | | |
| | Continuous Green Flashing - data transition. It sends the W30 camera data to W30 base. | | | |
| (10) USB Switch LED | Indicate the USB switch selection to show which USB port is activated. | | | |
| | Image: allowing you to use the W30 as USB camera or transfer the captured images from the memory to computer. | | | |
| | Illowing you to save still image in the USB flash drive. | | | |

| Name | Function |
|-------------------|---|
| (11) OUTPUT LED | Indicate TV-RGB switch selection to show which port the video signal is sent out. |
| | RGB indicates the video signal is sent out thru RGB OUT and DVI- I OUT ports. |
| | TV indicates that the video signal is sent out thru RS232/CVBS port via RCA connection. |
| (12) ▲, ♥, ◀, & ► | Pan the image when image is magnified in playback and camera mode. |
| | Move the selection in Playback mode and in OSD menu. |

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 W30 with the remote.

| | Name | | Function |
|---|------|-----------------|--|
| (2) | (1) | POWER | Turn the unit on/standby. |
| (1) (3) (4) (4) (4) (7) (5) (5) (22) (3) (1) (6) (21) (3) (10) (20) (10) (10) (10) (10) | (2) | CAMERA / PC | Switch between Camera and computer mode. Camera mode displays the video signal from the W30 camera. PC mode displays the video signal from the RGB IN port of W30 base. |
| | (3) | PLAYBACK | View the captured picture from the memory in 16-thumbnail images. |
| | (4) | NEAR / FAR | Adjust the focus manually. |
| | (5) | DEFAULT | Reset to factory default setting. |
| (17) (16) (15) (15) (14) (14) | (6) | SPLIT SCREEN | Divide the screen into two. One side displays the live image from the W30 camera and the other side displays 8-thumbnail size picture from the memory. Press to only display the selected image and again to revert back to 16-thumbnail preview. Use , & buttons to pan the single image preview to the left and right. To change the split screen layout, press MENU > PRESENTATION > PBP and press to enter. Use the , & b to choose from the selections and press to make a selection. |

| | Name | Function |
|---|-----------------|--|
| (1) (1) (22) (22) (22) (21) (2) (2) (2) (2) (2) (2) (2) (2 | (7) PIP | Display a thumbnail size picture from the memory at the corner of the screen and on top of the W30 camera live image. Press to only display the selected image in full screen and again to revert back to thumbnail size picture. Use ◀, & ► buttons to switch to the next and previous picture. To change the thumbnail location, press MENU > PRESENTATION > PIP and press to enter. Use the ◀, & ► to choose from the selections and press to make a selection. |
| | (8) SLIDE SHOW | Start/Stop automatically showing the captured picture one-by-one. |
| AVer | (9) TIMER | Call the Timer submenu. Select to Start/Pause/Stop the timer countdown and set the timer duration. |
| (fig. 2.0) | (10) RECONNECT | Reconnect the W30 camera with the base. |
| | (11) SOURCE | Select from 6 types of display options. CAM – display the video signal from the W30 camera. RGB IN – display the video signal from the W30 base RGB IN port. PLAYBACK – display the picture from the memory source. CAM/RGB IN – half of the screen display the video signal from the W30 camera and the other half display the video signal from W30 base RGB IN port. SPLT SCRN – half of the screen display the video signal from the W30 camera and 8-thumbnail picture from the memory. PIP – display a thumbnail picture from the memory at the corner of the screen video signal from the W30 camera. |
| | (12) DEL | Delete the selected picture/video in Playback mode. |
| | (13) AUTO IMAGE | Automatically adjust and set the white balance and exposure setting. |

| | Name | Function |
|---|------------------------|---|
| | (14) BRIGHTNESS +/- | Adjust the brightness. |
| 22) (a) (b) (c) (c) <th>(15) ZOOM +/-</th> <th> Increase/decrease the image magnification in camera and picture playback mode. Use to easily page up and page down 16-thumbnail picture preview. </th> | (15) ZOOM +/- | Increase/decrease the image magnification in camera and picture playback mode. Use to easily page up and page down 16-thumbnail picture preview. |
| (19) (18) (17) (16) (19) (10) (10) (10) (10) (10) (11) (11) (12) (13) | (16) 🕶 | Make a selection in Playback mode and OSD menu. Play/Pause picture slide show. |
| (15) | (17) ▲,▼,◀, & ► | Pan the image when image is magnified in playback and camera mode. Move the selection in Playback mode and in OSD menu. |
| | (18) MENU | Open and exit the OSD menu. |
| Direct P | (19) AUTO FOCUS | Adjust the focus automatically. |
| AVer | (20) FREEZE | Freeze live images in camera mode.Pause slide show in playback mode. |
| (fig. 2.0) | (21) CAPTURE | Capture still image in Camera mode. In continuous capture mode, press this button again to stop. |
| | (22) MODE | Select from 4 type of modes: |
| | | 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 optical zoom for microscopic viewing. |
| | | |

Making the Connection

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 W30 base with.

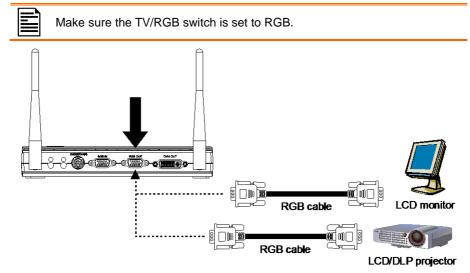
Set the TV-RGB Switch Setting

The TV-RGB switch determines the display output selection. Switch it to RGB (right) to output signal using RGB/DVI-I connection and TV (left) to output signal using RCA connection. (see fig. 1.7 # 1)

| Switch | AVerVision Port | | Display Device Port |
|--------|---------------------------------------|----|--|
| RGB | RGB OUTPUT | | C CONTROL CONT |
| | DVI-I OUTPUT | То | Q #### + O DVI-I INPUT |
| τν | RS232/CVBS (use RS-232/CVBS cable) | | VIDEO IN |

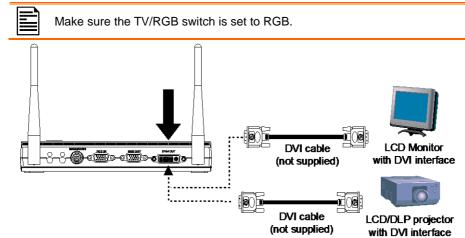
Connect to a Monitor or LCD/DLP Projector

Locate the RGB (VGA) input port of the graphics display device and connect it to RGB OUT port of W30 base.



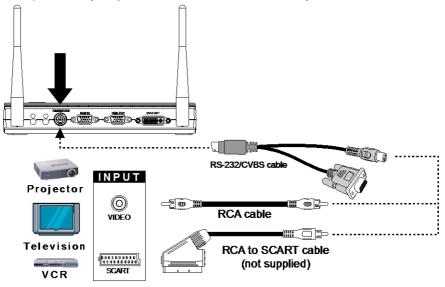
Connect to a Monitor or LCD/DLP Projector with DVI-I interface

Locate the DVI-I input port of the display device and connect it to DVI-I OUT port of W30 base.



Connect to a TV

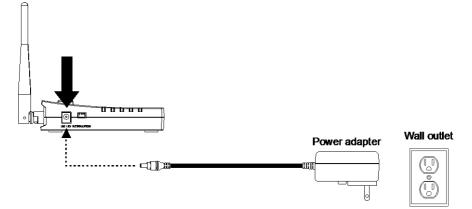
Locate the VIDEO or SCART RGB (if applicable) input port of the TV or video equipment (i.e., VCR) to record your presentation and connect it to RCA jack of RS-232/CVBS cable.



11

Connecting the Power

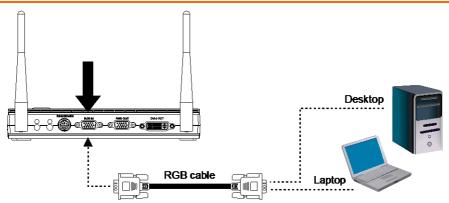
Connect the power adapter to a standard 100V~240V AC power outlet. The unit automatically in standby mode once the power is connected. Press 0 to turn on.



Connect to a Computer

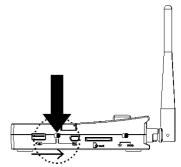
Locate the RGB (VGA) output port of the computer or laptop and connect it to RGB IN port of W30 base. The video signal from the RGB IN port is streamed to RGB OUT port.

- To display computer image, press Camera/PC button on the remote control or SOURCE button and select RGB IN.
- 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.

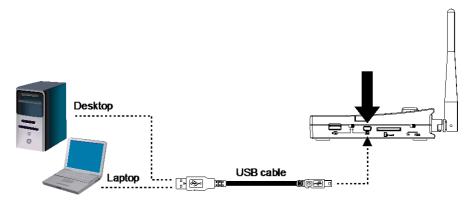


Connect to a Computer via USB

 Set the USB switch on W30 base right panel to I and the I LED on the control panel will light up. This enables you to use W30 as a USB Camera or to transfer the captured pictures from the memory source and to computer. Also see "Transfer File from W30 to PC".



2. Locate the USB port of the computer or laptop and connect it to 🖭 port of W30 base.



Connect to a Microscope

Connect the W30 camera to a microscope enables you to examine microscopic objects on a big screen.

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

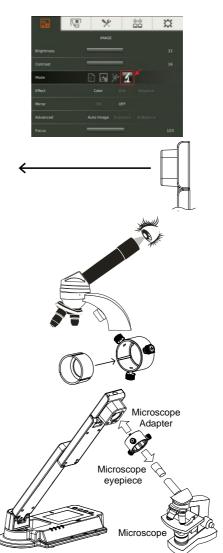
> IMAGE tab > select MODE > select (microscope) and press

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

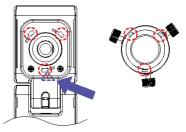
- 4. Select the appropriate rubber coupler size for the microscope eyepiece and insert it in the microscope adapter.
- 5. Remove the microscope eyepiece from the microscope and connect it to the microscope adapter with the rubber coupler inserted. Fasten the 3 bolts until the adapter secures the eyepiece.

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

6. Attach the microscope adapter to the W30 camera head. Then connect the eyepiece to the microscope.



Be sure to match the latches to the holes and the arrow on the microscope adapter and W30 camera head are on the same side. Connect and then twist counterclockwise to lock.

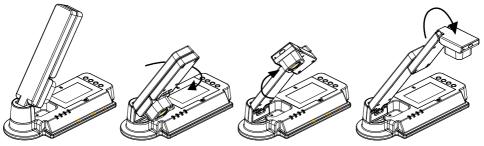


Setting Up and Operating W30

This section provides useful tips on how to adjust the W30 to meet your needs.

Unfolding the W30 camera

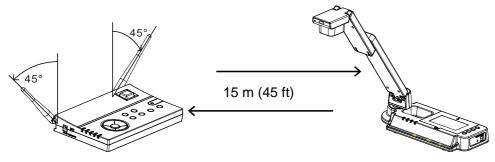
Follow the step by step procedure below to setup the unit.



(1) Unfold the arm. (2) Turn 90° to the left. (3) Swivel up to the left. (4) Fold the camera down.

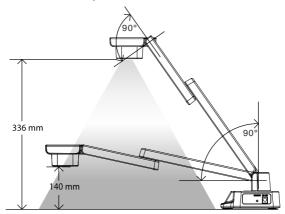
Orient the W30 base Antenna

Orient the W30 base antennas sloping away at 45 degree. The best reception range between the W30 camera and base is within 15m (45 ft). The W30 camera and base are already pre-bound in the factory. If the signal from the camera is not detected, press RECONNECT button.



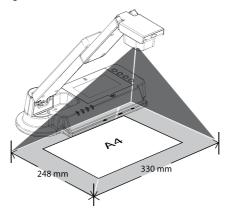
W30 Camera Operating Height & Angle

The approximate height of W30 camera should be at 336mm and angled at 55° to display a A4 size landscape document.



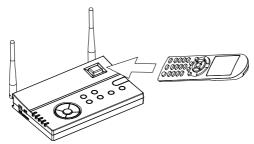
Paper Guide

The A4 paper marks serve as a guide for placing the A4 document under the camera. The approximate shooting area of W30 camera is 330mm x 248mm.



Infrared Sensor

The IR sensor is located on the W30 base only. Aim the remote control at the infrared sensor to operate the unit.

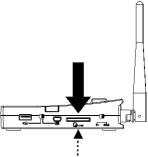


External Memory Storage

W30 supports both SD memory card and USB flash drive for more image capture capacity. It 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.

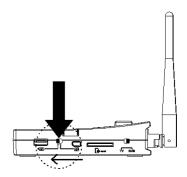




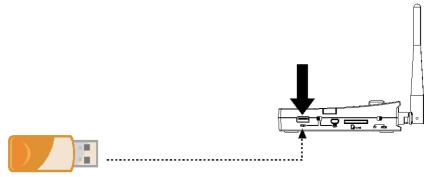
SD Card

Insert a USB Flash Drive

 Set the USB switch on W30 base right panel to ^{CD}. W30 will then detect the USB flash drive and the ^{CD} LED on the control panel will light up.



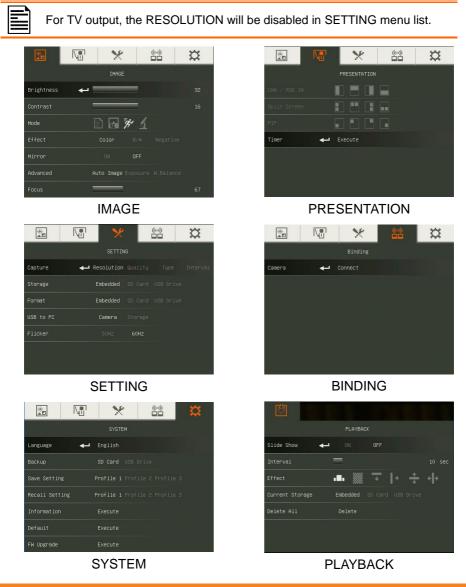
 Connect the USB flash drive in the USB slot. W30 can support USB flash drive from 2GB to 64GB (FAT32). <u>Best to format the USB flash drive using</u> <u>W30</u>.



USB Flash Drive

OSD MENU

There are 5 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.



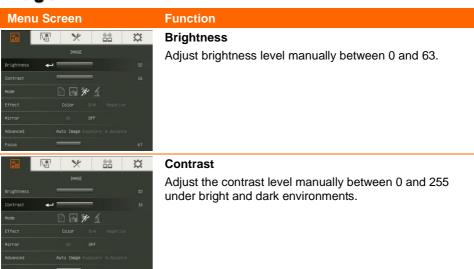
Navigate the Menu and Submenu





- 1. Press MENU button on the remote or control panel.
- 2. Press ► and ◄ 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 No

No.

N.

-

Mode

Mode

×

1 1/ 1

×

×

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X

1

(m)

1



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 optical zoom for microscopic viewing.

Effect

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

Mirror

Select to flip the image in Camera mode.



Advanced

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

| Menu Screen | Function |
|--|---|
| Sources State Stat | Auto Image Select ON or OFF to automatically adjust the white balance and exposure setting, and correct the color and exposure compensation. |
| Image: Second | Exposure 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. |
| Alexand Ark Tayle Land | MANUAL - manually adjust the red and blue color level. The color level can be adjusted up to 255. |
| Image: Contrast Image: Contreat Image: Contrast Image: Con | Focus Manually adjust the focus. |

.

Presentation



Function

CAM / RGB IN

Select to change the layout of the CAM/RGB IN. The display layout can only be changed when W30 is in CAM/ RGB IN mode. To switch to this mode, press SOURCE button and select CAM/RGB IN.

This divides the screen into two parts. Half of the screen displays the image from W30 camera and the other half display the image from RGB IN.







Split Screen

Select to change the layout of the Split Screen. The display layout can only be changed when the W30 is in SPLIT SCREEN mode. To switch to this mode, press SOURCE button and select SPLIT SCRN.

This divides the screen into two parts. Half of the screen displays the 8-thumbnail pictures from the memory source and the other half display the image from the W30 camera.



Pictures Left

Pictures Top





PIP

Select to change the location of the single thumbnail picture viewer. The location can only be changed when the W30 is in PIP mode. To switch to this mode, press SOURCE button and select PIP.

This displays the single thumbnail picture viewer at the corner of the screen and on top of the W30 camera live image.





- Upper Right
- Lower Right

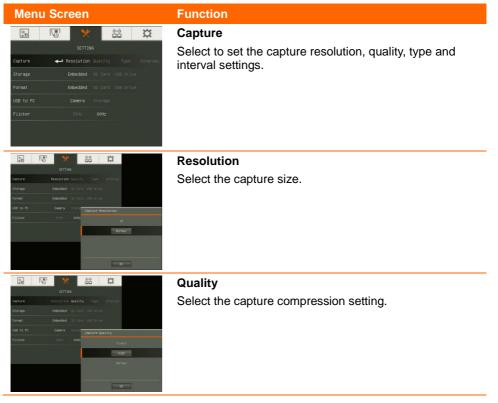


Function

Timer

Start/Pause/Stop the timer and set the timer duration. The timer automatically counts up after the countdown reaches zero to show the elapsed time. Even when you switch between different video display sources, the timer will continue.

Setting



| Menu Screen | Function |
|--|--|
| | Туре |
| SETTING Casture Hesitotido Gually Type Informat | Select the capture type. |
| Storage Exceeded ID Card URD Infor | Single - capture one picture only. |
| Visit 10 PC Casera Stars Controlling | Continuous - capture successive pictures. |
| Plicke Sold Area Street | commodus - capture successive pictures. |
| Cant Inve | |
| | |
| or the second se | |
| | Interval |
| SETTING Capture Hessistich Guality Tuse Interval | Set the time interval for continuous capture. The length |
| Storage Extended III Card will be be | can be set up to 600 sec (10 min). |
| Format Enkedded 30 Card 100 Drive | |
| Fischer Sons sole Velue: | |
| | |
| | |
| 00 | |
| 🖾 🔽 💥 🔛 💢 | Storage |
| SETTING | Change the storage location. |
| Capture Resolution Quality Type Interva | |
| Storage Cand USB Drive | |
| Format Embedded SD Card USB Drive | |
| USB to PC Camera Storage Flicker 501:5 60Hz | |
| | |
| | |
| | Format |
| SETTING | Format to delete all the data in the selected memory. |
| Capture Resolution Quality Type Interva | Format to delete all the data in the selected memory. |
| Storage Embedded SD-Card USB Drive | |
| Format 🔶 Embedded 🔂 Card USB brive | |
| USB to PC Camera Storage | |
| Filtken 50Hz | |
| | |
| 1 VI 🗙 🔛 💢 | USB to PC |
| | |
| Capture Resolution Quality Type Interva | Select the status of the W30 when it is connected to the |
| Storage Embedded SD Card USB Drive | computer via USB. Make sure the USB switch on the right panel is set to 🖭. |
| Format Embedded SD Card USB brive | Camera - can be used as a computer webcam or with |
| USB to PC 🔶 Camera Storage | our bundled software to record video and capture still |
| Flicker 50Hz | image. |
| | Storage - transfer the captured pictures from the |
| | memory to computer hard disk. |
| | |
| | 25 |
| | |

| Μ | en | н S | Ser | 00 | n |
|---|-----|-----|-----|----|---|
| | GII | u v | 501 | 66 | ш |

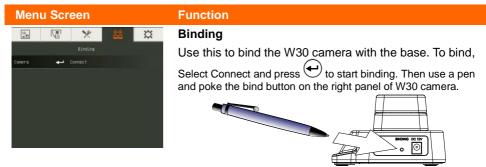


Function

Flicker

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.

Binding



System

| Menu | I Scre | een | | | Functio |
|---|-------------------------|---|------------------|---|--------------------|
| 120 N | F 🗙 | (m) (m) | a | | Langua |
| | | | | | Channe |
| Language | English SD Cand (| | | | Change |
| Backup Save Setting | | | | | |
| Recall Detting | | | - | | |
| | | | | | |
| | | Espeñol | | | |
| | | | | | |
| | | Čest S | | | |
| | | | | | |
| | | - | | | |
| | | | or | | |
| * | | * | | a | Backup |
| (i) A | | | | ¤ | Backup |
| | | SYSTEM | | æ | Backup Copy the |
| Language | | | | ¤ | - |
| | E | SYSTEM | | × | Copy the |
| Language | : ; | SYSTEM English | 22 :ive | | Copy the |
| Language Backup | r e s | SYSTEM English SD Card USB Dr | ive 2 Profile | | Copy the |
| Language Backup Save Setting | e e s Pr ng Pr | SYSTEM English 3D Card USB Dr rofile 1 Profil | ive 2 Profile | | Copy the |
| Language Backup Save Setting Recall Settir | E Pr ng Pr E | SYSTEM English SD Card USB Dr rofile 1 Profil rofile 1 Profil | ive 2 Profile | | Copy the |

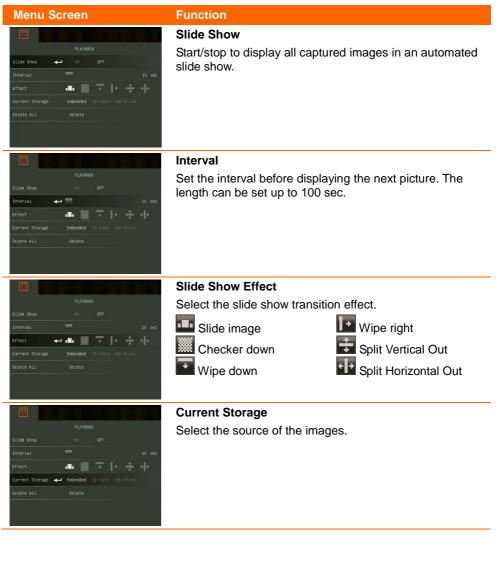
n ge

and select different language.

e image from the built-in memory to SD card or sh drive.

| Menu S | creen | Function |
|----------------|--|---|
| | 7 🗙 📾 | Save Setting |
| | | Save current setting in the selected profile number. Only |
| Language | | effect, mode, brightness and contrast settings can be |
| Backup | | saved. |
| Save Setting 🔺 | ➡ Profile 1 Profile 2 Profil | |
| Recall Setting | | e à: |
| Information | | |
| | | |
| | | |
| | r × m | Recall Setting |
| | SYSTEM | |
| Language | | Restore the setting back to the selected profile number. |
| | SD Card USB Drive | |
| | | |
| | Profile 1 Profile 2 Profil | |
| Information | Execute | |
| Default | | |
| | | |
| FH Upgrade | Execute | |
| | * 88 🔅 | Information |
| | | Display the product information. |
| | | Display the product information. |
| | | |
| | file 1 Profile | |
| | ecute #000L1 #30 8468 FLM3H1 0800PMH-03F 2001-08-10-220 FURD 0409451943 | 5 |
| FW Upgrade Ex | acute | |
| | | |
| | DK. | |
| | × #2 🛱 | Default |
| | SYSTEM | |
| | | Restore all the settings into original factory default |
| | | setting. |
| | | |
| | Hecute | |
| | vecute Personal to default | ent fo reset |
| FW Upgrade E | Secute System to detault? | |
| | Yes | <u> </u> |

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 W30.
- 2. **MUST** set the USB to PC as STORAGE before connecting the USB cable.



- 3. When "**Mass Storage**" 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>W30 built-in memory</u> to the computer hard disk.

Technical Specifications

Image

| - | |
|---------------|---|
| 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 / Freeze |
| RGB output | 1920 x 1080, 1600x1200, 1280x1024, 1280x720, 1024x768, 800x600 |
| DVI-I output | HD 1080p 50Hz/60Hz; 1600x1200, 1280x1024, HD 720p 50Hz/60Hz; 1024x768, 800x600 |
| Image Capture | 240 Frames(XGA) ; 80 Frames(3M Pixel) |

Optics

| Focusing | Auto / Manual |
|---------------|--------------------------------------|
| Shooting Area | 330mm x 248mm |
| Zooming | 16X (2X AVERZOOM™ + 8X Digital Zoom) |

Power

| Power Source | DC 12V, 100-240V, 50-60Hz |
|--------------|---------------------------|
| Consumption | Base: 8W Camera: 5W |

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 x 2 |

Dimension

| Camera Operating | 520mm x 114mm x 336mm (+/-2mm include rubber foot) |
|------------------|--|
| Camera Folded | 275mm x 114mm x 71mm (+/-2mm include rubber foot) |
| Camera Weight | 1.6 kg (about 3.528bs) |
| Base Operating | 215mm x 155mm x 105mm (+/-2mm include rubber foot) |
| Base Folded | 215mm x 155mm x 36mm (+/-2mm include rubber foot) |
| Base Weight | 0.55 kg (about 1.213lbs) |

External Storage

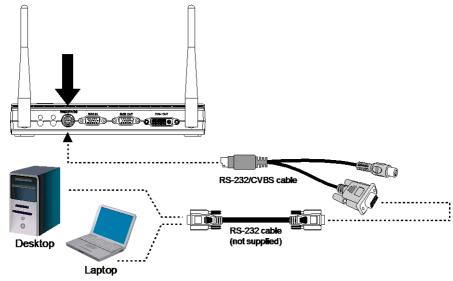
| Secure Digital (SDHC) | 1GB ~ 32GB (FAT32) |
|-----------------------|--------------------|
| USB Flash Drive | 2GB ~ 64GB (FAT32) |

Using the RS-232 Interface

W30 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 Transmission Specifications

- Start bit
- . Data bit
- Stop bit
- Parity bit •
- X parameter
- Baud rate(Communication speed)

: 1 bit : 8 bit

- : 1 bit
- : None
- : None : 115200bps

RS-232 Communication Format

| Send Device Code(1 Byte) | : 0x52 |
|-----------------------------|---|
| Type Code(1 Byte) | : 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 |
| IMAGE CAPTURE TYPE: SINGLE | 0x02 | 0x00 | 0x00 | 0x59 |
| IMAGE CAPTURE TYPE: CONTINUOUS | 0x02 | 0x01 | 0x00 | 0x58 |
| IMAGE CAPTURE CONTINUOUS INTERVAL INCREASE | 0x03 | 0x00 | 0x00 | 0x58 |
| IMAGE CAPTURE CONTINUOUS INTERVAL DECREASE | 0x04 | 0x00 | 0x00 | 0x5F |
| IMAGE CAPTURE RESOLUTION: NORMAL | 0x05 | 0x00 | 0x00 | 0x5E |
| IMAGE CAPTURE RESOLUTION: 3M | 0x05 | 0x01 | 0x00 | 0x5F |
| TIMER START | 0x06 | 0x00 | 0x00 | 0x5D |

| Function | Data[0] | Data[1] | Data[2] | CheckSum |
|--------------------------------|---------|--------------|---------|----------|
| TIMER PAUSE | 0x07 | 0x00 | 0x00 | 0x5C |
| TIMER STOP | 0x08 | 0x00 | 0x00 | 0x53 |
| TIMER SET TIME | 0x09 | Value[1~120] | 0x00 | *1 |
| PREVIEW MODE: TEXT | 0x0B | 0x00 | 0x00 | 0x50 |
| PREVIEW MODE: GRAPHIC | 0x0B | 0x01 | 0x00 | 0x51 |
| PREVIEW MODE: HIGH FRAME | 0x0B | 0x02 | 0x00 | 0x52 |
| PREVIEW MODE: MICROSCOPE | 0x0B | 0x03 | 0x00 | 0x53 |
| PLAYBACK FULL SCREEN | 0x0C | 0x00 | 0x00 | 0x57 |
| MIRROR OFF | 0x0E | 0x00 | 0x00 | 0x55 |
| MIRROR ON | 0x0E | 0x01 | 0x00 | 0x54 |
| EFFECT: COLOR | 0x10 | 0x00 | 0x00 | 0x4B |
| EFFECT: B/W | 0x10 | 0x01 | 0x00 | 0x4A |
| EFFECT: NEGATIVE | 0x10 | 0x02 | 0x00 | 0x49 |
| CONTRAST | 0x11 | Value[0~63] | 0x00 | *1 |
| BRIGHTNESS | 0x12 | Value[0~255] | 0x00 | *1 |
| AUTO IMAGE OFF | 0x13 | 0x00 | 0x00 | 0x48 |
| AUTO IMAGE ON | 0x13 | 0x01 | 0x00 | 0x49 |
| EXPOSURE: AUTO | 0x14 | 0x00 | 0x00 | 0x4F |
| EXPOSURE: MANUAL | 0x14 | 0x01 | 0x00 | 0x4E |
| EXPOSURE MANUAL INCREASE | 0x15 | 0x00 | 0x00 | 0x4E |
| EXPOSURE MANUAL DECREASE | 0x16 | 0x00 | 0x00 | 0x4D |
| WHITE BALANCE: AUTO | 0x17 | 0x00 | 0x00 | 0x4C |
| WHITE BALANCE: MANUAL | 0x17 | 0x01 | 0x00 | 0x4D |
| WHITE BALANCE BLUE INCREASE | 0x18 | 0x00 | 0x00 | 0x43 |
| WHITE BALANCE BLUE DECREASE | 0x19 | 0x00 | 0x00 | 0x42 |
| WHITE BALANCE RED INCREASE | 0x1A | 0x00 | 0x00 | 0x41 |
| WHITE BALANCE RED DECREASE | 0x1B | 0x00 | 0x00 | 0x40 |
| FLICKER: 50Hz | 0x1C | 0x00 | 0x00 | 0x47 |
| FLICKER: 60Hz | 0x1C | 0x01 | 0x00 | 0x46 |

| Function | Data[0] | Data[1] | Data[2] | CheckSum |
|----------------------------------|---------|---------|---------|----------|
| FLICKER: AUTO | 0x1C | 0x02 | 0x00 | 0x45 |
| PIP: OFF | 0x23 | 0x00 | 0x00 | 0x78 |
| PIP: ON | 0x23 | 0x01 | 0x00 | 0x79 |
| PIP POSITION: BOTTOM LEFT | 0x24 | 0x00 | 0x00 | 0x7F |
| PIP POSITION: TOP LEFT | 0x24 | 0x01 | 0x00 | 0x7E |
| PIP POSITION: TOP RIGHT | 0x24 | 0x02 | 0x00 | 0x7D |
| PIP POSITION: BOTTOM RIGHT | 0x24 | 0x03 | 0x00 | 0x7C |
| SPLITSCREEN: OFF | 0x25 | 0x00 | 0x00 | 0x7E |
| SPLITSCREEN: ON | 0x25 | 0x01 | 0x00 | 0x7F |
| SPLITSCREEN DIR: UPPER SCREEN | 0x26 | 0x01 | 0x00 | 0x7C |
| SPLITSCREEN DIR: LOWER SCREEN | 0x26 | 0x02 | 0x00 | 0x7F |
| SPLITSCREEN DIR: LEFT SCREEN | 0x26 | 0x03 | 0x00 | 0x7E |
| SPLITSCREEN DIR: RIGHT SCREEN | 0x26 | 0x04 | 0x00 | 0x79 |
| STORAGE: EMBEDDED | 0x2E | 0x00 | 0x00 | 0x75 |
| STORAGE: SD CARD | 0x2E | 0x01 | 0x00 | 0x74 |
| STORAGE: THUMB DRIVE | 0x2E | 0x02 | 0x00 | 0x77 |
| FORMAT: EMBEDDED | 0x2F | 0x00 | 0x00 | 0x74 |
| FORMAT: SD CARD | 0x2F | 0x01 | 0x00 | 0x75 |
| OUTPUT RESOLUTION: 1024x768 | 0x30 | 0x00 | 0x00 | 0x6B |
| OUTPUT RESOLUTION: 1280x720 | 0x30 | 0x01 | 0x00 | 0x6A |
| OUTPUT RESOLUTION: 1280x1024 | 0x30 | 0x02 | 0x00 | 0x69 |
| OUTPUT RESOLUTION: 1600x1200 | 0x30 | 0x03 | 0x00 | 0x68 |
| OUTPUT RESOLUTION: 1920x1080 | 0x30 | 0x04 | 0x00 | 0x6F |
| OUTPUT RESOLUTION: 800x600 | 0x30 | 0x05 | 0x00 | 0x6E |
| USB CONNECT: USB CAMERA | 0x31 | 0x00 | 0x00 | 0x6A |
| USB CONNECT: MASS STORAGE | 0x31 | 0x01 | 0x00 | 0x6B |
| BACKUP TO SD CARD | 0x32 | 0x00 | 0x00 | 0x69 |
| BACKUP TO THUMBDRIVE | 0x32 | 0x01 | 0x00 | 0x68 |

| Function | Data[0] | Data[1] | Data[2] | CheckSum |
|------------------------------------|---------|---------|---------|----------|
| PROFILE SAVE: PROFILE 1 | 0x33 | 0x00 | 0x00 | 0x68 |
| PROFILE SAVE: PROFILE 2 | 0x33 | 0x01 | 0x00 | 0x69 |
| PROFILE SAVE: PROFILE 3 | 0x33 | 0x02 | 0x00 | 0x6A |
| PROFILE RECALL: PROFILE 1 | 0x34 | 0x00 | 0x00 | 0x6F |
| PROFILE RECALL: PROFILE 2 | 0x34 | 0x01 | 0x00 | 0x6E |
| PROFILE RECALL: PROFILE 3 | 0x34 | 0x02 | 0x00 | 0x6D |
| SLIDESHOW: OFF | 0x36 | 0x00 | 0x00 | 0x6D |
| SLIDESHOW: ON | 0x36 | 0x01 | 0x00 | 0x6C |
| SLIDESHOW EFFECT: NO EFFECT | 0x37 | 0x00 | 0x00 | 0x6C |
| SLIDESHOW EFFECT: EFFECT 1 | 0x37 | 0x01 | 0x00 | 0x6D |
| SLIDESHOW EFFECT: EFFECT 2 | 0x37 | 0x02 | 0x00 | 0x6E |
| SLIDESHOW EFFECT: EFFECT 3 | 0x37 | 0x03 | 0x00 | 0x6F |
| SLIDESHOW EFFECT: EFFECT 4 | 0x37 | 0x04 | 0x00 | 0x68 |
| SLIDESHOW EFFECT: RANDOM EFFECT | 0x37 | 0x05 | 0x00 | 0x69 |
| TVOUT MODE: NTSC | 0x38 | 0x00 | 0x00 | 0x63 |
| TVOUT MODE: PAL | 0x38 | 0x01 | 0x00 | 0x62 |
| TVOUT MODE: RGB | 0x38 | 0x02 | 0x00 | 0x61 |
| USBSWITCH: DEVICE | 0x39 | 0x00 | 0x00 | 0x62 |
| USBSWITCH: HOST | 0x39 | 0x01 | 0x00 | 0x63 |
| AUTO-TEST MODE: OFF | 0x80 | 0x00 | 0x00 | 0xDB |
| AUTO-TEST MODE: ON | 0x80 | 0x01 | 0x00 | 0xDA |

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 Code | ReData[0] |
|---------------------|---------|------------------|--|
| Red Value | 0x02 | 0x5A | Value[? ~ ?] |
| Blue Value | 0x03 | 0x5B | Value[? ~ ?] |
| Power Status | 0x04 | 0x5C | 0:OFF 1:ON |
| Lamp Status | 0x05 | 0x5D | 0:OFF 1:ON |
| Display Status | 0x06 | 0x5E | 0: Camera Mode 1: Playback Mode 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[? ~ ?] |
| Contrast Value | 0x0B | 0x53 | Value[? ~ ?] |
| 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 W30.

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 IN of W30 base and make sure W30 is in PC Mode.
- 5. Press RECONNECT button to reestablish connection with the W30 camera and base, or bind the W30 camera and the base again.

I have set up the W30 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.
- 3. The W30 camera could be power off, the battery needs charging,
- 4. The wireless signal could be low. Move the W30 camera closer to the base.

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, W30 base and your PC.
- 2. Connect your PC to the W30 base 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.

- 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 W30 can't detect the inserted USB flash drive.

Make sure the USB flash drive switch is set to is and check if the USB flash drive is properly inserted.

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