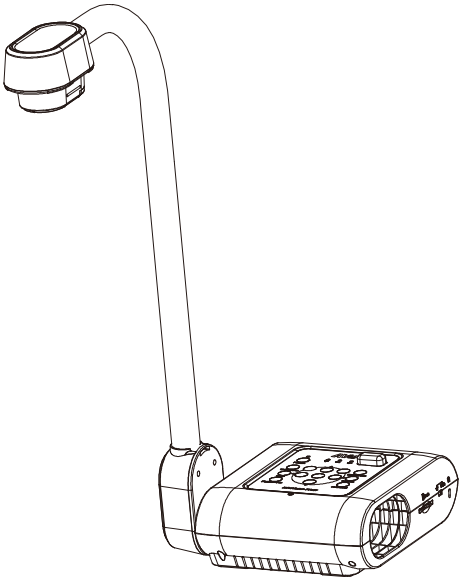
www.aver.com



AVerVision F70W

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.

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 2014/30/EU.

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.

DISCLAIMER

No warranty or representation, either expressed or implied, is made with respect to the contents of this documentation, its quality, performance, merchantability, or fitness for a particular purpose. Information presented in this documentation has been carefully checked for reliability; however, no responsibility is assumed for inaccuracies. The information contained in this documentation is subject to change without notice.

In no event will AVer be liable for direct, indirect, special, incidental, or consequential damages arising out of the use or inability to use this product or documentation, even if advised of the possibility of such damages.

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NOTICE

SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT PRIOR NOTICE. THE INFORMATION CONTAINED HEREIN IS TO BE CONSIDERED FOR REFERENCE ONLY.

WARNING

TO REDUCE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE. WARRANTY VOID FOR ANY UNAUTHORIZED PRODUCT MODIFICATION.



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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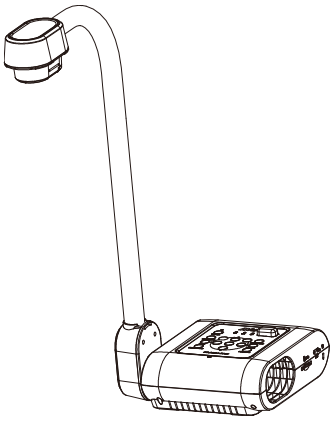
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Package Contents

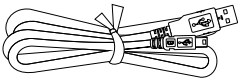
Make sure the following items are included in the package.



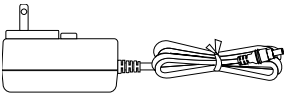
AVerVision F70W



WiFi Dongle

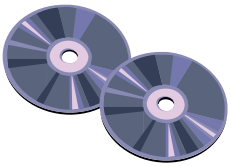


USB Cable

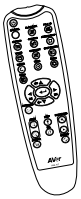


Power Adapter (12V, 3A)

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



Software & Manual CD

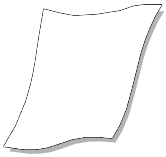


Remote Control
(batteries included)

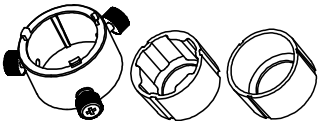
Optional Accessories



Carrying Bag



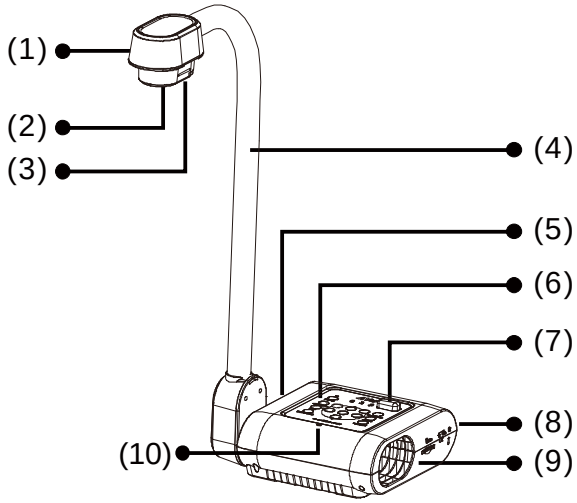
Anti-glare Sheet



Microscope Adapter

(28mm & 34mm Rubber Coupler)

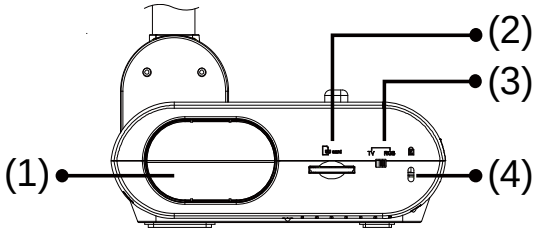
Get Familiar with the AVerVision F70W



(*fig. 1.1*)

Name	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 RS-232, microphone, speaker, and reset button.
(6) Control panel	Easy access to various functions.
(7) IR sensor	Receive remote control commands.
(8) Rear panel	Connections for power, RCA external display device , WiFi dongle, HDMI input, HDMI output and USB to PC.
(9) Right panel	Connections for the camera head holder, SD card, TV-RGB display output switch, and antitheft Kensington security lock compatible slot.
(10) Built-in MIC	Record audio when recording video clip. The recorded sound will be in monophonic.

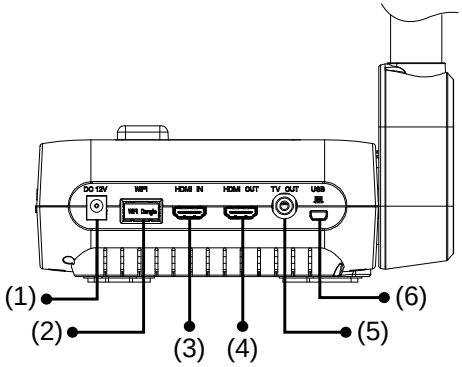
Right Panel



(*fig. 1.2*)

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 RCA to HDMI OUT.
(4) Antitheft Slot	Attach a Kensington compatible security lock or antitheft device.

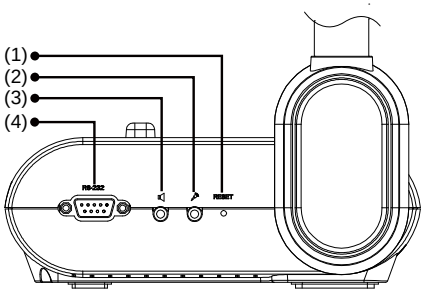
Rear Panel



(*fig. 1.3*)

Name	Function
(1) DC12V	Connect the power adapter into this port.
(2) WiFi Dongle port	For WiFi dongle connection.
(3) HDMI In port	Connect an external HDMI source as an input via this port
(4) HDMI Out port	Output the video signal from the main system on an LCD monitor or LCD/DLP projector with HDMI interface using HDMI cable.
(5) TV Out port	Connect the AVerVision F70W to any display device with TV output.
(6) Mini USB port	Connect to a USB port of a computer with a USB cable and use AVerVision F70W as a USB camera or transfer the captured images from the memory source to computer.

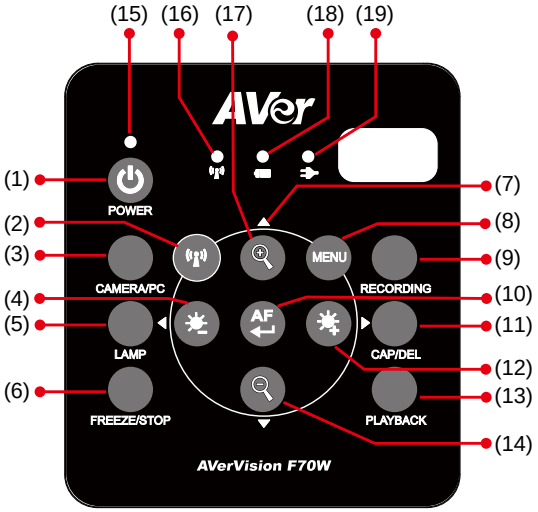
Left Panel



(*fig. 1.4*)

Name	Function
(1) RS-232 port	The RS-232 jack is used to connect to computer serial port or to any control panel or for centralized control if desire.
(2) Speaker port	Connect to an amplified speaker to playback recorded audio & video clip.
(3) MIC port	Connect a 3.5mm plug microphone. The built-in mic will be disabled when an external MIC is connected to this port.
(4) Reset	Set system to standby mode.

Control Panel



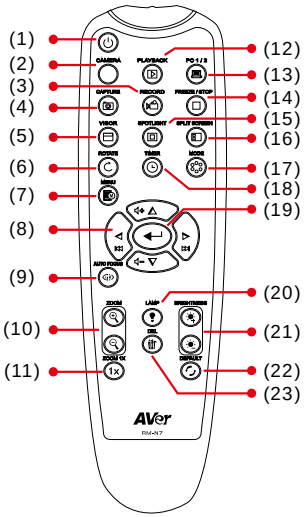
(*fig. 1.5*)

Name	Function
(1) POWER	Turn the unit on/standby mode.
(2)	Switch between USB mode and WiFi mode.
(3) CAMERA / PC	Switch the video signal between camera and computer from the HDMI IN port.
(4)	Reduce the brightness of live view.
(5) LAMP	Turn the overhead light on/off.
(6) FREEZE/STOP	- Pause or resume image display in Camera mode. - Stop audio & video playback in Playback mode.
(7) ▲,▼,◄, & ►	- Select options in OSD menu. - Use ▲&▼ to increase and decrease the video playback volume. - Use ◄&► to play the video backward and forward. - Move the Spotlight frame and Visor screen cover.
(8) MENU	Open and exit the OSD menu.
(9) RECORDING	Start/Stop audio & video recording. Audio and video recording can be saved on a SD card only. See External Memory Storage.
(10) AF	- Adjust the focus automatically. - Make a selection in Playback mode and OSD menu. - Start/Pause video playback.

Name	Function
(11) CAP/DEL	- Capture picture in Camera mode. In continuous capture mode, press this button again to stop. - Delete the selected picture/video in Playback mode.
(12) 	Increase the brightness of live view.
(13) PLAYBACK	View & playback captured still images and video files.
(14) 	Decrease the image magnification in camera and picture playback mode.
(15) Power LED indicator	- **Solid Red:** Standby - **Flashing Red:** Power on - **Solid Green:** HDMI output - **Solid Orange:** TV output
(16)  (WiFi)	- **Flashing Orange:** Searching for Access Point - **Solid Blue:** Connected to Access Point - **Flashing Blue:** Camera can be accessed wirelessly now
(17) 	Increase the image magnification in camera and picture playback mode.
(18)  (Battery)	- **Solid Green:** Battery is over 40%. - **Solid Orange:** Battery is between 20~40%. - **Solid Red:** Battery is between 20 ~ 5%. - **Flashing Red:** Battery is lower than 5%.
(19)  (Charging)	- **Solid Red:** Power plug is connected and battery is charging. - **Solid Green:** Battery is fully charged. - **OFF:** Power plug is not connected.

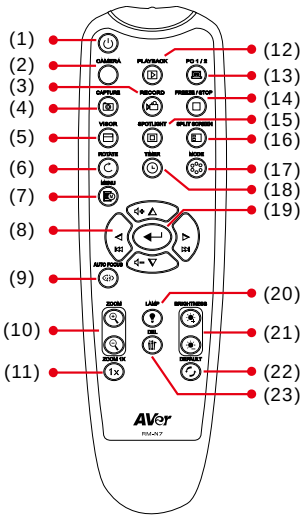
Remote Control

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 F70W with the remote.



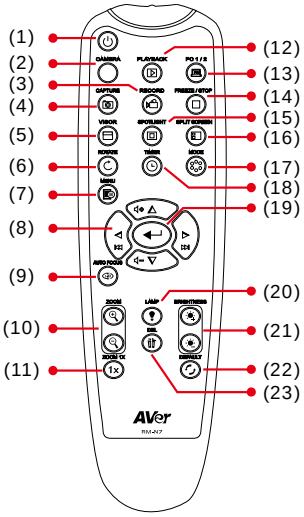
(*fig. 1.6*)

Name	Function
(1) POWER	Turn the unit on.
(2) CAMERA	Camera mode displays the video signal from the built-in camera.
(3) RECORD	Start/Stop audio & video recording. Video recording can only be saved either in a SD memory card.
(4) CAPTURE	Capture still image in Camera mode. In continuous capture mode, press this button again to stop.
(5) VISOR	Call the Visor submenu. Visor covers part of the presentation screen and allow presenter to reveal the material as desire. 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 ▲,▼,◄, & ► buttons to reveal more of the covered area; and OFF will close the submenu. To turn off Visor, press VISOR again.
(6) ROTATE	Rotate the image by 180° in Camera mode and Playback mode.
(7) MENU	Open and exit the OSD menu.

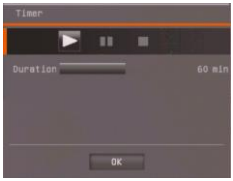


(*fig. 1.6*)

Name	Function
(8) ▲,▼,◄, & ►	- Pan and zoom-in image (above digital zoom level) in both live and playback mode. - Select options in OSD menu. - Use ▲&▼ to increase and decrease the video playback volume. - Use ◄&► to play the video backward and forward. Move the Spotlight frame and Visor screen cover.
(9) AUTO FOCUS	Adjust the focus automatically.
(10) ZOOM +/-	Increase/decrease the image magnification in camera and picture playback mode.
(11) ZOOM RESET	Reset zoom level to 100%.
(12) PLAYBACK	View the captured picture/video from the memory in 16-thumbnail images.
(13) PC 1/2	PC mode displays the video signal from the HDMI input port of F70W.
(14) FREEZE / STOP	- Freeze live images. - Stop video playback.
(15) SPOTLIGHT	Call the Spotlight submenu. Spotlight overlays a box frame on the presentation screen. You can adjust the box size and move it around. 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 ↵ to move to the next selection.



(*fig. 1.6*)

Name	Function
(15) SPOTLIGHT	**OK** – press ↵ for the setting to take effect. If you select ON, the frame will appear and blink, use the ▲,▼,◀, & ► buttons to adjust the frame size and press ↵ to set the desired size; and OFF will close the submenu. To turn off Spotlight, press SPOTLIGHT again.
(16) SPLIT SCREEN	Divide the screen into two. One side displays the live image from the built-in camera and the other side displays 8-thumbnail size picture/video from the memory.
(17) MODE	Select from 3 type of modes: **Text** - adjust the contrast along the edges making text appear more visible. **Graphics** - adjust the gradient of image. **Microscope** - automatically adjust optical zoom for microscopic viewing.
(18) TIMER	Call the Timer submenu. Select to Start/Pause/Stop the timer countdown and set the timer duration. 
(19) ↵	- Make a selection in Playback mode and OSD menu. - Play/Pause video playback.
(20) LAMP	Turn the overhead light on/off.
(21) BRIGHTNESS +/-	Adjust the brightness.
(22) DEFAULT	Reset to factory default setting.
(23) DEL	Delete the selected picture/video in Playback mode.

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 F70W with.

Set the TV-RGB Switch Setting

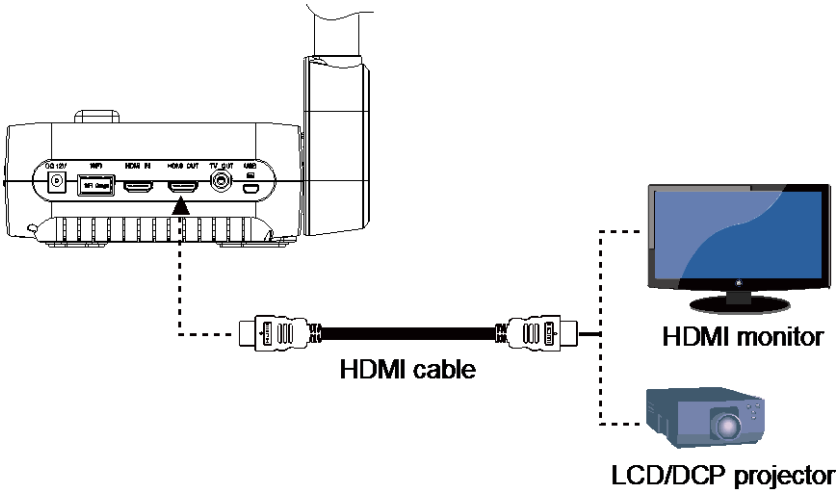
The TV-RGB switch determines the display output selection. Switch it to RGB (right) to output signal using HDMI connection and TV (left) to output signal using RCA connection. (*see fig. 1.2 # 3*)

Switch	AVerVision Port		Display Device Port
RGB	HDMI OUTPUT	To	HDMI INPUT
TV	TV OUTPUT		VIDEO IN

Connect to a Monitor or LCD/DLP Projector with HDMI Output interface

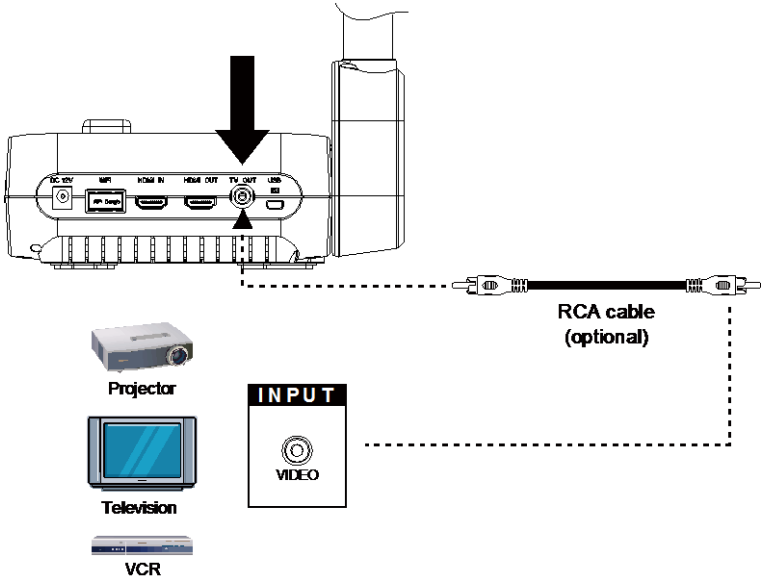
Locate the HDMI input port of the display device and connect it to HDMI out port of AVerVision F70W.

Make sure the TV/RGB switch is set to RGB.



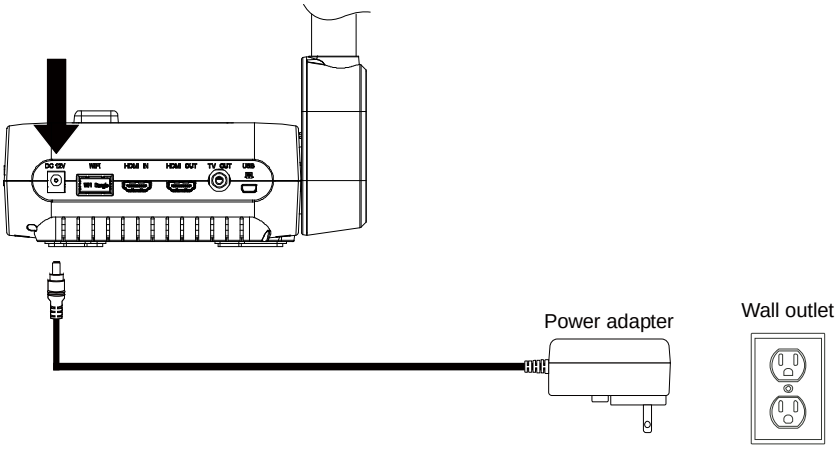
Connect to a TV

Locate the Video input port of the TV or Video equipment (i.e., VCR) to record your presentation and connect it to RCA jack of RCA cable.



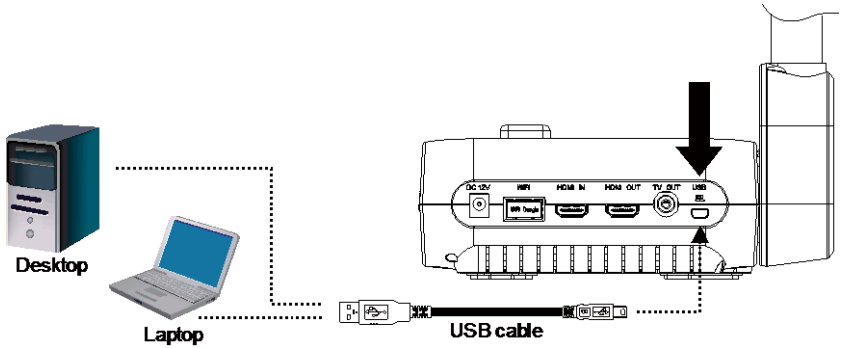
Connecting the Power

Connect the power adapter (12V 2AMP) to a standard 100V~240V AC power outlet. The unit automatically goes into standby mode once the power is connected. Press ⏻ to turn on.



Connect to a Computer via USB

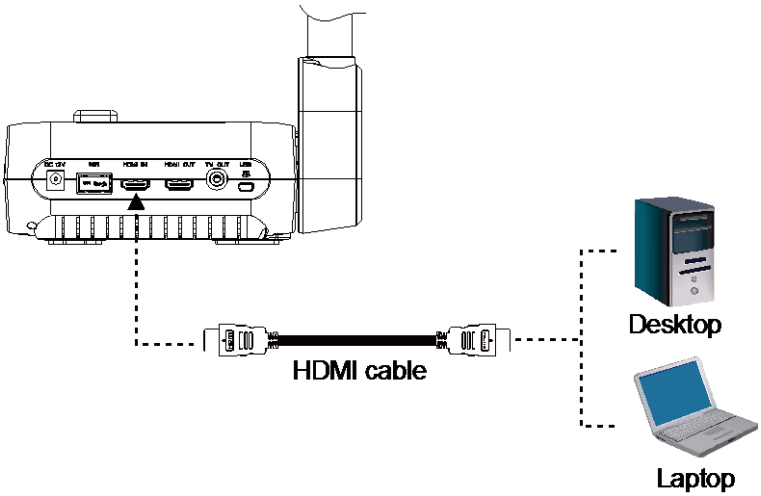
Locate the USB port of the computer or laptop and connect it to the PC port of the AVerVision F70W.



Connect to a Computer with HDMI Input interface

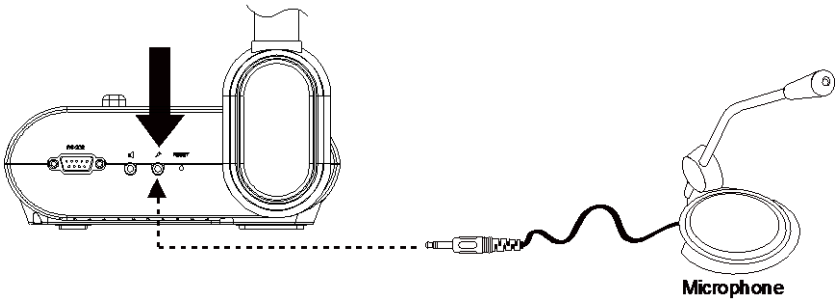
Locate the HDMI output port of the computer of laptop and connect it to HDMI in port of AVerVision F70W.

- Make sure the TV/RGB switch is set to RGB.
- To display computer image, press Camera/PC button on the control panel or remote control to switch AVerVision F70W 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 an External Microphone

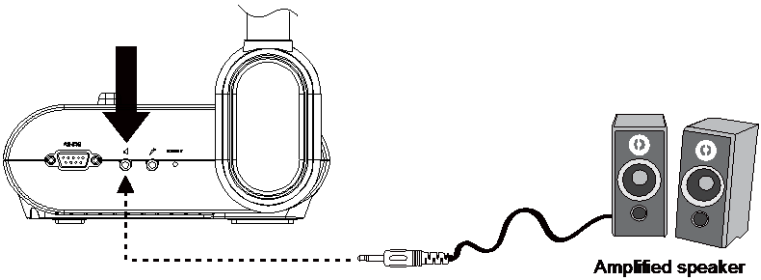
Plug a 3.5mm mono microphone to port. The built-in microphone on the control panel will be disabled when an external microphone is connected. The recorded audio will be in monophonic sound.



Connect an Amplified Speaker

Plug a 3.5mm plug amplified speaker to port. 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.



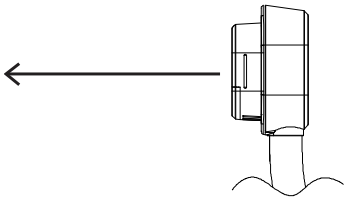
Connect to a Microscope

Connect the AVerVision F70W to a microscope enables you to examine microscopic objects on a big screen.

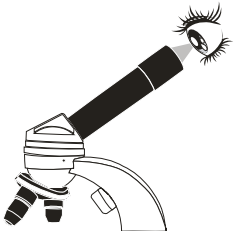
1. Change the image display mode to Microscope. Press **MENU** > select **IMAGE** tab > select **MODE** > select  **(microscope)** and press ↵.



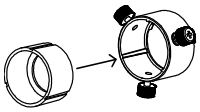
2. Aim the camera head at the farthest point and press **AUTO FOCUS**.



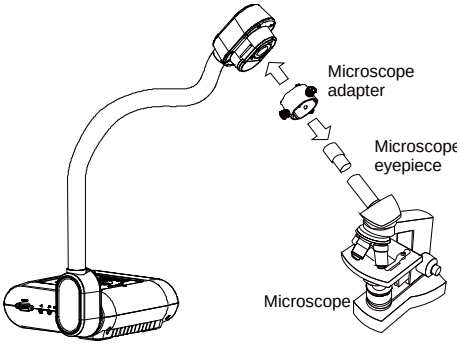
3. Adjust the focus of the microscope.



4. Select the appropriate rubber coupler size for the microscope eyepiece and insert it in the microscope adapter.



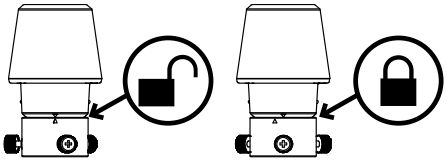
5. Remove the microscope eyepiece from the microscope and connect it to the microscope adapter with the rubber coupler inserted. Fasten the 3 bolts until the adapter secures the eyepiece.



> 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.

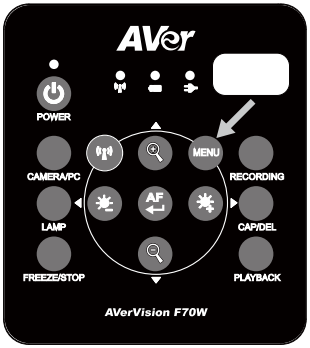
Make sure the arrow on the camera head and microscope adapter are on the same side to connect and twist clockwise for the arrows to meet and lock.



Connect F70W to WLAN

The F70W can connect to your WLAN network through the WiFi function.

1. Press **Menu** button.



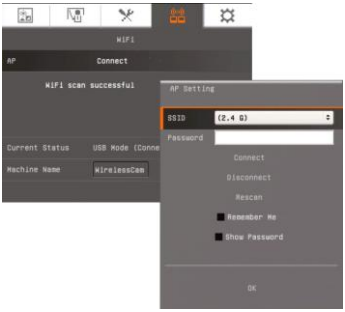
2. Select "**WiFi**" setup page.



3. Select "**Connect**" and press ↵.



4. In AP setting submenu, select SSID(AP) that the F70W has found on your WLAN.
   Press ↵ and use▲ and▼ to select.
   Press ↵ to confirm the selection.

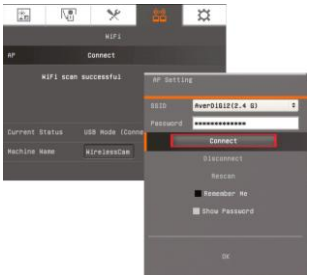


5. Enter the **Password** of selected AP. Use▼ move to the Password column and press ↵ to call out on-screen keyboard to enter the password.

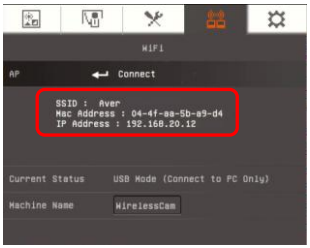
[Note] Show Password is enabled by default. User can see the password while entering.



6. After entering password, select "**Connect**" and press ↵ to make a connection with selected AP.
   To disconnect the WiFi connection, select "**Disconnect**" and press ↵.
   To memorize the AP account, enable "**Remember Me**" function. By default, this function is enabled.



7. When AP information is displayed, the connection is successful.



Toggling between WiFi mode and USB to PC Mode

The F70W HDMI output is always on, however the camera can only be put into either USB to computer mode (when the USB cable is connected to a computer) or WiFi mode.

When the WiFi button on the front panel of the camera is not toggled, the camera is always in USB to PC mode whenever the cable is connected to the computer. However once the WiFi button is toggled (assuming the WiFi setting is complete and correct), the camera goes into WiFi mode and will disconnect the existing USB connection to the computer. In WiFi mode you can still connect to the camera via Wireless Streaming through the AVer PC/MAC software or Tablet computer.

Connect F70W with a Tablet Device

This function allows the user to stream, present, annotate, record and share live images via a tablet device. The following instruction figures use an iPad as an example.

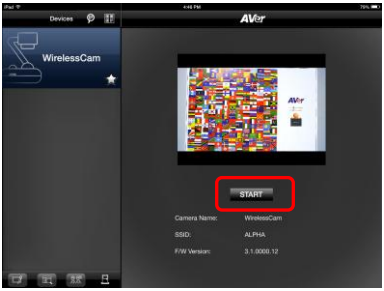
1. Please make sure the F70W and tablet are connected to the same AP on your WLAN network.
2. Install "**Sphere**" application on the tablet.



3. Run Sphere application. In Sphere UI, user will see the DocCams that Sphere has found.



4. Select the DocCam and select “**Start**” to make a connection.



5. After connection is successful, users will see the live image of the DocCam.

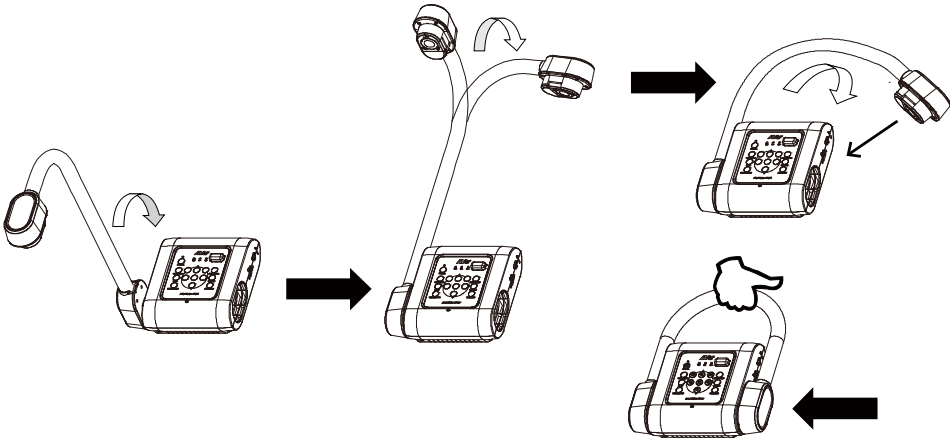


Setting Up AVerVision F70W

This section provides useful tips on how to adjust the AVerVision F70W to meet your needs.

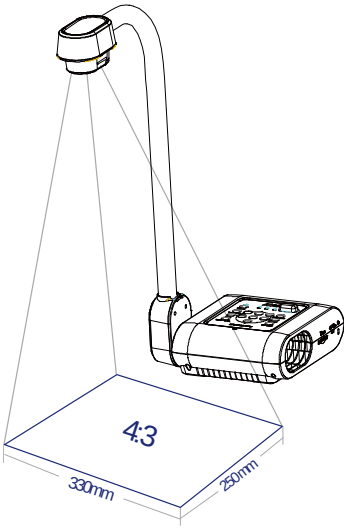
Storing and Handling

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 F70W.

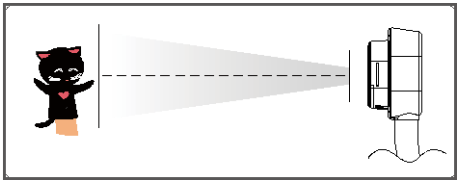


Shooting Area

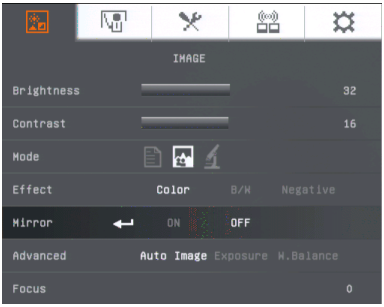
The shooting area can view an area of 330x250mm (4:3) size portrait paper.



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

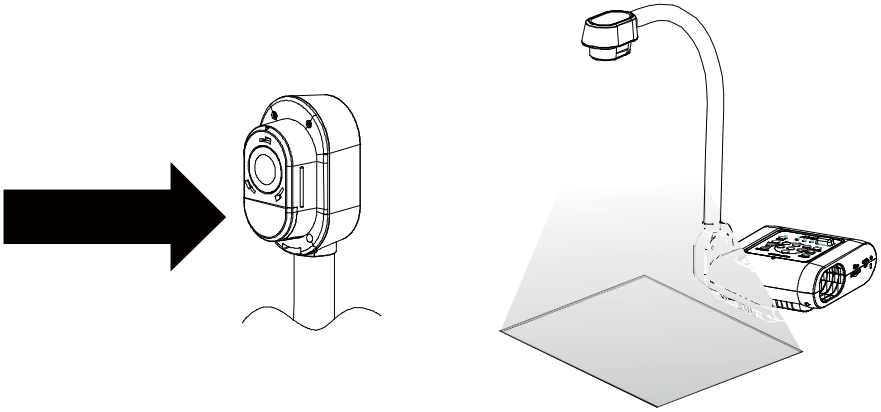


To mirror the image, press MENU > select Mirror, press ↵, and select On.



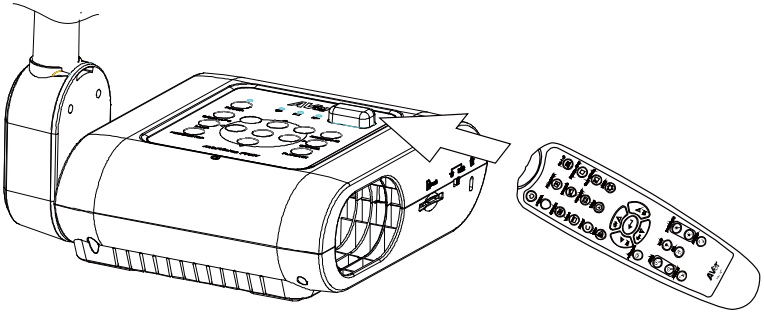
Overhead Light

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



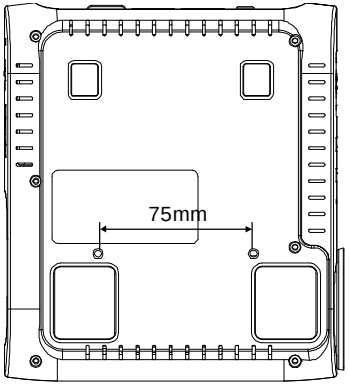
Infrared Sensor

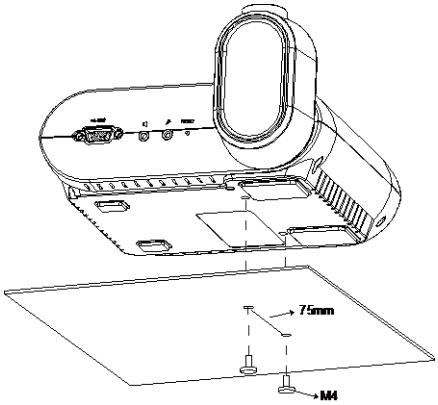
Aim the remote control at the infrared sensor to operate the unit.



Mounting the F70W on a Flat Surface

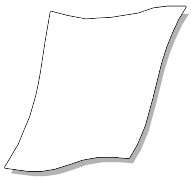
Measure and mark the horizontal of 75 mm from the center line distance between the holes on the flat surface as describe in the illustration below. Use 2 pieces of M4.0 screws for 6 mm holes and secure the F70W on the flat surface.





Anti-glare Sheet (Purchased Separately)

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 F70W supports an external SD memory card for more image capture and audio & video recordings. AVerVision F70W 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.

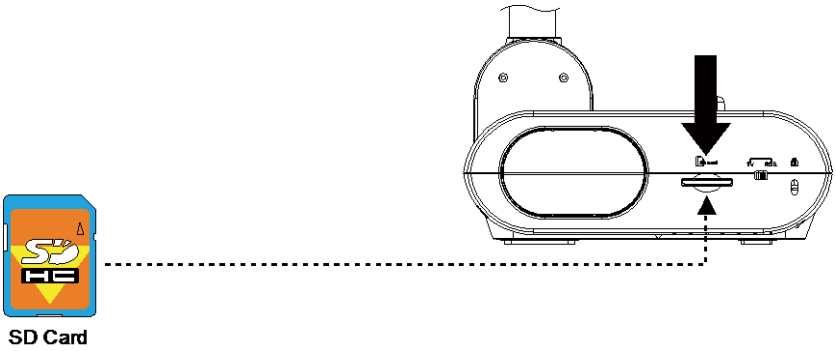
[Note]

Generally you can use the F70W to do video recording for as long as you would like depending on how much SD Card memory is being used (up to 32 GB). Recording is done in the MP4 format.

A one hour recording could generate a file as large as 1.2 to 1.5 gigabyte (GB) of disc space. The system will automatically truncate the video file into multiple files once the size reaches 2GB of space. For instance, if your 3 hour video recording takes up to 3GB of space, you will have 2 video recorded files being generated, the first one 2GB and the second file 1GB for a total of 3GB.

Insert an SD Card

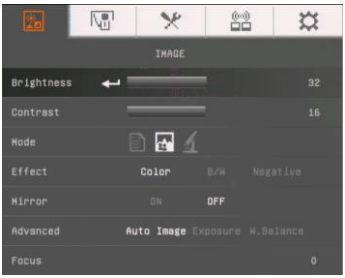
Insert the card with the contact facing down until it reaches the end. To remove the card, push to eject and pull the card out. The supported SD card capacity is from 1GB to 32GB (FAT32). We recommend using SDHC card with class-6 or above for high quality recording.



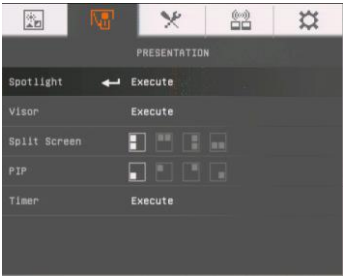
OSD MENU

There are 5 tabs on the OSD menu: IMAGE, PRESENTATION, SETTING, WIFI, 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.

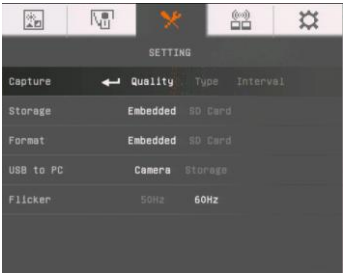
For TV output, the RESOLUTION will be disabled in SETTING menu list.



IMAGE



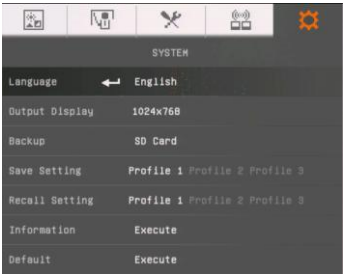
PRESENTATION



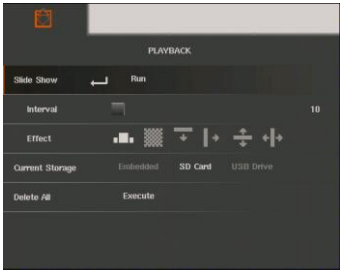
SETTING



WIFI

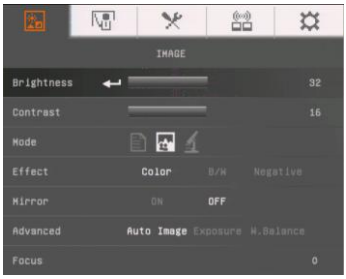


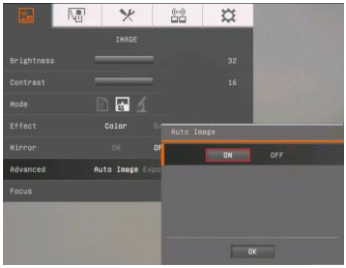
SYSTEM



PLAYBACK

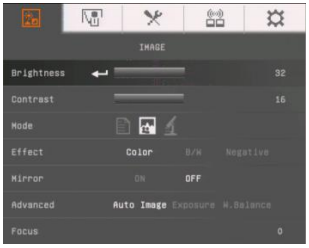
Navigate the Menu and Submenu

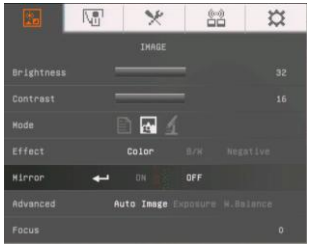
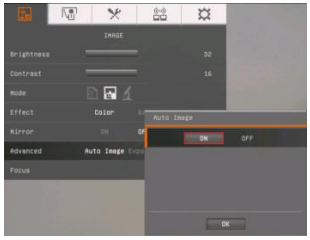


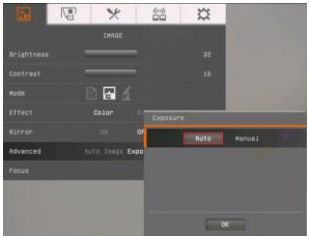
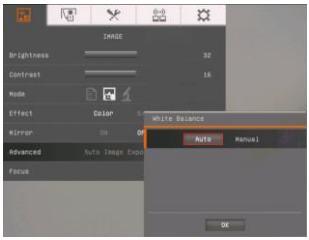


1. Press MENU button on the remote or control panel.
2. Press ► and ◄ to toggle between tabs
3. Press ▼ and ▲ to choose a selection in the menu list.
4. Press ↵ to make a selection.
5. Use ► and ◄ to adjust the setting or make a selection.
6. Press ↵ to enter submenu.
7. Press MENU to close the OSD menu.

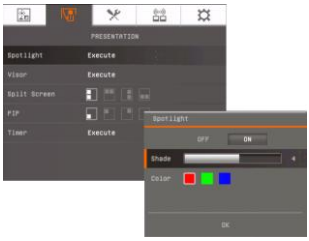
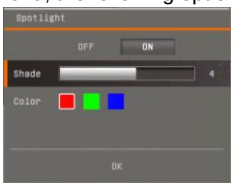
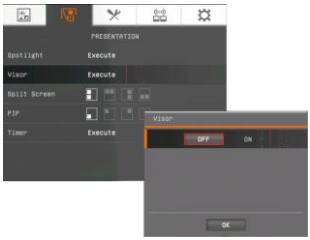
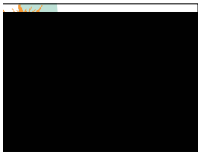
Image

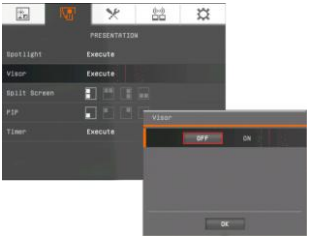
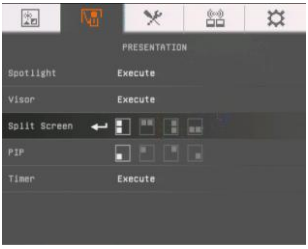
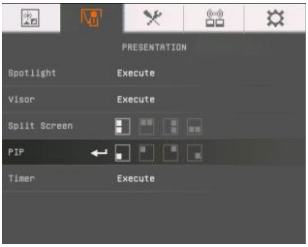
Menu Screen	Function
	**Brightness** Adjust brightness level manually between 1 and 64.
	**Contrast** Adjust the contrast level manually between 1 and 32 under bright and dark environments.

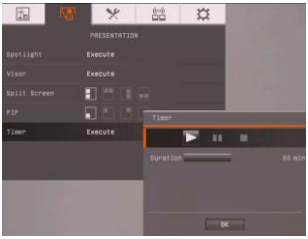
Menu Screen	Function
	**Mode** Select from the various image display settings. **Text** - adjust the contrast along the edges making text appear more visible. **Graphics** - adjust the gradient of image. **Microscope** - automatically adjust optical zoom for microscopic viewing.
	**Effect** Convert the 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.
	**Auto Image** Select ON or OFF to automatically adjust the white balance and exposure setting, and correct the color and exposure compensation.

Menu Screen	Function
	**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 99.
	**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.

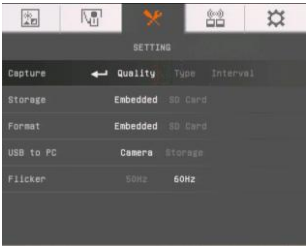
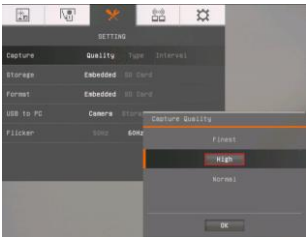
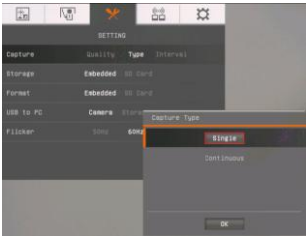
Presentation

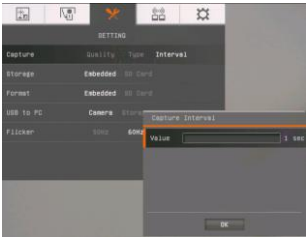
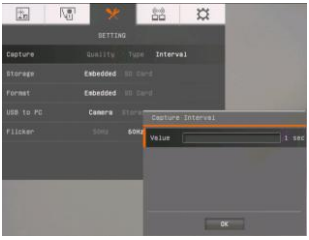
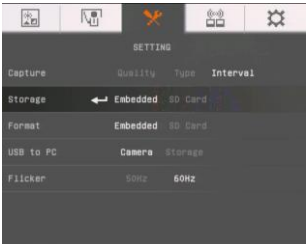
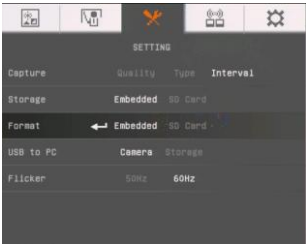
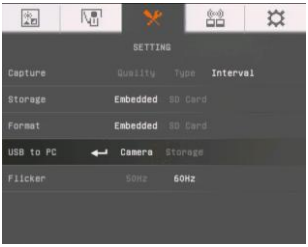
Menu Screen	Function
	**Spotlight** Spotlight overlays a frame on the presentation screen. You can move the Spotlight around the presentation screen using the ▲,▼,◄, & ► buttons. Select Execute to call the Spotlight submenu.  In the Spotlight submenu, the following options are available.  **ON/OFF** – 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 ↵ to move to the next selection. **OK** – press ↵ for the setting to take effect. If you select ON, the frame will appear and blink, use the ▲,▼,◄, & ► 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. 

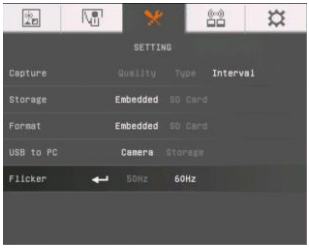
Menu Screen	Function
	In the Visor submenu, the following options are available.  **ON/OFF** – select to run/cancel the Visor. Press ↵ to move to the next selection. **Shade** – set the opacity level of the covered area. The shaded area will completely turns black when it is set to level 100. Press ↵ 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 ▲,▼,◄, & ► buttons to reveal more of the covered area; and OFF will close the submenu.
	**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 F70W camera. Select the display location of the 8- thumbnail playback images. Select OFF to cancel Split Screen. Left Right Top Below
	**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

Menu 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

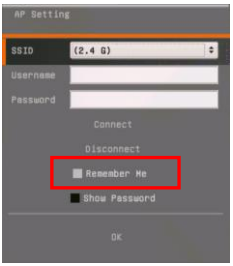
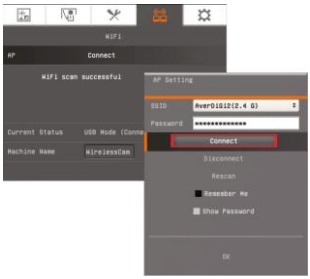
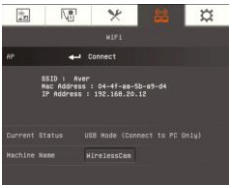
Menu Screen	Function
	**Capture** Select to set the capture resolution, quality, type and interval settings.
	**Resolution** Select the capture size. In 2M setting, the capture resolution size is 1920 X 1080.
	**Quality** Select the capture compression setting.

Menu Screen	Function
	**Type** Select the capture type. **Single** - capture one picture only. **Continuous** - capture successive pictures.
	**Interval** Set the time interval for continuous capture. The length can be set up to 600 sec (10 min).
	**Storage** Change the storage location. Audio & video recording can only be saved in SD memory card.
	**Format** Format to delete all the data in the selected memory.
	**USB to PC** **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/videos from the memory to computer hard disk.

Menu Screen	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.

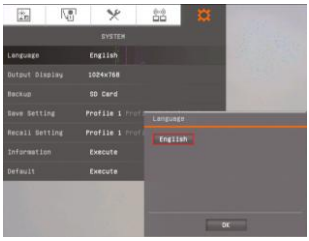
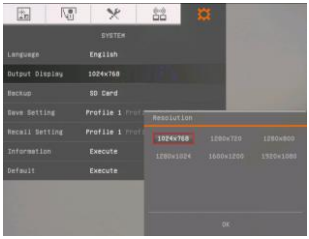
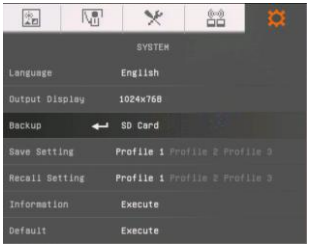
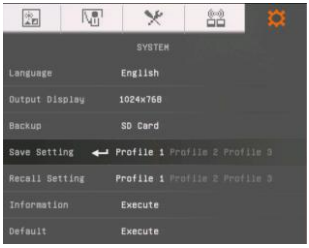
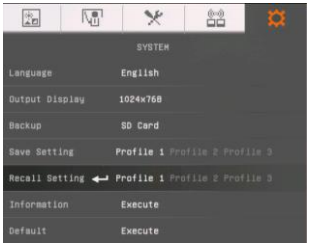
WiFi

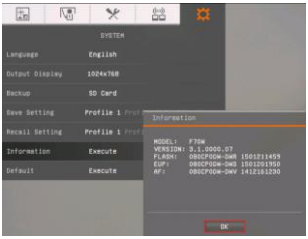
Menu Screen	Function
	**Connect** Select AP, enter Password of AP, and make a connection with selected AP.
	**Select AP** Press ↵ to expend AP list that F70W has detected on you LAN network. Use ▲ and ▼ buttons to move to the AP that you want to select. Press ↵ to confirm.

Menu Screen	Function
	**Enter Password** Use ▼ button move to password column. Press ↵ to call out on-screen keyboard. Use ▲,▼,◄, ►& ↵ to select the password. Use the “Back” key to delete unwanted characters. When is done, select Enter to complete. If you want check password during enter password, mark **Show Password** option. 
	**Connect AP** Use ▼ button move to “**Connect**” and press ↵ to start connection. When connection is successful, the AP information is displayed.  To disconnect, select “**Disconnect**” and press ↵. To remember this AP account, mark **Remember Me**. To back to WiFi page, select “**OK**” and press ↵.
	**Machine Name** Give a name for the DocCam. Use ▼ button move to “**Machine Name**” and press ↵ to call out on-screen keyboard. Then, Use ▲,▼,◄, ►& ↵ to enter the name. This name will be an identity in Sphere application for user to recognize.

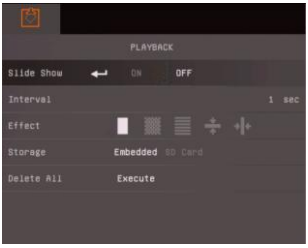
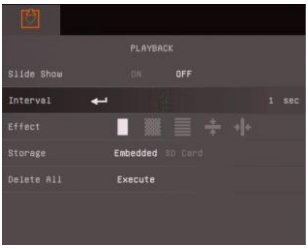
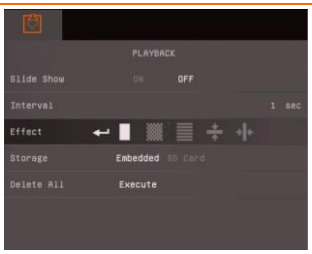
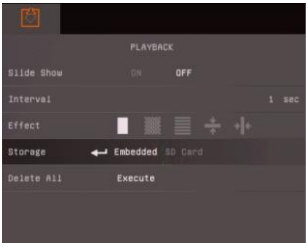
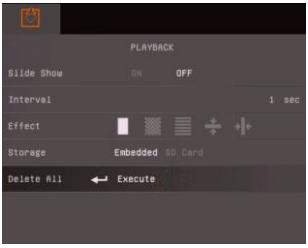
Menu Screen	Function
	

System

Menu Screen	Function
	**Language** Change and select a different language.
	**Output Display** Set the resolution to display the image on screen. This selection will be disabled in TV output mode.
	**Backup** Copy the image from the built-in memory to SD card.
	**Save Setting** Save current setting in the selected profile number. Only effect, mode, brightness and contrast settings can be saved.
	**Recall Setting** Restore the setting back to the selected profile number.

Menu Screen	Function
	**Information** Display the product firmware version information.
	**Default** Restore all the settings into original factory default.

Playback

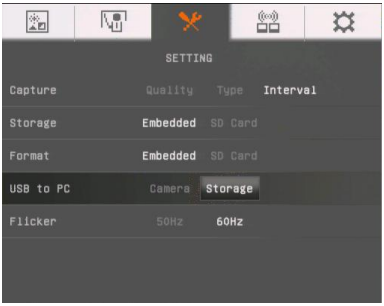
Menu Screen	Function
	**Slide Show** Display all captured still pictures in an automated slide show. The video file will be skipped.
	**Interval** Set the interval before displaying the next picture. The length can be set up to 100 sec.
	**Slide Show Effect** Select the slide show transition effect. Slide image Checker down Blinds Split Vertical Out Split Horizontal In
	**Current Storage** Select the source of the images.
	**Delete All** Permanently delete all the data in selected memory source. A Warning Message will appear. Select YES to continue and NO to stop formatting the storage.

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



2. When "**Mass Storage Start**…" appears at the lower right corner of the presentation screen, you may now connect the USB cable.
3. Upon connecting the USB cable, the system automatically detects the new removable disk. You can now transfer the captured image(s) from the **F70W built-in memory** to the computer hard disk.

Technical Specifications

Image

Sensor	1/2.7” CMOS
Pixel Count	2 megapixels
Frame Rate	30 fps (max.)
White Balance	Auto / Manual
Exposure	Auto / Manual
Image mode	Text / Graphics / Microscope
Effect	Color / B/W / Negative // Rotate / Freeze
HDMI Output	HD 1080p 60Hz; HD 720p 60Hz (Default)
Image Capture	240 Frames(XGA) ; 80 Frames(2M Pixel)

Optics

Focusing	Auto / Manual
Shooting Area	330mm x 250mm
Zooming	12X Digital zoom (@720P)

Compatibility

Wireless Network	802.11a/b/g/n/ac (45 ft effective range)
Dual Band	5GHz/ 2.4GHz
Wireless Security	Supports WEP, AES, TKIP and AES+TKIP, 802.1x

Power

Power Source	DC 12V, 3A, 100-240V, 50-60Hz
Consumption	16.8 Watts (lamp off); 18 Watts (lamp on)

Lighting

Lamp Type	LED light

Input/Output

HDMI Output	HDMI
HDMI Input	HDMI
RS-232	1 female connector
TV Out	RCA only
USB	USB2.0
DC 12V Input	Power Jack
MIC	Phone Jack
Speaker	Phone Jack

Dimension

Operating	380mm*200mm*525mm (+/-2mm include rubber foot)
Folded	305mm x 230mm x 73mm (+/-2mm include rubber foot)
Weight	2.65 kg (about 5.84lbs)

External Storage

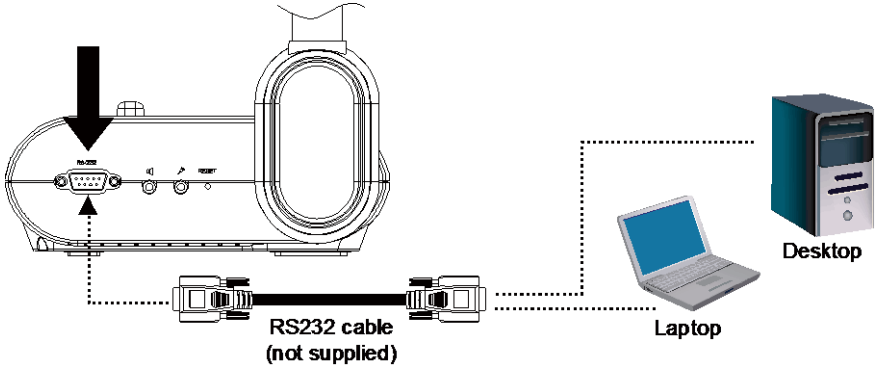
Secure Digital (SDHC)	1GB ~ 32GB (FAT32)

Using the RS-232 Interface

AVerVision F70W 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.

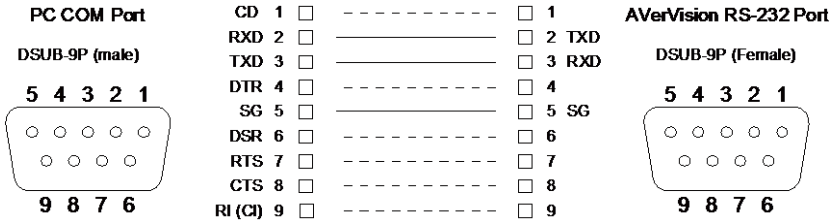
Connect to the Computer RS-232

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



RS-232 Cable Specifications

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



RS-232 Transmission Specifications

- Start bit : 1 bit
- Data bit : 8 bit
- Stop bit : 1 bit
- Parity bit : None
- X parameter : None
- Baud rate (Communication speed) : 9600bps

RS-232 Communication Format

Send Device Code(1 Byte)	0x52	
Type Code (1 Byte)	0x0B	0x0A
Data Length Code(1 Byte)	0x03	0x01
Data[0] Code (1 Byte)	RS-232 Send Command Table	RS-232 Get Command Table
Data[1] Code (1 Byte)	RS-232 Send Command Table	X
Data[2] Code (1 Byte)	RS-232 Send Command Table	X
Receive Device Code (1 Byte)	0x53	
CheckSum Code (1 Byte)	RS-232 Send Command Table	RS-232 Get Command Table
Format	Send Device + Type + Length + Data + Receive Data + CheckSum	Send Device + Type + Length + Data + Receive Data + CheckSum
Example	Power On Command: 0x52 + 0x0B + 0x03 + 0x01 + 0x01 + 0x00 + 0x53 + 0x5B	Get WB Red Value : 0x52 + 0x0A + 0x01+ 0x02+ 0x53 + 0x5A

RS-232 Send Command Table

Send Format：0x52 + 0x0B + 0x03 + Data[0] + Data[1] + Data[2] + 0x53 + CheckSum*1

Success Receive Format：0x53 + 0x00 + 0x02+ *2 + 0x00 + 0x52 + CheckSum*4

Abnormal Receive Format：0x53 + 0x00 + 0x01+ *3 + 0x52 + CheckSum*5

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

*2 ：Receive data ok : 0x0B, Not Command : 0x03

*3 ：ID error: 0x01, CheckSum error: 0x02, Function fail = 0x04

*4 ：CheckSum = 0x00 xor 0x02 xor *2 xor 0x00 xor 0x52

*5 ：CheckSum = 0x00 xor 0x01 xor *3 xor 0x52

*6 ：Standby Mode Receive Data = 0x51 + 0xFF + 0x01 + 0x0B + 0x51 + 0xA4
Power On Mode Recevice Data = No Data Return

*7 ：Standby Mode Recevice Data = 0x51 + 0x00 + 0x01 + 0x0B + 0x51 + 0x5B
Power On Mode Receive Data = 0x53 + 0x00 + 0x02 + 0x0B + 0x00 + 0x52 + 0x5B

Function	Data[0]	Data[1]	Data[2]	CheckSum
POWER OFF*6	0x01	0x00	0x00	0x5a
POWER ON *7	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
CONT. CAPTURE INTERVAL +	0x06	0x00	0x00	0x5d
CONT. CAPTURE INTERVAL -	0x06	0x01	0x00	0x5c
TIMER START	0x08	0x00	0x00	0x53
TIMER PAUSE	0x08	0x01	0x00	0x52
TIMER STOP	0x08	0x02	0x00	0x51
TIMER SET TIME	0x08	0x03	Value[1 ~ 120]	*1
PREVIEW MODE: TEXT	0x0A	0x00	0x00	0x51
PREVIEW MODE: GRAPHIC	0x0A	0x01	0x00	0x50
PREVIEW MODE: MICROSCOPE	0x0A	0x03	0x00	0x52
PREVIEW MODE CAPTURE	0x0B	0x00	0x00	0x50

Function	Data[0]	Data[1]	Data[2]	CheckSum
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 180	0x0F	0x02	0x00	0x56
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[1 ~ 32]	*1
BRIGHTNESS INCREASE	0x12	0x00	0x00	0x49
BRIGHTNESS DECREASE	0x12	0x01	0x00	0x48
BRIGHTNESS VALUE	0x12	0x02	Value[1 ~ 64]	*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
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

Function	Data[0]	Data[1]	Data[2]	CheckSum
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
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
STORAGE: EMBEDDED	0x28	0x00	0x00	0x73

Function	Data[0]	Data[1]	Data[2]	CheckSum
STORAGE: SD CARD	0x28	0x01	0x00	0x72
FORMAT: EMBEDDED	0x29	0x00	0x00	0x72
FORMAT: SD CARD	0x29	0x01	0x00	0x73
OUTPUT RESOLUTION: 1024x768	0x2F	0x01	0x00	0x75
OUTPUT RESOLUTION: 1280x720	0x2F	0x02	0x00	0x76
OUTPUT RESOLUTION: 1920x1080	0x2F	0x03	0x00	0x77
OUTPUT RESOLUTION: 1280x1024	0x2F	0x04	0x00	0x70
OUTPUT RESOLUTION: 1600x1200	0x2F	0x05	0x00	0x71
OUTPUT RESOLUTION: 1280x800	0x2F	0x06	0x00	0x72
USB CONNECT: USB CAMERA	0x30	0x00	0x00	0x6b
USB CONNECT: MASS STORAGE	0x30	0x01	0x00	0x6a
BACKUP TO SD CARD	0x31	0x00	0x00	0x6a
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
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
AUTO IMAGE:OFF	0x36	0x00	0x00	0x6d
AUTO IMAGE:ON	0x36	0x01	0x00	0x6c
CAPTURE QUALITY: NORMAL	0x37	0x00	0x00	0x6c
CAPTURE QUALITY: HIGH	0x37	0x01	0x00	0x6d
CAPTURE QUALITY: FINEST	0x37	0x02	0x00	0x6e

Function	Data[0]	Data[1]	Data[2]	CheckSum
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] + 0x52 + ReCheckSum*1
*1 ：ReCheckSum = 0x0C xor 0x01 xor ReData[0] xor 0x52
*2 ：Power Status Receive Data = 0x51 + 0xFF + 0x01 + 0x0A + 0x51 + 0xA5

Function	Data[0]	CheckSum	ReData[0]
Red Value	0x02	0x5A	Value[0 ~ 255]
Blue Value	0x03	0x5B	Value[0 ~ 255]
Power Status	0x04	0x5C	OFF [*2] 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: HDMI 1: TV
Freeze Status	0x08	0x50	0 : OFF 1: ON
Brightness Value	0x0A	0x52	Value[1 ~ 64]
Contrast Value	0x0B	0x53	Value[1 ~ 32]

Troubleshooting

This section provides many useful tips on how to solve common problems while using the AVerVision F70W.

General

I have set up the AVerVision F70W 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.
2. 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 F70W and your PC.
2. Connect your PC to the AVerVision F70W 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.

Advance

The F70W Wi-Fi connection shows “None” on the OSD menu.
Press “Menu”, go to the Wi-Fi setting page to connect and select “Rescan” to have the system re-scan the airwaves again.

There’s still no SSID detected on the F70W after re-scanning.
Please check the WiFi Dongle and make sure it is properly inserted into the F70W. Make sure when the system is started, the dongle emits a blue light. Otherwise please check the WiFi Router to make sure it is running. You may have to check with your local system administrator to determine the nature of the problem and call AVer tech support.

The F70W is connected to my PC via the USB cable but I still can't see the live image on Sphere2
Please check the F70W onboard keypad and make sure the WiFi LED" " is turned off, if it is showing a constant blue color please press “ ” to turn it OFF. Then re-open Sphere2 and select the camera from the “Visualizer” icon as indicated in the picture below.

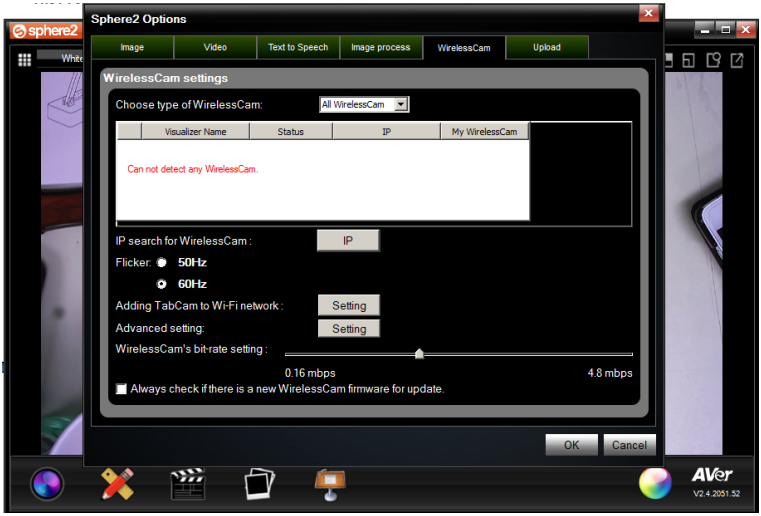


The F70W is streaming to my iPad and PC but I am experiencing live video that is not smooth (eg. missing frames).
There are a lot of possible variables affecting the WiFi performance.

- Please check and use the 5G bandwidth on your WiFi router if supported. The F70W supports 2.4GHz or 5Ghz and up to the 802.11ac standard.
- If you use the Sphere2 software, go to the “Sphere2” Options -> WirelessCam bit-rate setting and toggle the setting down to perhaps 1.24Mbps (using less bandwidth). You have similar options available on the iPad or Android tablet AVer app.

Power and Network LED light is steady and I am able to see the IP address on the screen as assigned by my Wi-Fi router but my F70W is not detected by the software.

1. Make sure your computer/tablet is connected to the same Wi-Fi networks (same SSID) as the F70W. If it not, you may need to use the IP search method to connect to the F70W via the IP address (See #2 below).
2. If it is not convenient to open the access ports. You can still connect to the F70W via the IP address of the F70W. Screen below shows where you would punch in the IP of the F70W.



3. Security software (firewall, anti-virus) installed on your computer may be blocking communication between the F70W and computer/tablet. Your Wi-Fi router also may be blocking some TCP/UDP ports. When these ports are blocked, F70W cannot access the Wi-Fi. Please check with your local MIS to unblock. Below is a list of ports to look out for.

TCP/UDP	Port
UDP	1900
TCP	9527
TCP	9528
TCP	8557

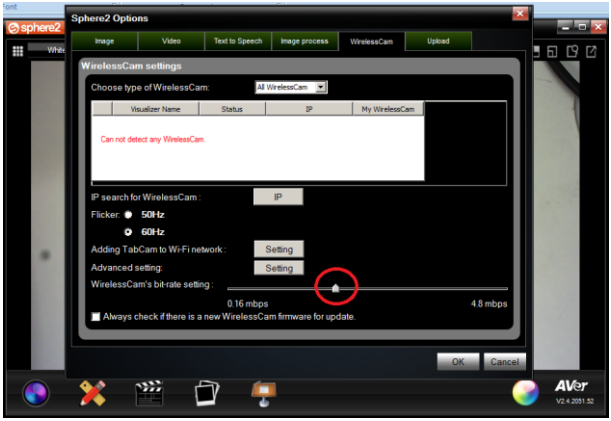
I've done everything listed and my F70W still does not connect.
Solution: Test your Wi-Fi with our Wi-Fi tool to check compatibility. Please follow these steps:

1. Connect two wireless devices (PC, iPad, or Android) to the same Wi-Fi network.
2. Install WiFi Test Tool by AVer Information Inc. on both devices:
   a. For PC: Download the WiFi Test Tool here
   b. For iPad: Download the WiFi Test Tool by AVer Information Inc. in the App Store (search AVer)
   c. For Android: Download the WiFi Test Tool by AVer Information Inc. in the Google Play Store (search AVer)
3. Run the WiFi Test Tool on both devices and enter the Remote Device IP of the other device (this is the devices IPv4 address)
4. Press Start on both devices to begin the test
5. If the test passes, your Wi-Fi is compatible with the F70W and should have no problems connecting. If the test fails, you may have to change some settings in your router for the F70W to connect.
6. Please call our tech support and let us know the error log that is generated from the WiFi Test Tool in order for us to help you troubleshoot the problem.

Please refer to this demonstration of the WiFi Test Tool if you need help running the test.
http://youtu.be/v7WjHAFgWFc

I can see my F70W in the list but I cannot see the live view when I select the F70W.
There may be some signal strength issues with the Wi-Fi connection. Please go through the following steps:

1. If your WiFi supports 5GHz radio, please connect to the 5GHz instead of the more crowded 2.4GHz.
2. There may be other devices using your Wi-Fi network at the same time. Bandwidth usage, packet loss and other connection elements may cause the poor video quality.
3. If you are connected via the Sphere2 PC/MAC software, reduce the bandwidth usage by toggling the bandwidth setting. (eg. Sphere2 -> Options -> WirelessCam -> WirelessCam bitrate Settings)



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