

# Captivate™

## 4K ePTZ

# Auto-Framing Camera



AT-CAP-FC110

Atlona Manuals  
**ePTZ Camera**

## Version Information

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Version	Release Date	Notes
5	Jan 2024	Updated warranty information

## Sales, Marketing, and Customer Support

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## Operating Notes

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**IMPORTANT:** Visit <https://www.atlona.com/product/AT-CAP-FC110> for the latest firmware updates and User Manual.

## Warranty

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To view the product warranty, use the following link or QR code:

<https://atlona.com/warranty/>.

## Important Safety Information



CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK DO NOT OPEN ENCLOSURE OR EXPOSE TO RAIN OR MOISTURE. NO USER-SERVICEABLE PARTS INSIDE REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance instructions in the literature accompanying the product.



The information bubble is intended to alert the user to helpful or optional operational instructions in the literature accompanying the product.

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this product near water.
6. Clean only with a dry cloth.
7. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
8. Do not install or place this product near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9. Do not defeat the safety purpose of a polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the product.
11. Only use attachments/accessories specified by Atlona.
12. To reduce the risk of electric shock and/or damage to this product, never handle or touch this unit or power cord if your hands are wet or damp. Do not expose this product to rain or moisture.
13. Unplug this product during lightning storms or when unused for long periods of time.
14. Refer all servicing to qualified service personnel. Servicing is required when the product has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the product, the product has been exposed to rain or moisture, does not operate normally, or has been dropped.



## FCC Compliance

FCC Compliance and Advisory Statement: This hardware device complies with Part 15 of the FCC rules. Operation is subject to the following two conditions: 1) this device may not cause harmful interference, and 2) this device must accept any interference received including interference that may cause undesired operation. 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 commercial installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed or 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 turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures: 1) reorient or relocate the receiving antenna; 2) increase the separation between the equipment and the receiver; 3) connect the equipment to an outlet on a circuit different from that to which the receiver is connected; 4) consult the dealer or an experienced radio/TV technician for help. Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. Where shielded interface cables have been provided with the product or specified additional components or accessories elsewhere defined to be used with the installation of the product, they must be used in order to ensure compliance with FCC regulations.

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## Introduction

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The Atlona **Captivate™ AT-CAP-FC110** is an enterprise-grade ePTZ camera ideal for use in video conferencing, distance learning, and other applications in huddle rooms and small to medium-sized meeting spaces. This camera features a USB-C interface for video and audio. The CAP-FC110 can be used with the Omega™ Series, AT-USB-EX100-KIT, and OmniStream™, or interfaced directly with a PC. This camera offers a 110° wide horizontal field of view and features electronic pan, tilt, and zoom capabilities, as well as an auto-framing functionality that reframes the camera based on detection of up to six participants. The CAP-FC110 delivers high-quality imaging with video resolutions up to 4K@ 30 Hz, and features a 2-microphone array with a 5 meter (16 foot) audio pickup range. It can be installed on a flat-panel display with an adjustable mounting clip, and features a 1/4-20 UNC standard screw thread for a tripod or other camera mount.

## Features

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- Designed for video conferencing and other applications with AV systems supporting USB interfacing and extension.
- USB-C interface for video and audio, as well as device powering.
- Universal PC and Mac® compatibility through standard UVC 1.1 (USB Video Class) enables simply plug-and-play operation.
- Works with popular soft codec and UC clients such as Microsoft Teams, Zoom, BlueJeans, Webex®, Google Meet™, GoToMeeting®, and Amazon Chime®.
- USB camera control available from compatible apps such as Zoom Rooms.
- Automatically detects and re-frames camera for up to 6 participants.
- 4x digital zoom and 110° wide horizontal field of view (zoom is fixed to 1x for 4K video).
- Fast, responsive ePTZ (electronic pan, tilt, and zoom) camera functions.
- 2-microphone array with 5 meter (16 foot) audio pickup range.
- High performance imaging, fine detail, and color rendering with 1/2.8" 4K CMOS sensor.
- Available video resolutions from 640x360 up to 4K @ 30 Hz (up to 1080p with ePTZ or auto-framing).
- Fast and accurate auto focus, plus auto white balance mode.
- Auto exposure mode with backlight compensation for low-lighting conditions.
- Picture controls available for brightness, color, saturation, contrast, and sharpness.
- IR control – convenient handheld IR remote control included.
- Three camera presets available, accessible from IR remote.
- On-screen display (OSD) for setting up and adjusting camera settings.
- Adjustable mounting clip for installing camera on a display.
- Compatible with 1/4-20 UNC tripod screw thread standard.
- Supports wall installation below a display with third-party mounting hardware (image flip / mirroring available).
- Includes installation guide, IR remote control, and 1.8 meter (6 foot) USB-C to Type-A male cable.

## Package Contents

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- 1 x AT-CAP-FC110
- 1 x IR remote control
- 1 x 1.8 meter (6 foot) USB-A to USB-C cable
- 2 x AAA-type 1.5 V batteries
- 1 x Installation guide

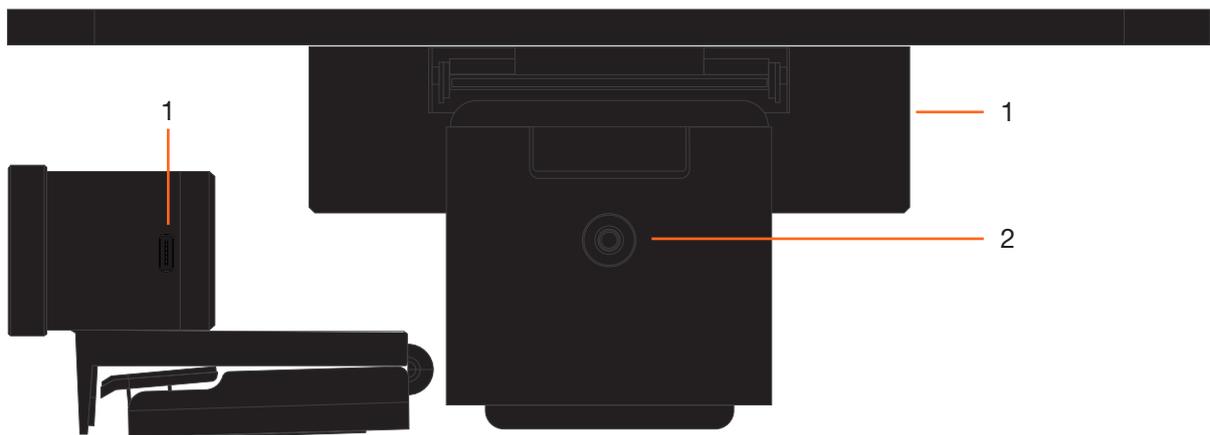
## Panel Description

### Front Panel



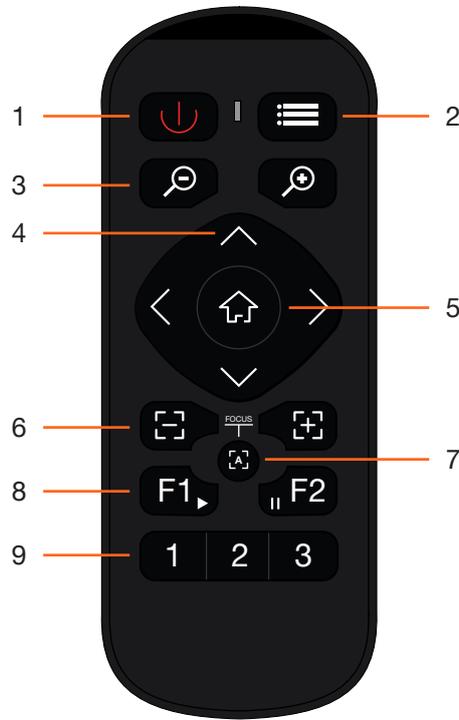
- |                                                                                                                                                                                                 |                                                                                                                                                                         |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p><b>1 Microphone</b><br/>Receives audio information and transmits it over the USB cable.</p> <p><b>2 Camera Lens</b><br/>Receives visual information and transmits it over the USB cable.</p> | <p><b>3 IR Sensor</b><br/>Receives commands from the included IR remote.</p> <p><b>4 LED indicator</b><br/>This indicator will glow blue when the camera is in use.</p> |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

### Side and Bottom Panel



- |                                                                                                                            |                                                                                                             |
|----------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|
| <p><b>1 USB-C Port</b><br/>Connect the included USB cable from the USB-C port on the camera to a USB-A port on the PC.</p> | <p><b>2 1/4"-20 UNC Thread</b><br/>Attach the camera to a tripod or other camera mount using this hole.</p> |
|----------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|

### IR Remote Control



#### 1 Power

Press this button to mute/unmute the camera and microphones.

#### 2 Menu

Press this button to display, exit, or return to a previous sub-menu.

#### 3 Zoom

Press these buttons to zoom in or zoom out of the current viewing area.

#### 4 Direction

Press these buttons to position the camera view and/or select the desired option from the On-Screen Display (OSD). Press the < or > buttons to pan the camera left or right. Press the ∨ or ∧ buttons to adjust the tilt of the camera up or down.

#### 5 Home

When the OSD is displayed, press this button to confirm the current selection. If the OSD is not displayed, pressing this button will return the viewing area to the default position and auto-framing will be disabled.

#### 6 Focus

These buttons are reserved for future use.

#### 7 Autofocus

This button is reserved for future use.

#### 8 Auto Framing

Press **F1** to enable auto-framing. This feature will automatically frame the camera image on people in the room. Press **F2** to disable auto-framing.

#### 9 Presets

Press these buttons to set or call a preset or to change the IR channel. Refer to [IR Operation \(page 22\)](#) for more information on changing the IR channel.

To assign a preset to a button, press and hold the desired preset button for at least 3 seconds.

To recall a preset, press and release the desired preset button.

## Installation

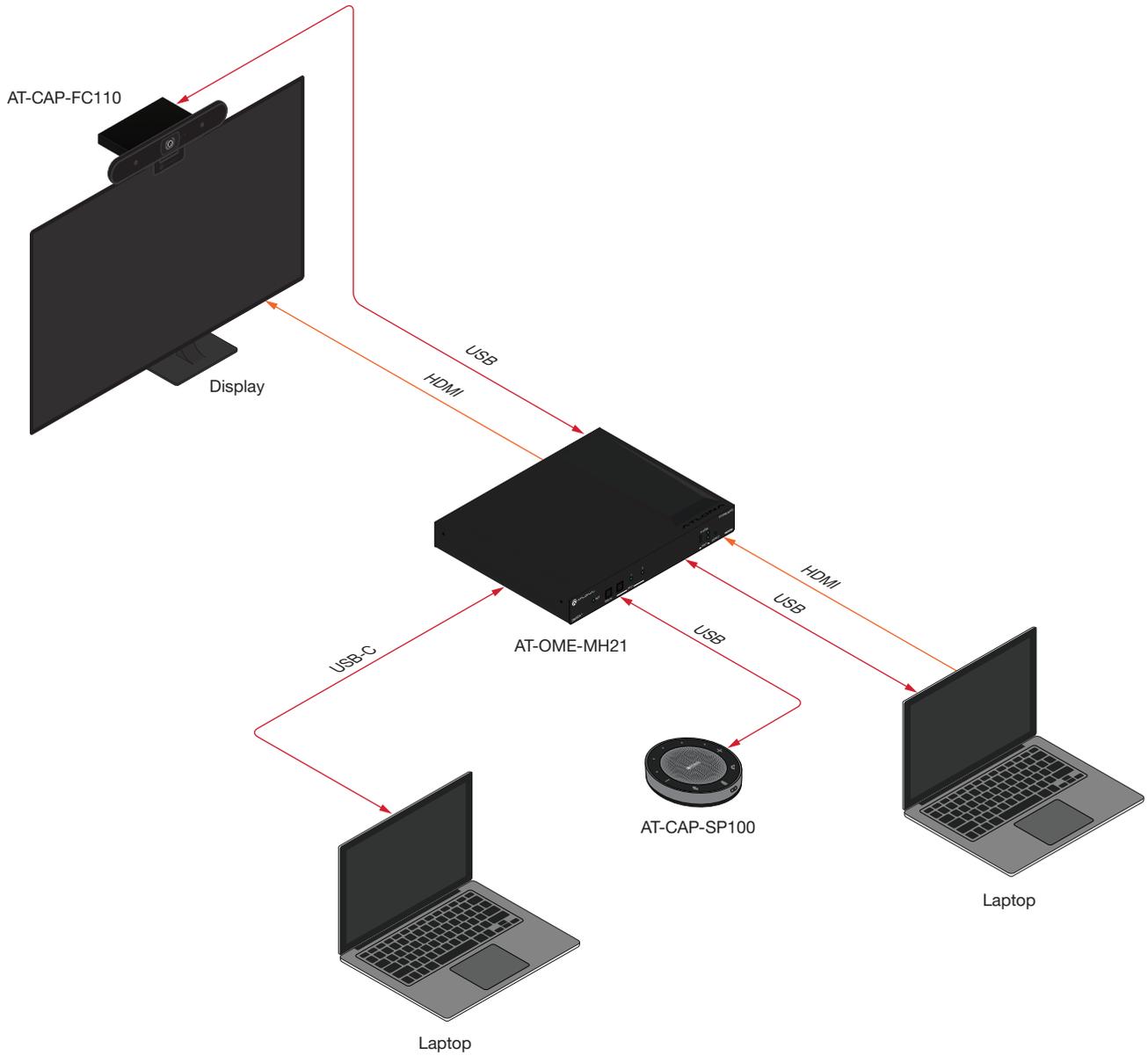
---

### Connection Instructions

1. Open the hinge bracket to mount the camera on top of the display.
2. Connect the USB cable from the USB Port on the camera to a USB 3.0 port on the computer.
3. Once the camera is initially connected to the computer, the LED indicator on the front panel will be blue for approximately 5 seconds, then turn off. When the camera stream is activated, the LED indicator will be blue until the stream is terminated.
4. Remove the battery compartment cover, on the back of the included IR Remote Control, and insert the two included AAA-type batteries. Close the battery compartment.



Connection Diagram



## Device Operation

### LED Indicator

The LED indicator on the front panel of the unit provides basic information on the current status of the AT-CAP-FC110.

LED	Description
Solid blue 	Unit is active and is streaming content.   <b>NOTE:</b> Once the camera is initially connected to the computer, the LED indicator on the front panel will be blue for approximately 5 seconds, then turn off.
Off 	Unit is not active and is not streaming. <ul style="list-style-type: none"> <li>• Enable the camera from within the conferencing software.</li> <li>• Check to make sure the USB cable is connected from the <b>USB</b> port on the AT-CAP-FC110 to the computer.</li> <li>• Check that the USB cable, between the AT-CAP-FC110 and the computer, is secure.</li> <li>• Try a different USB cable.</li> </ul>

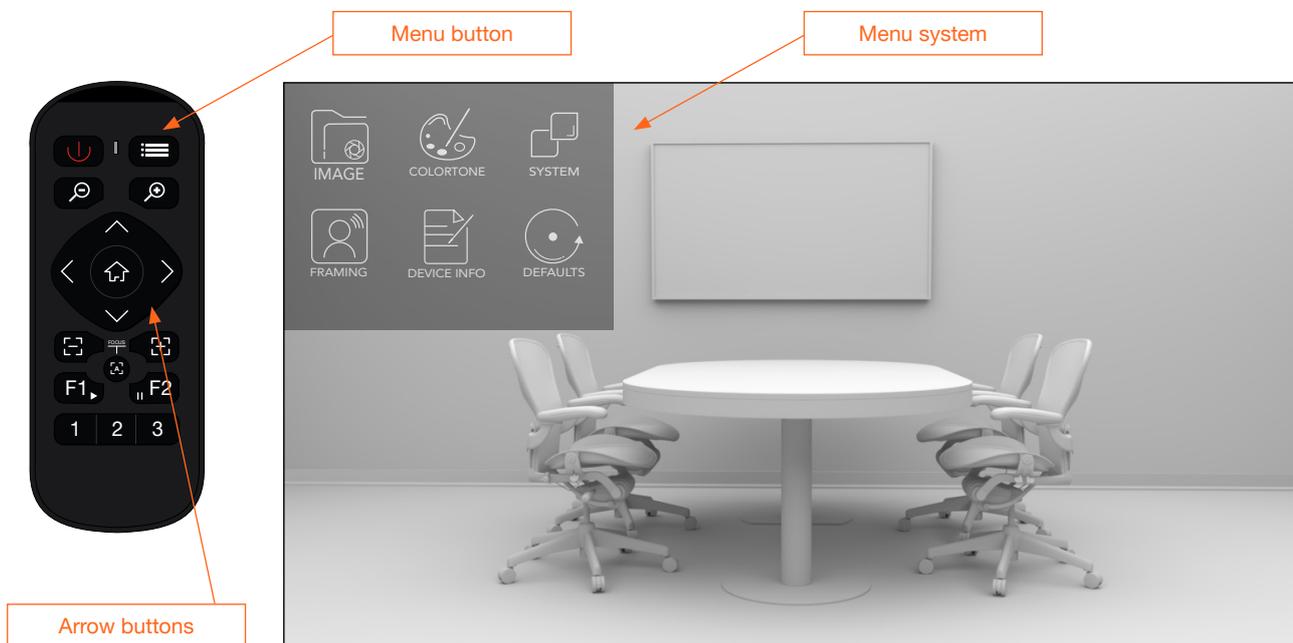


### Main Menu

The AT-CAP-FC110 is controlled using an On-Screen Display (OSD) menu system, which is displayed using the included IR Remote Control.

#### Displaying the Main Menu System

1. Press and release the  button on the included IR Remote Control.
2. The menu system will be displayed in the upper-left corner of the display, as shown below. Note that when any button on the IR Remote Control is pressed, the LED indicator on the front panel of the camera will flash blue and the LED indicator on the IR Remote Control will flash red.



#### Selecting a Submenu

Press the < or > right arrows on the IR Remote Control to cycle through each submenu. When a submenu is selected, the text identifier for the submenu item will be enlarged and the bottom portion of the icon will contain an orange tint.

- Pressing and releasing the < button will select the menu item to the left (*Figure 1*), while pressing and releasing the > button will select the item to the right (*Figure 2*).
- Pressing and releasing the ^ or v button will select the submenu directly above or below the currently selected submenu, respectively (*Figure 3*).

Figure 1

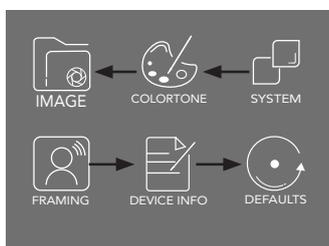


Figure 2

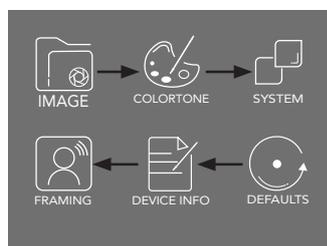
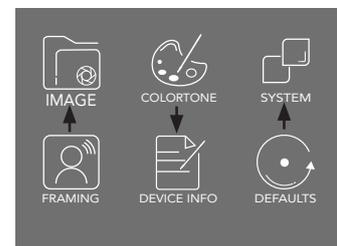


Figure 3



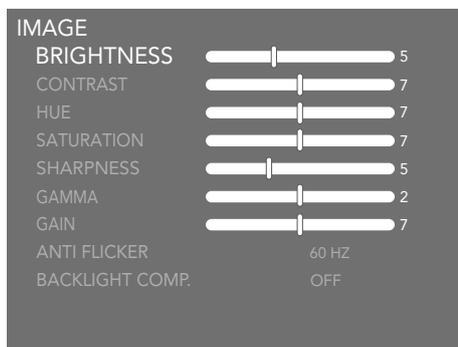
### Hiding the Menu System

While the main submenu system is displayed, press and release the  button on the included IR Remote Control. The same button is also used to return to a previous menu system.

## Submenus

### IMAGE Submenu

1. Press and release the  button on the included IR Remote Control.
2. Select the  submenu and press the  button.
3. Options for the **IMAGE** submenu will be displayed. Pressing and releasing the  $\wedge$  or  $\vee$  button will select the option directly above or below the currently selected option, respectively.



4. When an option is selected, press the  $<$  or  $>$  buttons to decrease or increase the value, respectively. If the option has an **ON** or **OFF** value, the same buttons can be used to switch between each value.
5. Press and release the  button to return to the Main Menu at any time.

#### BRIGHTNESS

Brightness is related to how much the image appears to be emitting light. Larger values produce a brighter image, but at the same time can reduce the image contrast and make the image appear over-exposed or “blown out”. Move this slider to adjust the picture brightness between a value of 0 and 14. The default setting is 5.

#### CONTRAST

Contrast is the difference in luminance or color. Higher values will make the objects in an image more distinguishable. Lower values tend to make the image look faded and not as clear. Move this slider to adjust the contrast between a value of 0 and 14. The default setting is 7.

#### HUE

Hue is one of the attributes that define the color of an object, such as red, magenta, green, and so on. Higher values will increase the red color component, while lower values will increase the green color component. Move this slider to adjust the hue between a value of 0 and 14. The default setting is 7.

#### SATURATION

Saturation, also referred to as “chroma”, defines the intensity of the amount of color in the image. Larger values increase the color intensity, while smaller values will make the colors appear faded. Move this slider to adjust the saturation between a value of 0 and 14. The default setting is 7.

### SHARPNESS

This option increases or decreases the sharpness (or acuteness) of the image. Larger values will produce sharper edges on each object/subject in the frame. Lower values will make objects less pronounced or defined, providing a “fuzzy” outline. Move this slider to adjust the picture sharpness between a value of 0 and 14. The default setting is 5.

### GAMMA

The full definition of gamma is beyond the scope of this manual. However, gamma refers to the relationship between the video level and image brightness. Cameras function differently than the human eye: eyes are much more sensitive to changes in dark tones than they are to changes in bright tones, which allows the human eye to discern a broader range of luminance values. However, for cameras, the contrast ratio (dynamic range) is too large. Therefore, to reduce the contrast of highlights, gamma correction / values are introduced. Larger values will increase the contrast ratio, making the image appear darker. Smaller values will decrease the contrast ratio, making the image appear lighter. Move this slider to adjust the gamma between a value of 0 and 4. The default value is 2.

### GAIN

Gain is the amount of amplification of the signal from the camera sensor, which applies to the whole signal, including any background noise. This setting is similar to the ISO setting on a standard camera. Larger values will increase the sensor amplification, while smaller values will decrease amplification. Move this slider to adjust the contrast between a value of 0 and 14. The default setting is 7.

### ANTI FLICKER

This option can be changed if displays (or lights) in the background are exhibiting a “flickering” effect. Flickering is caused when the frame rate does not match the frequency of displays and light bulbs in the environment. The default setting is 60 Hz, which is the common operating frequency for both incandescent and fluorescent bulbs in the US and Canada. UK and Australia typically operate at 50 Hz. LED lights operate above these frequencies and will not exhibit flickering. To eliminate any flickering, set the frequency to the same operating frequency of devices in the region. Available values are 60 Hz and 50 Hz.

### BACKLIGHT COMP.

Backlight Compensation (BLC) is a feature which automatically adjusts the exposure control of the camera. When enabled, BLC will attempt to increase the ambient foreground light and “darken” any background light. For example, a subject standing in front of a window in the daytime, will produce a silhouetted effect. Enabling BLC will compensate for the difference in lighting. The available values are: ON or OFF. This feature is disabled by default.

### COLORTONE Submenu

1. Press and release the  button on the included IR Remote Control.
2. Select the  submenu and press the  button.
3. Options for the **COLORTONE** submenu will be displayed. The **COLORTONE** submenu has a single option for White Balance (WB). The available values are: AUTO, MANUAL, and STATIC.



4. When an option is selected, press the < or > buttons to decrease or increase the value, respectively. If the option has an ON, OFF, or other string value, the same buttons can be used to switch between each value.
5. Press and release the  button to return to the Main Menu at any time.

*Defintion:* **White Balance** (WB) is the process of removing unnatural color casts from an image, so that objects which are physically “white” appear as “white” in the image.

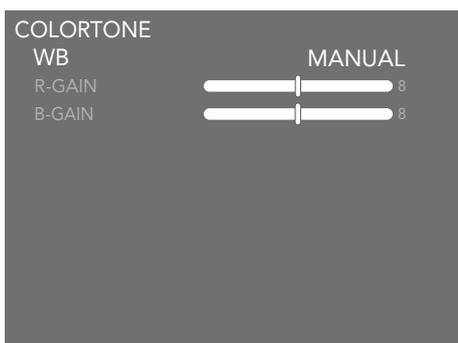
#### WB: AUTO

When set to AUTO, this will automatically adjust the white balance based on the image. This is the default setting.

#### WB: MANUAL

Permits manual white balance setting using the RG (Red Gain) and BG (Blue Gain) sliders. When in MANUAL mode, select an object in the image that is physically “white”. Once the object is identified, adjust the R-GAIN (Red Gain) and B-GAIN (Blue Gain) sliders so that the “white object” appears “white”. When this is complete, all other objects in the scene should correctly reflect their natural colors. Move these sliders to select values from 0 through 16. The default setting for both R-GAIN and B-GAIN is 8.

Press and release the ^ or v button will select between the R-GAIN and B-GAIN options.



### WB: STATIC

When set to STATIC mode, Color Temperature (COLOR TEMP.) is used to adjust the white balance on selected objects. When in STATIC mode, select an object in the image that is physically “white”. Once the object is identified, COLOR TEMP. slider to that the “white object” appears “white”. Available slider values are from 2800 to 6500 in increments of 100. The default setting is 4500 K°. Refer to *Figure 4*, below, for a range of general color temperatures.

Press and release the ^ or v button will select between the WB and COLOR TEMP. options.

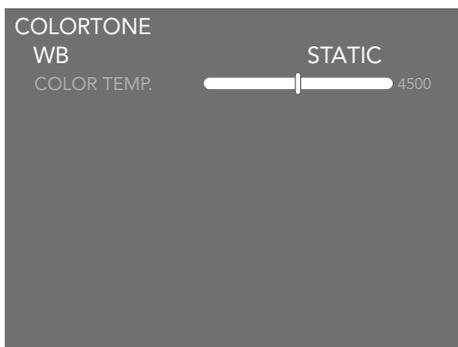
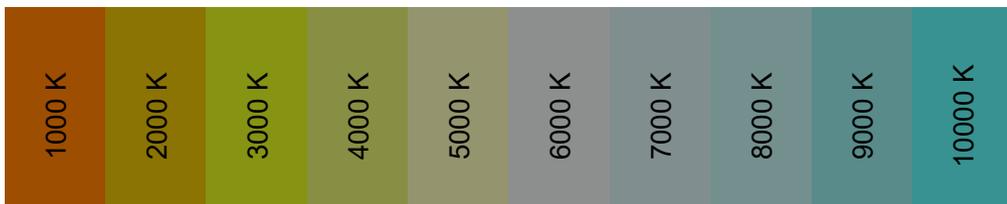


Figure 4

Color Temperature in Kelvin (K°)



### SYSTEM Submenu

1. Press and release the  button on the included IR Remote Control.
2. Select the  submenu and press the  button.
3. Options for the **SYSTEM** submenu will be displayed.



4. When an option is selected, press the < or > buttons to decrease or increase the value, respectively. If the option has an ON, OFF, or other string value, the same buttons can be used to switch between each value.
5. Press and release the  button to return to the Main Menu at any time.

#### LANGUAGE

Sets the language of the menu system. Available options are: ENGLISH or 中文 (CHINESE).

#### IR ADDRESS

Sets the IR address of the camera. If multiple AT-CAP-FC110 cameras are used in an environment, they must be set to unique IR channels, to prevent interference with other IR remote control units. Once changed, the AT-CAP-FC110 will operate on that IR address. Available values are 1 through 3. Refer to [IR Operation \(page 22\)](#) for more information.

#### MIRROR

This option will mirror the image vertically, reversing the image. Available settings are ON or OFF. The default setting is OFF.

*Original image (OFF)*



*Mirrored image (ON)*



#### FLIP

This option will flip the image horizontally, producing an upside-down image. This option is useful to correct images from cameras that are mounted upside-down or on a ceiling mount. Available settings are ON or OFF. The default setting is OFF.

*Original image (OFF)*



*Flipped image (ON)*



### **DZOOMLIMIT**

This option sets the maximum zoom limit. Available values are: 2X, 3X, and 4X. The default setting is 3X.

### **AUDIO DELAY**

In some cases, the video and audio may not be in sync. While there can be multiple causes for this behavior, depending on other equipment that is used with the camera, adjusting the this option can compensate for loss of audio sync with video. Available values are: 0, 62, 124, 186, 248, 310, 372, 434, 496, 558, 620, 682, 744, 806, 868, and 930. All values are measured in milliseconds (ms). The default value is 0.

### **MICROPHONES**

Enables or disables microphones. When MICROPHONES is set to DISABLED, the AT-CAP-FC110 microphone will not appear as an audio device on the user's PC. This is useful when the AT-CAP-FC110 is used with another audio system. The default value is ENABLED.

### FRAMING Submenu

1. Press and release the  button on the included IR Remote Control.
2. Select the  submenu and press the  button.
3. Options for the **FRAMING** submenu will be displayed.



4. When an option is selected, press the < or > buttons to decrease or increase the value, respectively. If the option has an ON, OFF, or other string value, the same buttons can be used to switch between each value.
5. Press and release the  button to return to the Main Menu at any time.

#### AUTO FRAME

The **AUTO FRAME** feature is used to keep the primary subject in focus and centered. This feature also provides proper focus and coverage when multiple subjects are in the image, and will automatically increase the camera's Field of View (FOV) when this occurs. The available values are: ON or OFF. This feature is enabled by default.

#### EXPERT MODE

When this mode is enabled, a tracking frame will be displayed on the screen. This function is typically used to analyze tracking problems in particular scenarios. Available values are: ON or OFF. The default setting is OFF.

#### DETECTION SENS.

This option sets the camera motion detection sensitivity. Available values are: HIGH, MIDDLE, and LOW. Note that in some cases setting this option to HIGH can result in erratic camera behavior, due to the camera attempting to track multiple subjects at once. The default setting is HIGH.

#### FRAMING MOVE SENS.

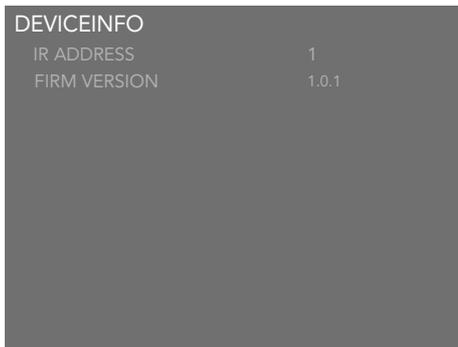
This setting determines how much movement is required to cause the camera to reframe. The higher the number, the smaller the movement that is required to cause a reframe. Available values are: 0 - 8. Lower values provide more precision. The default setting is 5.

#### TARGET LOST ACT.

Action of the camera when the smart framing target is lost. Available values are: STAY or PRESET1. When set to STAY, the camera will remain in the current position. When set to PRESET1, the camera will automatically be set to the saved preset, in PRESET1. The default setting is PRESET1.

### DEVICEINFO Submenu

1. Press and release the  button on the included IR Remote Control.
2. Select the  submenu and press the  button.
3. Options for the **DEVICEINFO** submenu will be displayed.



This menu has no modifiable options.

4. Press and release the  button to return to the Main Menu at any time.

#### **IR ADDRESS**

The IR address of the camera.

#### **FIRM VERSION**

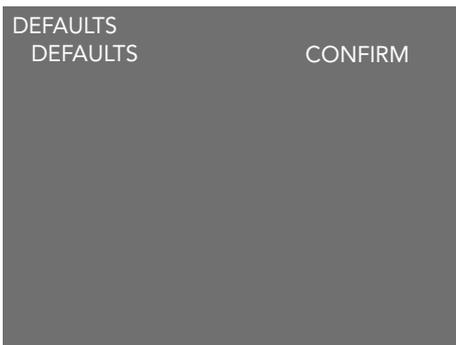
The current firmware version of the camera.

### DEFAULTS Submenu



**IMPORTANT:** The following procedure will reset the AT-CAP-FC110 to factory-default settings.

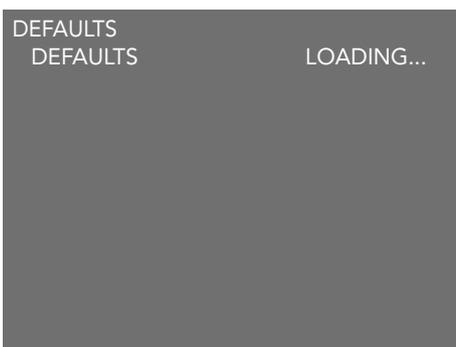
1. Press and release the  button on the included IR Remote Control.
2. Select the  submenu and press the  button.
3. Options for the **DEFAULTS** submenu will be displayed.



4. To abort the operation, press and release the  button to return to the Main Menu.
5. To continue with the operation, press the  button to confirm the reset-to-factory-defaults operation.

As the default settings are loaded into memory, the text on the screen will read “LOADING...”, as shown below in *Figure 5*. Once completed, the text will change to “FINISH”, as shown in *Figure 6*.

*Figure 5*



*Figure 6*



6. Press and release the  button to return to the Main Menu.

### IR Operation

#### Setting the IR Channel

Once the desired IR channel is set on the AT-CAP-FC110, the corresponding IR channel must also be assigned to the included IR remote. The following instructions outline this procedure.

1. Press and release the  button on the included IR Remote Control.
2. Select the  submenu and press the  button.
3. Options for the **SYSTEM** submenu will be displayed.

SYSTEM	
LANGUAGE	ENGLISH
IR ADDRESS	1
MIRROR	OFF
FLIP	OFF
DZOOMLIMIT	3X
AUDIO DELAY	0
MICROPHONES	ENABLED

4. Select the **IR ADDRESS** option and press the < or > button to set the IR address. In this example, the **IR ADDRESS** is set to 2.

SYSTEM	
LANGUAGE	ENGLISH
IR ADDRESS	2
MIRROR	OFF
FLIP	OFF
DZOOMLIMIT	3X
AUDIO DELAY	0
MICROPHONES	ENABLED

LED indicator

5. Press the  button to commit changes. NOTE: The AT-CAP-FC110 will be unable to receive any further commands from the IR remote until the IR channel is changed on the IR remote.
6. Press and hold the F1 key for five seconds, then release it. The LED indicator on the IR remote will be solid red.
7. Press the 1, 2, or 3 button to select the corresponding IR address. In this example, since the AT-CAP-FC110 was assigned the IR address of 2, button 2 would need to be pressed on the IR remote control.
8. The LED indicator on the IR remote will blink once and then turn off.
9. The IR channel has been successfully changed.
10. Press and release the  button to exit the menu system.



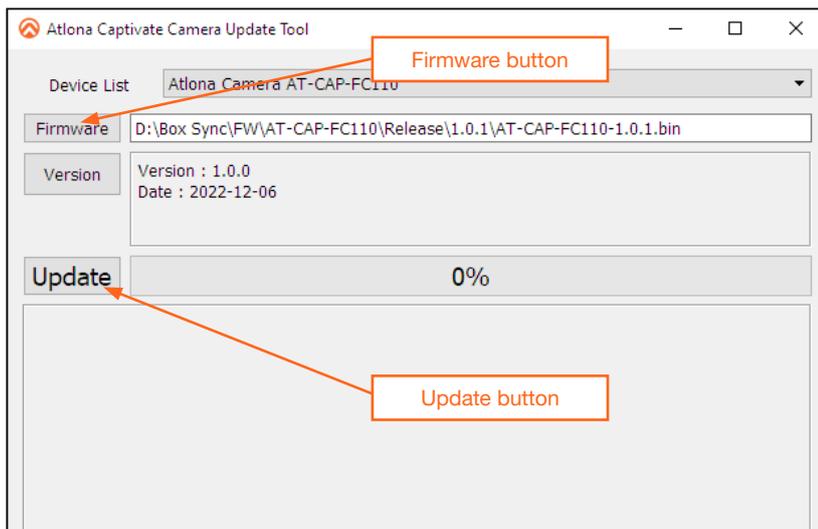
# Appendix

## Updating the Firmware

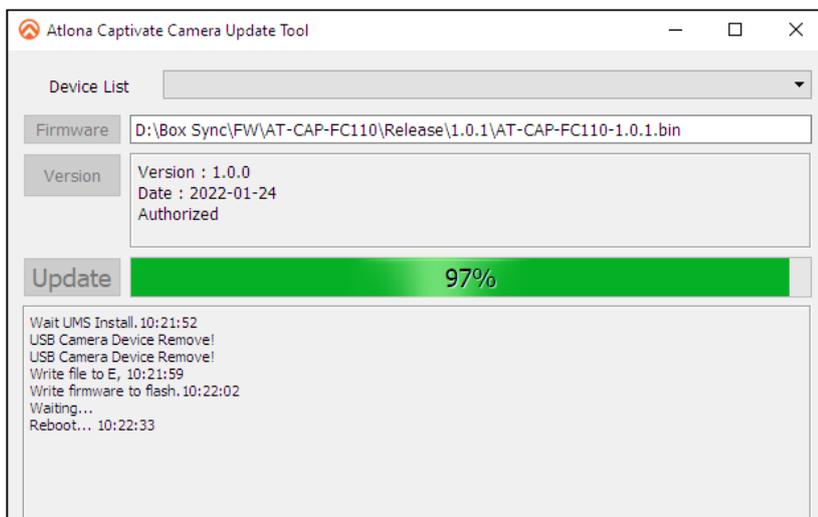
Requirements:

- AT-CAP-FC110
- AT-CAP-FC110 Update Tool
- Firmware file

1. Download both the AT-CAP-FC110 Update Tool and the firmware file from the **Firmware** tab on the product page.
2. Unzip the contents of the Update Tool file on the same computer to which the AT-CAP-FC110 is connected and verify that the AT-CAP-FC110 is connected to the computer.
3. Launch the Update Tool by double-clicking the `CaptivateCameraUpdateTool.exe` file. The Atlona Captivate Camera Update Tool dialog will be displayed.
4. Click the **Firmware** button to select the firmware file. Once selected, the full path to the firmware file will be displayed in the text box, next to the **Firmware** button.



5. Click the **Update** button to begin the firmware update process. A progress bar will denote the status of the update process. The camera will automatically be rebooted after updating.



6. After the update process has completed and the camera has rebooted, the following message box will be displayed.



7. Click OK to dismiss the message box and return to the Update Tool dialog.
8. Exit the Update Tool.
9. The AT-CAP-FC110 is ready for operation.

## Specifications

Video		
Signal	USB	
Formats	<b>USB 2.0 Compression</b>	
	MJPEG, H.264/265	1920x1080 @ 30/25 Hz, 1280x720 @ 30/25 Hz, 640x360 @ 30/25 Hz
	YUY2	640x360 @ 30/25 Hz
	NV12	640x360 @ 30/25 Hz
	<b>USB 3.0 Compression</b>	
	MJPEG, H.264/265	3840x2160 @ 30/25 Hz, 1920x1080 @ 30/25 Hz, 1280x720 @ 30/25 Hz, 640x360 @ 30/25 Hz
	YUY2	1920x1080 @ 30/25 Hz, 1280x720 @ 30/25 Hz, 640x360 @ 30/25 Hz
	NV12	1920x1080 @ 30/25 Hz, 1280x720 @ 30/25 Hz, 640x360 @ 30/25 Hz

Camera	
Sensor	1/2.8" CMOS, Progressive scan
Effective Pixels	8.42 MP
Focal Length	$f = 2.1$ mm
View Angle	D: 120.1°, H: 109.7°, V: 87°
Aperture	F2.2
Digital Zoom	4X
White Balance	Auto, Manual, Static
Video Adjustment	Brightness, Contrast, Hue, Saturation, Sharpness, Gamma, Gain
Exposure Control	Auto
SNR	≥ 50 dB

Audio	
Audio Input	Built-in dual MIC pick-up

Connectors	
USB	1 x USB-C 3.0

Temperature	Fahrenheit	Celsius
Operating	+32° to 104°	0° to +40°
Storage	-4° to 140°	-20° to +60°
Operating Humidity (RH)	10% to 90%, non-condensing	

Power	
Consumption	< 2.5 W
Supply	5 V DC, 0.5 A (USB)

## Appendix

Dimensions (H x W x D)	Inches	Millimeters
Unit	1.89 x 8.27 x 2.91	48 x 210 x 74

Weight	Ounces	Grams
Device	10.58	300

Certification	
Device	CE, FCC

Compliance	
NDAA-899	Yes

Warranty	
Device	To view the product warranty, use the following link: <a href="https://atlon.com/warranty">https://atlon.com/warranty</a>

