



Using Avaya Huddle Camera HC020

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2. This device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes:

1. L'appareil ne doit pas produire de brouillage, et
2. L'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

Industry Canada (IC) Statements

This Class A digital apparatus complies with Canadian ICES-003.

This product meets the applicable Innovation, Science and Economic Development Canada technical specifications.

Cet appareil numérique de la classe A est conforme à la norme NMB-003 du Canada.

Japan Statements

Class A Statement

This is a Class A digital device. Operation of this product in a residential environment may cause radio interference. In such cases you may need to take corrective action.

この装置は、クラスA機器です。この装置を住宅環境で使用すると電波妨害を引き起こすことがあります。この場合には使用者が適切な対策を講ずるよう要求されることがあります。VCCI-A

México Statement

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1. It is possible that this equipment or device may not cause harmful interference, and
2. This equipment or device must accept any interference, including interference that may cause undesired operation.

La operación de este equipo está sujeta a las siguientes dos condiciones:

1. Es posible que este equipo o dispositivo no cause interferencia perjudicial y
2. Este equipo o dispositivo debe aceptar cualquier interferencia, incluyendo la que pueda causar su operación no deseada.

U.S. Federal Communications Commission (FCC) Statements

Compliance Statement

The changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This 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 interferences that may cause undesired operation.

Class A Part 15 Statement

This device 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 designated to provide reasonable protection against harmful interferences in a residential installation. This device generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

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Warning:

This device is compliant with class A of CISPR 32. In a residential environment this device may cause radio interference.

Brazil Statement

Este equipamento não tem direito à proteção contra interferência prejudicial e não pode causar interferência em sistemas devidamente autorizados

General Safety Warning

- Ensure that you:
 - Do not operate the device near water.
 - Do not use the device during a lightning storm.
 - Do not report a gas leak while in the vicinity of the leak.
- Do not place a naked flame source, such as lighted candles, on or near the device.
- Do not intentionally hit the device or place heavy or sharp objects on the device.
- Do not attempt to repair the device yourself. Always use a qualified service agent to perform adjustments and repairs.
- Keep the device away from benzene, diluents, and other chemicals.

Avertissement de sécurité général

- Assurez-vous de prendre les précautions suivantes:
 - N'utilisez pas l'appareil à proximité d'une source d'eau.
 - N'utilisez pas l'appareil en cas d'orage.
 - En cas de fuite de gaz, éloignez-vous avant de la signaler.
- N'enfoncez pas d'objets dans les trous et les orifices de ventilation de l'appareil.
- Ne placez pas sur l'appareil ou à proximité de ce dernier une flamme libre, telle que des bougies allumées.
- Ne heurtez pas intentionnellement l'appareil et ne placez pas d'objets lourds ou pointus sur celui-ci.
- Ne tentez pas de réparer vous-même l'appareil. Utilisez toujours un prestataire de services qualifié pour effectuer les réglages et les réparations.
- Conservez l'appareil loin de sources de benzène, de diluants et d'autres produits chimiques.

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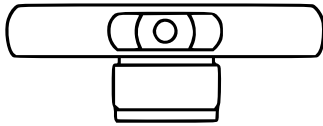
Contents

Chapter 1: Introduction	6
Chapter 2: Packing List	7
Chapter 3: Setting up Avaya Huddle Camera HC020	8
Setting up Avaya Huddle Camera HC020 as the main camera	8
Setting up Avaya Huddle Camera HC020 as a USB camera for your Avaya IX™ Workplace	
Client or Avaya Spaces client	10
Chapter 4: HC020 Camera software client	12
HC020 Camera Avaya IX™ Workplace Client setup	12
HC020 Camera Avaya Spaces client setup	14
Chapter 5: Infrared remote control	16
Chapter 6: Setting the camera IR code	19
Chapter 7: Maintenance and incorrect use	20
Chapter 8: Advanced parameters	21

Chapter 1: Introduction

The Avaya Huddle Camera HC020 USB digital PTZ camera brings a high quality 4K sensor video source to your Avaya IX video endpoint, with HD 1080p 30 fps, including 8x digital zoom, and an optimal horizontal field of view for video conferencing rooms. It can also be used as a 4K USB camera for your Avaya IX™ Workplace Client or Avaya Spaces client.

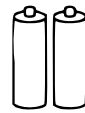
Chapter 2: Packing List



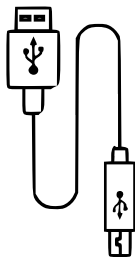
Avaya HC020



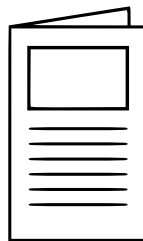
Remote control



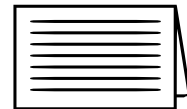
2x AAA batteries



USB 3.0
Type-A and Type-B



Quick guide



Safety declaration

Chapter 3: Setting up Avaya Huddle Camera HC020

You can use the Avaya Huddle Camera HC020 as the main camera on XT4300, XT5000, and XT7100 or as a USB camera for your Avaya IX™ Workplace Client or Avaya Spaces client.

Related links

[Setting up Avaya Huddle Camera HC020 as the main camera](#) on page 8

[Setting up Avaya Huddle Camera HC020 as a USB camera for your Avaya IX Workplace Client or Avaya Spaces client](#) on page 10

Setting up Avaya Huddle Camera HC020 as the main camera

About this task

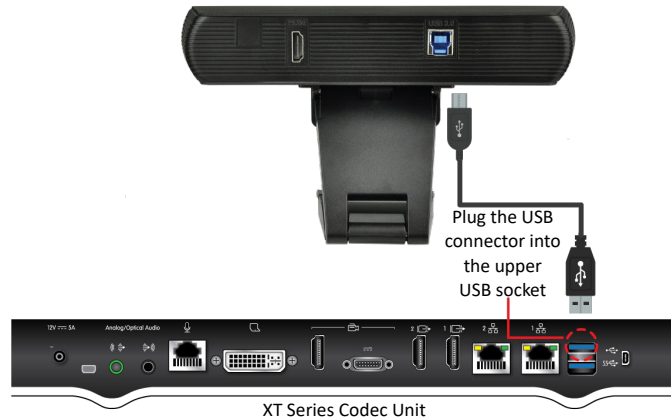
You can use the Avaya Huddle Camera HC020 as the main camera on XT4300, XT5000, and XT7100. The HC camera has embedded microphones which by default are active as the audio source input of the XT codec.

Note:

- The USB port is also used for camera control.
- Camera presets are not accessible using the XT remote control. It is possible to store and recall presets using the camera remote control.

Procedure

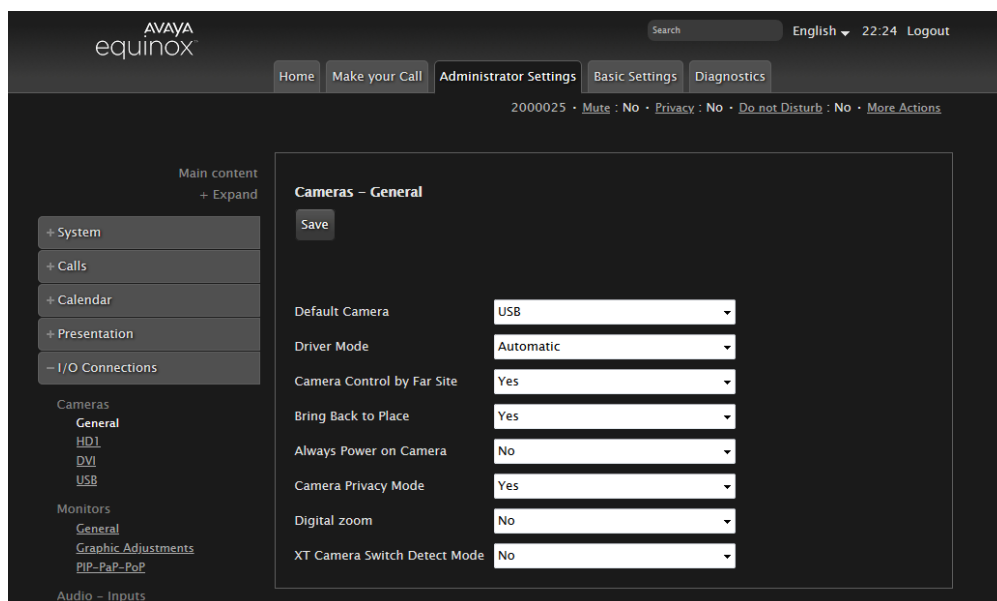
1. Plug the USB Type-B connector into the USB Type-B socket at the rear of the camera.



2. Plug the USB Type-A connector into the upper USB Type-A socket at the rear of the XT Series endpoint (XT4300, XT5000 or XT7100). To ensure optimal camera performance use the USB 3.0 cable shipped in the box.
3. Remove the transparent plastic film that protects the lens from getting scratched during shipment.
4. If you are using Avaya Huddle Camera HC020 as the first camera, you must enable it as the default camera in one of the following two ways:
 - Using the directly attached interface (monitor and keyboard), click **Configure > Advanced > I/O connections > Cameras > General > Default Camera > USB**.
 - Through the web using the IP address, click: **Administrator Settings > I/O Connections > Cameras > General > Default camera > USB**.

*** Note:**

When using an XT Series endpoint the IP address is displayed in the info bar at the top of the XT Series endpoint web interface window.



The video signal source for the XT unit is changed to the USB port.

5. To configure the audio source, see *Avaya Video Conferencing XT Series Deployment Guide*.

Related links

[Setting up Avaya Huddle Camera HC020](#) on page 8

Setting up Avaya Huddle Camera HC020 as a USB camera for your Avaya IX™ Workplace Client or Avaya Spaces client

About this task

You can use the Avaya Huddle Camera HC020 as a USB camera for your Avaya IX™ Workplace Client or Avaya Spaces client. The audio source is the embedded microphones.

* Note:

Under this configuration, you can control Avaya Huddle Camera HC020 using the provided remote control.

Procedure

1. Plug the USB Type-B connector into the USB Type-B socket at the rear of the camera.
2. Plug the USB Type-A connector into your laptop USB port. To ensure optimal camera performance plug it into a USB 3.x port and not a USB hub or docking station and use the USB 3 cable in the box. Plugging the camera into a USB 2.0 port may deliver insufficient

power to the camera and does not guarantee proper behavior in all the possible scenarios and with all laptop models.



3. It is possible to connect a display directly to the camera, if a self-view image is needed.
4. Remove the transparent plastic film that protects the lens from getting scratched during shipment.

Related links

[Setting up Avaya Huddle Camera HC020](#) on page 8

Chapter 4: HC020 Camera software client

After you install the camera, you must configure the camera to be the source camera for your desired software client application. Following are setup procedures for the Avaya IX™ Workplace Client and the Avaya Spaces client.

Note:

The camera is also compatible with third party conferencing clients such as Microsoft® Skype for Business, Microsoft® Teams, Zoom®, BlueJeans® and others. Refer to the relevant service provider documentation to select the camera from the list of video resources on the selected client.

Related links

[HC020 Camera Avaya IX Workplace Client setup](#) on page 12

[HC020 Camera Avaya Spaces client setup](#) on page 14

HC020 Camera Avaya IX™ Workplace Client setup

About this task

Perform the following steps to use the camera with the Avaya IX™ Workplace Client.

Before you begin

Plug the camera in, see [Setting up Avaya Huddle Camera HC020 as a USB camera for your Avaya IX Workplace Client or Avaya Spaces client](#) on page 10.

Procedure

1. Run the Avaya IX™ Workplace Client application on Windows or macOS.
2. Click **Settings** > **User Preferences** > **Audio/Video** and select the HC camera among the available cameras.



Figure 1: Windows

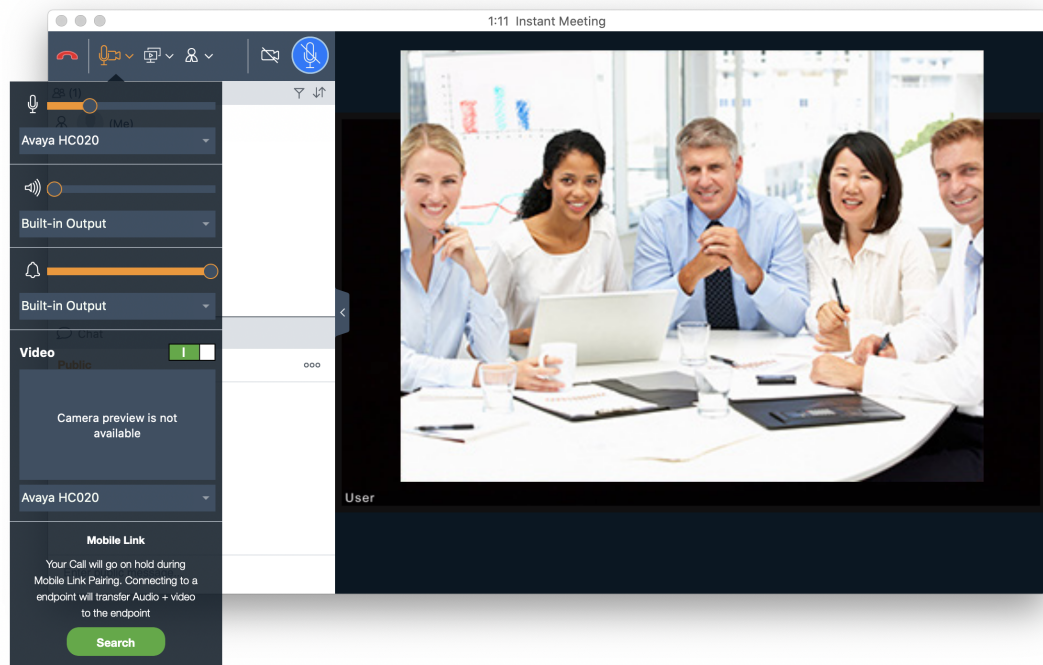


Figure 2: macOS

3. It is possible to select the Avaya IX™ Huddle Camera HC020's microphone for video and audio input.

Related links

[HC020 Camera software client](#) on page 12

HC020 Camera Avaya Spaces client setup

About this task

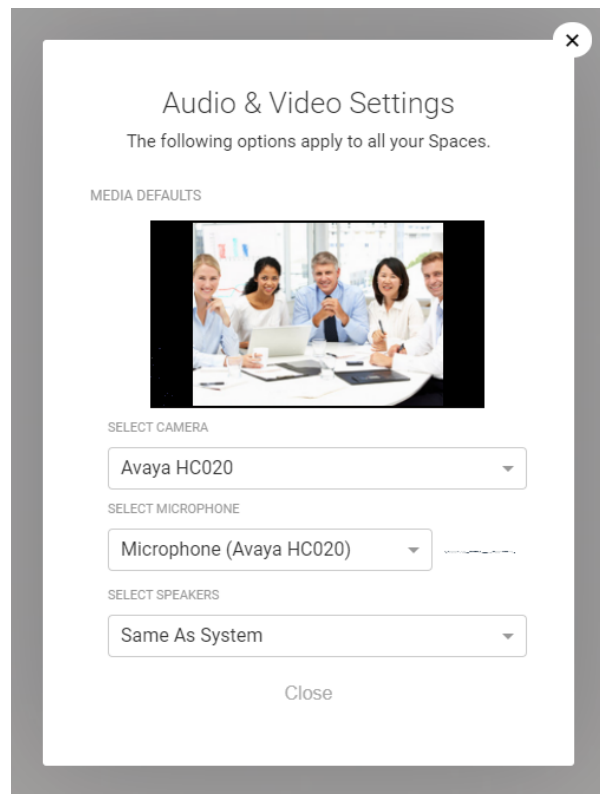
Perform the following steps to use the camera with the Avaya IX™ Spaces client.

Before you begin

Plug the camera in, see [Setting up Avaya Huddle Camera HC020 as a USB camera for your Avaya IX Workplace Client or Avaya Spaces client](#) on page 10.

Procedure

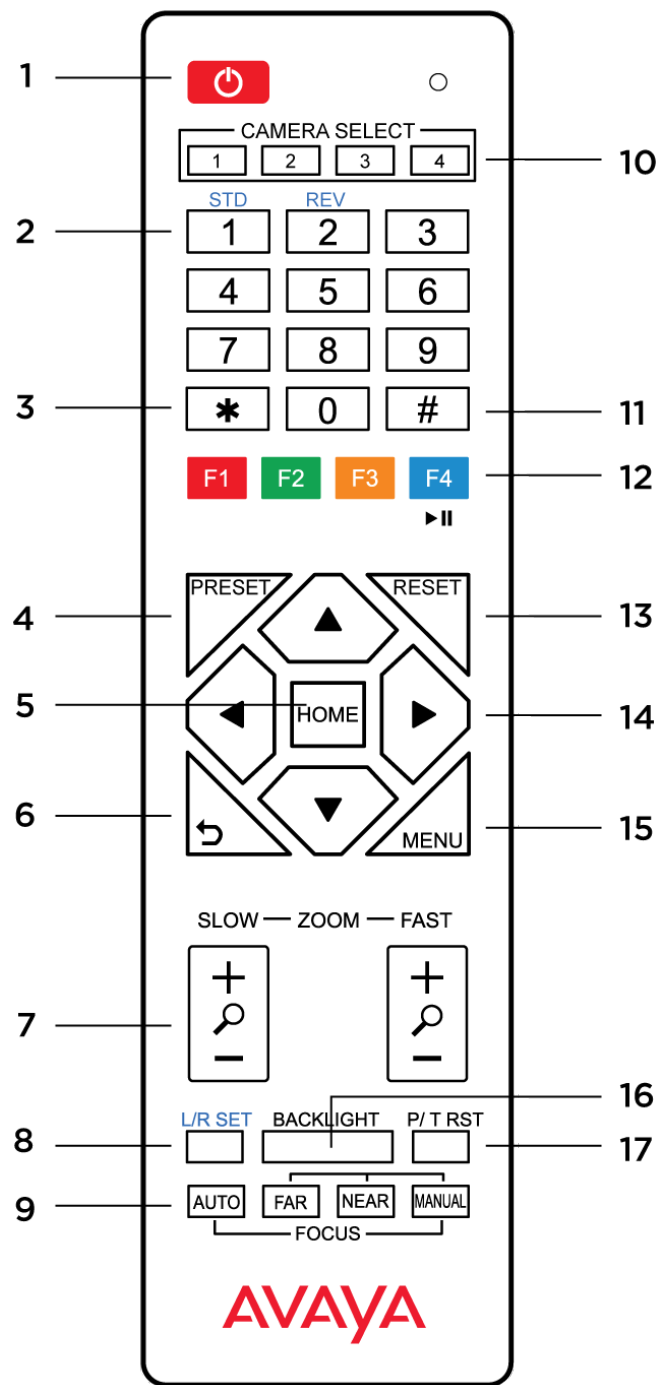
1. Run the Avaya Spaces client application on Windows or macOS.
2. Click **Audio/Video Settings**.
3. Click **Avaya HC020** under SELECT CAMERA.
4. Click **Microphone (Avaya HC020)** under SELECT MICROPHONE.
5. Join the Spaces meeting.



Related links


[HC020 Camera software client](#) on page 12

Chapter 5: Infrared remote control



No.	Name	Function Description
1	Standby Button	Enter into standby mode (not supported).
2	Position Buttons	To set preset or call preset.
3	* Button	Used with other buttons.
4	Set Preset Button	Store a preset position. [PRESET] + Numeric button (0-9): Setting a corresponding numeric key preset position.
5	Home Button	Press [HOME] back to the middle position.
6	Back Button	Press to return to previous.
7	Zoom Buttons	Slow Zoom: Zoom In [+] or Zoom Out [-] slowly Fast Zoom: Zoom In [+] or Zoom Out [-] fast
8	Set Pan Left/Right	Setting the direction of the pan. <ul style="list-style-type: none"> • Simultaneously press [L/R SET] + 1 [STD]: set the pan turn the same direction as the L/R Set. • Simultaneously press [L/R SET] + 2 [REV]: set the pan turn the opposite direction as the L/R Set.
9	Focus Buttons	Used for focus adjustment. Press [AUTO] to adjust the focus on the center of the object automatically. Press [MANUAL] to adjust the focus on the center of the object manually. Adjust it with [FAR] (Focus on far object) and [NEAR] (Focus on near object).
10	Camera Select Buttons	Press the button corresponding to the camera you want to operate with the remote controller.
11	# Button	Used with other buttons.
12	Set Camera IR Address Buttons	[*]+[#]+[F1]: Address 1 [*]+[#]+[F2]: Address 2 [*]+[#]+[F3]: Address 3 [*]+[#]+[F4]: Address 4
13	Clear Preset Buttons	Clear preset: Erase a preset position. [RESET] + Numeric button (0-9)
14	Pan/Tilt Control Buttons	Press arrow buttons to perform panning and tilting. Press [HOME] button to return to original position.
15	Menu	Press [MENU] to enter or exit menu.

Table continues...

No.	Name	Function Description
16	BLC (Backlight Compensation) ON/OFF Button	<p>Press [BLC ON/OFF] to enable the backlight compensation. Press it again to disable the backlight compensation.</p> <p> Note:</p> <ul style="list-style-type: none">• Effective only in auto exposure mode.• If a light is behind the subject, the subject will become dark. In this case, press the [BACKLIGHT ON/OFF] button. To cancel this function, press [BACKLIGHT ON/OFF] button.
17	PTZ Reset Button	Not supported.

Chapter 6: Setting the camera IR code

About this task

It is possible to set the HC camera IR code to control multiple cameras using the same remote control.

Procedure

1. Switch on only the camera that you want to set the IR code for.

Note:

All other cameras must be switched off to avoid setting their IR code.

2. Cover the lens of the camera to be set to make it easy to read the message overlay on the screen.
3. Hold the remote control close to the camera and press the following buttons in sequence on the remote control: * > # > **Fx**

Sequence	Action
*#F1	The system displays IR_NO.1 in the video stream overlay. This means that the camera IR code is set with 1.
*#F2	The system displays IR_NO.2 in the video stream overlay. This means that the camera IR code is set with 2.
*#F3	The system displays IR_NO.3 in the video stream overlay. This means that the camera IR code is set with 3.
*#F4	The system displays IR_NO.4 in the video stream overlay. This means that the camera IR code is set with 4.

4. Repeat all these steps for all the cameras.
5. To operate a specific camera, press the corresponding camera ID button in the CAMERA SELECT section of the HC remote control. See No.10 in [Infrared remote control](#) on page 16.

Chapter 7: Maintenance and incorrect use

Camera maintenance

- Use a soft cloth or tissue to clean the camera cover. If the camera is very dirty, clean it with diluted neutral detergent. Do not use any type of solvents, which may damage the surface.
- Use a soft, dry, and clean cloth to polish the lens.

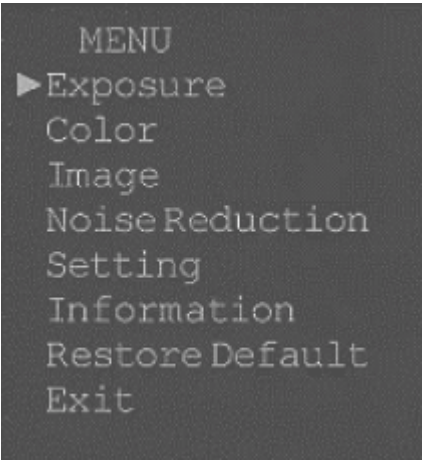
Incorrect use

- Do not point the camera at extremely bright objects for a long period of time, such as sunlight, powerful light sources, and so on.
- Do not operate in unstable lighting conditions to avoid image flickering.
- Do not operate close to powerful electromagnetic radiation, such as TV or radio transmitters.

Chapter 8: Advanced parameters

It is possible to improve the video quality and enable or disable some features using advanced parameters.

To access the advanced parameters, press the **MENU** button on the remote control.



Use the up and down arrows to scroll through the menu items and the HOME button to select an item.

The following table describes some of the advanced parameters.

Menu Item	Sub-Menu Item	Definition
Color	WB Mode	<p>Use the WB Mode menu item to select one of the following <i>white balance modes</i>:</p> <ul style="list-style-type: none"> • Auto — Automatic settings • Indoor — Automatic settings for indoor • Outdoor — Automatic settings for outdoor • One Push — To make this setting you must put a white object as a reference in front of the camera framed at 75% and inclined at 45 degrees. • Manual — Enable manual configuration • VAR — It is possible to set the white balance for a specific color temperature. <p>To set this value, use the left and right arrows on the HC remote control when the cursor is on the WB Mode field.</p>
	Hue	<p>To set this value, use the left and right arrows on the HC remote control when the cursor is on the Hue field.</p> <p>The following is a list of color ranges produced by their respective hue values:</p> <ul style="list-style-type: none"> • Hue => 0 Greenish • Hue => 7 Neutral • Hue => 14 Reddish <p>Default = 7</p>

Table continues...





Menu Item	Sub-Menu Item	Definition
Image	LDC	<p>Use the LDC menu item to change the <i>Lens Distortion Correction</i> setting.</p> <p>To set this value, use the left and right arrows on the HC remote control when the cursor is on the LDC field.</p> <p>Increase LDC to reduce distortion which at the same time reduces the horizontal viewing angle.</p> <p>If a larger horizontal field of view is needed, the LDC value must be reduced, which increases the barrel distortion effect.</p> <p>The default value depends on the lens model.</p> <p>The following images show the different lens models.</p> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;">  <p>Lens model 1</p> </div> <div style="text-align: center;">  <p>Lens model 2</p> </div> </div> <p>Lens model 1 default = 10</p> <p>Lens model 2 default = 11</p>
	Luminance	<p>To set this value, use the left and right arrows on the HC remote control when the cursor is on the Luminance field.</p> <p>Use this setting to change the intensity of light emitted.</p> <p>Default = 7</p>
	Contrast	<p>To set this value, use the left and right arrows on the HC remote control when the cursor is on the Contrast field.</p> <p>Use this setting to change the difference between colors.</p> <p>Default = 9</p>
	Sharpness	<p>To set this value, use the left and right arrows on the HC remote control when the cursor is on the Sharpness field.</p> <p>Use this setting to increase the resolution.</p> <p>Default value = 3</p>
	Flip-H	Use the Flip-H menu item to mirror the image on the horizontal axis.
	Flip-V	Use the Flip-V menu item to mirror the image on the vertical axis.

Table continues...

Menu Item	Sub-Menu Item	Definition
Setting	HDMI Enable	<p>To set this value, use the left and right arrows on the HC remote control when the cursor is on the HDMI field to enable or disable HDMI.</p> <p> Note:</p> <p>Enabling HDMI video output increases the current camera consumption.</p>
	Uvc EXT settings	<p>Use the Uvc EXT menu item to select one of the following:</p> <ul style="list-style-type: none"> • H264Enable — This enables: <ul style="list-style-type: none"> - Video through the USB of the Avaya XT Series codec, when the camera is connected to an XT codec. - Some computer applications to use H.264 4k@30fps resolution via the USB of the camera, when it is connected to a laptop. • AudioEnable — Use the left and right arrows on the HC remote control when the cursor is on the AudioEnable field to enable audio. <p> Note:</p> <p>Each time that these fields are set the camera is disconnected and reconnected.</p>
Information		Use the Information menu item to get the software version release number.
Restore Default		Use the Restore Default menu item to restore all HC settings to the defaults. It takes into account the lens model of the camera and uses suitable settings including the correct value of Lens Distortion Correction for the camera lens model.