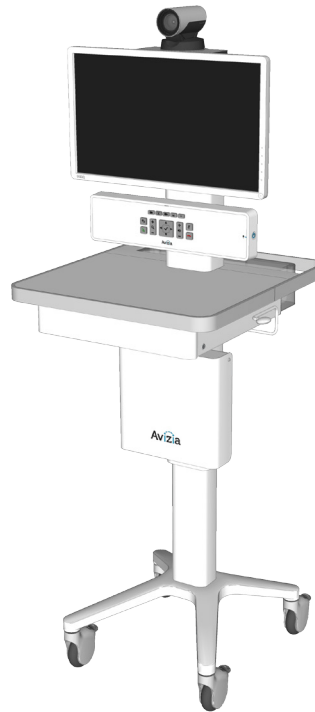




CA 300

User & Installation Guide



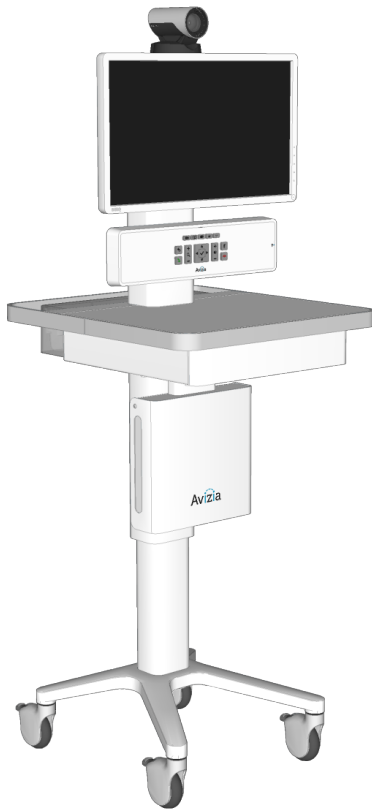
AVZ-CA300-DOC-UIG-04

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Before getting started



- Indications for use
 - Contraindications
- Safety precautions
 - Warnings
 - Environmental considerations
 - Waste handling
- Warnings
- Operator safety summary
- Important Safeguards
- Equipment markings

Indications for use

The Avizia CA300 enables secure and effective audio/video communication between multiple healthcare providers and between providers and patients. The system transmits real-time audio and video captured by a high-definition camera and integrated microphone. It also receives real-time audio and video from a similar system in a remote location. Finally, the CA300 supports transmission of real-time audio and video from peripheral audio/visual medical devices, which may be connected to standard audio and video inputs provided on the system.

The CA300 is intended to facilitate remote provider/patient and provider/provider consultations. These consultations should always be conducted with a licensed medical professional physically in the room with the patient.

Contraindications

The CA300 is not intended to substitute for the in-person physical examination of a patient or as a substitute for direct medical intervention. It is also not intended for real-time, active, or online patient monitoring, nor is it intended to provide time sensitive data or alarms. The CA300 does not support transmission of numerical telemetric/serial data and is not intended for use with non-audio/visual medical devices.

Safety precautions

Warnings

Do not modify this equipment without authorization from the manufacturer!

Precaution should be taken during transportation of the system. It is recommended that the operator use caution when wheeling the unit over doorstops and/or into elevators to ensure their safety and prevent damage to the unit.

For Customers In North America

This equipment complies to 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 when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy, which may cause harmful interference to radio communications.

You are cautioned that any changes or modifications not expressly approved in this manual could void your authority to operate this equipment

Environmental considerations

Thank you for buying a product which contributes to a reduction in pollution, and thereby helps save the environment. Our products reduce the need for travel and transport and thereby reduce pollution. Our products have either none or few consumable parts (chemicals, toner, gas, paper). Our products are low energy consuming products.

Battery Handling

Batteries for the Remote Control are Long Life Alkaline batteries; please follow guidelines on the packing material for handling and disposal of the batteries.

The system enclosed battery (rechargeable battery for use in temporary relocation) in this product is non-user replaceable and should be removed by a qualified service technician only.

CAUTION
RISK OF EXPLOSION IF BATTERY IS REPLACED BY AN INCORRECT TYPE. DISPOSE OF USED BATTERIES ACCORDING TO MANUFACTURER INSTRUCTIONS.

Production of Products

Our factories employ efficient environmental methods for reducing waste and pollution and ensuring the products are recyclable.

Waste handling

EU Battery and WEEE Directives

For product safety and data integrity reasons the permanently affixed battery should only be removed or replaced professionally by a repair technician or waste management professional. Please contact Avizia or an authorized service agent if the product fails to perform due to malfunction of the permanently affixed battery.



This symbol on the product, battery or packaging means that the product and/or battery should not be disposed of with your household waste.

It is your responsibility to dispose of your waste equipment and batteries separately from your household waste and in accordance with local laws and regulations. The correct disposal of your old equipment and batteries will help prevent potential negative consequences for the environment and human health.

Please use the nearest waste collection facility as directed by your municipality or your retailer.

Warnings

Not Intended For Dialing Emergency Medical Services

The CA300 is not intended to make emergency calls. In the event of an emergency, the user should use a telephone or device other than the CA300 to call local emergency services.

Use medically approved devices

Ensure that any device connected to the CA300 power outlets conforms to IEC 60601-1 standards in order to maintain compliance. Connecting electrical equipment to the CA300 effectively creates a new system, which can result in a reduced level of safety.

Loss of Connectivity

During the use of the CA300, a healthcare professional may lose connectivity with the system. Loss of connectivity can result from power outages, network outages, failure in the CA300 software/hardware, or other causes. Loss of connectivity can prevent a health care professional from completing a patient session in a timely manner. In cases where time is critical, the user should not use the CA300 and seek an in-person examination from a licensed health care professional.

Delay or Choppiness of Audio or Video Transmission

The CA300 may operate at a delay of up to 150 milliseconds, depending on network condition. This means that the provider may experience the audio and video transmissions later than they are really occurring. In cases where the remote health care provider needs to make time sensitive assessments or give instructions this delay may result in misalignment of audio and visual transmissions to the real-time procedure and/or inappropriate treatment or diagnosis.

Proper Training Is Required

Healthcare professionals using the CA300 should be sufficiently trained and familiar with the Installation and User Guide and the instructions for use. Please refer to this guide under “Troubleshooting”, “Safety Precautions” and “Operator Safety.”

See <http://avizia.com>.

Audio and Video Distortions

The CA300 can experience audio and video distortions due to network latency, software/hardware malfunction, insufficient bandwidth, or for other reasons. If audio or video is not of sufficient quality for the intended use of the CA300, please refer to:

- this guide under “Technical Specifications” and “Troubleshooting,” or visit: <http://avizia.com/support>
- Cisco SX20 codec documentation at: <http://cisco.com/go/sx-docs>

Network and Signal Input/Output

The network and signal input/output ports must only be connected to Low Voltage SELV connections.

Operator safety summary

For your protection, please read these safety instructions completely before operating the equipment and keep this manual for future reference. The information in this summary is intended for persons who operate the equipment as well as repair (servicing) personnel. Carefully adhere to all warnings, precautions and instructions on the apparatus, and the ones described in the operating instructions.

Also, adhere to safety guidelines found in manuals for any peripheral equipment.

**This system contains no user-serviceable**

parts: The system enclosed battery (rechargeable battery for use in temporary relocation) in this product is non-user replaceable and should be removed by a qualified service technician only.



To avoid risk of electric shock, this equipment must only be connected to a supply mains with protective earth.



Lower before transporting: For your safety and to protect the CA300, fully lower the work surface before transporting the system. Pushing or pulling the system with any part of the system other than its handle may result in damage to the system.

**Traversing thresholds and obstacles on the**

ground: Use the system handle to PULL the system safely across thresholds, cords, cables, and other potential obstacles on the ground. Always fully lower the work surface before transporting the system.

- **Water and moisture** - Do not operate the equipment under or near water - for example near a bathtub, kitchen sink, or laundry tub, in a wet basement, or near a swimming pool or in areas with high humidity.
- **Cleaning** - Unplug the apparatus from the wall outlet before cleaning or polishing. Please adhere to the general cleaning guidelines found in this document's section: "Cleaning the System."
- **Power-Cord Protection** - Route the power cord so as to avoid it being walked on or pinched by items placed upon or against it, paying particular attention to the plugs, receptacles, and the point where the cord exits from the apparatus.
- **Mobility** - Before transporting the system unplug the power cord and wrap it around the cable hook. Also ensure that the camera and display are in the operational position (facing forward) and not in the maintenance position (facing upward). Use the system handle to maneuver the system. Pull the system over thresholds, cords, cables, and other obstacles on the ground. Fully lower the work surface before transporting the system.
- **Ventilation** - Do not block any of the ventilation openings of the apparatus. Install in accordance with the installation instructions. Never cover the slots and openings with a cloth or other material. Never install the apparatus near heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- **Attachments** - Only use attachments as recommended by the manufacturer.
- **Accessories** - Use only accessories intended for use with this system.
- **Lightning** - Unplug this apparatus during lightning storms or when unused for long periods of time.
- **Servicing** - Do not attempt to service the apparatus yourself as opening or removing covers may expose you to dangerous voltages or other hazards, and will void the warranty. Refer all servicing to qualified service personnel.
- **Opening the System** - Do not open system service panels while system is in use.
- **Storage** - If you need to store the system, ensure that it is stored in a controlled environment to avoid damage. Refer to the codec documentation for further guidelines.
- **Repacking** - We recommend you save and store the system's packing materials. They make for an ideal container with which to transport the system.
- **Damaged Equipment** - Unplug the apparatus from the outlet and refer servicing to qualified personnel under the following conditions:
 - When the power cord or plug is damaged or frayed
 - If liquid has been spilled or objects have fallen into the apparatus
 - If the apparatus has been exposed to rain or moisture
 - If the apparatus has been subjected to excessive shock by being dropped, or the unit has been damaged
 - If the apparatus fails to operate in accordance with the operating instructions.

Important safeguards

Using System in a Medical Environment

No currently available technology can completely substitute the in-person physical examination of an individual patient. Avizia Telemedicine products provide high quality audio and video experiences; when used properly, these products provide a valuable tool for medical professionals. The use and value of the system will vary depending on the specific circumstances of the patient condition, data transmission speeds, and the capabilities of the local environment. Ultimately, the local medical professional supervising the patient's care should judge how this system is to be utilized.



The leakage current could increase when connected to other equipment.

Warning on Power Connection

Use only with the supplied power cords or cords that meet local hospital-grade requirements. Users in the United States and Canada should use hospital-grade cords that meet the following requirements:

	United States	Canada
Plug Type	Hospital Grade	Hospital Grade
Cord Type	SJT3 x 16 AWG	SJT3 x 16 AWG
Minimum Cordset Rating	13A/125V	13A/125V
Safety Approval	UL	UL

NEVER USE AN EXTENSION CABLE TO POWER THE SYSTEM.

ElectroStatic Discharge (ESD)

When subjected to an electrostatic discharge the Precision-HD camera image may suffer momentary interruption - this will self-recover in a few seconds after the discharge.

To avoid excess electrostatic discharge, floors should be wood, concrete or ceramic tile. If floors are covered with synthetic material, the relative humidity should be at least 30%.

Equipment markings



The “exclamation mark” within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions within literature accompanying the equipment.



Manufacturer



Follow instructions for use.
Suivez les instructions d'utilisation.



Pushing or pulling the system with any part of the system other than the handle may result in damage to the system. Always fully lower the work surface before transport and use the system handle to maneuver.



Use the handle to pull the system safely across thresholds, cords, cables, and other potential obstacles on the ground. Always fully lower the work surface before transporting the system.

CAUTION! This device contains a battery.
ATTENTION! Ce dispositif contient une batterie.

1. **DO NOT** expose battery to high temperatures.
NE PAS exposer la batterie à des températures élevées.
2. **DO NOT** expose this battery to moisture.
NE PAS exposer cette batterie à l'humidité.
3. **DO NOT** subject the battery to mechanical shock or vibration.
NE PAS soumettre la batterie à des chocs mécaniques ou des vibrations.
4. **DO NOT** disassemble this battery.
Ne démontez pas la batterie.
5. **Turn OFF** while not in use.
Coupez lorsqu'il n'est pas utilisé.
6. If the battery will not be used for long periods of time, store in a shaded and dry area. Fully charge the battery every 60 days.
Si la batterie ne sera pas utilisée pendant de longues périodes de temps, magasin dans une zone ombragée et sec. Charger complètement la batterie tous les 60 jours.
7. **Use only dedicated charger.**
Utilisez uniquement le chargeur dédié.

PRODUCT NAME: Li-Ion Battery
Nom du produit: Batterie Li-Ion

BATTERY MANUFACTURER / ADDRESS:
Fabricant de la batterie / Adresse:

ITM Semiconductor Co., Ltd.
82-7 Gwahaksaneop 1-ro, Oksan-myeon,
Cheongwon-gun Ochang, Chungcheongbuk-do,
Korea 363-911

MADE IN KOREA / Fabriqué en Corée

This module contains no user-serviceable parts.
Ce module ne contient aucune pièce réparable par l'utilisateur.

Located on Power Module housed within the worksurface.

NOTICE

No currently available technology can completely substitute the in-person physical examination of an individual patient. Avizia Telemedicine products provide high quality audio and video experiences; when used properly, these products provide a valuable tool for medical professionals. The use and value of the system will vary depending on the specific circumstances of the patient condition, data transmission speeds, and the capabilities of the local environment. Ultimately, the local medical professional supervising the patient's care should judge how this system is to be utilized.

NOTICE

The plug below has a 3 AMP max.

Located on the rear of the system at the bottom of the system column.

Getting started



- Best practices
- System overview
 - Network considerations
 - QuickBoot™ feature
- Console overview
 - Control overview
 - Power indicator LED states
 - Connections overview
- Setting up the system
 - Initial system setup
 - Connecting an auxiliary device
 - Connecting an electronic or digital stethoscope
 - Connecting a laptop
- Turning the system on and off
- Connecting to network
 - Connect to a wired network
 - Connect to a wireless network
 - Change wireless settings

Best practices

Enable Auto-answer

Setting your system to auto-answer can be a good way to make sure you don't miss a call. You can toggle auto-answer on by accessing the Cisco codec menu system with the system console controls.

Press ☒ (OK) to bring up the Home menu and use the Directional pad to navigate the system menu:

- HOME > SETTINGS > **CALL SETTINGS...**
- Configure the auto answer settings

We recommend you download the user documentation for details and advanced Cisco SX20 codec functions. Go to: <http://cisco.com/go/quickset-docs>.

Plug in when storing system

We recommend that the system is plugged in to an electrical outlet when storing the CA300. This ensures that Quick-Boot™ maintains a full charge and is ready when needed.

Use call history for quick redial

When calls are placed, missed or received, navigating to your Recent calls list allows you to utilize contacts quickly.

Press ☒ (OK) to bring up the Home menu and use the Directional pad to navigate the system menu:

- HOME > CALL > **RECENT CALLS...**
- Select contact to call

Save frequently called numbers

You can save frequently called or favorite video numbers to make them that much easier to call.

Press ☒ (OK) to bring up the Home menu and use the Directional pad to navigate the system menu:

- HOME > CALL... select **PHONE BOOK** or **RECENT CALLS...**
- Select contact and choose **SAVE TO MY CONTACTS**

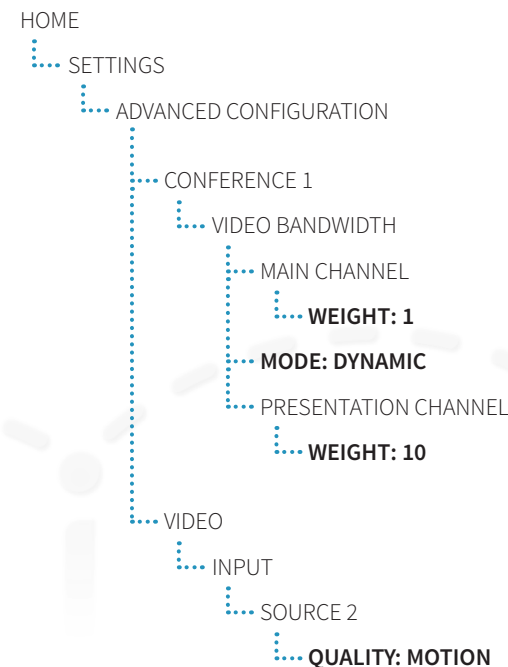
To place a call from the My contacts directory, press ☒ (OK) to bring up the Home menu and use the Directional pad to navigate the system menu:

- HOME > CALL > **PHONE BOOK** > **MY CONTACTS...**
- Select contact to call

Set peripheral sharing resolution

The CA300's content sharing settings are factory set to optimize the bandwidth allocation to the shared content source when in a video call. As call bandwidth decreases, the codec will allocate more bandwidth to the shared content stream from the main source stream. This allows the shared content (scope image, computer presentation, etc.) to be presented as clearly as possible in lower bandwidth situations.

The default settings are found in the following menu tabs, and can be adjusted as needed or desired:



System overview

What's included:

- CA300 system cart
- PrecisionHD Camera
- Display
- Remote control with batteries
- Camera mounting screw (1)
- Display mounting screws (4)
- Hex wrenches and socket wrench
- Key for drawer
- Cables
 - Ethernet cable (5m)
 - Power cord (5m)
 - Power share cord (10cm)

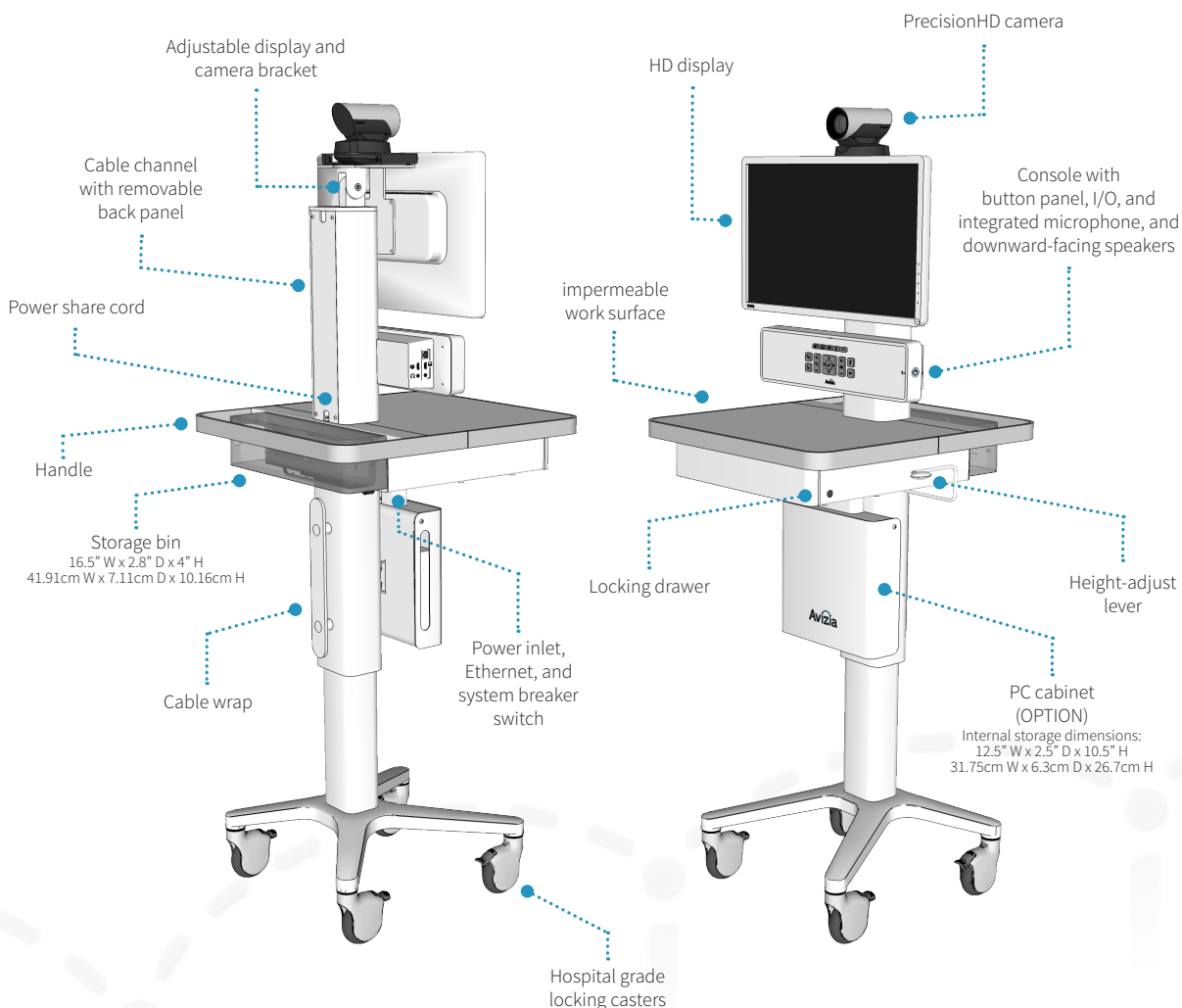
Options:

- MultiSite certificate
- PC cabinet with cables (power, Ethernet, 3.5mm audio, and HDMI to HDMI) — to integrate a user-supplied Ultra-Small Form Factor (USFF) PC.
- HORUS Scope — hand-held video device for capturing images of the body. Optional interchangeable lenses make it ideal for multi-discipline medical applications.
- E-Scope II — electronic stethoscope to enhance ability to hear patient sounds locally and adds audio output capability through a telemedicine device.

Tools Required for Assembly

One Phillips head screwdriver (#2). All other tools and appropriate hardware are provided for assembly.

Refer to the **CA300 Quick Start Guide** (AVZ-CA300-DOC-QSG) included on the outside of the system packaging for initial assembly and setup.



System overview

Network considerations

The network module is built into the console of the CA300 and is a combination of a Wi-Fi 2.4GHz IEEE 802.11 b/g/n Client Bridge and Gigabit switch which passes network from wired or wireless infrastructure to other wired network devices, like the Cisco SX20 endpoint, Laptop or small form factor PC. The network module can be used in one of two ways: connected to the network infrastructure by Ethernet cable or over the Wi-Fi infrastructure.

Please refer to **Connecting to network** in this guide. For additional information and advanced network configuration, please see the [CA300 Network Configuration Guide](http://aviziatech.com/support) found at <http://aviziatech.com/support>.

Wireless connection

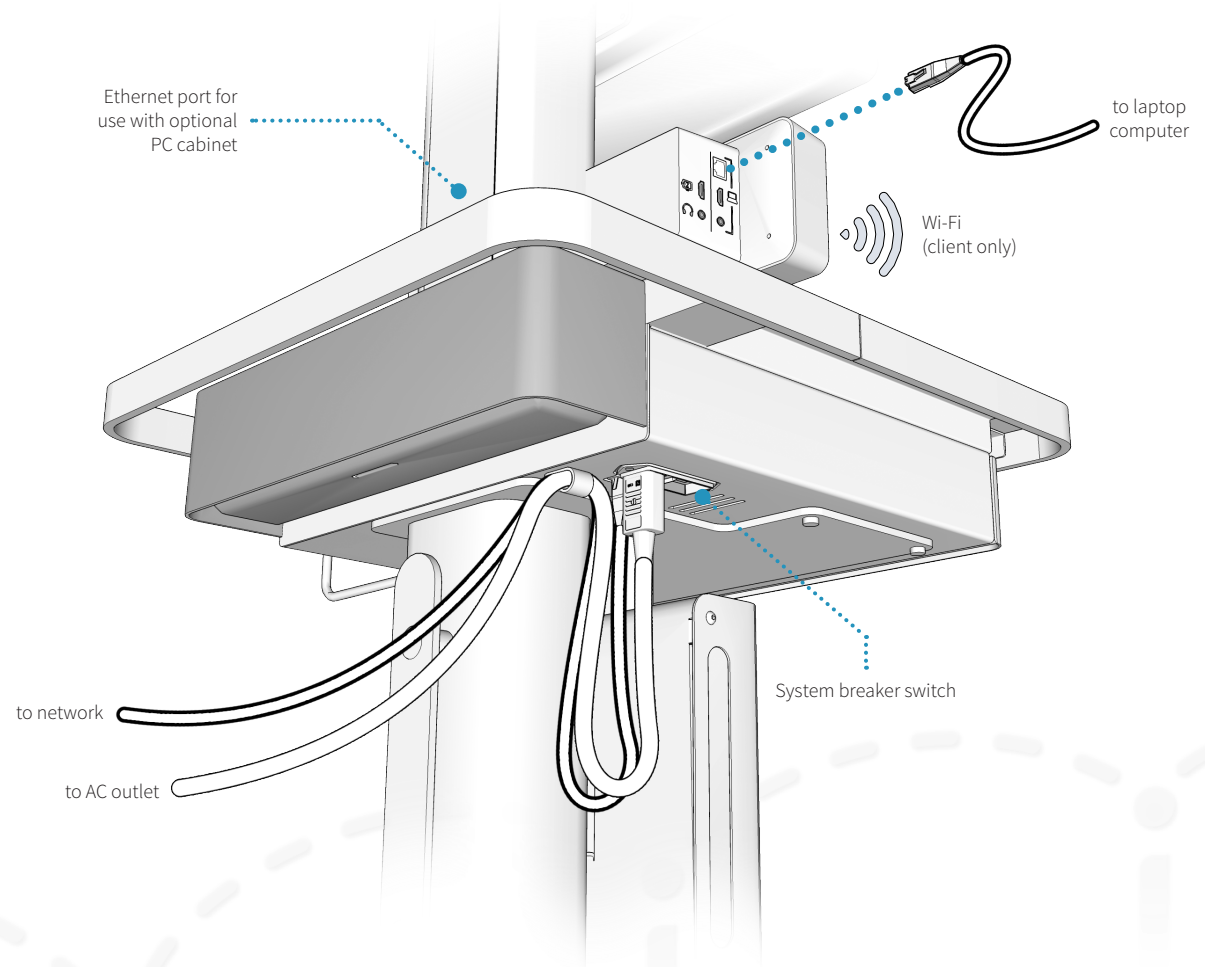
The CA300 can be configured to work on a wireless network. This provides network to the video codec, network out of the console port, and for an optional PC.

Wired connection (Ethernet)

An Ethernet connection from an active network jack into the Ethernet port under the work surface provides network to the video codec, network out of the console port, and for an optional PC.



The wireless radio switches off when the system detects a wired network connection. To enable wireless, disconnect the Ethernet cable under the worksurface.



System overview

QuickBoot™ feature

QuickBoot™ enables the system to go from powered off to ready for a call in under 10 seconds ensuring that it is ready to use when you need it to be.



The system must be plugged in for at least 30 minutes to achieve full transport time (15 minutes).

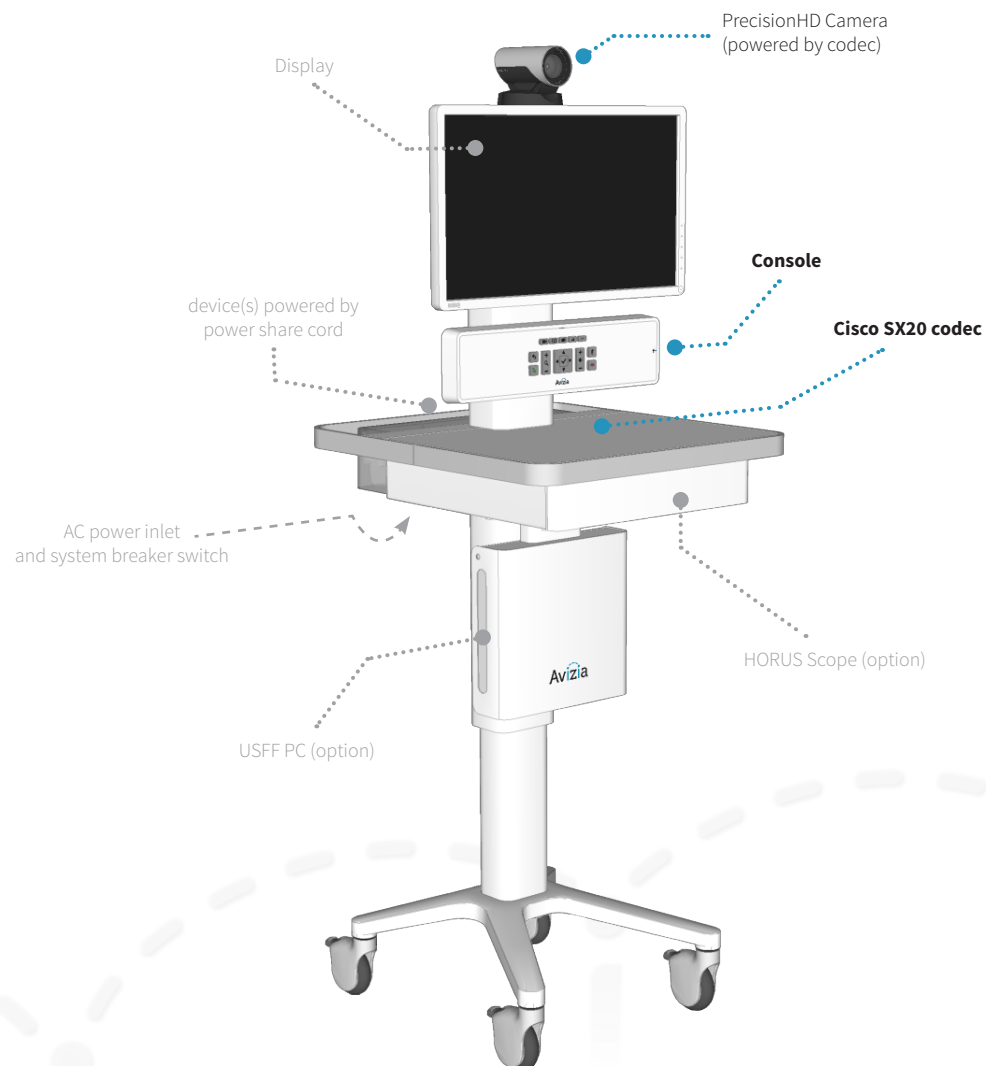
The QuickBoot™ battery charges while the system is plugged into an AC outlet and the breaker switch is in the ON position. When the system is disconnected from AC power, or if the breaker switch is in the OFF position, the power LED on the console will show a blinking blue light indicating that QuickBoot™ is engaged — the QuickBoot™ feature is now powering the critical components for system transport for up to 15 minutes.



QuickBoot™ manages the power for two critical components: the Cisco SX20 codec and the console. All other components using power will be powered down until the system's AC power inlet is supplied power and the breaker switch is in the ON position.



Ensure that all work is saved on the user-supplied PC and that the PC is properly shutdown before initiating QuickBoot™.



Console overview

Control overview

System navigation, call controls, and connectivity to peripheral sources can all be done through the system's console.

Please see [Using the system](#) to understand the console interface and how to use the CA300 system.

Power indicator LED states



Dark

The system has no power and the QuickBoot™ battery is fully discharged.



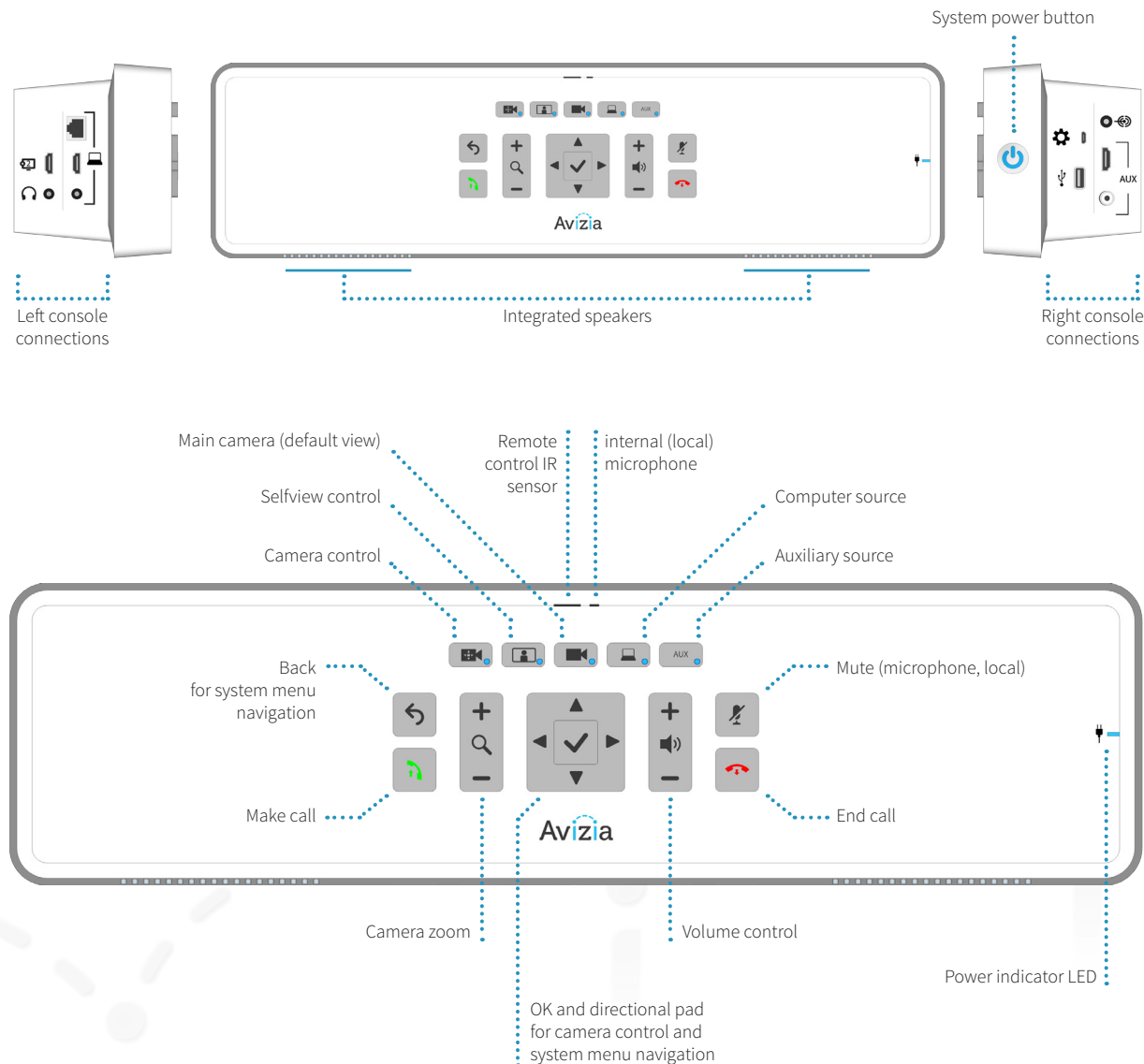
Solid Blue Light

The system is plugged in to an electrical outlet and the QuickBoot™ battery is charging.



Blinking Blue Light

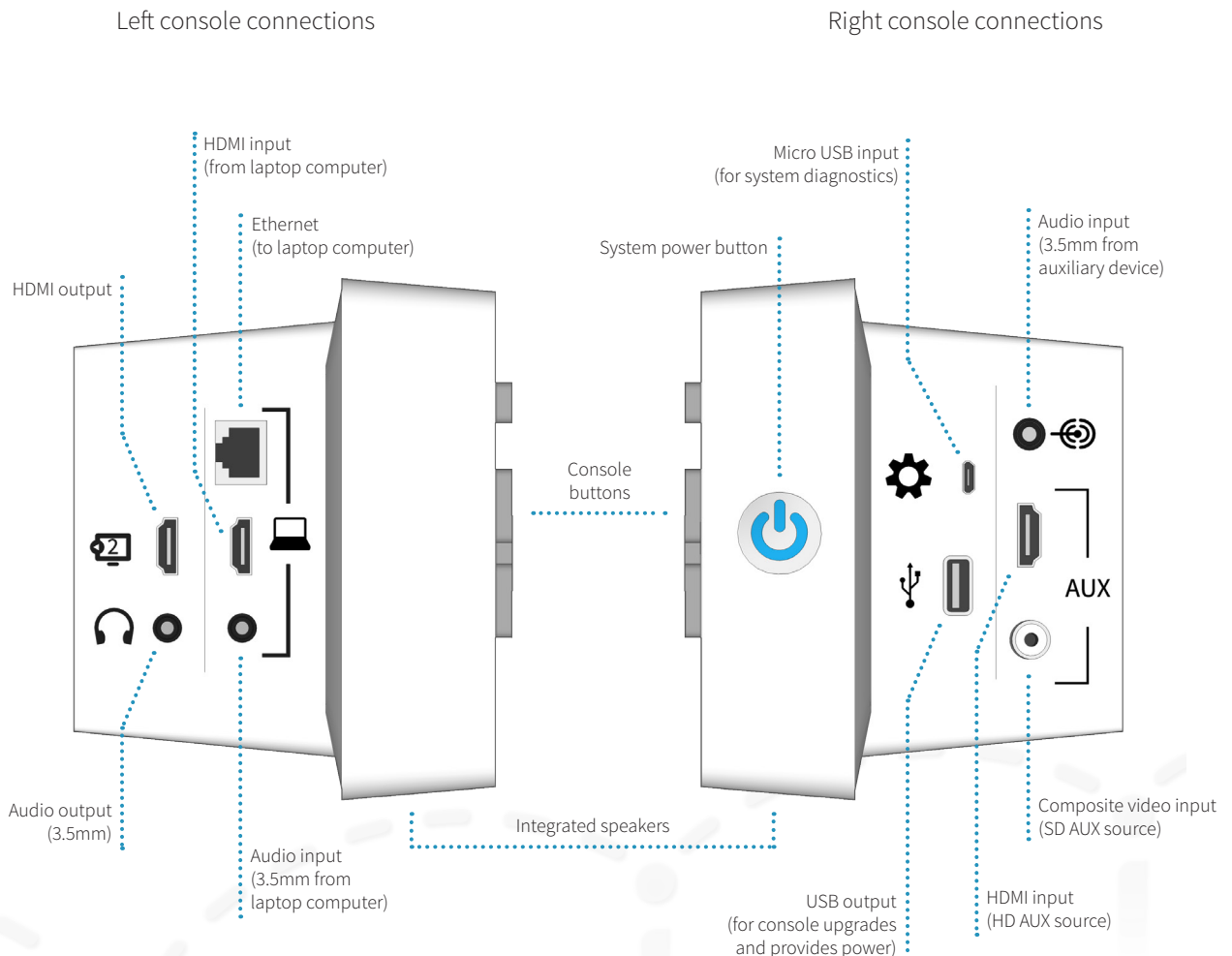
QuickBoot™ is enabled — the system is disconnected from AC power OR the System Breaker Switch is in the OFF position. The QuickBoot™ feature is now powering the critical components for system transport for up to 15 minutes. The system should be plugged in to an active power source as soon as possible to replenish and maintain the QuickBoot™ functionality.



Console overview

Connections overview

The left and right console connections allow the user to connect peripheral devices that will enhance the CA300 system's capabilities

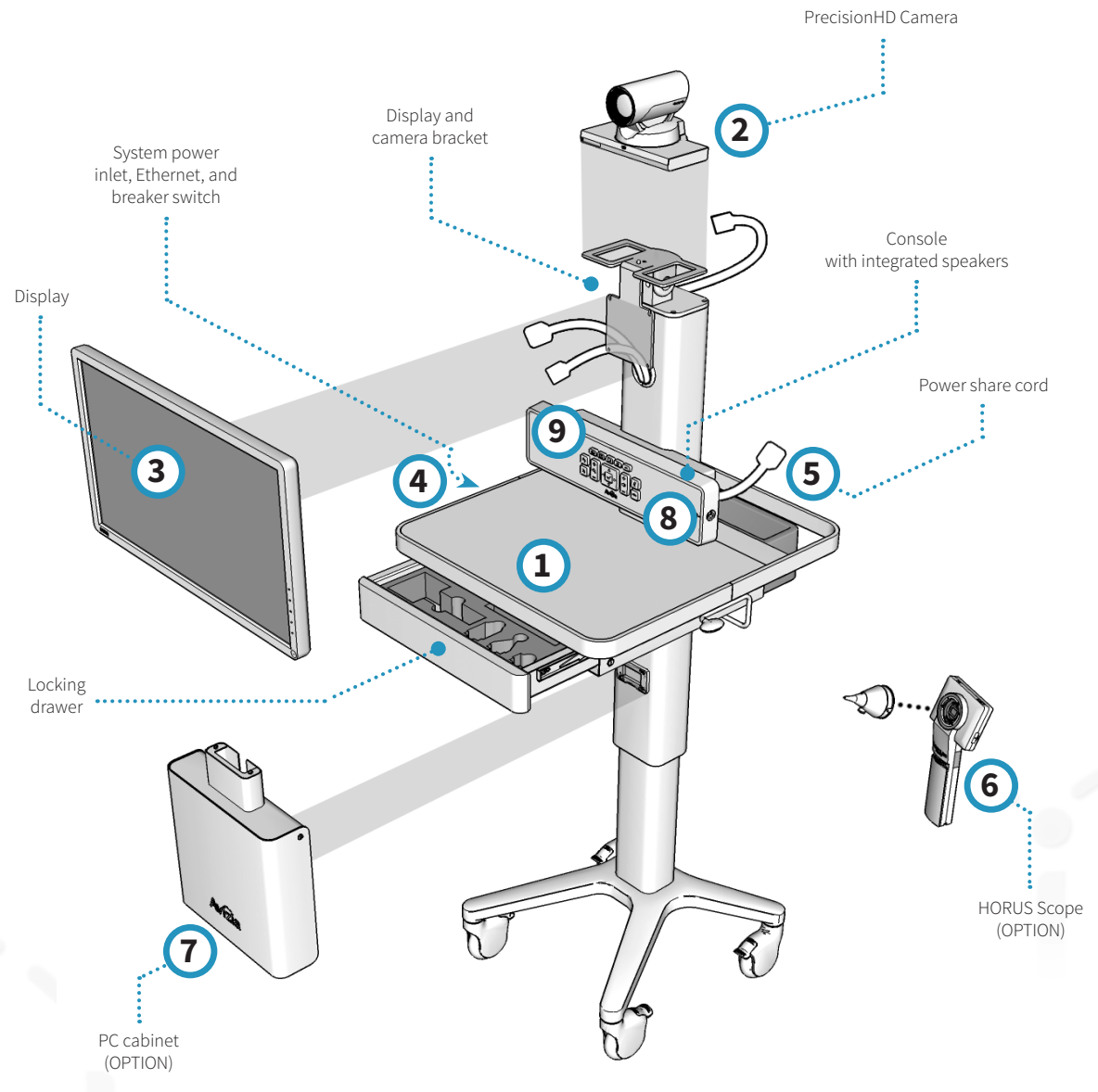


Setting up the system

Initial system setup

Refer to the **Avizia CA300 Quick Start Guide** (included with the system packaging) for procedures pertaining to initial system setup. The guide includes the following setup items:

1. Unpacking the system
2. Mounting and connecting the camera
3. Mounting and connecting the display
4. Attaching the power and Ethernet cables
5. Connecting the power share cord
6. Installing the HORUS Scope option
7. Installing the PC cabinet option
8. Powering ON the system
9. Configuring the system



The **CA300 Quick Start Guide** (AVZ-CA300-DOC-QSG) is included on the outside of the system packaging. It can also be found online at <http://avizia.com/support>.

Setting up the system

Connecting an auxiliary device

Optional AV devices for transmitting images and video can be connected to the CA300.

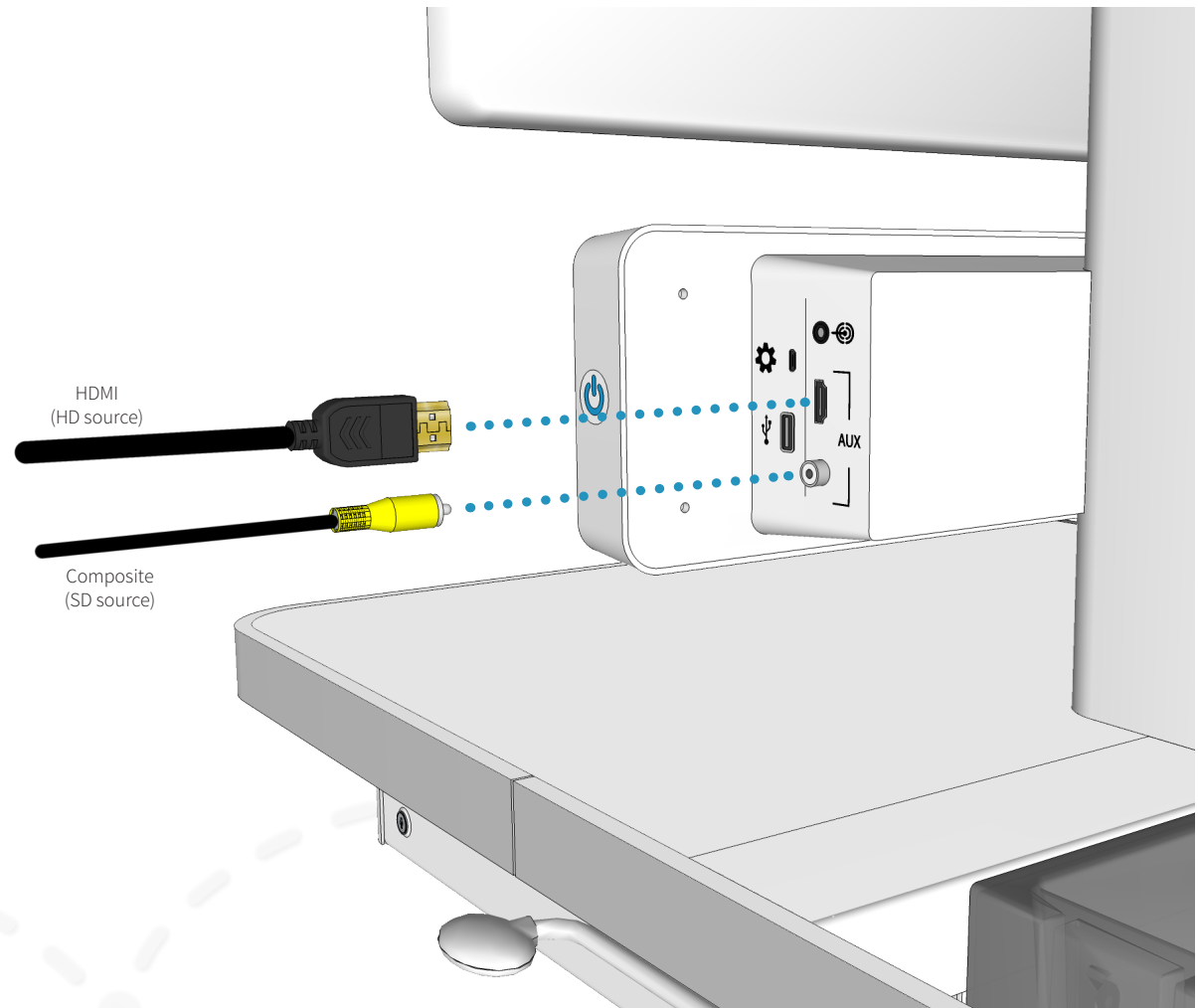
1. Connect an auxiliary device to the HDMI input and/or Composite input. Any device that provides video output and is connected to the system's HDMI or composite input can be displayed on the system: digital scope, examination camera, video feed from ultra sound, etc..
2. Ensure the AUX source(s) are appropriately powered and turned on to be viewed as the AUX source when selected.



Both HDMI (high definition) and Composite (standard definition) inputs can be connected simultaneously. Pressing the AUX button will allow you to toggle through the SD source first, the HD source second, and then to the default (main camera) source.



Audio is not transmitted over HDMI. Only video is transmitted over HDMI.



Setting up the system

Connecting an electronic or digital stethoscope

The optional E-Scope II and other electronic or digital stethoscopes can be connected to the CA300 to transmit the corresponding audio to remote participants.



The CA300 can experience audio distortions due to network latency, software/hardware malfunction, insufficient bandwidth, or for other reasons.

Connect the 3.5mm cable from the stethoscope to the 3.5mm audio input on the system. The audio from the stethoscope is now mixed into the video call.

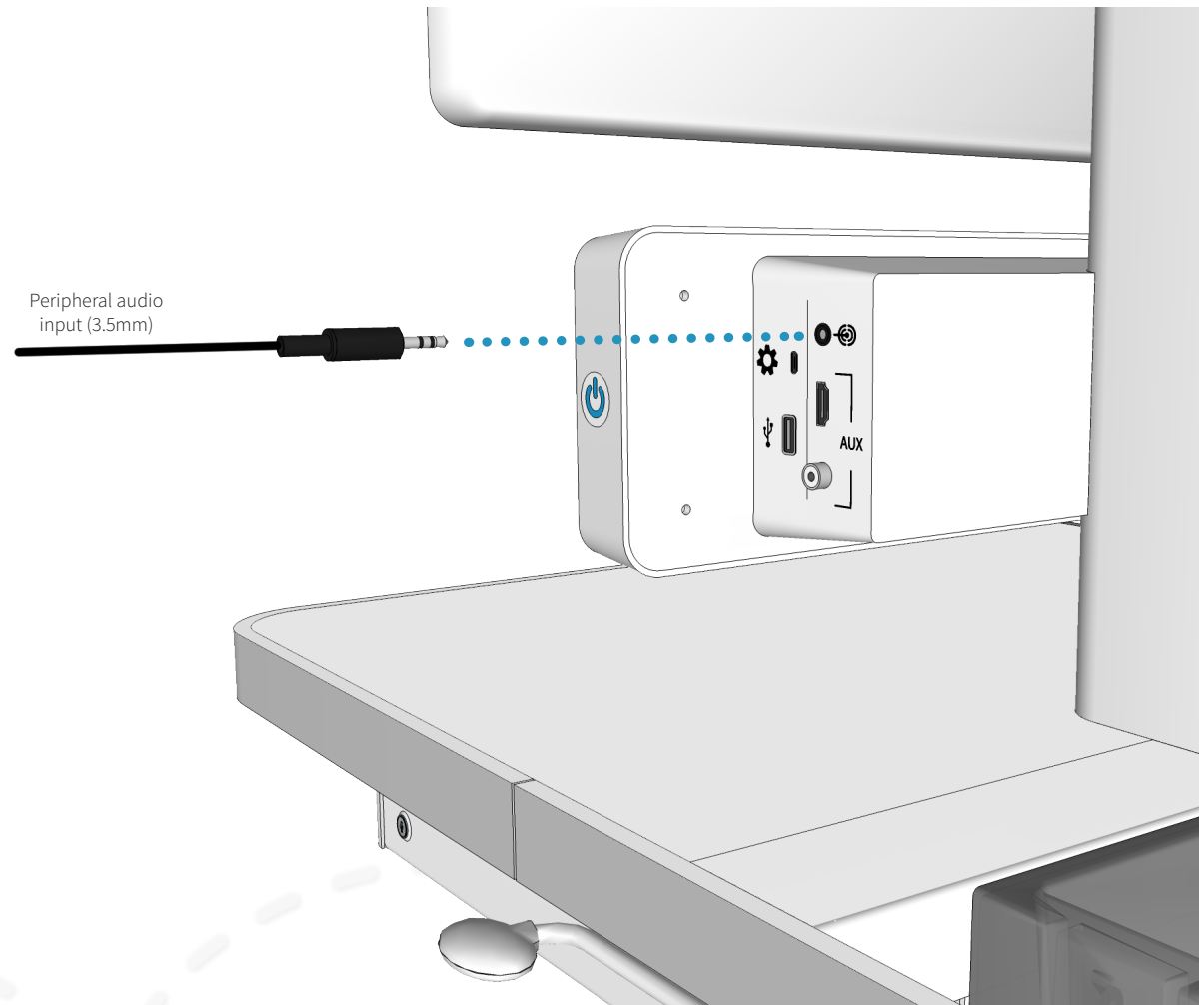


There are three audio inputs on the CA300 which follow a prioritization schedule:

1. Peripheral Audio Input
2. Laptop Audio Input
3. PC Audio Input (with PC cabinet option)

The audio input highest on the list will be the source presented in a video call. This is done to ensure that the peripheral audio input (stethoscope, ultrasound, etc.) can provide the best possible sound without interference from the other inputs.

Unplug the audio connection(s) higher up the prioritization schedule to present the desired audio.



Setting up the system

Connecting a laptop

A laptop computer can be connected to the CA300 to present the laptop's video and audio to video participants.

1. Connect the laptop video out to the CA300's HDMI input for PC. Use an appropriate HDMI adapter if needed.
2. If audio is also required for presentation, connect a 3.5mm cable from the laptop audio out to the 3.5mm PC audio input on the system. The audio from the laptop is now mixed into the video call.
3. If network is needed plug an Ethernet cable from the system to the laptop. The CA300 must first be connected to the LAN (Ethernet or wireless).



The laptop HDMI connection does not support audio. To enable laptop audio use the 3.5mm connector.

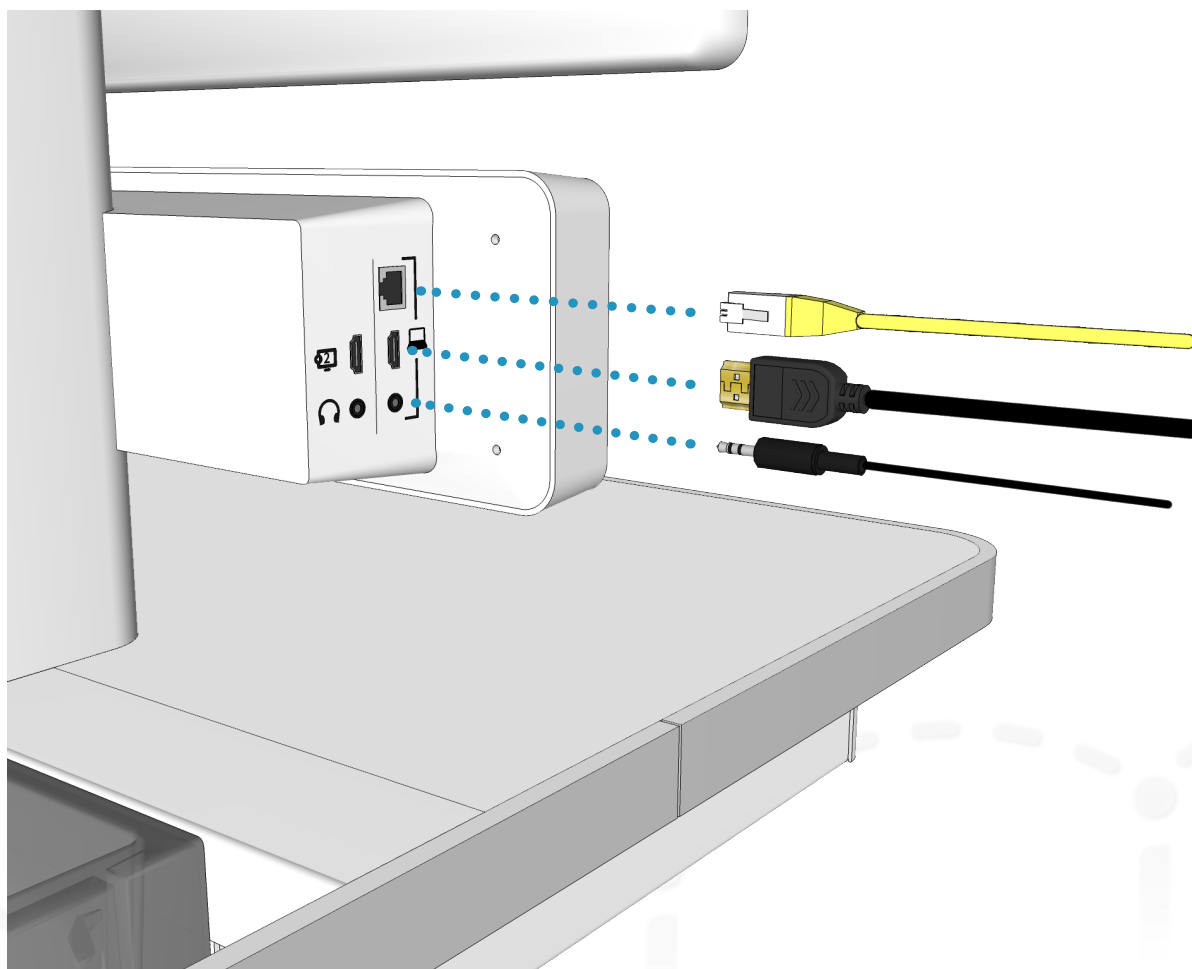


There are three audio inputs on the CA300 which follow a prioritization schedule:

1. Peripheral Audio Input
2. Laptop Audio Input
3. PC Audio Input (with PC cabinet option)

The audio input highest on the list will be the source presented in a video call. This is done to ensure that the peripheral audio input (stethoscope, ultrasound, etc.) can provide the best possible sound without interference from the other inputs.

Unplug the audio connection(s) higher up the prioritization schedule to present the desired audio.



Turning the system on and off

1. Connect the 5m power cord to the power inlet on the bottom of the work surface of the cart.
2. Secure the cord to the cable strain relief (large). If you are intending to connect the system to your network with a network cable, secure the Ethernet cable with the smaller strain relief.
3. Connect the plug to an AC power outlet.
4. Ensure that the System breaker switch is in the ON position at the bottom of the worksurface. This supplies power to the entire system: QuickBoot™, display, codec, and the system console.
5. Press the system power button ON at the side of the console until it illuminates blue. This will boot up the codec (approximately 90 seconds), power the camera, power the display, and provide power to an optional user-integrated PC.

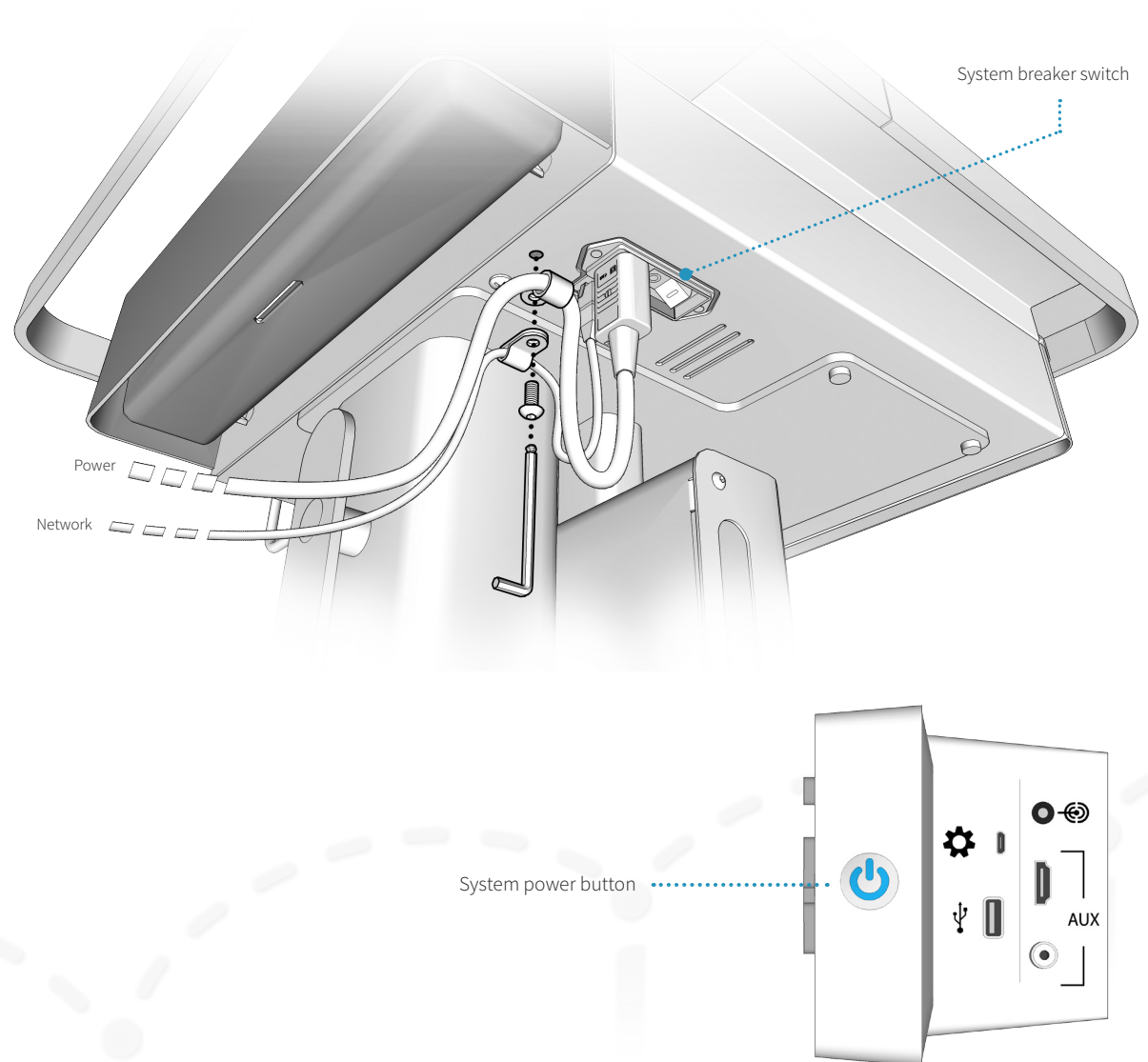


If the display does not turn on when the system is powered up, ensure that the display is powered on by pressing the display's power button.

6. To turn the system OFF, press the System power button.



As long as the system is plugged into an AC outlet and the breaker switch is ON, QuickBoot™ will continue to charge and maintain readiness.



Connecting to network

Connect to a wired network

Connect the provided network cable to the LAN and the Ethernet port on the CA300. The Ethernet port is found under the work surface, left side (from front).

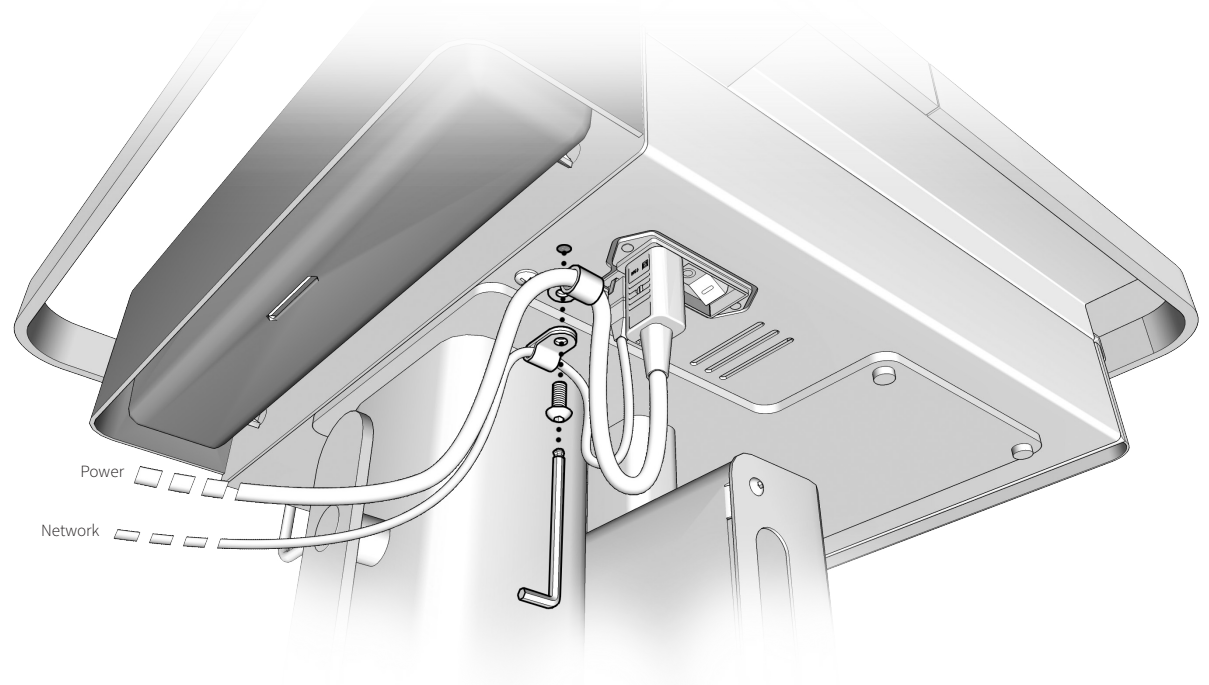


The Wi-Fi radio will be disabled when the system detects an active wired Ethernet connection.

If the LAN has a DHCP service, the system will retrieve a DHCP IP address, which will be displayed in the upper left hand corner of the display.

If a static IP is required for the CA300 then this requires configuring the SX20 endpoint within the CA300.

For more information on setting a static IP address, please reference the Cisco TelePresence Video Systems Getting Started Guide for the SX20: <http://cisco.com/go/sx-docs>.



Connecting to network

Connect to a wireless network



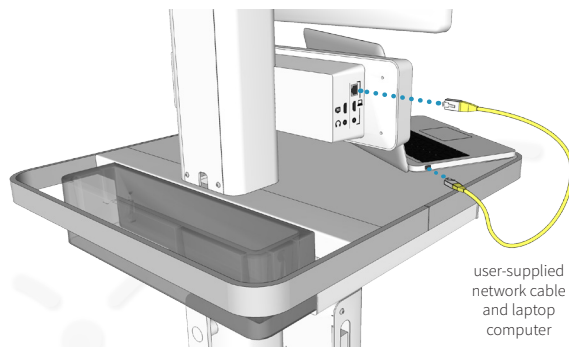
The Wi-Fi radio in the console will be disabled if it detects an active network connection via Ethernet. Remove the Ethernet cable to enable the Wi-Fi radio.



The CA300's Network Module can operate as a DHCP Server to make setup easier. Whenever the system is factory defaulted the DHCP server is enabled to streamline the network configuration process. However, this may create unintended network conflicts.

To avoid this, we recommend that the DHCP Server be disabled by following the procedure provided in the [CA300 Network Configuration Guide](http://avizia.com/support) found at <http://avizia.com/support>.

1. Make sure there is no active LAN connection to the system. (See note above.)



2. Connect a network cable between the console network port and a laptop computer.



The following network settings are temporary for CA300 Network Module configuration. We recommend that you note your laptop's current network settings, and when you are finished with network configuration, you should revert your laptop to its prior configuration.

3. Set the static IP address on the computer to **192 . 168 . 1 . 75** and Subnet Mask **255 . 255 . 255 . 0**.

The Gateway (WIN)/Router (MAC) address is not required.

For detailed instructions for setting a static IP address, please refer to the [CA300 Network Configuration Guide](http://avizia.com/support) found at <http://avizia.com/support>.

4. Open a new web browser window (IE9 or higher, Firefox, Chrome, or Safari) and enter the following IP address in the browser's address bar: **192 . 168 . 1 . 250**.
5. Login to the Network Module: admin/admin.
6. The Network Module information page is displayed. Click  (Wizard) from the set of navigation icons at the top right to initiate the setup wizard.
7. In the Setup your Operation Mode window, select Client Bridge and click Next.
8. The Avizia Setup Wizard will launch and guide you through the settings required to connect the CA300 to a Wi-Fi network.



Be sure to note any changes you make to the user name and password.

9. Upon saving the configuration settings, the Network Module will reboot and connect to the wireless infrastructure (if all settings are correct).
10. Disconnect the Ethernet cable from the console and the laptop. The console's network port is now available to provide network to a network capable device.

Connecting to network

Change wireless settings



Up to three wireless profiles can be stored on the network module. You can manage, edit, and delete profiles in the network module under: NETWORK SETTINGS > WIRELESS > AP PROFILES

1. Connect a network cable between the console network interface and a computer.
2. Set the static IP address on the computer to **192.168.1.75** and Subnet Mask **255.255.255.0**.
The Gateway (WIN)/Router (MAC) address is not required.
3. Open a new web browser window (IE9 or higher, Firefox, Chrome, or Safari) and enter the following IP address in the browser's address bar: **192.168.1.250**.
4. The Network Module's login page will appear. Login with the previously set credentials (default is admin/admin unless it was previously changed).
5. Navigate to the appropriate pages to gather information, create new configurations, or to edit existing settings.



Consult your network administrator before making changes. Editing settings may cause the system to lose network connectivity.

6. To connect to another wireless network, launch the setup wizard by clicking (Wizard) at the top-right of the network module navigation bar.

Refer to the [CA300 Network Configuration Guide](#) found at <http://avizia.com/support> or detailed instruction on manual and advanced network configuration.

Avizia

WIFI-100 AVZ-MFG-WIFI-100

Application Version 1.0.6
Hardware Version 1.0.0
Serial Number 141307556
SSID Victory
Security Type WPA Pre-Shared key

Status

Wireless 2.4GHz Station Connected

Wireless On

Device List

10.42.2.1

WIFI-100 AVZ-MFG-WIFI-100

System

Wireless

Tools

You can use the Status page to monitor the connection status for WLAN/LAN interfaces, firmware and hardware version numbers.

System

Model WIFI-100
Mode Client Bridge
Uptime 37 min 20 sec
Current Date/Time 2011/01/01 00:37:27
Hardware Version 1.0.0
Serial Number 141307550
Application Version 1.0.4

LAN Settings

IP Address 192.168.0.1
Subnet Mask 255.255.255.0
MAC Address 88:DC:96:16:A3:EC
Gateway —
Primary DNS —
Secondary DNS —

Client Bridge Wireless Information

Connect Status Disconnected
Channel —

TIPS

Status page shows the summary of current system status including System (hardware/software version, date/time), Wired (LAN Settings) and Wireless Network (WLAN) information.

Using the system



- Adjusting the system height
 - Raising the work surface
 - Lowering the work surface
- Navigating the menus
- Controlling the camera
 - Camera controls
 - Selfview
- Controlling volume and microphone
 - Adjusting the speaker volume
 - Turning microphone on and off
- Making a video call
 - Placing a call
 - Presenting a laptop
 - Presenting an optional PC
 - Presenting an auxiliary device

Adjusting the system height

The CA300 can be height-adjusted using the HEIGHT ADJUST ARM at the right-side of the work surface.

Raising the work surface

Lift the height-adjust arm while raising the work surface to the desired height.

Lowering the work surface

Lift the height-adjust arm and firmly lower the surface to the desired height.

Lower before transporting

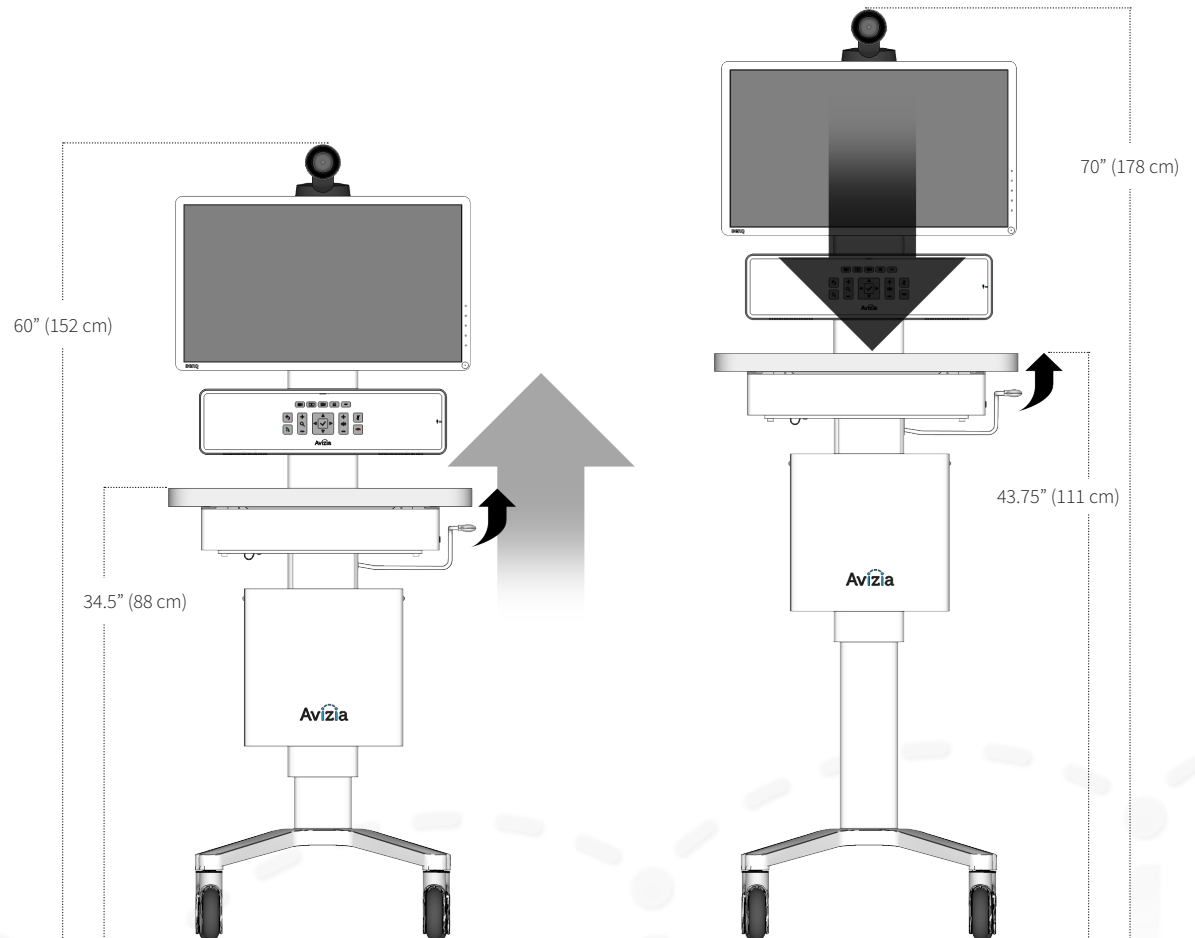


For your safety and to protect the CA300, fully lower the work surface before transporting the system. Pushing or pulling the system with any part of the system other than its handle may result in damage to the system.

Traversing thresholds and obstacles on the ground



Use the handle to PULL the system safely across thresholds, cords, cables, and other potential obstacles on the ground. Always fully lower the work surface before transporting the system.



Navigating the menus

The DIRECTIONAL BUTTONS on the CONSOLE provide navigational control when accessing the system menus. The accompanying remote control may also be used to navigate and control the system with its corresponding buttons.

Refer to the Cisco codec documentation for detailed information on advanced codec functionality, menu navigation, and using the remote control:

<http://cisco.com/go/sx-docs>

1. To show the system menu, press  (OK) at the center of the directional pad.
2. Use the arrow buttons to navigate through the menu structure.



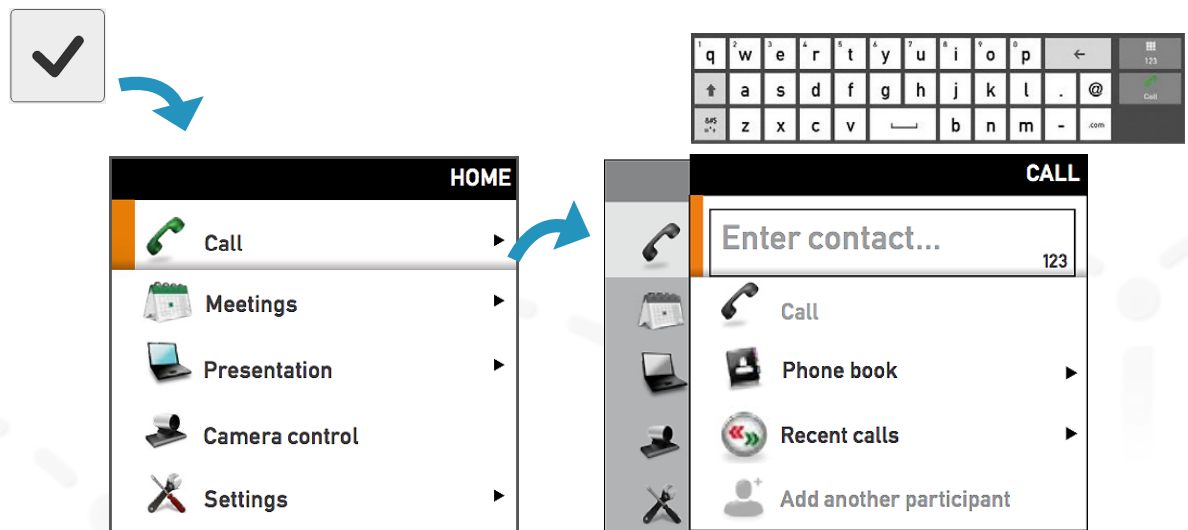
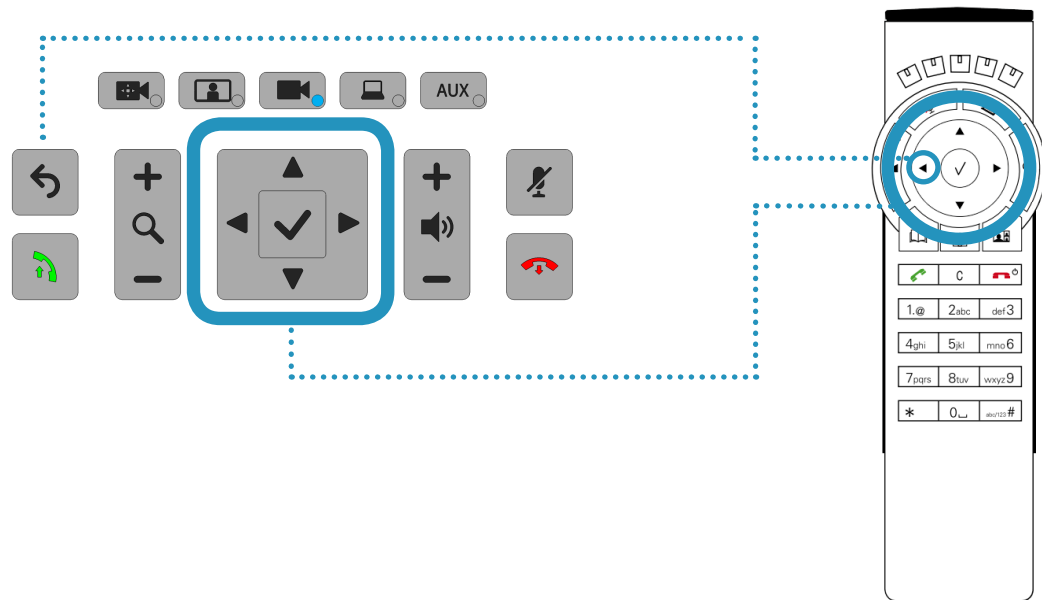
If a menu item shows an arrow, selecting RIGHT will navigate to the next menu level.

To “go back” in the menu structure, press LEFT or  (Back).

3. To type, use the onscreen keyboard or the keypad on the remote. Use the directional arrows to move to the appropriate letter, number, or symbol. Press  (OK) to select the desired character.
4. To quickly exit the menu structure, press  (Disconnect).



When navigating the menu structure while you are in a call, pressing  will not disconnect a call. Exit the menu system and then press  to disconnect a call.



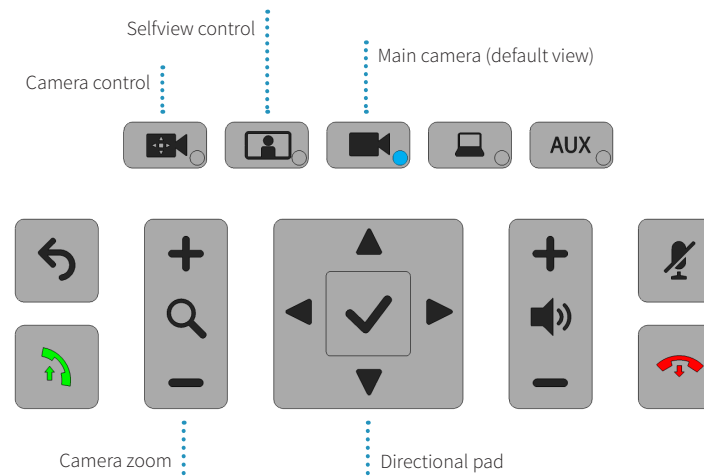
Controlling the camera

Camera controls

Manage the camera's position and zoom by pressing  (Camera Control). Camera control times out after seven seconds.

Pressing the  (Camera Control) enables the DIRECTIONAL PAD to pan and tilt the camera. Use the ZOOM buttons to adjust the camera's zoom level.

When you have finished adjusting the camera, select the source you want to see on the display: Selfview, Main Camera (default), PC, or AUX. If no button is pressed for 7 seconds, the system will default back to the MAIN CAMERA source. Pressing the CAMERA CONTROL button again will also return the system to MAIN CAMERA.



Selfview

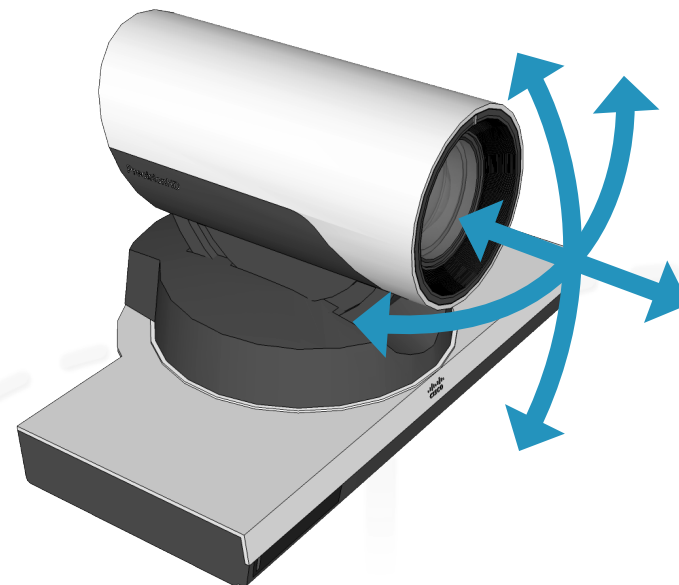
Selfview is the image remote participants will see of you — what is seen from your Main camera.

Press  (Selfview) on the system console to see your selfview.

To adjust Selfview, use the DIRECTIONAL PAD to pan and tilt the camera. Use the ZOOM buttons to adjust the camera's zoom level.



When in a call, pressing  (Selfview) will present the Main camera view as a PIP (Picture-in-Picture) at the lower right of the display.



Controlling volume and microphone

The system microphone is located on the front of the console and is extremely sensitive. Do not block or cover the microphone.

The system automatically manages echo cancellation.

The system speakers are located at the bottom of the system console. This is to ensure that the console is protected from foreign objects, dust, or liquids.

Adjusting the speaker volume

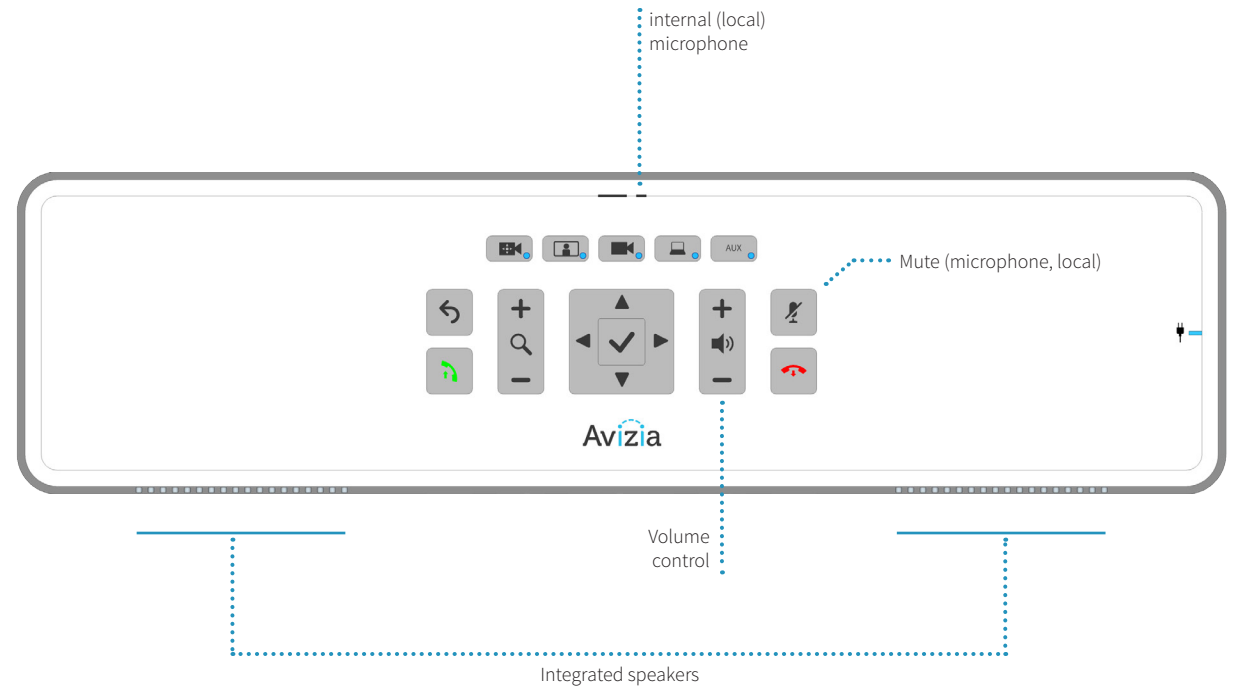
To adjust the volume, use the VOLUME CONTROL buttons on the console.

Turning microphone on and off

To mute your microphone, press  (Mute) to prevent remote participants from hearing you. Press again to toggle the mic back on.



Pressing  (Mute) shuts off the internal (local) microphone only; all connected audio sources, such as a digital stethoscope or laptop audio, will continue to be heard during a call.



Making a video call

Press  (OK) to bring up the Main Menu and select CALL for options to enter a contact number or address, select a phone book entry, or select from the Recent calls list.

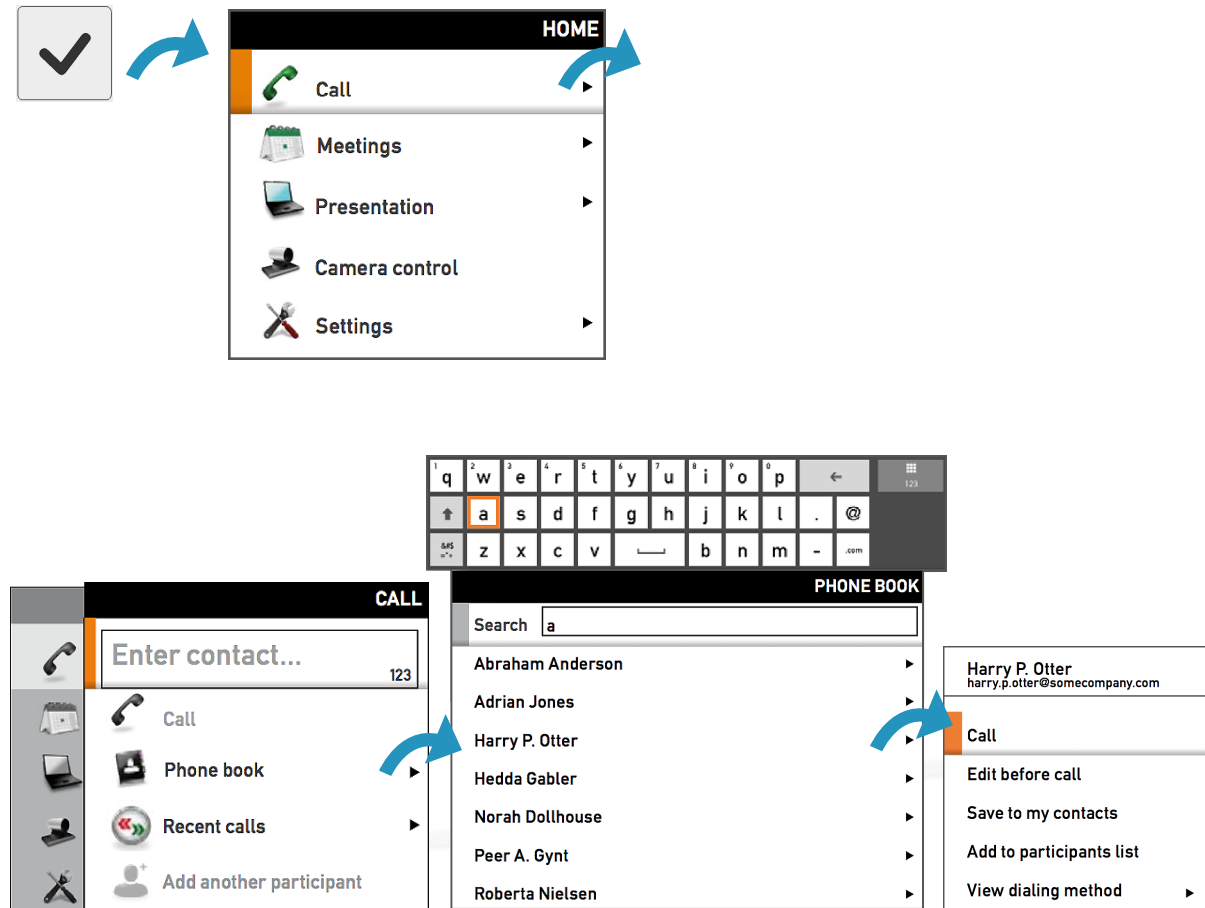
Placing a call

Enter or select the contact to call and press  (Connect) to place a call.

Each contact can be edited, added to personal contact lists, or added as participants to a Multisite call (optional feature). This is done by selecting a contact entry and pressing RIGHT to see these additional entry options, as seen in the images on the right.

Calling options

- **Specifying name, number, or address:** You can place a call by entering the contact number or address directly.
- **Using the phone book:** Navigate to Phone book by going to the Call menu option on the main menu. From the phone book, you can search, scroll through the directory, or create a directory entry, and then select the contact you wish to call.
- **Use the Recent calls list:** A list of recent calls can be accessed, from the Call menu option on the main menu, as a streamlined alternative to manually entering the contact information or using the phone book directory. **TIP:** When not in a call and not in the menu system, pressing  (Connect) will take you directly to the Recent calls list.



Making a video call

Presenting a laptop

A user-supplied laptop can be connected to the CA300 to present during a video call.

Press  (PC) to present the contents of your computer to the call participants. Press  (PC) a second time to toggle the source from laptop to optional PC. Pressing  (PC) a third time will return to Main camera.



An adapter may be needed to connect your computer to the HDMI port on the CA300's console.

The laptop's audio can be integrated into the call if its audio is connected to the 3.5mm laptop audio port. Audio is not transmitted over HDMI. Only video is transmitted over HDMI.



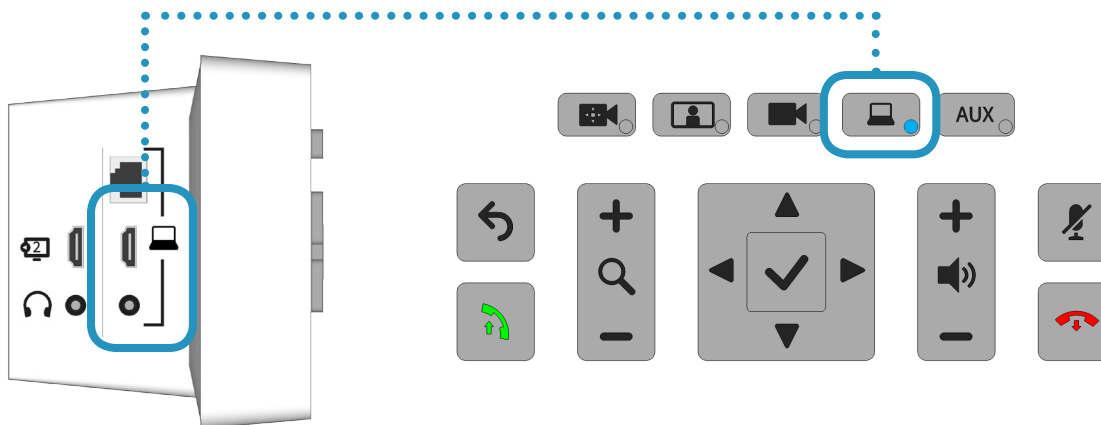
Unplug the auxiliary audio connection to present the laptop audio. There are three audio inputs on the CA300 which follow a prioritization schedule:

1. Peripheral Audio Input
2. Laptop Audio Input
3. PC Audio Input (with PC cabinet option)

The audio input highest on the list will be the source presented in a video call. This is done to ensure that the peripheral audio input (stethoscope, ultrasound, etc.) can provide the best possible sound without interference from the other inputs.



The PC source will time-out after 10 seconds and return to Main camera (default) if there is no laptop connected or detected.



Making a video call

Presenting an optional PC

The PC Cabinet option (AVZ-CA300-ACC-PCC) provides a PC housing and cable kit to integrate an Ultra Small Form Factor (USFF) PC with the CA300. This enables a user-supplied PC to be presented during a video call.

Press  (PC) to toggle through laptop source to PC source to present the contents of your PC to the call participants. Pressing  (PC) a third time will present the Main camera.



Unplug the auxiliary and/or laptop audio connections to present the PC audio. There are three audio inputs on the CA300 which follow a prioritization schedule:

1. Peripheral Audio Input
2. Laptop Audio Input
3. PC Audio Input (with PC cabinet option)

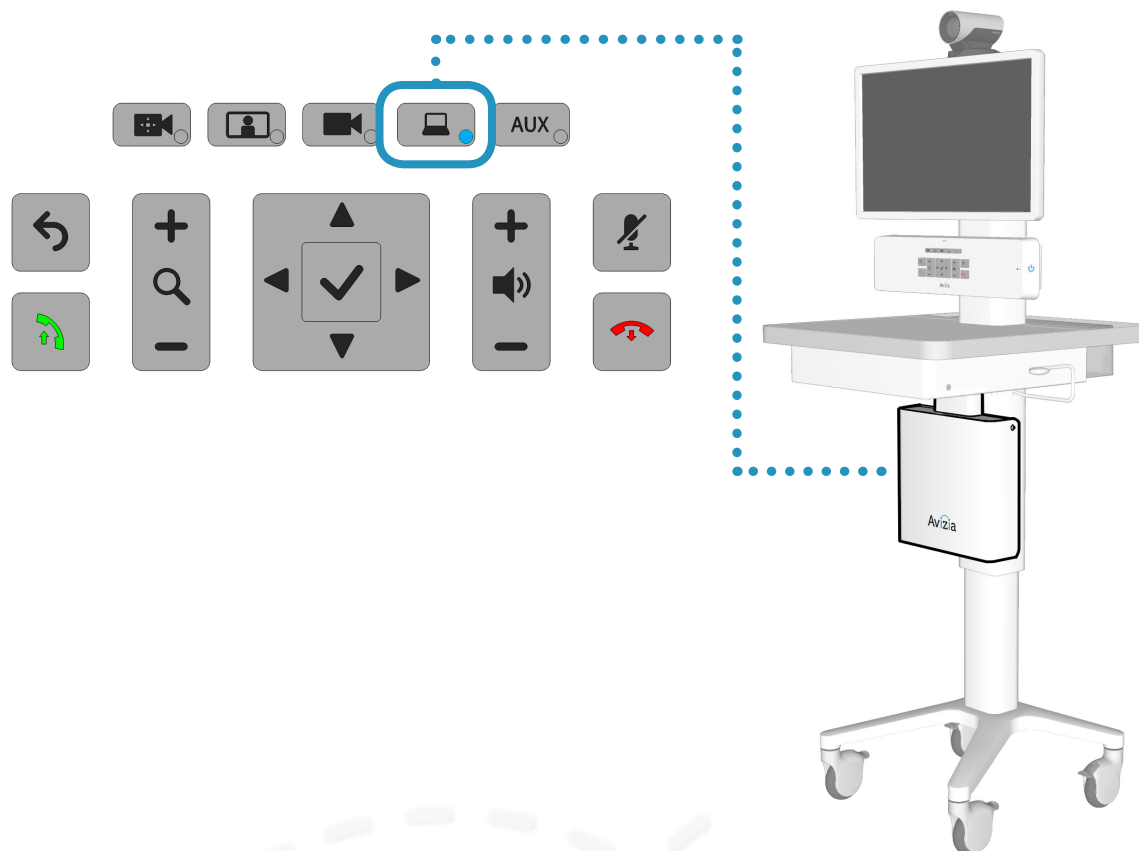
The audio input highest on the list will be the source presented in a video call. This is done to ensure that the peripheral audio input (stethoscope, ultrasound, etc.) can provide the best possible sound without interference from the other inputs.



The PC HDMI connection does not support audio. To enable PC audio use the 3.5mm connector.



The PC source will time-out after 10 seconds and return to Main camera (default) if there is no PC connected or detected.



Making a video call

Presenting an auxiliary device

A high definition and standard definition device can be connected to the CA300 to present during a video call.

Ensure that the connections are secure and powered on. Press **AUX** (AUX) to present the contents of your device to the call participants.



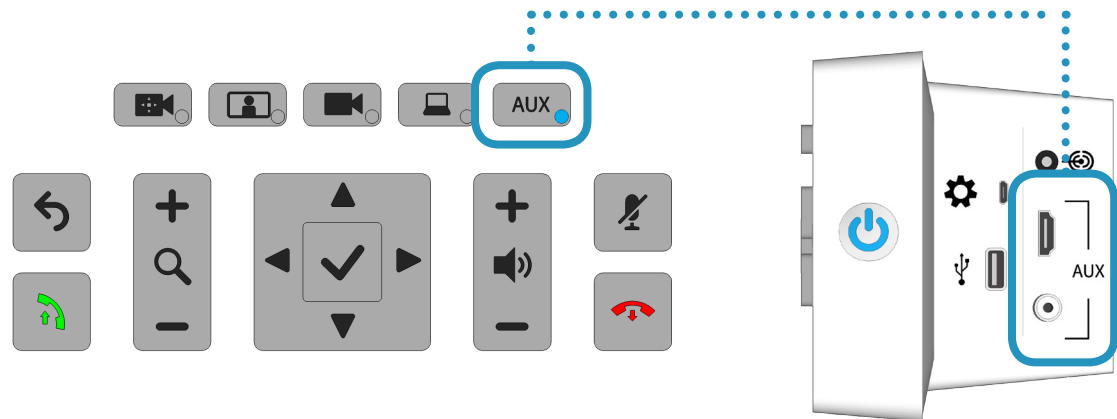
Both HDMI (high definition) and Composite (standard definition) inputs can be connected simultaneously, however, only one source can be presented at a time. Pressing the AUX button will allow you to toggle through the SD source first, the HD source second, and then to the default (main camera) source.



Audio is not transmitted over HDMI. Only video is transmitted over HDMI.



The AUX source will time-out after 10 seconds and return to Main camera (default) if there is no auxiliary device connected or detected.



Maintaining the system



- Displaying system information
- Cleaning and maintenance guidelines
- Battery guidelines
- Installing updates
- Factory defaulting the system
- Storing the system

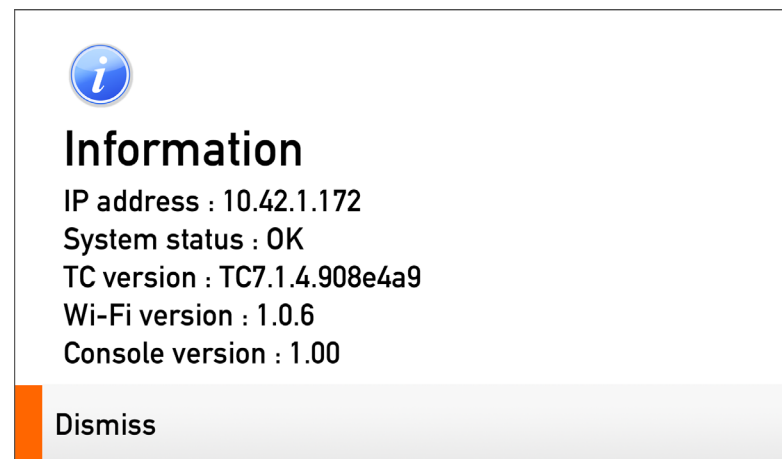
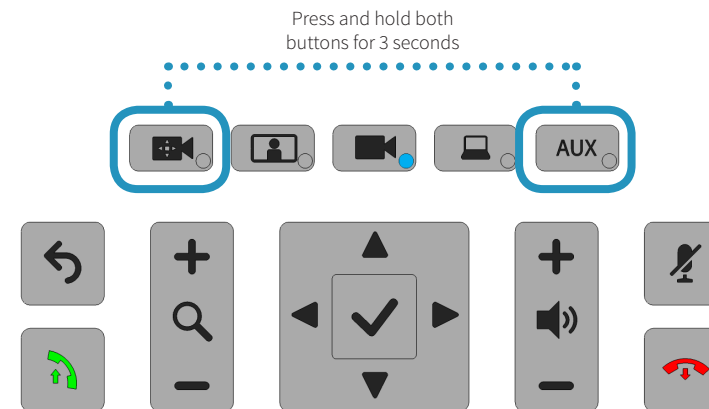
Displaying system information

CA300 system information can be viewed by pressing and holding both the  (Camera control) and the  (AUX) buttons, on the front of the console, for about three seconds.

Press  (OK) to close the information window.

The information provided:

- IP address
- System status
- TC version (codec software version)
- Wi-Fi version (wireless firmware version)
- Console version (console firmware version)



An example of the System Information window.

Cleaning and maintenance guidelines

Cleaning the system

The surface materials of the CA300 are durable and easy to maintain. Follow the general cleaning guidelines, found to the right.

Maintaining the system

The CA300 is designed with minimal maintenance requirements. However, a yearly check on system fasteners and cables (screws, nuts, bolts, cables) will ensure that the CA300 is in good operating order.



Avizia will make available, on request, such circuit diagrams, component part lists, descriptions, calibration instructions or other information which will assist appropriately qualified technical personnel to repair those parts of the equipment which are classified by Avizia as field repairable.

LCD monitor and Camera

- Always disconnect your monitor's power from the system before cleaning. Clean the camera and LCD monitor surface with a lint-free, non-abrasive cloth. Avoid using any liquid, aerosol or glass cleaners.
- Slots and openings on the back or top of the cabinet are for ventilation. They must not be blocked or covered. Your monitor should never be placed near or over a radiator or heat source, or in a built-in installation unless proper ventilation is provided.
- Never push objects or spill liquid of any kind into this product.



System

- All surfaces — painted and plastic cart components — will withstand cleaning by commonly available multi-purpose surface cleaners.
- To avoid risk of electric shock, do not expose electrical components to water, cleaning solutions or other potentially corrosive liquids or substances.
- Do not immerse system or system components in liquid or allow liquids to flow into the cart. Wipe all cleaners off surface immediately using a damp cloth. Thoroughly dry surface after cleaning.
- Do not use flammable cleaners on cart surfaces due to close proximity of electrical power and equipment.
- Never use steel wool or other abrasive materials that will damage the surface finish.
- Do not use strong solvents such as trichloroethylene and acetone. These solvents will damage the surface finish.
- It is recommended that any cleaning solution be tested on a small, inconspicuous area to ensure surface is not harmed.

Battery guidelines



This system contains no user-serviceable parts.

Battery Handling

Batteries for the Remote Control are Long Life Alkaline batteries; please follow guidelines on the packing material for handling and disposal of the batteries.

The system enclosed battery (rechargeable battery for use in temporary relocation) in this product is non-user replaceable and should be removed by a qualified service technician only.

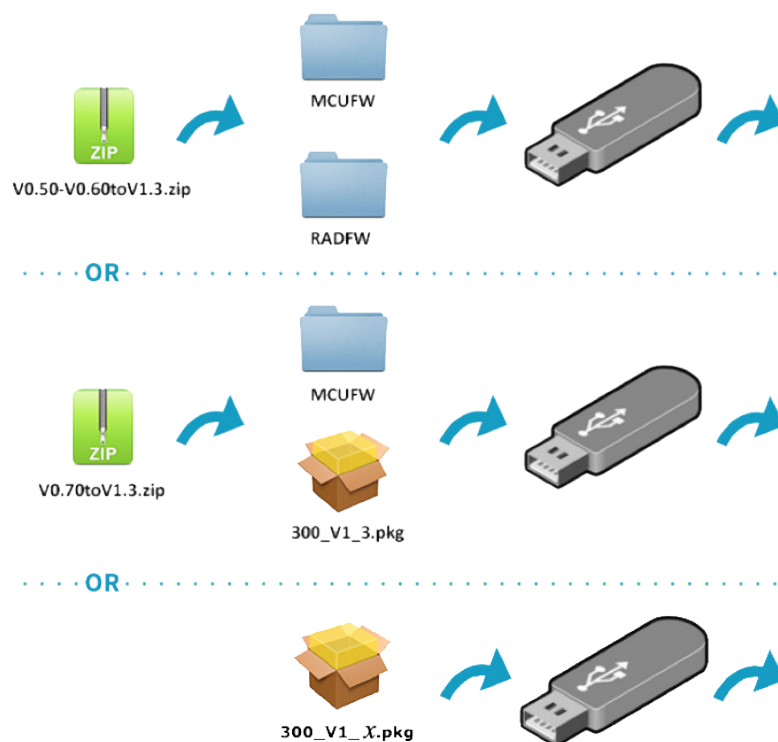
CAUTION

RISK OF EXPLOSION IF BATTERY IS REPLACED BY AN INCORRECT TYPE. DISPOSE OF USED BATTERIES ACCORDING TO APPROPRIATE LOCAL REGULATIONS.

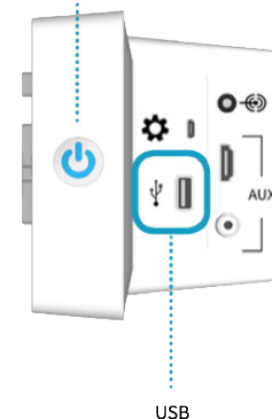
Installing updates

The CA300 firmware version will determine which installation package to choose when upgrading to the latest firmware. Download the appropriate ZIP/PKG file from <http://avizia.com/support> to your computer:

- If the CA300 has firmware version 0.50 or 0.60 then download ZIP file V0.50-V0.60toV1.3.
 - If the CA300 has firmware version 0.70 then download ZIP file V0.70toV1.3.
 - If the CA300 has firmware version 1.3 or higher then download the latest PKG file: 300_V1_(version).pkg.
1. Use an appropriate file extraction application to extract the ZIP file contents (MCUFW and RADFW), or the PKG file as is, into the ROOT directory of a USB thumb/flash drive.
 2. Ensure the CA300 is powered on and in an idle state (not in a call).
 3. Insert the USB drive into the USB port on the side of system console and wait 5-10 seconds for an update prompt.
 4. Use the directional pad to select YES and follow the onscreen prompts to update the firmware file(s).
- NOTE** The update process will take a little over two minutes to complete.
- The firmware update is complete when the system power button turns off.
5. Remove the USB drive.
 6. Press the power button to turn the system ON.



System power button



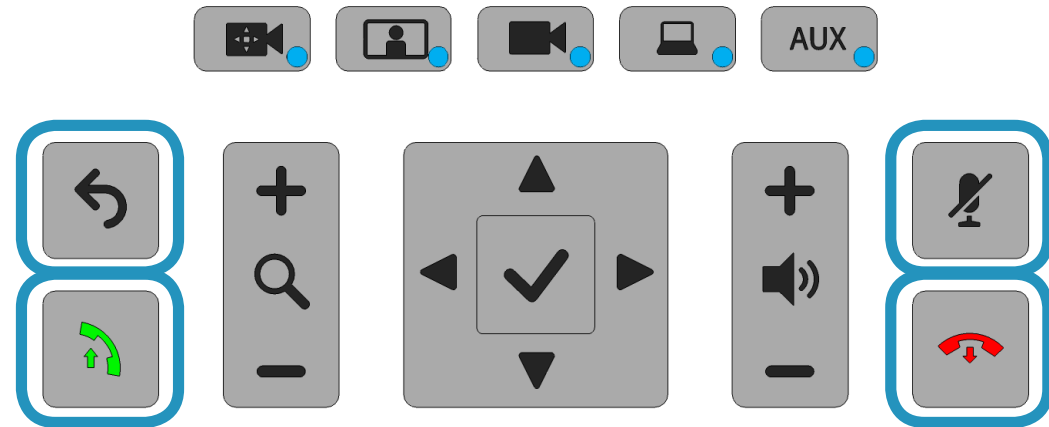
Factory defaulting the system

Should a need arise to remove ALL system configuration settings, press and hold the following buttons at the same time for 5 seconds:

BACK + MAKE CALL + MUTE + DISCONNECT

The source selection LEDs will light up one by one and blink three times before the entire system reboots.

Once the system has fully booted up, it is ready for setup and configuration.



Storing the system

Short-term storage

If the system is to be stored for a relatively short period of time, we recommend that the system be plugged in to an electrical outlet during storage. This ensures that Quick-Boot™ maintains a full charge and is ready when needed.

Long-term storage

If the system is to be stored for an extended period of time:

1. Flip the System breaker switch OFF
2. Unplug from electrical outlet
3. Wrap power cord on the cord wrap
4. Secure or appropriately store peripheral devices and cables
5. Store the system in a cool, dry environment



Troubleshooting



I can't turn the system on.

- Make sure the system breaker switch is in the ON position. This switch is by power inlet connector found on the underside of the worksurface. Then, press the Power button on the right side of the console until the button illuminates blue.
- Ensure the power cord is properly connected to the system and to the AC outlet. You should see the LED power indicator on the front of the console illuminate blue.

Why is the screen black?

- Ensure the system is powered on and the display's power cord and HDMI cable are properly inserted. Press the display's power button to turn on.
- The display setting may have been changed or set incorrectly:
 1. Ensure the display's HDMI cable is properly inserted.
 2. Press and hold the system power button on the side of the console until the blue LED turns off.
 3. Wait a few seconds and turn the system back on. The HDMI setting on the display should be automatically reset and no longer show a black screen.

- Pressing the PC or AUX source buttons when there are no devices connected to the corresponding connections will result in a black screen. The PC and AUX sources will time out after 10 seconds and return to the Main camera (default) view.

I can't make a video call.

- Ensure the system has network connectivity:
 - check Ethernet connection
 - check wireless connection — refer to the **Change wireless settings** in this guide.
- Make sure the system codec's network configurations are properly set and registered. Contact your network administrator or refer to the Cisco SX20 codec documentation at:
<http://cisco.com/go/sx-docs>

When I try to show my laptop or other device I get a black screen.

- Check that the video cable from the laptop or device is in the appropriate connection on the console.
- Make sure the laptop display setting is appropriately configured to mirror or extend to another display.

Technical Specifications

UNIT DELIVERED COMPLETE WITH:

Base System (AVZ-CA300-A-IP40) with Cisco SX20 codec, Cisco 8x PrecisionHD camera, 24" widescreen LCD, integrated microphone and speakers, QuickBoot™, remote control, and cables.

Optional MultiSite

Optional PC Cabinet (AVZ-CA300-ACC-PCC):

- cable kit (audio, HDMI, Network, and power)
- PC cabinet dimensions:
 - external: H 11.93in x W 13in x D 3.31in
H 30.3cm x W 33.04cm x D 8.4cm
 - internal: H 10.5in x W 12.5in x D 2.5in
H 26.7cm x W 31.75cm x D 6.3cm

DISPLAY

- 24 inch widescreen LED backlight monitor
- Maximum resolution: 1920x1080
- Color support: 16.7 million colors
- Response time: 4ms
- Display positions adjustment: tilt
- Features: 178°/178° Wide-Viewing Angles, Flicker-free Technology
- Image contrast ratio: 3000:1 and 20M:1 (dynamic)
- Image brightness: 250 cd/m2
- Kensington Lock Connection

VIDEO INPUTS

- Four (4) High-Definition Multimedia Interface (HDMI) inputs (one designated as main camera input; custom cable); supported formats:
 - 1920x1080
 - 1600x1050
 - 1280x720
 - 1440x900
 - 1280x768
 - 1280x1024
 - 1024x768
 - 800x600
 - 640x480
- One (1) composite input (RCA connector)
- PAL/NTSC

VIDEO OUTPUTS

- Two (2) HDMI output (main and 2nd display); supported formats:
 - 1920x1080@50/60Hz(1080p60)
 - 1280x720@50/60Hz(720p60)

AUDIO INPUTS

- One integrated microphone with echo canceller
- Three (3) 3.5-mm audio inputs, line level:
 - Auxiliary
 - Laptop computer
 - PC computer

AUDIO OUTPUT

- One 3.5-mm audio output, for Head Phones

CAMERA

- Cisco TelePresence PrecisionHD Camera 4xS2
- One-third-inch complementary metal oxide semiconductor (CMOS Sensor)
- 8x zoom (4x optical, 2x digital)
- +15° and -25° tilt, +/- 90° pan
- 43.5° vertical field of view
- 70° horizontal field of view
- Focus distance 0.3m-infinity
- 1920x1080 pixels progressive@60 frames per second (fps)
- Automatic or manual focus, brightness, and white balance
- Far-end camera control
- Kensington Lock Connection

USER INTERFACE

"One-touch" tactile control panel for call control, volume, camera, and video sources
TRC 5 IR remote control for remote system control

BANDWIDTH

- H.323 and Session Initiation Protocol (SIP) up to 6 Mbps point-to-point
- 720p30 from 768 kbps
- 720p60 from 1152 kbps
- 1080p30 from 1472 kbps

VIDEO STANDARDS

H.263, H.263+, H.264

VIDEO FEATURES

- Native 16:9 widescreen
- Advanced screen layouts
- Intelligent video management
- Local auto layout

LIVE VIDEO RESOLUTIONS (ENCODE and DECODE)

- 1920 x 1080@30, 60 fps (HD1080p)
- 1280 x 768@30, 60 fps (WXGA)
- 1280 x 720@30, 60 fps (HD720p)
- 1024 x 768@30, 60 fps (XGA)

- 1024 x 576@30, 60 fps (w576p)
- 800 x 600@30, 60 fps (SVGA)
- 768 x 448@30, 60 fps (w448p)
- 704 x 576@30, 60 fps (4CIF)
- 640 x 480@30, 60 fps (VGA)
- 576 x 448@30, 60 fps (448p)
- 512 x 288@30, 60 fps (w288p)
- 352 x 288@30, 60 fps (CIF)
- 176 x 144@30, 60 fps (QCIF) (Decode only)

AUDIO STANDARDS

G.711, G.722, G.722.1, 64 kbps MPEG4 AAC-LD

AUDIO FEATURES

- CD-quality 20-kHz mono
- One Acoustic echo canceller
- Automatic Gain Control (AGC)
- Automatic noise reduction
- Active lip synchronization

DUAL STREAM

- H.239 (H.323) dual stream
- Binary Floor Control Protocol (BFCP) (SIP) dual stream
- Support for resolutions up to 1080p

PROTOCOLS

H.323, SIP

NETWORK INTERFACES

- Three (3) LAN or Ethernet (RJ-45) 10/100/1000 Mbps
- Integrated Wireless client bridge: IEEE 802.11b/g/n

OTHER INTERFACES

- Three (3) USB inputs:
 - 1 in drawer for charging
 - 1 for upgrades and charging
 - 1 MicroUSB for diagnostics

IP NETWORK FEATURES

- Network module web server
- Domain Name System (DNS) lookup for service configuration
- Differentiated Services (quality of service [QoS])
- IP adaptive bandwidth management (including flow control)
- Auto gatekeeper discovery
- Dynamic playout and lip-sync buffering
- H.245 dual-tone multifrequency (DTMF) tones in H.323
- Date and time support with Network Time Protocol (NTP)

- Packet loss-based downspeeding
- Uniform Resource Identifier (URI) dialing
- TCP/IP
- Dynamic Host Configuration Protocol (DHCP)
- IEEE 802.1x network authentication
- ClearPath

FIREWALL TRAVERSAL

- Cisco TelePresence Video Communication Server Expressway
- H.460.18 and H.460.19 Firewall Traversal

EMBEDDED ENCRYPTION

- H.323 and SIP point-to-point
- Standards-based: H.235v3 and Advanced Encryption Standard (AES)
- Automatic key generation and exchange
- Support in dual stream
- Auto NAT
- SIP ICE

CODEC SECURITY FEATURES

- Management through Secure HTTP (HTTPS) and Secure Shell (SSH) Protocol
- IP administration password
- Menu administration password
- Disable IP services
- Network settings protection

SYSTEM MANAGEMENT (CISCO SX20)

- Support for Cisco TelePresence Management Suite
- Total management through embedded Simple Network Management Protocol (SNMP), Telnet, SSH, XML, and Simple Object Access Protocol (SOAP)
- Remote software upload: Through web server, Secure Copy Protocol, HTTP, and HTTPS
- Remote control and on-screen menu system

DIRECTORY SERVICES

- Support for local directories (My Contacts)
- Corporate directory
- Unlimited entries using server directory
- Lightweight Directory Access Protocol (LDAP) and H.350
- Unlimited number for corporate directory (available with Cisco TelePresence Management Suite local directory: 200 numbers)
- Received calls
- Placed calls
- Missed calls with date and time

PHYSICAL DIMENSIONS

- Depth: 20.5 in. (52 cm)
- Width: 19.4 in. (49.3 cm)
- Height: 60-70 in. (152.4-177.8 cm)
- Weight: 120 lb (54.43 kg)

SHIPPING DIMENSIONS

- With pallet and Accessories Box
- Depth: 32 in. (81.28 cm)
- Width: 32 in. (81.28 cm)
- Height: 82 in. (208.28 cm)
- Weight:
 - with PC Cabinet option: 187 lb (84.82 kg)
 - without PC Cabinet option: 164 lb (74.39 kg)

POWER

- INLET: 100-120VAC, 60Hz 6 amp maximum
- AUXILIARY (Power share): back of system: one country-specific outlet, 3 amp. Maximum

OPERATING TEMPERATURE AND HUMIDITY

- 50 to 95°F (10 to 35°C) ambient temperature
- 20 to 90% relative humidity (RH)
- Atmospheric pressure: 700 to 1060 hPa

STORAGE AND TRANSPORT TEMPERATURE

- 14 to 140°F (-10 to 40°C) at RH 10 to 80% (noncondensing) at RH 20 to 90%
- Atmospheric pressure: 700 to 1060 hPa

APPROVALS AND COMPLIANCE

- ANSI/AAMI 60601-1-3rd edition
- CAN/CSA C22.2 No. 60601-1-08 (2013)
- Compliance with FCC 47 CFR Part 15 Class A
- FDA Class I Medical Device Data System (MDDS)
- Medical Device Directive EN 60601-1 Class I Equipment

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