

CLINiC-W (MS-Windows Devices) Installation and Assembly Manual

For use with Iron Bow Part Numbers:

CLINiC-W-10X24-xx

CLINiC-W-10X27-xx

CLINiC-W-10X24T-xx

Document Part # DOC-UG-CLINIC-W10X

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Safety & Maintenance

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 or servicing personnel. Carefully observe all warnings, precautions and instructions on the apparatus, or the ones described in the operating instructions and adhere to them. Also, adhere to safety guidelines found in manuals for any peripheral equipment.

Care and Handling

- Water and moisture - Do not operate the equipment under or near water, or in areas with high humidity.
- Cleaning - Unplug the apparatus from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners, follow cleaning instructions provided
- Ventilation - Do not block any of the ventilation openings of the apparatus. Install in accordance with the installation instructions.
- Grounding or Polarization – use the power cord provided with this system, do not defeat the safety purpose of the grounding-type plug. A grounding type plug has two blades and a third grounding prong. The third prong is provided for your safety. If the provided plug does not fit into your outlet, consult an electrician.

	United States	Canada
Plug Type	Grounding type 3 Pole Plug	Grounding type 3 Pole Plug
Cord Type	SVT3 x 18 AWG	SVT3 x 18 AWG
Minimum Cord Set Rating	10A/125V	10A/125V
Safety Approval	UL/CSA	CSA

- Plug Acts as Disconnect Device - The socket outlet to which this apparatus is connected must be installed near the equipment and must always be readily accessible.
- Lightning - Unplug this apparatus during lightning storms or when unused for long periods of time.
- Network cables - CAUTION - To reduce the risk of fire, use only No. 26 AWG or larger telecommunication line cord.
- Power-Cord Protection - Route the power cord 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.
- Attachments - Only use attachments as recommended by the manufacturer. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
- Storage - If you need to store the system, ensure that it is stored in a controlled environment to avoid damage:
 - Non-operating temperature: -20°C – 60°C
 - Non-operating humidity (non-condensing): 10%–95%
- Repacking – Do not throw away the carton and packing materials. They may be required if you need to move the system to an alternate location or return the system for maintenance.
- “WARNING – Do not modify this equipment without authorization of the manufacturer.”
- 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. If the equipment is damaged, unplug the apparatus from the outlet and refer servicing to qualified personnel:
 - 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 cabinet has been damaged
 - If the apparatus fails to operate in accordance with the operating instructions.

Cleaning Instructions

CAUTION

- Due to the proximity of electrical power and equipment, flammable cleaners should never be used to clean these products!
- The surface materials of the unit are primarily powder-coated aluminum and are durable and easy to maintain, however they can stain and discolor, so test any cleaners in an inconspicuous place before using.
- Do not allow any liquids to enter the unit, drip down the monitor or accumulate on any surface.
- Please refer to the respective Materials Safety Data Sheets (MSDS) for detailed descriptions for each product from its manufacturer.
- Never use steel wool, Scotch-Brite™ or other abrasive materials to clean the product.
- Use extreme caution when cleaning the camera, as it is delicate and easily broken.
- Use extreme caution when cleaning a display monitor, as they are easily damaged if too much pressure is applied.

General Procedure

1. Verify the system is unplugged from the AC Power outlet before cleaning.
2. Use a soft, clean microfiber cloth or manufacturer supplied disposable cloth for all applications, particularly when cleaning lenses and monitors. Do not spray liquids directly on the surface.
3. Utilize appropriate cleaners for the surface being cleaned.
4. Allow equipment to fully dry prior to plugging into a power source.
5. To facilitate an effective infection control program and ensure proper performance, routinely clean, disinfect, and maintain products in accordance with approved procedures. Specifically, the hospital's Infection Control Administrator should be consulted for cleaning procedures and processes.

Suggested chemical cleaners/disinfectants/solutions for PC CLINiC series:

- Chassis cleaning
 - Non-Abrasive Soap/Detergent: Generally, water and mild non-abrasive soap/detergent or isopropyl alcohol can be used routinely on CLINiC products to maintain proper cleanliness.
 - Where infection control is required
 - A 10% or less bleach solution can be used to disinfect. Remove residue using a clean damp (water) cloth.
 - Branded chemical disinfectant products (test specific product on a sample surface before general use)
 - Metrex CaviWipes
 - Clorox Germicidal Wipes
- Display monitor LCD panel and camera body (not the lens)
 - Do not use any of the following chemicals or any solutions that contain chlorine (bleach), acetone, peroxides, ammonia, ethyl alcohol, benzene, toluene, ethyl acid, or methyl chloride.
 - Branded, ammonia-free LCD cleaning products
 - Zeiss Pre-Moistened Lens Cleaning Wipes
 - CloroxPro Clean Screen Wipes
 - Up to 50:50 isopropyl alcohol to distilled water mixture for general cleaning, using soft microfiber cloth
 - Use 70:30 isopropyl alcohol and distilled water mixture for infection control, using soft microfiber cloth
- Camera Lens
 - Use only branded, ammonia-free cleaning wipes specifically designed for lens cleaning
 - Zeiss Pre-Moistened Lens Cleaning Wipes

Notes and Caution

- Use extreme caution when cleaning the camera and monitor/display. Do not apply undue pressure to the LCD screen, or manually move the camera when it is powered. Damage caused by improper cleaning will void the Iron Bow warranty.
- Do NOT use mineral spirits, acetone, paint thinners, or abrasive cleansers, or any other flammable, harsh or toxic chemicals.
- This document provides general guidelines only. Direction for proper cleaning and infection control is the responsibility of local authority and hospital administration.
- Iron Bow is not responsible for improper cleaning or disinfection in any and all circumstances.

Electrical Safety Information

Compliance is required with respect to the voltage, frequency, and current requirements indicated on the manufacturer's label. Connection to a power source different than those specified herein will likely result in improper operation or damage to the equipment or pose a fire hazard.

There are no user-serviceable parts inside this equipment. There are hazardous voltages generated by this equipment that constitute a safety hazard. Service should be provided by a qualified service technician only. Contact a qualified electrician or the manufacturer if there are questions about the installation prior to connecting the equipment to mains power.

Operating Guidelines

Mounting Guidelines

The system is designed for attachment to a desktop stand, cart or similar supporting structure using the rear 100mm x 100mm VESA mount on the rear of the system chassis. Care should be taken to ensure that any supporting device is designed for 100mm x 100mm VESA mounting and is capable of supporting the weight of the system and any attached peripherals/cables.

Connecting Peripheral Equipment

It is recommended that the supporting device incorporates an AC isolation transformer if the system is to be used with any external peripheral that may have direct skin contact. The optional stand available for this system incorporates a suitable isolation transformer and many mobile carts contain isolated power sources derived from internal rechargeable battery packs. It is also recommended that any external device that may have skin contact are individually certified for such use to avoid risk of injury.

Any AC powered peripheral device must be connected to a separate AC outlet suitable for use with the device as defined by the manufacturer's specification information. In addition, AC power strips or extension cables should not be used with this system.

Ambient Temperature Guidelines

- Operating temperature: 5°C –35°C (ambient temperature)
- Operating humidity: 20%–80% (RH)
- Non-operating temperature: -20°C –60°C
- Non-operating humidity (non-condensing): 10%–90%

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Introduction

The CLINiC family of products from Iron Bow Healthcare Solutions consists of purpose-built telehealth devices that enable the delivery of healthcare clinical evaluation, communications, and observation from a distance.

This user guide covers the assembly and installation of the

Specs	Model	SKU
24" PC CLINiC	W1024	CLINiC-W-10X24-B-xxx
24" PC CLINiC Touchscreen	W1024T	CLINiC-W-10X24T-B-xxx
27" PC CLINiC	W1027	CLINiC-W-10X27-B-xxx

In the base configuration these systems are primarily designed for observational applications, either wall or cart mounted. Both the standard 24" and 27" systems can support a series of option modules allowing them to be used for clinical applications, if required.

The PC CLINiC includes a commercial, high-grade fan less computer supplied with a Windows Pro operating system, a high-definition pan/tilt camera with a 10x optical/10x digital zoom lens, quad infrared illuminators for nighttime or darkened room operation and a high-resolution display. The embedded audio system incorporates beam forming microphones and dual system speakers enabling high quality video and audio calls between two parties or more.

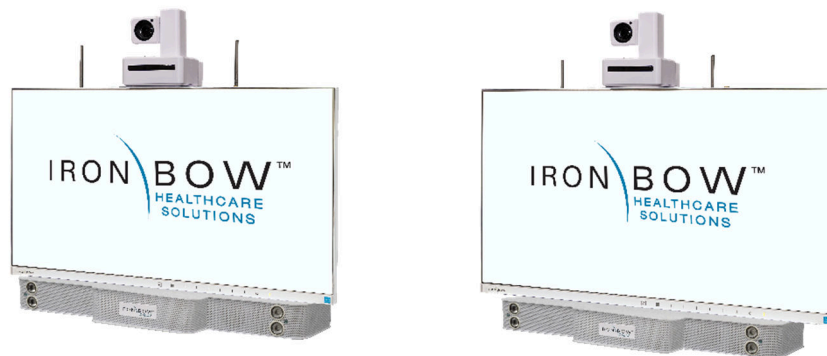


Figure 1 - 24" and 27" PC CLINiC's

You can find additional CLINiC resources, support information and other related telehealth services at www.ironbowhealthcare.com.

System Description

The primary components of the Iron Bow PC CLINiC are shown below:

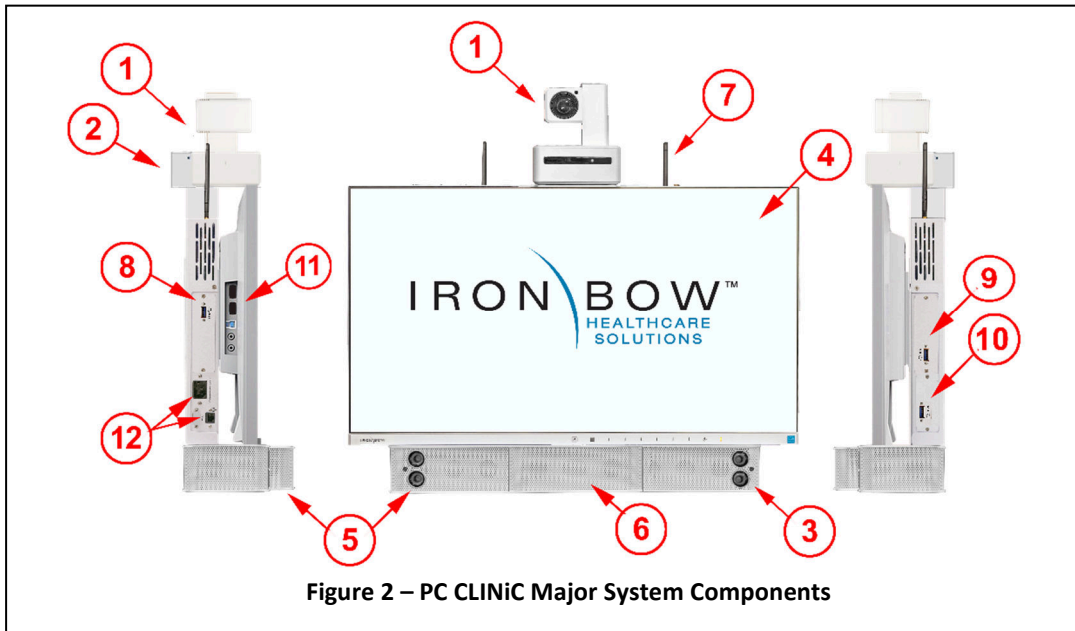


Figure 2 – PC CLINiC Major System Components

<ul style="list-style-type: none">1. System Camera2. Rear Camera Cable Cover3. Infrared Illuminators (2 of 4)4. System Display5. System Audio Bar6. Microphone Array	<ul style="list-style-type: none">7. Wi-Fi Antennas8. USB Port/Option Slot #19. USB Port/Option Slot #210. USB Port/Option Slot #311. Mouse/Keyboard USB Ports12. Power/Network Connector
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Option Modules

The three USB 3 ports that occupy options slots 1, 2 and 3 in the base system can be replaced with option modules to allow connections of an electronics stethoscope, an HDMI Video Input source, and an e-Alert compatible alarm control. These are described in the system connections section of this manual.

Please note, that prior to installing any of the option modules the user must ensure that the software application being used can control the required input device and is capable of supporting the function.

System Assembly

Installing the Camera

Before using the system for the first time, you need to mount and connect the camera to the mounting panel located on top of the CLINiC System.

To install the camera on the CLINiC System:

1. Remove camera assembly from packaging and place carefully on a tabletop.
2. The system is supplied with a camera mounting plate and countersunk bolt to attach the camera to the mounting plate.

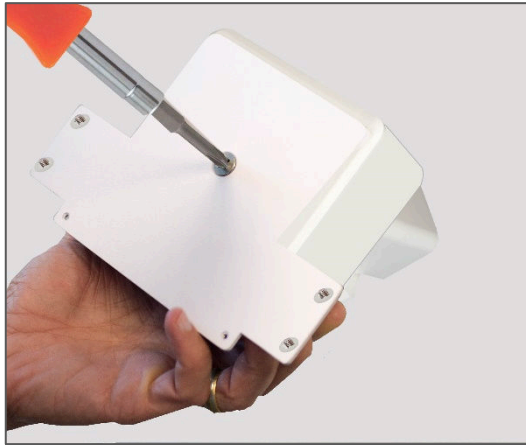


Figure 3 - Attaching Camera to Mounting Plate

3. Ensure the rear connectors of the camera are located at the rear of the mounting plate, as shown below:



Figure 4 - Attaching Mounting Plate to System Chassis

4. Gently place the camera assembly on top of the CLINiC ensuring the holes on the camera mounting plate line up with the mounting holes

5. Attach the camera assembly to the CLINiC chassis using the four retained Philips head screws.
6. Connect the two cables that come out at the top of the CLINiC to the corresponding connectors on the rear of the camera.



Figure 5 - Connecting the two camera cables

7. Attach the rear camera cable cover using the two Phillips head screws provided.
8. Gently remove any packaging foam and tape from camera to complete system assembly.

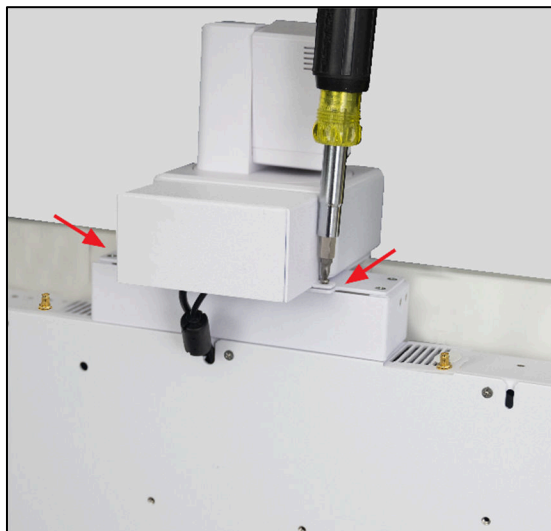


Figure 6 - Attaching rear camera cable cover

Wi-Fi Network Operation

The CLINiC can be connected to either a wired or wireless (Wi-Fi) network. To operate from a Wi-Fi network, the two supplied antennas need to be attached to the system.

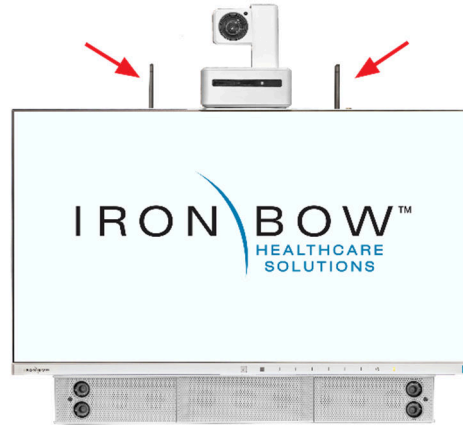


Figure 7 – Location of Wi-Fi Antennas

Installing the Wi-Fi Antennas

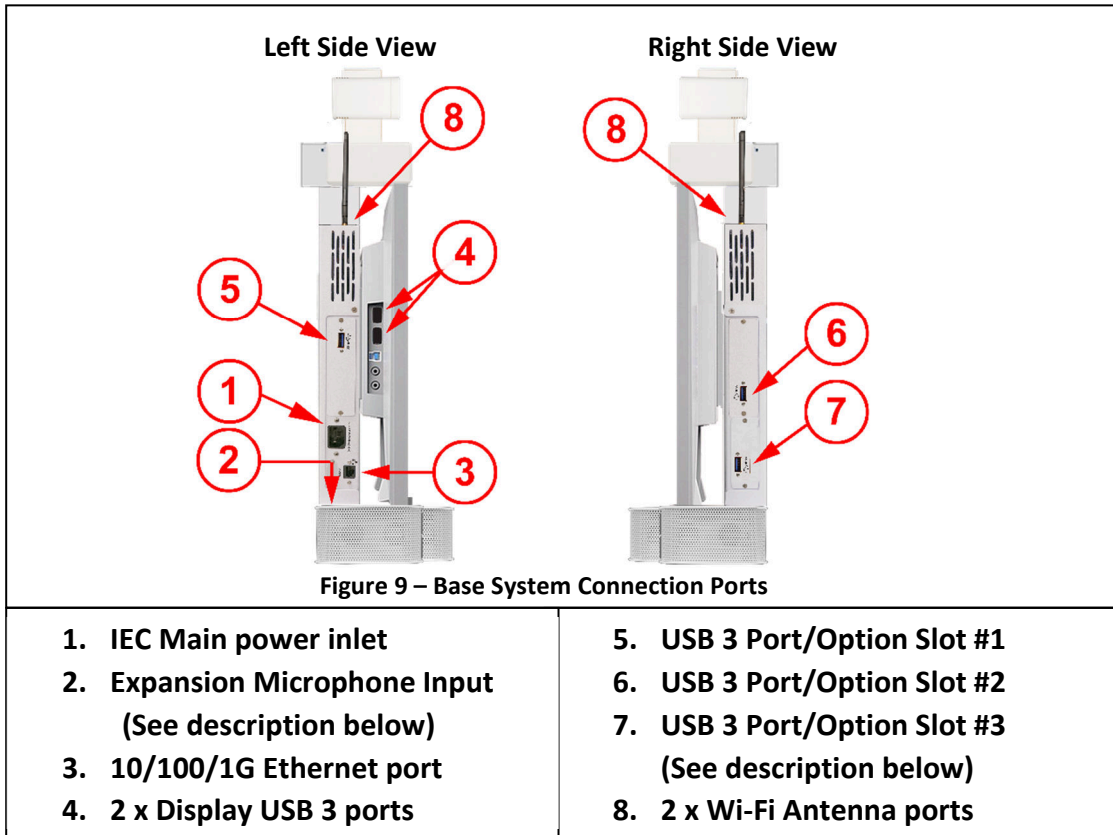
1. Locate the two Wi-Fi antenna connectors on top of the CLINiC chassis. These are adjacent to the left and right sides of the camera.



Figure 8 - Installing W-Fi Antennas

2. Install the two supplied Wi-Fi antennas by aligning them with the threaded mating connectors on top of the CLINiC chassis and gently screw them into place.

System Connections



Keyboard/Mouse Connection

When the PC CLINiC is being used for observation applications, a keyboard/mouse may be required for setting up the software application being used. There are two USB 3 ports available on the side of the display (#4 above) that can be used for this purpose. These ports are designed for occasional usage and not permanent connection

Expansion Microphone Input Kit

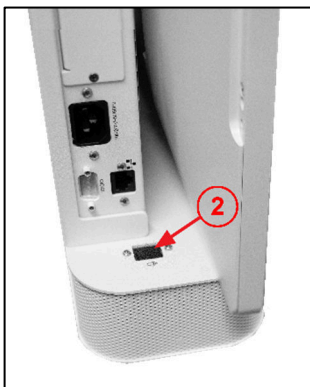


Figure 10 - Expansion Mic. Input

An optional expansion microphone is available for the PC CLINiC system which can be used in situations where a greater microphone pick up range is required, for example in large rooms or where the participant speaks very quietly.

The optional ceiling microphone kit includes an array microphone system, ceiling mounting bracket with basic installation hardware and a 10-meter interconnecting cable

Optional Expansion Microphone Kit, Part Number:
ACC-W-MIC-A01

Option Module Connectivity

The three USB 3 ports that occupy options slots 1, 2 and 3 in the base system can be replaced with option modules to allow connections of the following devices:

Option Slot #1: Electronic stethoscope input module that incorporates a 3.5mm jack that accepts line level audio signals from an electronic stethoscope

Optional Electronic Stethoscope Input Module, Part Number: MOD-W-STETH-B01

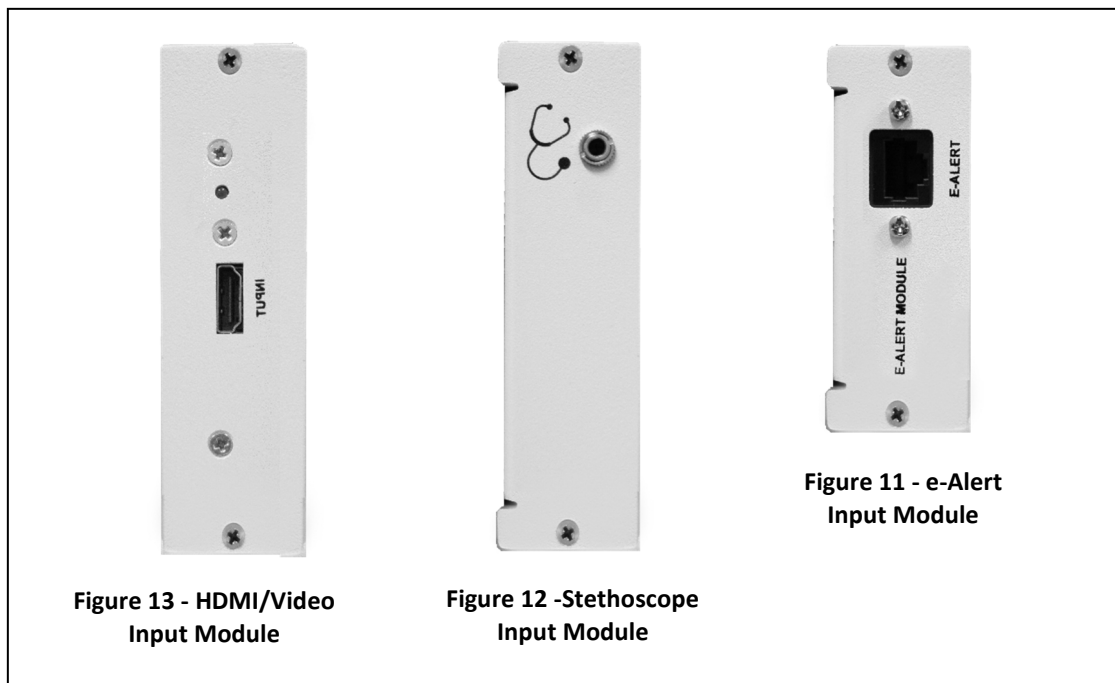
Option Slot #2: HDMI/Video input module that allows an HDMI video signal to be fed into the system for transmission as the primary or secondary presentation video source

Optional HDMI/Video Input Module, Part Number: MOD-W-HDMI-A01

Option Slot #3: e-Alert compliant input module that is used in conjunction with an external switching device to set up an alarm function

Optional e-Alert Compliant Input Module, Part Number: ACC-ALERT-MODULE-A01

Important Note: Prior to installing any of the option modules, it is important to ensure that the software application being used, and the control selection input device can support the function.



Camera Settings and Infra-Red Operation

Camera Preset Positioning and Ancillary Features

The PC CLINiC camera offers multiple features and facilities, described below, which can be activated by specific software applications that support the set up and activation of the required operation:

1. Camera Preset Positioning which can be used for multiple applications for example:
 - a. When the system goes into a sleep or no call mode, it moves to a position where the room cannot be seen so as not to disturb anyone within the room and give confidence they are not being watched.
 - b. On system activation or when a call comes in, the camera can move to a preset home position of a wide-angle view of the room facing forward
2. Camera “Flip” or inversion for applications where the camera is separated from the main system
3. Infra-Red Operation with selection to allow “Auto Activation” or “Off Mode” with the operation being outlined in the Infra-Red operation section.

The described features are only required for specific system uses, for example if the system is being used for remote observation the camera may only need to be controlled from the far end and preset positioning may not be needed.

PC CLINiC Infra-Red Operation

The PC CLINiC camera can operate in a low or no light situation using the system’s integrated infra-red illuminators. When a preset low light condition is reached, the illuminators auto activate, and the camera will automatically switch to infra-red operation giving a monochrome image of the room even in pitch black conditions.

It should be noted that the effectiveness of infra-red operation depends on several factors with the significant ones being the size of the room and the reflectivity of the surfaces within the room. For example, if you have a large dark room the image produced using infra-red light seen at the far site is normally acceptable, but if the room contains many light reflective surfaces, such as whiteboards, light colored curtains and suchlike, the infra-red light is reflected back to the camera and can cause it to revert to color operation as it is seen as illumination by the camera often resulting in the camera flipping between a monochrome and color image.

Other influences on the effectiveness of the operation of the system in total or near dark conditions can be affected by the light output of the system display itself so in monitoring situations no image from the remote site could be considered a good practice. Similarly, if someone stands in front of the system wearing for example, a white shirt, or lab coat, this can also cause reversion back to a poor-quality color image so care needs to be taken when positioning the system for monitoring applications in low or no light situations where infra-red operation is required.

To assist in overcoming any potential infra-red light reflection issue, the CLINiC incorporates a technician adjustable switch on the rear of the audio bar which allows the IR illuminators to be set to 2 lights, 4 lights or off, increasing or decreasing the amount of Infra-Red illumination to suit specific room environments.

The default factory setting of the Infra-Red illuminators is all four are turned off, with the camera factory preset to “Auto Infra-Red Operation”. In this scenario, when there is little illumination in the room, the camera will automatically go into a monochrome mode to maximize the image quality even though it is in monochrome

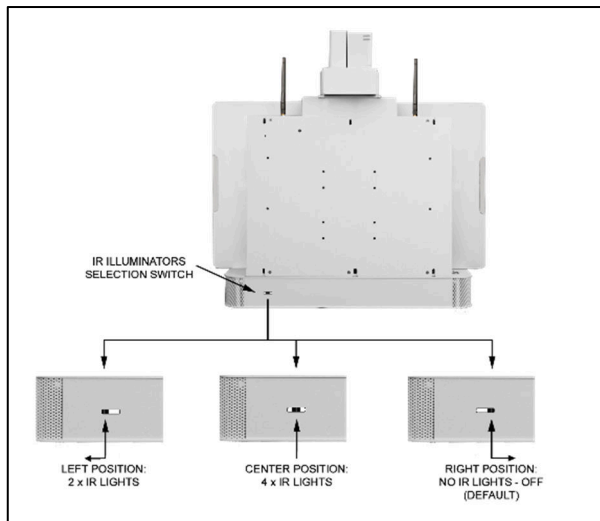


Figure 14 - IR Illuminator Selector Switch

By switching on two or four infra-red illuminators, as needed, the monochrome image will improve in quality as the camera detects the infra-red light which is invisible to the human eye.

This feature allows the system to be set up for optimal operation depending on the individual room size and reflective surfaces, so a patient can be monitored without the room being illuminated by visible light

Certain commercially available video software applications include control of the infra-red operation of the camera allowing even greater control of this function for specific room environments

Connecting to a Network

Before you can make and receive video calls with the PC CLINiC, you must connect the system to a network. There are two ways you can connect to the network: using the integrated Intel® Wi-Fi 6 AX201, 802.11ax with the external antennas, or using the 10/100/1G Ethernet port. To use the Wi-Fi, this will need connecting to the facility wireless network using a keyboard/mouse connected to the system.

Mounting the CLINiC System

The PC CLINiC series incorporate an industry standard 100mm x 100mm VESA mounting hole pattern on the rear of the system. The VESA mounting system can be used with a wide variety of wall brackets, mobile carts and wall arms depending upon the application. Please ensure that the selected mounting device can hold the weight of the system and peripherals that may be attached. Prior to installation, please refer to Appendix 3 for mounting holes locations and dimensions. Please note, a Phillips #1 and #2 screwdriver is required for system assembly.

Appendix #1: System Specifications

Display	
Type (24"/27")	23.8" IPS LED / 27" IPS LED
Native Resolution	24" - 1920 x 1080 / 27" - 2560 x 1440
Viewing Angle H/V	178°/178°
Control	
Primary Control	User Supplied Software Application
Control Options	Multiple Tethered Remote controls available for specific software applications
	User supplied Keyboard / Mouse can be connected to display USB Ports
Video Input/Output	
Input	Iron Bow IBHC-04 camera 10x optical/10x digital zoom
	3 x USB3 Ports on base system plus 2 USB Ports for User Keyboard/Mouse
Output	1 x Display port (dedicated to display)
Audio Input/Output	
Input	Integrated beam-forming dual microphone array / Optional Expansion Mic.
Output	Integrated stereo speakers; 2 x 5 Watts
Network	
Wired/Wireless	1 x 10/100/1G Ethernet & Intel® Wi-Fi 6 AX201, 802.11ax
Dimensions/Weight	
System Weights	24" System: 25.2 pounds (base system with no options)
	27" System: 29.4 pounds (base system with no options)
Stethoscope Option	Add 0.1 pounds
HDMI/Video Option	Add 0.3 pounds (includes USB3 cable)
W x H x D (See Appendix 2)	24" System: 21.25" x 20.75 (c/w Cam) x 6.25" (8" deep c/w camera cable cover)
	27" System: 24" x 22.5" (c/w Cam) x 6.25" (8" deep c/ w camera cable cover)
Mounting	
	VESA 100mm x 100mm (M4 x 8 Phillips Pan Head screws supplied)
Electrical	
	Auto Sensing Power Supply: 110-120VAC ~60Hz, 2.0A

Appendix #2: System Detailed Dimensions

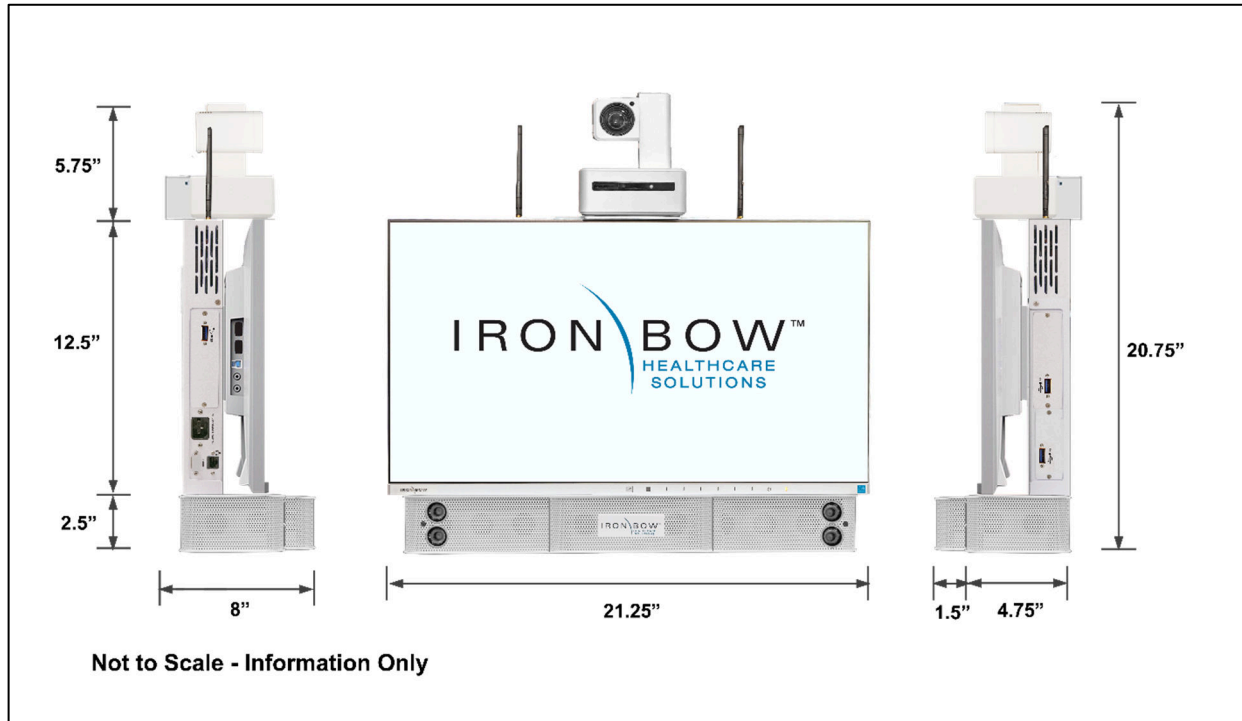


Figure 15 - 27" PC CLINiC Dimensions

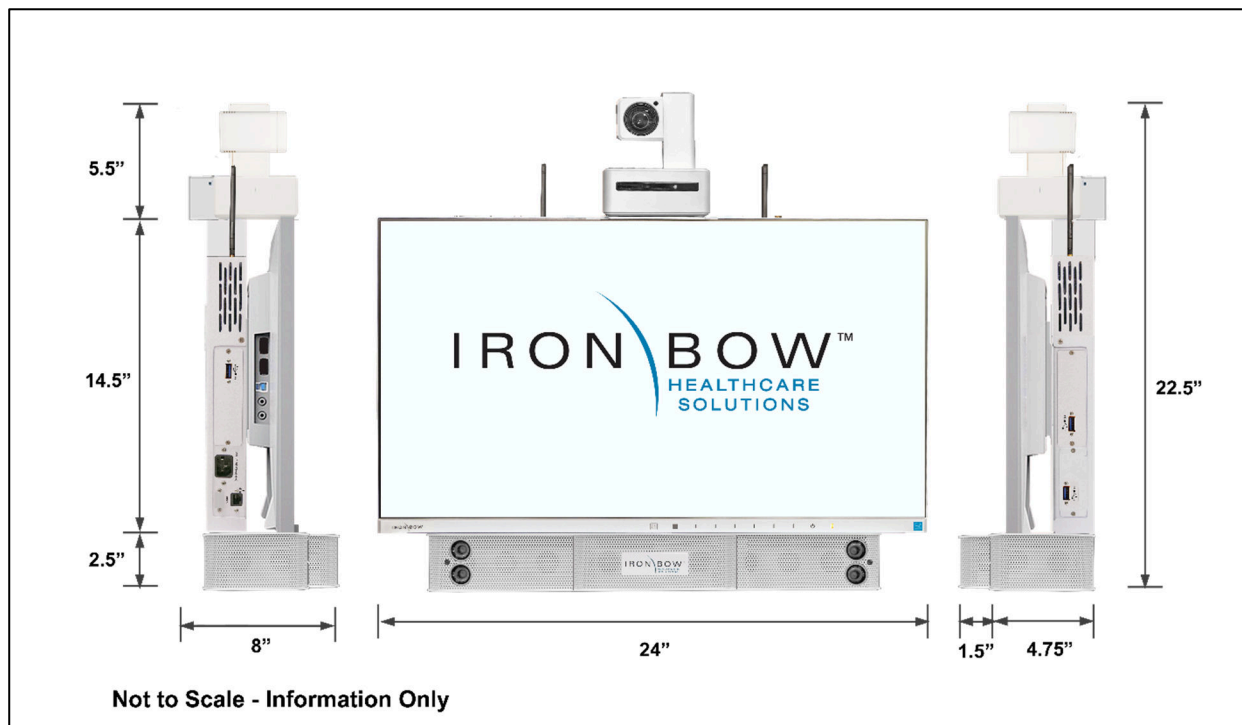


Figure 16 - 27" PC CLINiC Dimensions

Appendix #3: Detailed Mounting Information

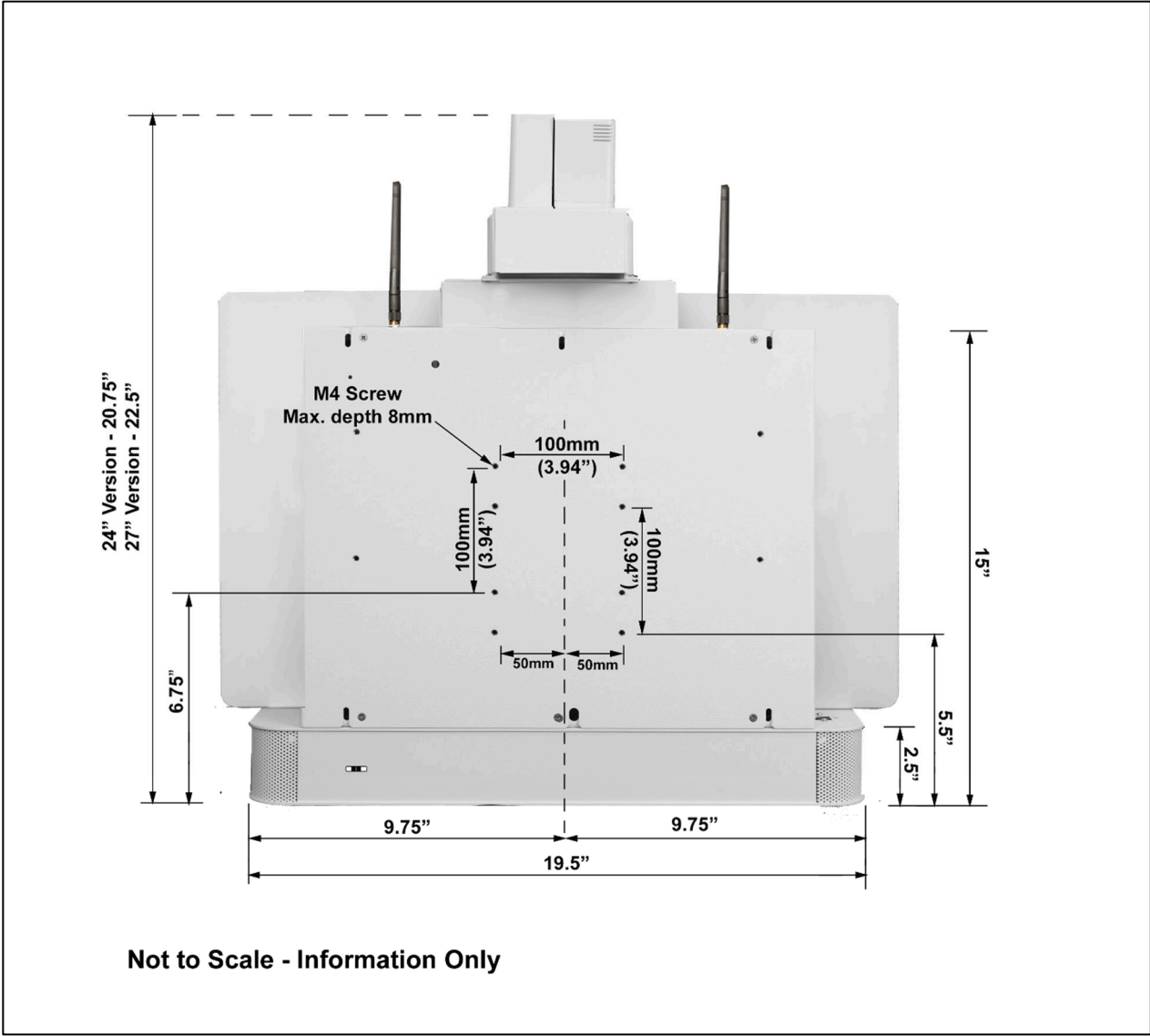


Figure 17 - Rear Mounting Locations

Appendix #4: Horus Scope Series 3 Cradle

This user guide covers basic installation steps of a Horus Scope cradle assembly. The cradle assembly allows convenient and safe positioning of the Horus Scope on a CLINiC.

You can find additional CLINiC resources and information about support and other related telehealth services at www.ironbowhealthcare.com.

Consult the JedMed website for instructions on use of the Horus Scope here: <https://www.jedmed.com/pages/horus-scope-manuals>



Figure 18 - Horus Scope mounted on a CLINiC

Installing the Horus Scope Cradle

The components of the Horus Scope cradle assembly are shown in the following figure.

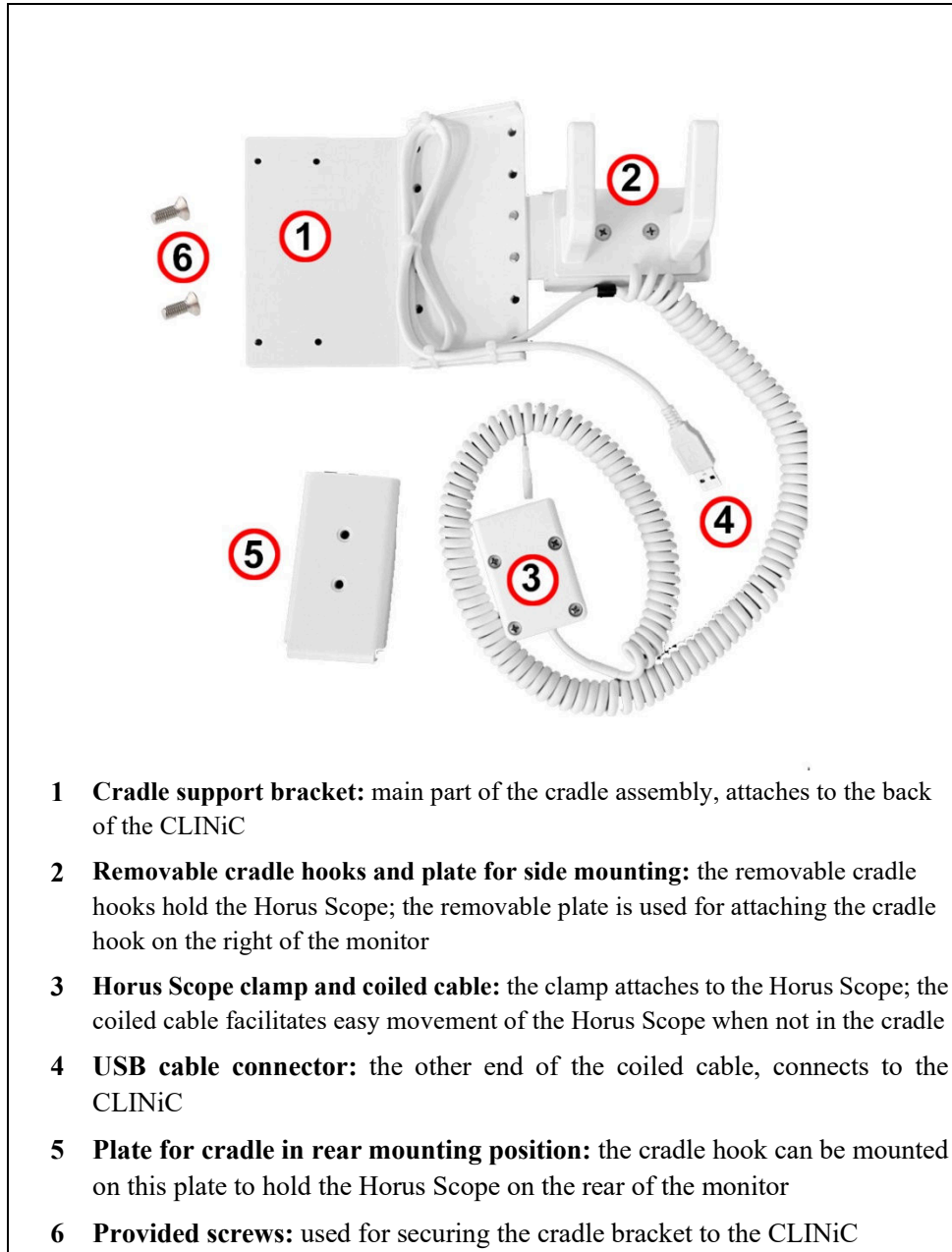


Figure 19 - Cradle Kit

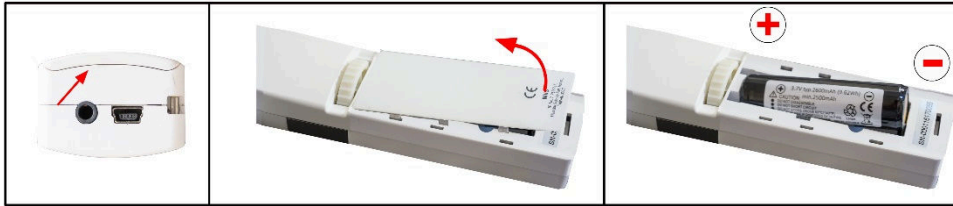
Preliminary Steps

Prior to attaching the clamp and coiled cable to the Horus Scope, make sure the Horus Scope has a working battery (p/n 39-7435-2). To insert or replace a battery, see the instructions below.

Note: If the Horus Scope and the cradle were purchased together, the battery will be preinstalled in the Horus Scope. If that is the case, skip to the cradle assembly instructions.

To install the Horus Scope battery:

1. Open the battery cover by inserting your finger or a pointed tool in the gap at the bottom of the battery cover. Remove the battery cover by lifting it up.
2. Insert the battery with the positive end facing up.



Installing Cradle in Side-Mounted Position

The cradle can be mounted in two positions relative to the CLINiC. Side mounting; provides easy access on the right hand side of the CLINiC, which may be ideal for frequent use. Rear mounting stores the Horus Scope on the back of the CLINiC, which reduces the overall width of the system, allowing greater mobility when mounted on a cart.

Note: A #2 Phillips head screwdriver will be required for the installation.

To install the cradle in Side Mounted position:

1. Vertically align the cradle mounting bracket with the holes on the back of the CLINiC, and attach using the provided screws.
2. Insert the USB-A cable into the CLINiC as shown

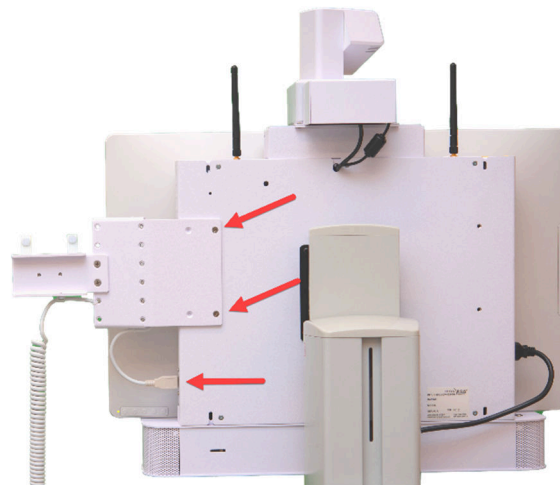
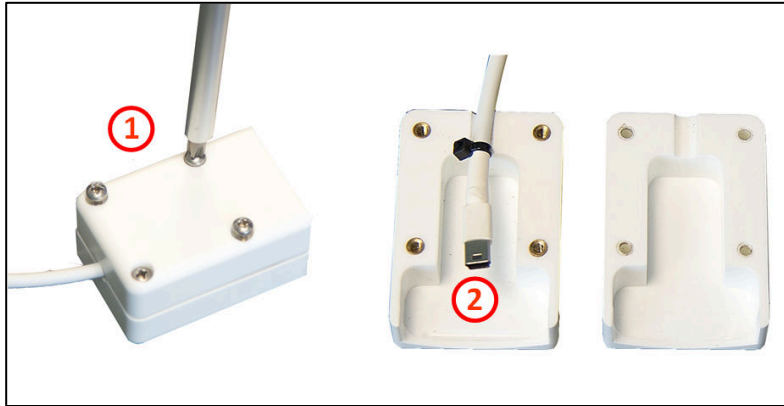


Figure 20 - Cradle Mount

Installing Cradle Cable and Horus Clamp

If the Horus Scope and the cradle assembly were purchased together, the Horus Scope will come pre-installed in the clamp. If this is the case, skip to step 6.

1. Remove the screws from the Horus Scope clamp (1) to expose the Mini USB connector (2).



2. Place the Horus Scope in the bottom half of the clamp (the half that has metal screw holes), as shown. Insert the Mini USB connector into the corresponding port at the bottom of the Horus Scope.

3. Secure the top side of the Horus Scope clamp and fasten the four screws.

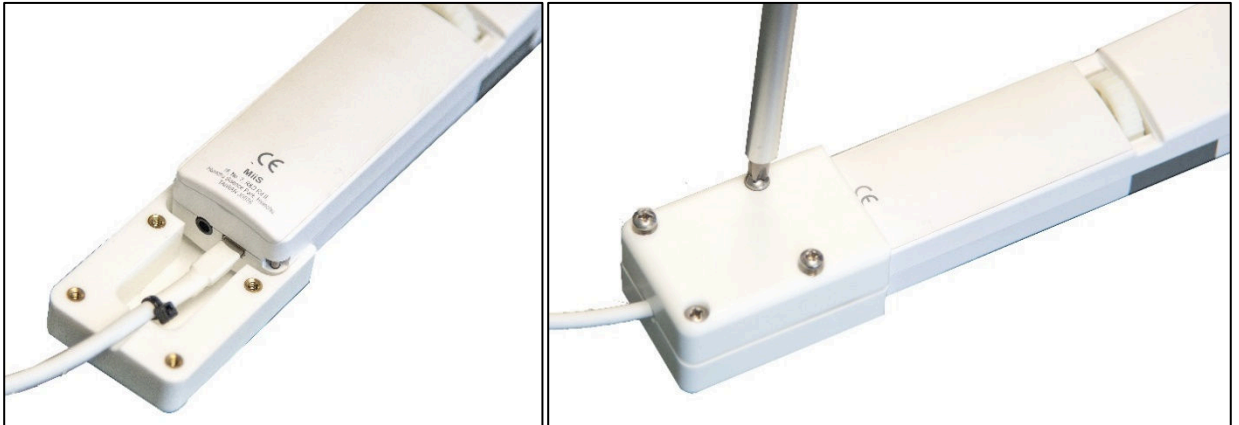


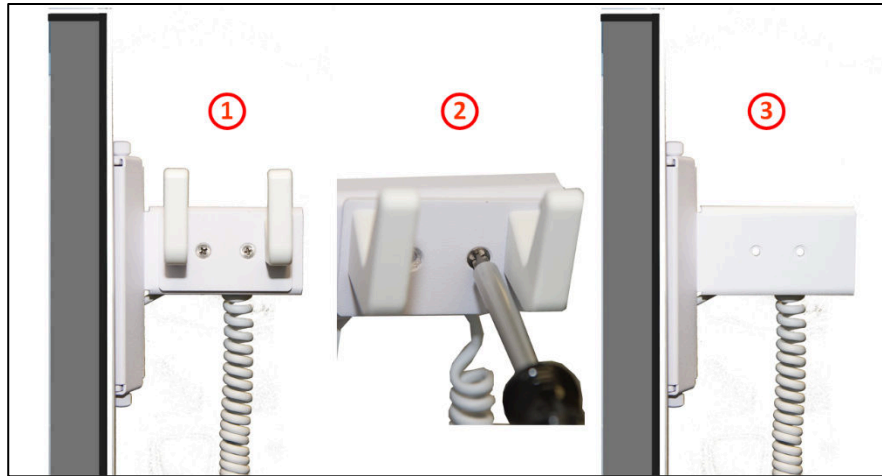
Figure 21 - Horus clamp assembly

Moving Cradle from Side to Rear Mounting Position

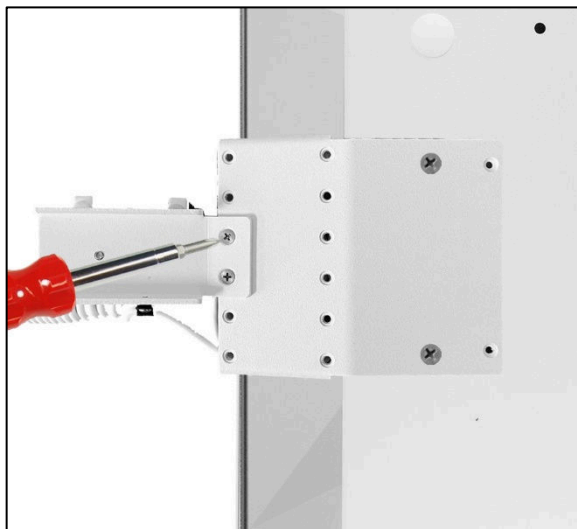
The instructions below describe how to change the cradle from side mounting to rear mounting. To change from rear mounting to side mounting, reverse the instructions.

Note: A #2 Phillips head screwdriver will be required for the installation.

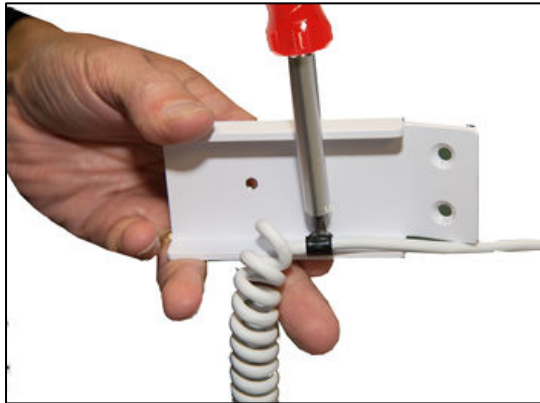
1. Remove the screws attaching the cradle hooks to the position one plate. You will reuse the cradle hooks and screws later in this procedure when you will attach the hooks to the position two plate.



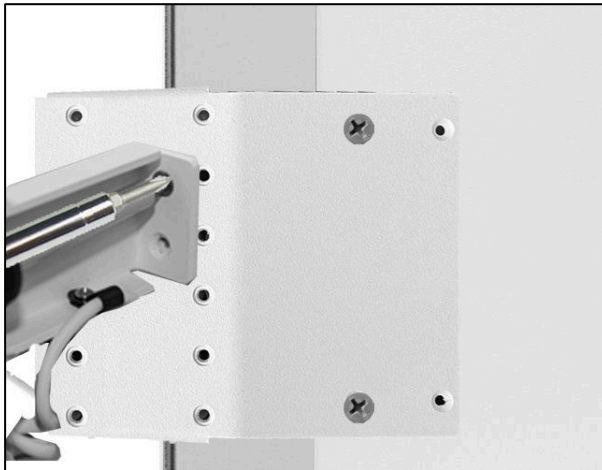
2. Remove the two screws attaching the side position plate to the cradle support bracket. You will use the same screws to attach the rear position cradle support bracket later in this procedure.



3. Remove the strain relief clamp holding the coiled cable to the side position mounting plate.
4. Fasten the strain relief clamp to hold the coiled cable to the rear position plate.



5. Place the rear position plate on the back of the cradle support bracket and secure with the same two screws that were used to secure the position one plate.
6. Fasten the cradle hooks onto the rear position plate.



7. Place the Horus Scope into the cradle on the back of the CLINiC.

For Horus Scope device instructions, refer to the JedMed User Guide downloads page here:
<https://www.jedmed.com/pages/horus-scope-manuals>



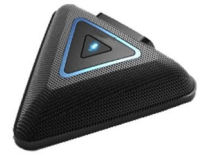
Figure 22 - Horus cradle rear mount

Appendix #5: Optional Expansion Microphone

PC CLINiC Expansion Ceiling Microphone Assembly

Part Number: ACC-W-MIC-A01

Compatible with: 24" Touch PC CLINiC (CLINiC-W-10X24T-B)
24" Non-Touch PC CLINiC (CLINiC-W-10X24-B)
27" Non-Touch PC CLINiC (CLINiC-W-10X27-B)



Supplied Components:

- Expansion Microphone Array
- Ceiling Mounting Plate Assembly
- 10 Meter (32' 9") RJ45/RJ45 Expansion Microphone Cable
- 1 x Plastic-Head Thumb Screw Knurled, 6-32 3/8" Long, black
- 2 x Drywall anchor #8 x 1 5/8" nylon
- 2 x #8-3/4" sheet metal screws
- 2 x Twist Clip for 1-5/16" T-Grid, #8 x 5/8" screw
- 2 x Female Threaded Hex Standoff 8/32 x 1" x 1/4" Hex
- 2 x Screws 8/32" x 5/16 undercut Phillips flat head

The PC CLINiC series incorporate a facility for adding an external microphone system which is generally used to augment the internal microphone array fitted within the system. The expansion microphone is often installed above a patient bed to enhance the audio level and clarity when a patient is speaking in a low voice, as shown in the diagram below.

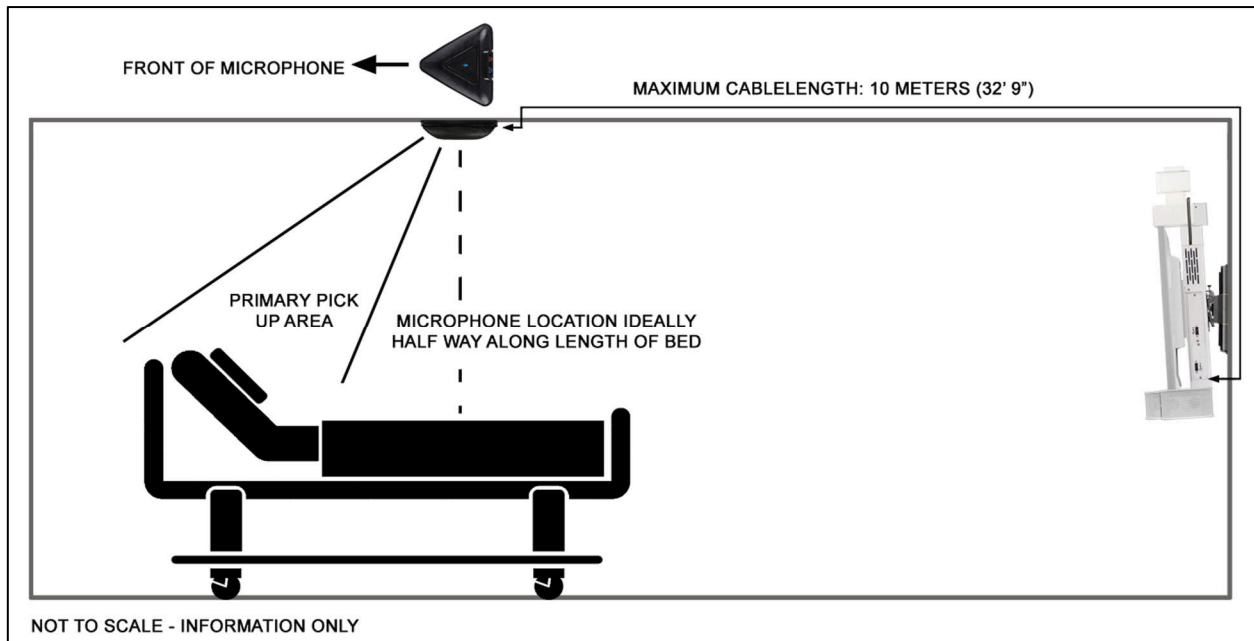


Figure 23 - Typical Microphone Installation

Assembly and Installation

Attach the mounting plate to the ceiling being careful to install the front of the plate in the correct direction for optimal microphone pick up. Dry wall anchors and twist clips, with stand-offs, are supplied for either direct ceiling mount or from 15/16" T-Grid.

1. Slide the microphone into the mounting plate
2. Insert the locking thumbscrew
3. Attach the RJ45 connector on the end of the supplied 10-meter cable into the yellow "Mic Output" connector on rear of the microphone



Figure 24 - Installing Ceiling Mic Array

Figure 26 - Microphone Mounting Plate Dimensions

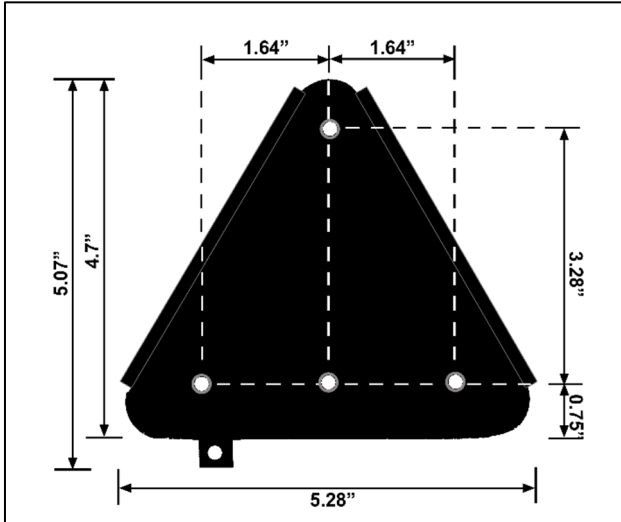
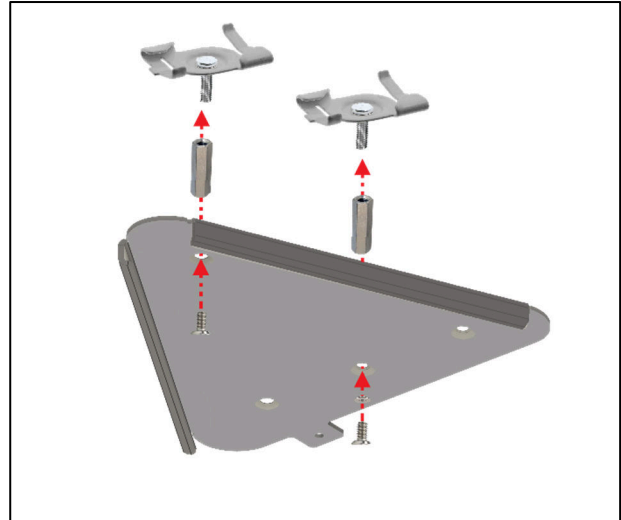


Figure 25 – T-Grid Mounting



T-Grid Installation

Two “Twist Grips” are supplied with the assembly hardware to allow the Expansion Microphone Array to be attached to a 1-15/16” T-Grid.

The twist grips are fitted with a #8 x 5/8” bolt which should be attached to the 1” long threaded hex standoffs. The twist grips should then be attached to the T-Grid in the required location approximately 3-1/4” apart.

The microphone mounting plate can then be attached to the standoffs using the two supplied 8/32” undercut screws, ensuring that the front of the mounting plate is fitted in the correct orientation to suit the microphone pick up pattern within the room, as shown above. It may be necessary to adjust the distance between the Twist Grips to suit the exact hole pattern on the microphone mounting plate which can easily be achieved by sliding the twist grip along the T-Grid.

The hole pattern on the microphone plate allows fitting to the T-Grid in multiple orientations to suit the grid pattern within the room with respect to the required microphone location.

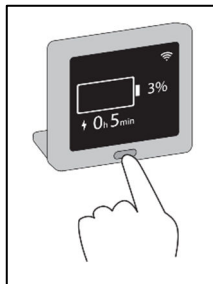
Appendix #6: Observation Cart Assembly

This user guide covers basic installation steps for mounting a CLINiC on an elevated camera GCX cart.

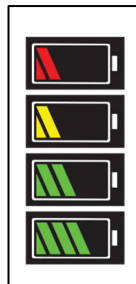
The primary components of the Iron Bow PC CLINiC Touch main system, configured for use with a six foot off-set cart and LiFeKinnex Power module

All system functions are controlled via the system PC Touch Screen. The only exception is control of the LiFeKinnex Power Module where the controller is fitted above the main PC screen for ease of access by the system user. (#3 above)

The user pushes the front button to switch the system on and the display illuminates. The display on the power controller shows both battery capacity and operational time remaining. Pushing and holding this control will turn the system off. (Please refer to LiFeKinnex Manual and Appendix 3 of this document)

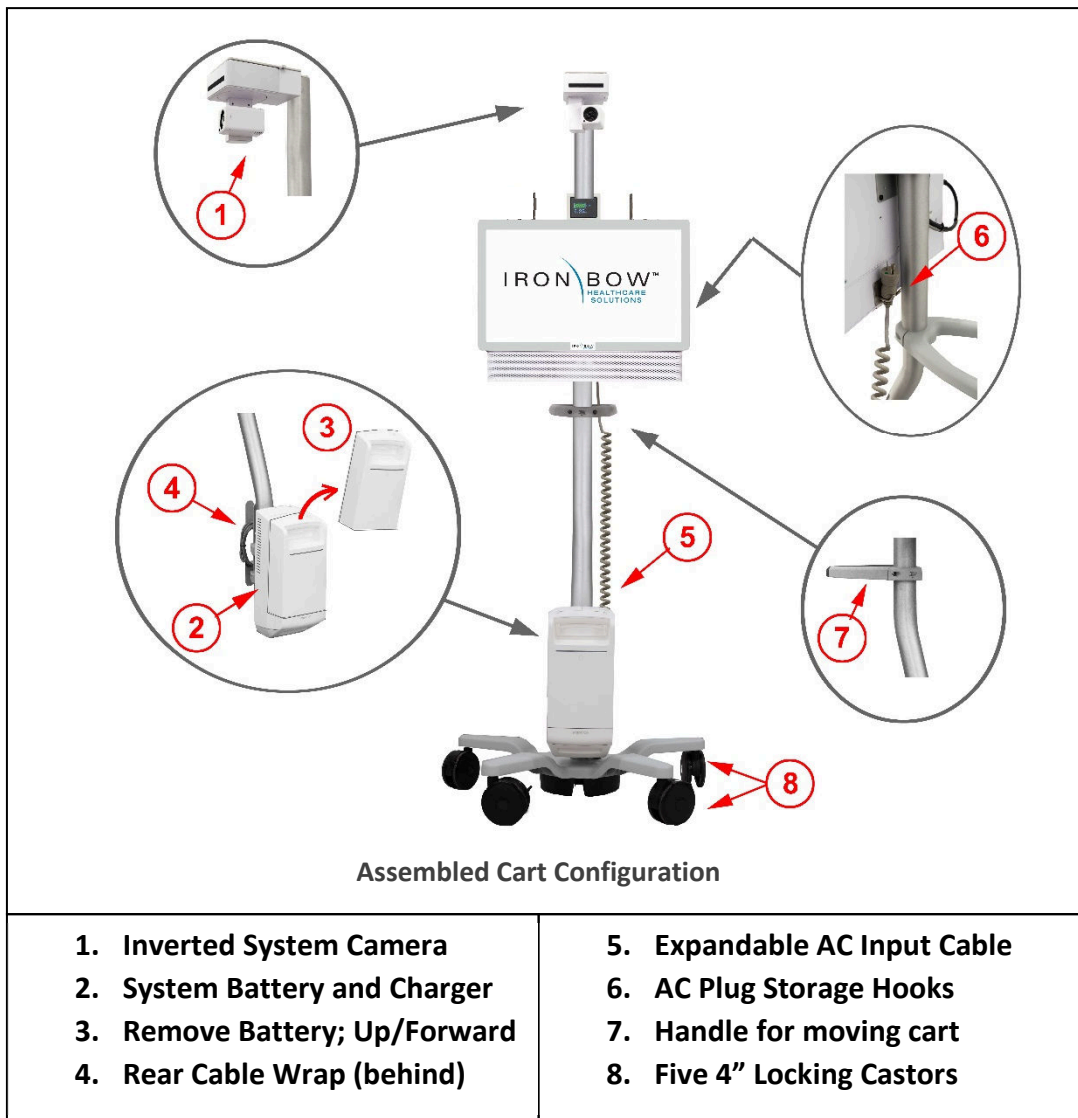


**On/Off Power
Controller switch
location**



**Battery condition
indicator**

Cart Configuration



System Assembly

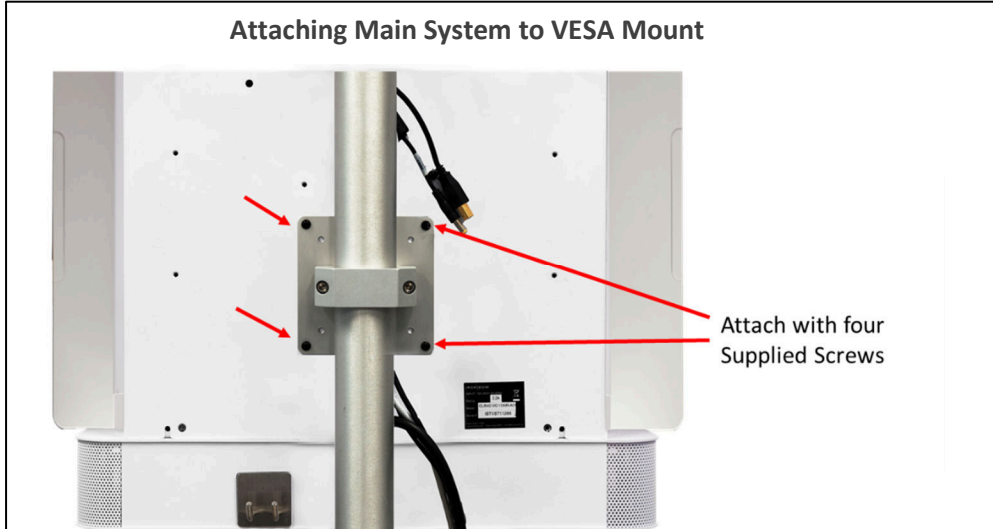
The system is supplied in three separate boxes:

1. PC CLINiC Touch Main System, with camera and accessories packed separately in the same box
2. Complete cart assembly pre cabled and all mechanical components and battery charger mounted
3. Lithium Ion Phosphate battery in a separate individual box

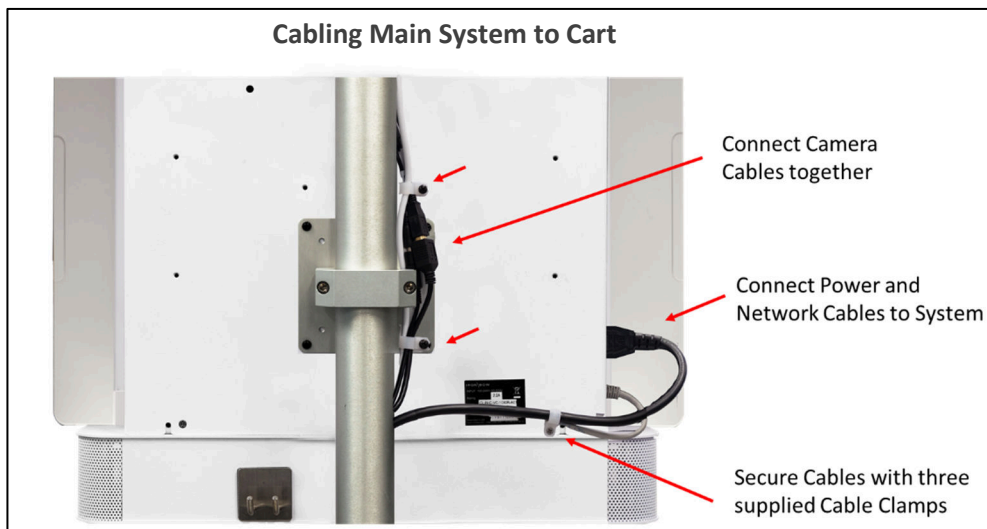
Please note, a Phillips #1 and #2 screwdriver are required for final system assembly, as outlined below.

Attaching Main System to Cart Assembly

1. Remove cart assembly from packaging and place upright on the floor
2. Attach main system to cart VESA mounting plate using the four supplied screws.

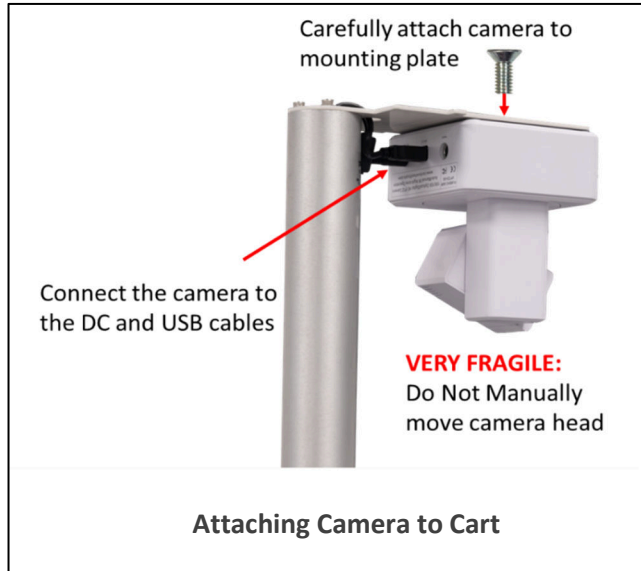


3. Connect camera cables together, as shown
4. Connect AC and Network Connector to inputs on side of main system
5. Secure all cables with supplied cable clamps

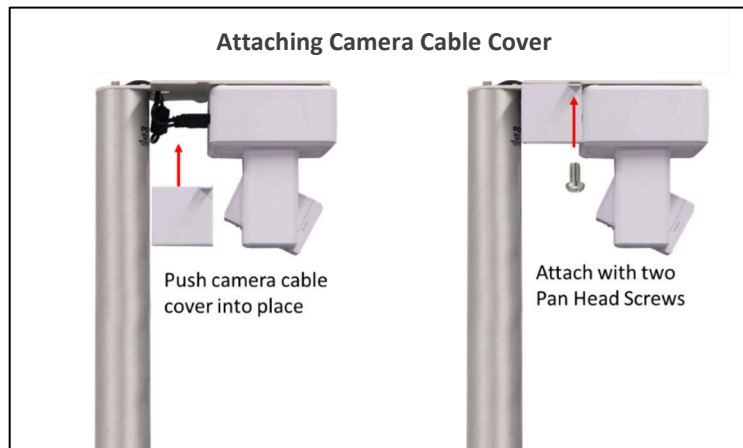


Installing the System Camera

1. Carefully unpack camera and remove all packaging materials:
- 2. DO NOT TOUCH OR MOVE CAMERA HEAD MANUALLY**
3. Bolt the underside of the camera to the mounting bracket on top of the column
4. Connect the two cables that come out at the top of column to the corresponding connectors on the rear of the camera.



5. Push the camera cable cover into place and attach with two supplied pan head screws

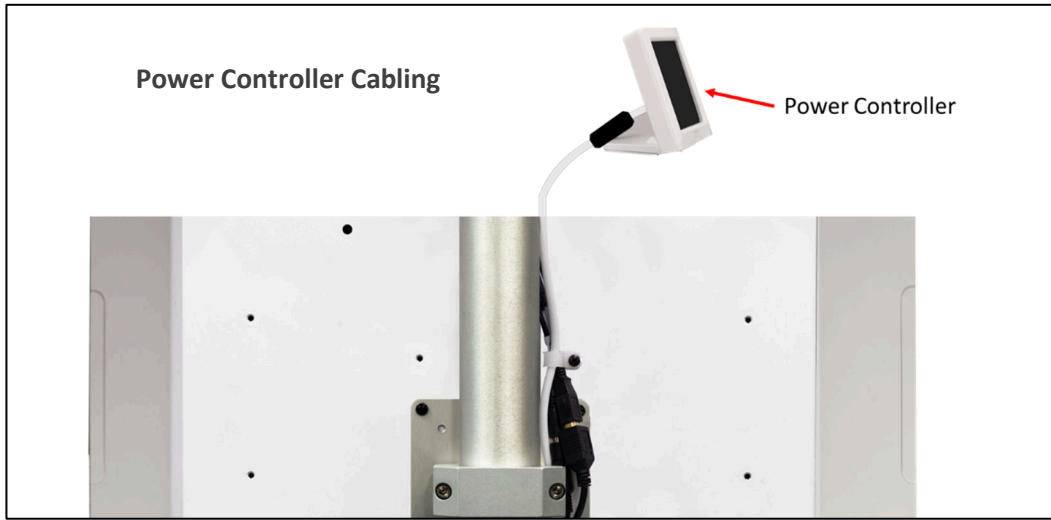


Camera Infra-Red Operation

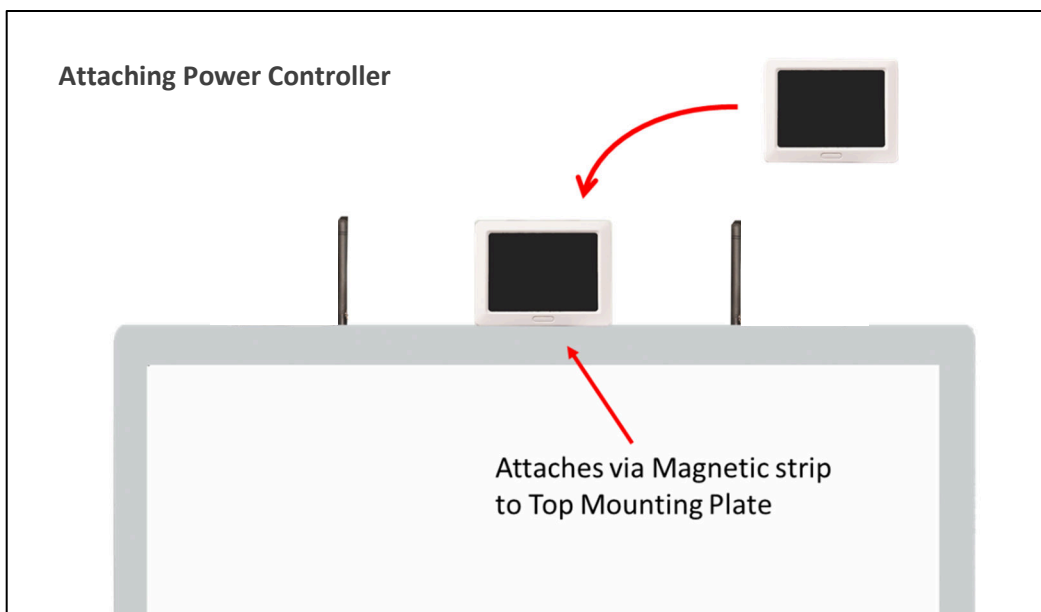
The camera is factory preset to switch into infra-red operation which will give a monochrome image in a non or very low light level environment, auto switching back to color when the illumination in the room rises. The camera switches depending upon the light it receives, which can vary depending upon the field of view of the camera, and whether it is seeing reflected light from displays or other light sources. Certain video software applications include an infra-red on/off function in their set up mode.

Attaching Power Controller to Main System

1. Identify Power Controller and attached cable within rear system cable loom
2. Power controller faces forward on front of system



3. Place Power Controller on Top Mounting Plate facing forward
4. Controller attaches to system via magnetic strip on Top Mounting Plate





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