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Iron Bow Cisco MedView™ Mounting Bracket Installation Guide

**Iron Bow MedView Mounting Bracket Kit:
Part # MEDVIEW-C-BRKT300-A01**

**Iron Bow Universal Mounting Hardware Pack:
Part # MEDVIEW-HDWR-A01**

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Introduction

The MedView family of products from Iron Bow Healthcare Solutions consists of purpose-built telehealth devices that integrate with existing in-room equipment to enable the delivery of clinical healthcare from a distance. You can find additional MedView resources and information about support and other related telehealth services at www.ironbowhealthcare.com.



This user guide covers the installation of the Iron Bow MedView, part # MEDVIEW-C-30XS-A01 and MEDVIEW-C-30X-A01, using the optional VESA mounting bracket kit available for these products. The mounting kit uses a flexible design which can be used with multiple standard VESA mounting patterns, including:

- 100 mm x 100 mm
- 100 mm x 200 mm
- 200 mm x 200 mm
- 200 mm x 300 mm
- 300 mm x 300 mm

The mounting bracket kit includes assembly hardware for mounting the Iron Bow MedView to the base 100 mm x 100 mm mounting bracket, plus hardware for attaching to the larger 200mm/300mm VESA adaptor plate.

Iron Bow MedView Mounting Bracket Kit, Part # MEDVIEW-C-BRKT300-A01

Qty	Description	System Attachment
1	Med View 100mm Base Mounting Bracket	Used for 100mm x 100mm VESA Mounts Only
1	Med View 200mm/300mm Adaptor Plate	Adapts 100mm bracket to 200mm/300mm
3	M4 x 8 Philips flat head screw zinc plated	To mount MedView to mounting bracket
1	1/4-20 x 3/8" undercut flat head screw)	To mount MedView to mounting bracket
3	10-32 x 1/2" Philips pan head screws	To attach 300mm adaptor to 100mm bracket



Figure 1. MedView Mounting Bracket Kit

An optional Universal Mounting Hardware Pack is available, containing a comprehensive set of screws, washers and spacers for attaching to the majority of commercially available displays.

Iron Bow Universal Mounting Hardware Pack, Part # MEDVIEW-HDWR-A01

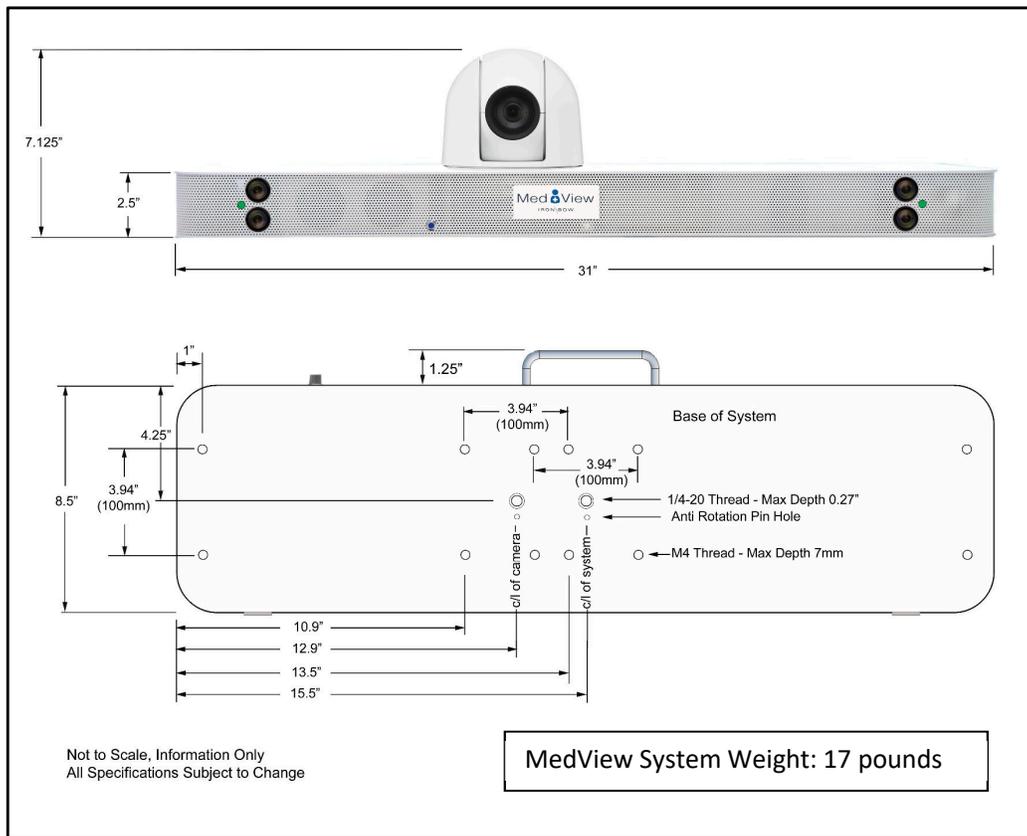
Qty	Description
4	M4 x 12mm philips pan head screws
4	M4 x 30mm philips pan head screws
4	M5 x 12mm philips pan head screws
4	M5 x 30mm philips pan head screws
4	M6 x 16mm philips pan head screws
4	M6 x 20mm philips pan head screws
4	M6 x 30mm philips pan head screws
4	M8 x 16mm philips pan head screws
4	M8 x 20mm philips pan head screws
4	M8 x 25mm philips pan head screws
4	M8 x 30mm philips pan head screws
4	M8 x 35mm philips pan head screws
4	M8 x 40mm philips pan head screws
4	M8 x 45mm philips pan head screws
4	M8 x 50mm philips pan head screws
8	M4/M5 Washers
8	M6 Washers
4	M5/M6 (17mm) Spacers
8	M8 (2.5mm) spacers
4	M8 (10mm) spacers
4	M8 (22mm) Spacers

System Installation

The MedView system can be mounted above, or below, a display as well as wall or ceiling mounted (see MedView user manual). The diagram below shows the overall system dimensions of the MedView, plus the mounting hole pattern in the base of the system. The basic mounting arrangement utilizes standard 100mm x 100mm VESA compliant mounting holes, which are available in two locations near the middle of the MedView. The first set of mounting holes is centrally located (left to right) of the system, with a second set located directly below the camera.

These two mounting locations allow the system to be fitted directly above a monitor where, either the system can be central to the display, or the camera can be central to the display. In addition to the central VESA mounts, standard 1/4-20 mounting holes are also centrally available in two locations, as well as mounting holes at the extreme edges for custom mounting arrangements.

Figure 2. MedView System Dimensions



Please take careful note of the maximum thread depth available for the various mounting point on the base of the MedView.

Small Display Mounting

The MedView can be directly mounted to a display using the optional Iron Bow VESA mounting bracket kit, Part # MEDVIEW-C-BRKT300-A01. The combination of MedView and display can then be used in a tabletop configuration, or wall mounted, as required. The customer is responsible for ensuring that the maximum weight (MedView plus Monitor plus mounting brackets) can be supported by the existing wall mount.



Figure 3. MedView Mounted Above Display

Attaching MedView to Display Mounting Bracket

The 100mm x 100mm VESA mounting bracket, Figure 4 below, is designed to allow maximum adjustment of the location of the MedView when mounted on a display. The top plate of the mounting bracket, Figure 5 below, incorporates a series of attachment holes which line up with the threaded holes on the base of the MedView.



Figure 4. MedView 100mm Mounting Bracket

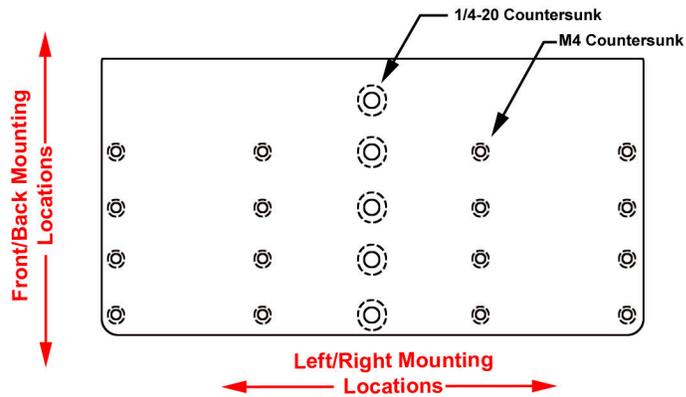


Figure 5. MedView Mounting Bracket Top Plate Access Holes

To attach the MedView to the top plate of the mounting bracket carefully place the MedView on a flat surface facing downwards being careful not to apply any pressure to the camera assembly.

The MedView is then attached to the top plate using the supplied three M4 bolts, plus one 1/4-20 bolt. When the MedView is attached to the top plate with the front of the system aligning with the front of the mounting plate, an access hole for a screwdriver is available to tighten the 1/4-20 bolt, as shown above.

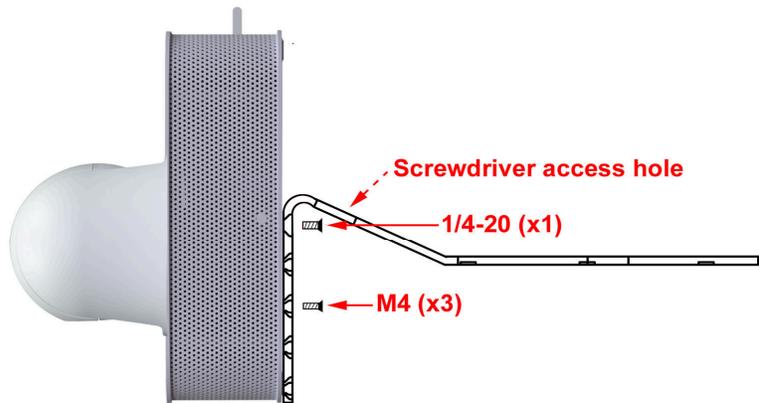


Figure 6. Attaching the MedView to the Mounting Bracket

Depending upon where the front of the MedView is required in relationship to the front of the display, the system can be attached any one of five different locations on the top mounting plate. Figure 5. Above, shows the various front to rear attachment locations on the top plate which align with the attachment holes in the base of the MedView system.

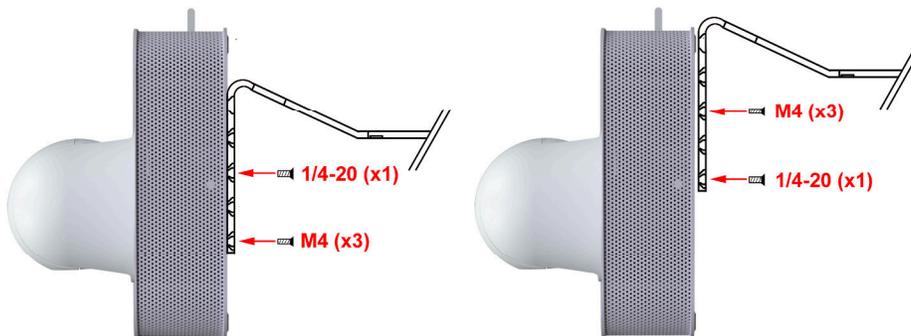


Figure 7. Alternate mounting plate attachment locations

Figure 7. shows the central and rear positions when the MedView is attached to the mounting plate. The different locations and combinations of the M4 and 1/4-20 bolts are used dependent on the selected front to rear attachment points. The front to rear adjustments are available to suit the best physical location for the device in relationship to the rear access for cabling, as well as to meet the aesthetic requirements of the installation.

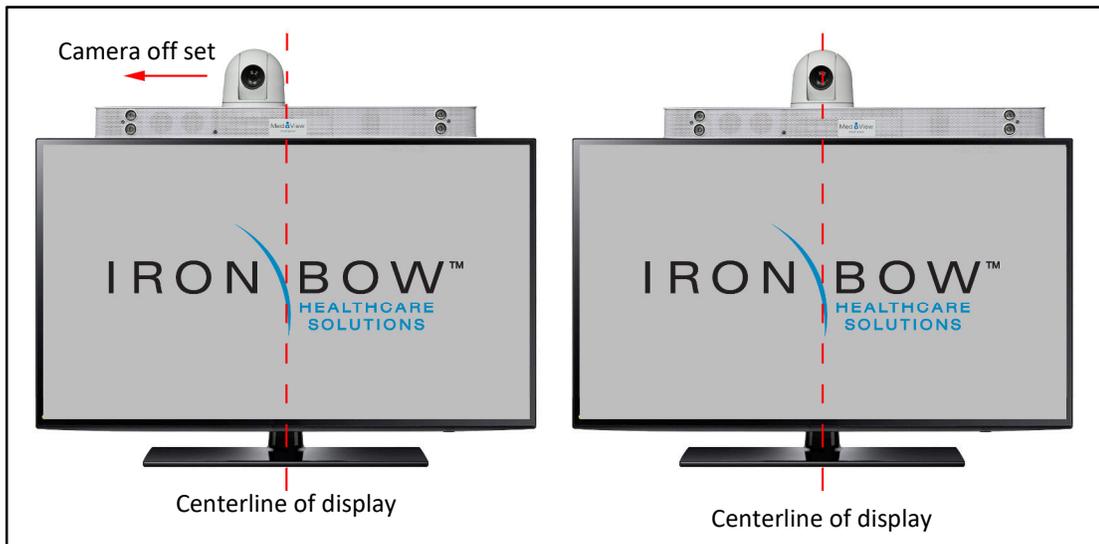


Figure 8. Center Line attachment Location

In addition to the front to rear attachment locations, the MedView can be mounted in one of two left/right locations above the display, as shown in Figure 8. The *camera* can be mounted centrally to the screen to give an optimal view at the remote location of the room. The alternate location of the MedView *system* being central to the screen gives a more balanced look to the system which may be more aesthetically pleasing.

The offset or central locations are available by using the left/right mounting holes available on the top plate, shown in Figure 5. above, in conjunction with the alternate attachment points on the base of the MedView system, shown in Figure 2.

It is recommended that prior to selecting a final location for the MedView, bench testing is undertaken.

Attaching MedView Mounting Bracket to Display

Once the MedView has been attached to the base mounting bracket in the required location, it can be attached to the display. The base mounting bracket is designed to sandwich between the VESA mount on the display and a VESA wall bracket as shown in Figure 10. In the event that the display is being used on a table stand, or similar, the MedView bracket can often be directly attached to the VESA mount on the rear of the display.

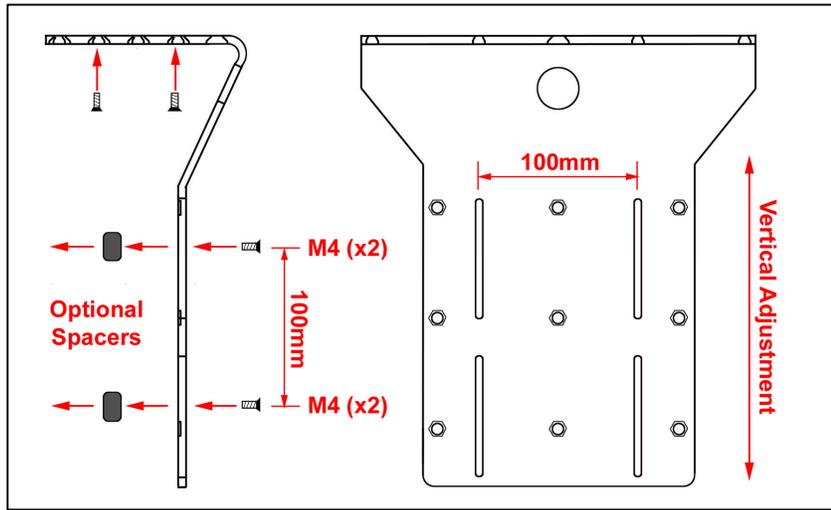


Figure 9. MedView Mounting Bracket Height Adjustment

As the actual vertical location of the VESA mount on the rear of the display will vary based on the size of the display and the manufacturer, the MedView mounting bracket incorporates a series of slots to allow vertical adjustment such that the MedView can rest on the top of the display. In addition, depending on the physical shape of the display, it may be necessary to insert spacers between the MedView bracket and the display mounting locations.

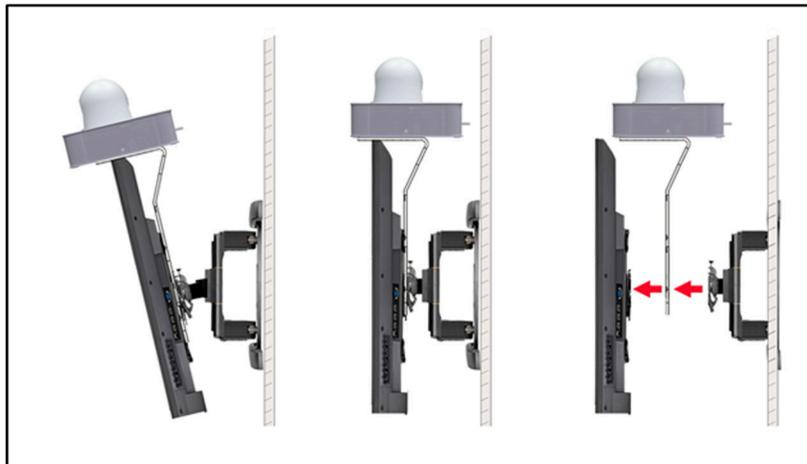


Figure 10. Mounting MedView to Display VESA Mount

Attaching MedView to Larger Displays

To mount the MedView to a display which uses a larger VESA mounting pattern than 100mm x 100mm, the 200mm/300mm adaptor plate is needed. The mounting kit includes both the standard 100mm VESA mounting bracket plus the adaptor bracket for larger mounting patterns.



Figure 11. MedView Adaptor Plate

The base 100mm x 100mm bracket is mounted to the MedView as described in the previous section. The included adaptor plate is attached to the standard 100mm x 100mm bracket to allow for larger VESA mount displays.

The standard mounting kit includes all of the necessary mounting hardware to attach the adaptor bracket, shown in Figure.11, to the standard bracket. The optional Iron Bow Universal Mounting Hardware Pack, Part # MEDVIEW-HDWR-A01 incorporates multiple screws, washers and spacers to mount the adaptor plate to the majority of commercially available displays

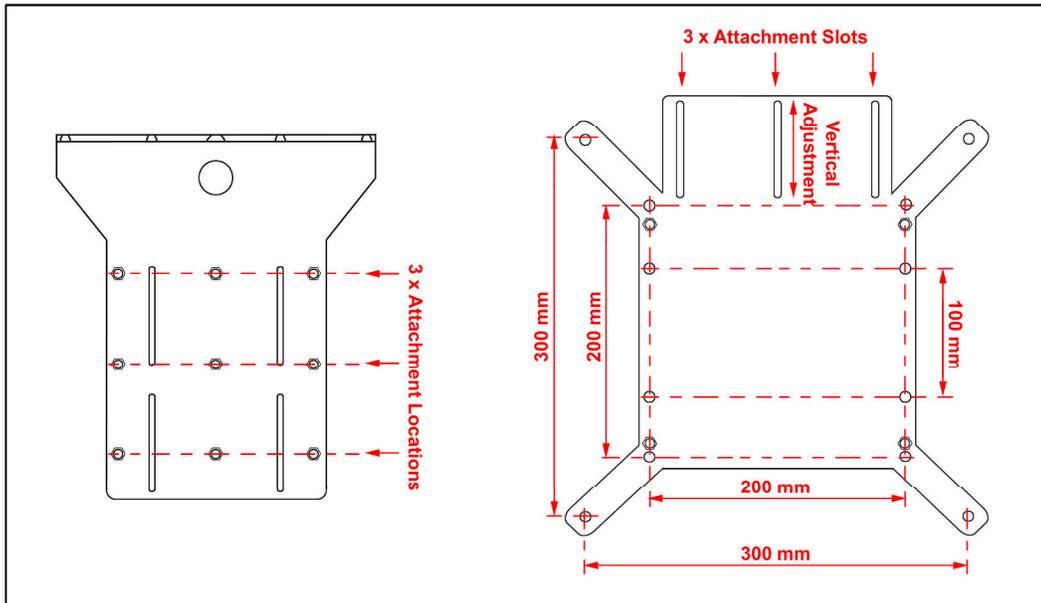


Figure 12. MedView Mounting Bracket and Adaptor Plate Layouts

Assembling the 200mm/300mm MedView Mounting Bracket

To attach the adaptor bracket to the base bracket, line up the three slots in adaptor plate with one of the sets of three attachment holes in the mounting plate using the provided bolts. As shown in Figure 12, there are three different sets of mounting holes in the base mount where the adaptor plate can be attached. As the adaptor incorporates a series of slots, fine height adjustment is available to allow the MedView to sit flat on top of the display.

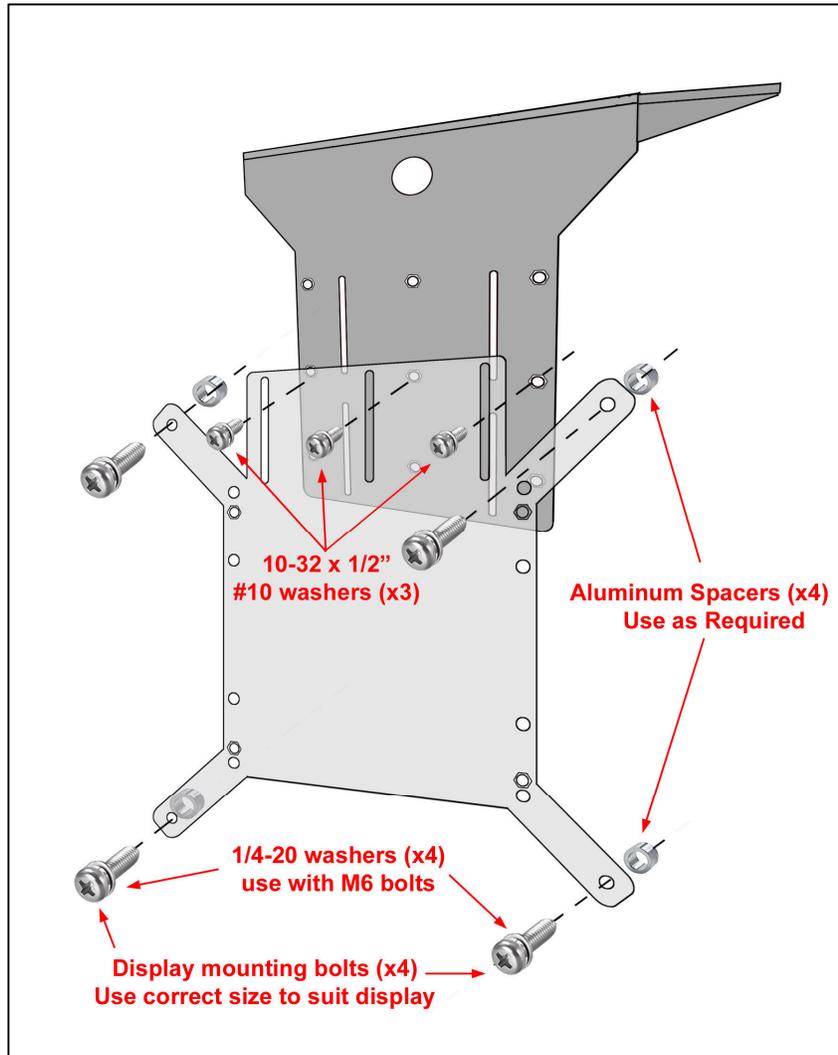


Figure 12. Attaching MedView Adaptor Plate to Mounting Bracket

Once the best location for attaching the adaptor plate to the standard bracket has been determined to match the display height, the combined assembly is mounted either directly to the display if it is desktop mounted, or sandwiched between the wall mounting bracket and display, as shown in Figure 10, above.

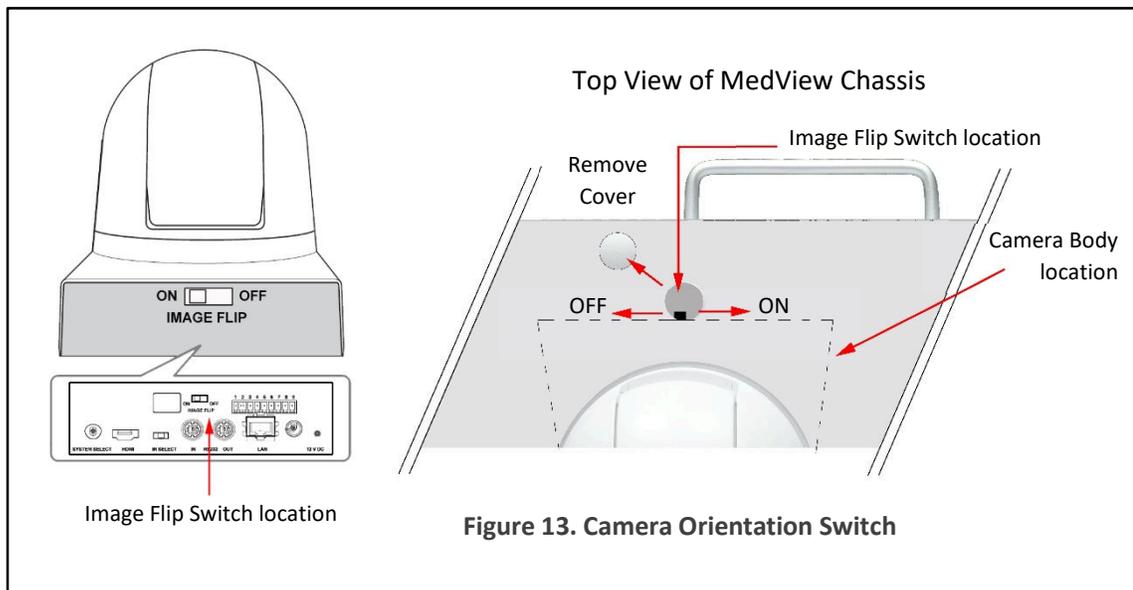
Depending on the physical size and shape of the display, it may be necessary to insert spacers between the MedView bracket and the display mounting locations. The MedView adaptor plate is supplied with a variety of different size bolts and spacers which will cover the majority of installation needs.

The customer is responsible for ensuring that the maximum weight (MedView plus Monitor plus brackets) can be supported by the existing wall mount.

- MedView System Weight (without cables): 17 Pounds
- Base 100mm x 100mm Mounting Bracket: 2.4 Pounds
- 200mm/300mm Adaptor Plate: 2.0 Pounds

Inverted Operation

In order to mount the MedView in an inverted mode, it is necessary to electronically “Flip” the image from the camera. This is achieved by removing the cover on the top of the MedView, directly behind the camera head. Once the cover has been removed, the “Flip” switch is revealed below the chassis allowing the camera electronic orientation to be changed.



Handling the MedView

Care should be taken when handling the MedView if it is moved to a different location, mounted on a mobile cart as well as when cleaning. If the camera is manually moved when the system is powered, it is no longer aware where it is pointing. This creates a fault condition where the camera will not move correctly, or at all, when being controlled from the local or far end, as well as returning to its standard or privacy position.

Figure 14 – Camera Fault Condition Indicator



Confirmation of this fault condition can be seen by an amber flashing light behind the front grill of the system, as shown in Figure 14 above. This fault condition can be easily rectified by re-booting the system; remove the AC Power, wait five seconds and then re-connecting the system to the AC power outlet.

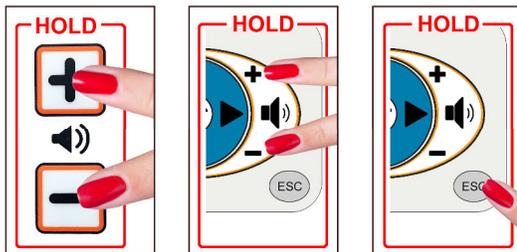
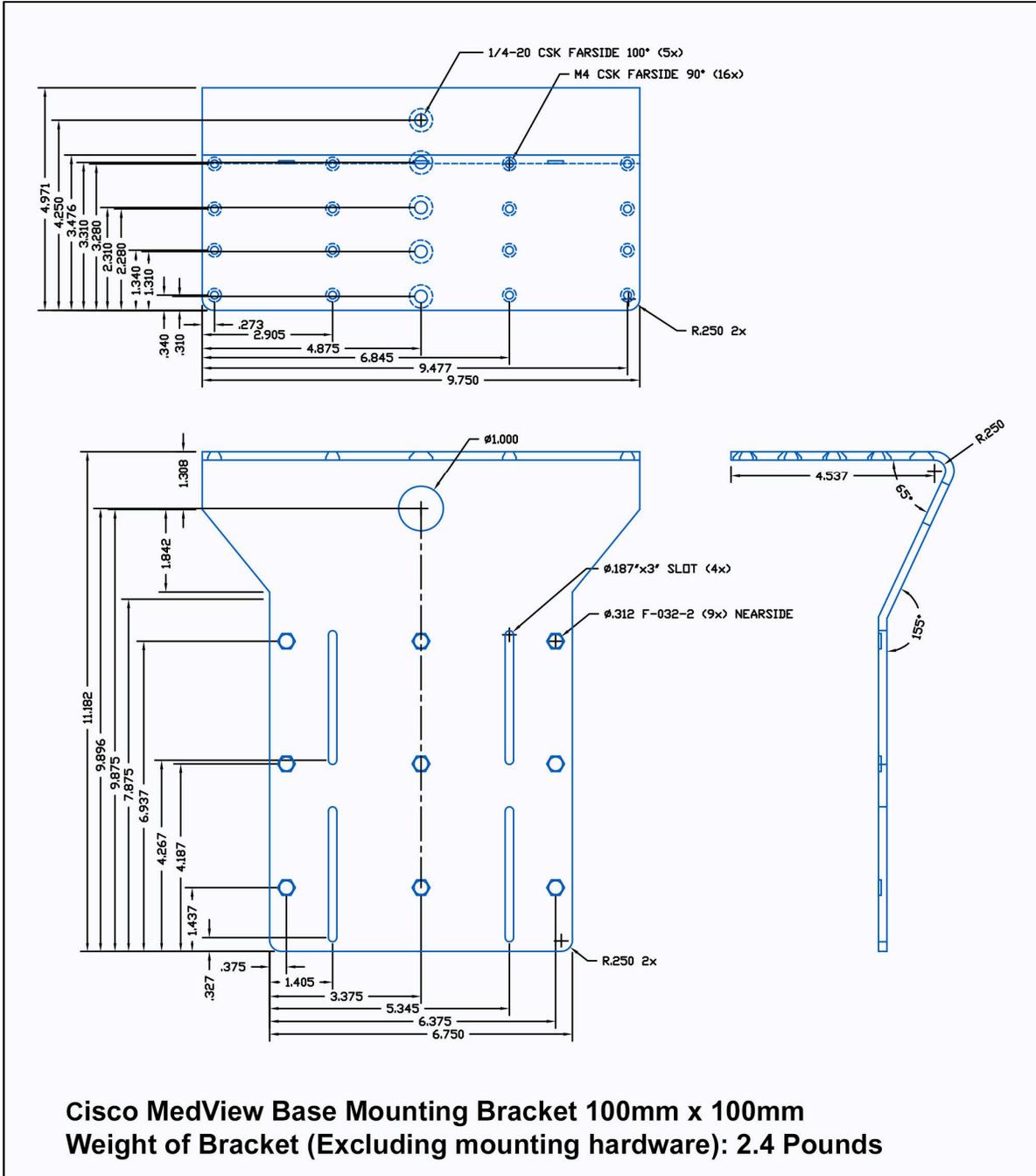


Figure 15 – Resetting the Camera

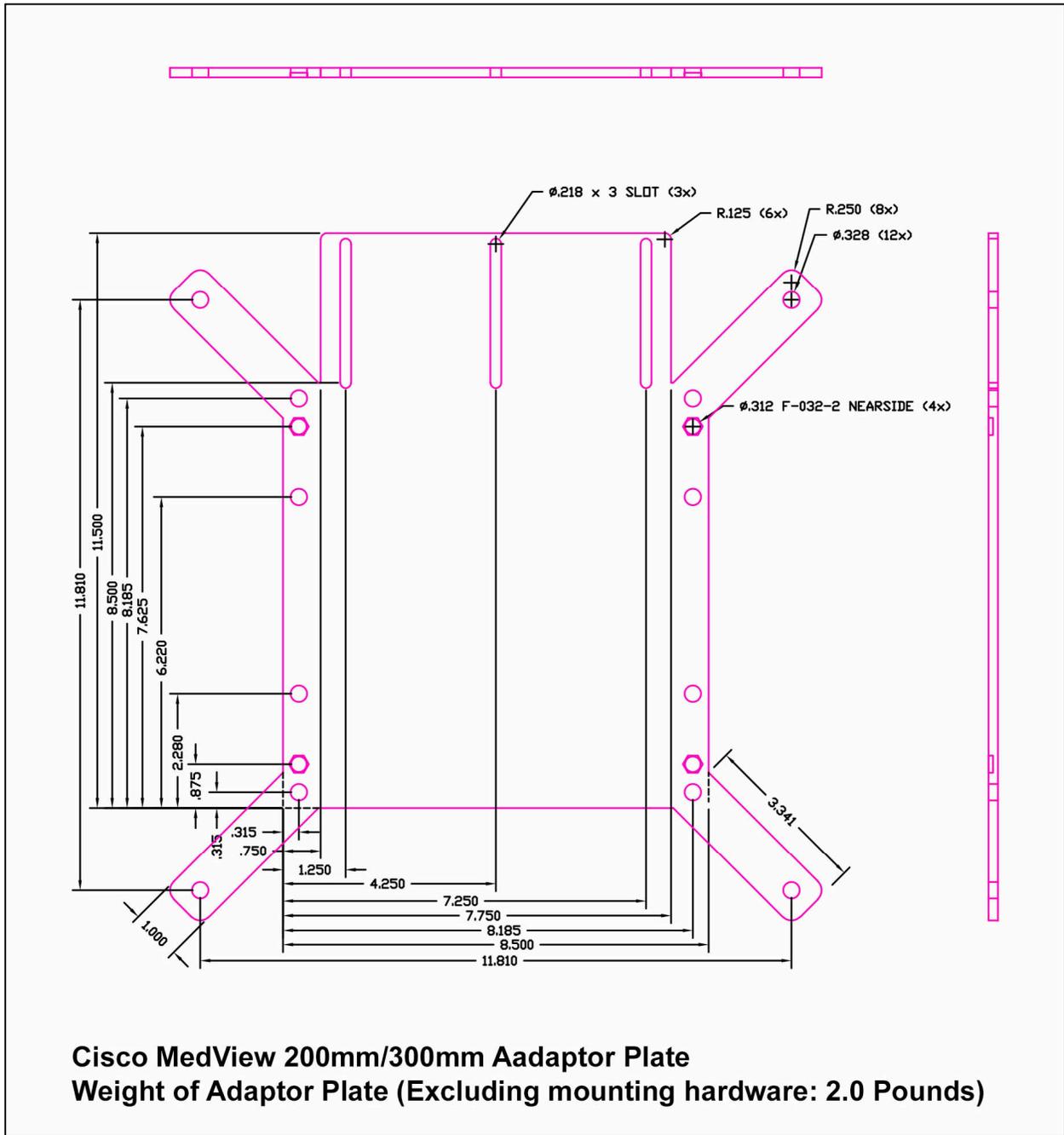
If the system has an optional Iron Bow tethered remote, the fault condition can be cleared by pressing and holding the Volume Up and Down buttons simultaneously for 5 seconds, or pressing the ESC Key for 5 seconds. The camera will then go through a short reset routine and resume normal pan/tilt operation.

Appendix A: Cisco MedView Base Mounting Bracket



Appendix B: Cisco MedView 200mm/300m Adaptor Plate

Mounting Bracket:



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