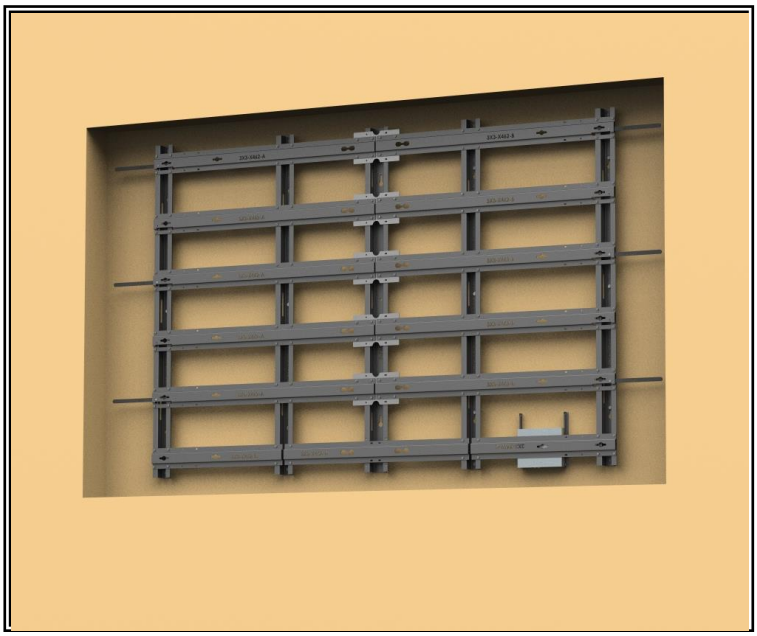
HoverTrack® Series VWD-3X3-X462

3 wide x 3 deep Video Wall Display Installation Guide

This display kit mounts NEC X461UN and X462UNS LCD monitors in a 3 wide by 3 deep landscape configuration. The frame attaches to a wall and receives the LCD monitors by way of four machined fittings (per monitor) that thread into the monitor's VESA holes. These fittings then insert into the frame's channels. The monitor's fittings secure to the frame with locking arms that provide an easy way to remove the monitors for service. A removable panel provides access for media players behind the frame.



Important: Installing video displays is a serious endeavor that requires experienced professionals. ***Improperly prepared walls and other structures as well as the equipment being installed can result in property damage, injury, death and/or liability to the installing contractor.*** Do not proceed if any part of the installation is in doubt.

Caution: Due to the wide variety of structures, environments, materials and installation methods, the installing contractor must exercise good judgment in selecting the proper mounting area. The mounting structure must be capable of supporting at least 5 times the load of the installed equipment. Consult local building codes for further guidance.

Follow these instructions for the most efficient and safest mounting results.

3 Wide x 3 Deep Video Wall Display (Rear View)

Package Contents:

1 pc	Left frame w/ locking arms
1 pc	Right frame w/ locking arms
1 pc	Lower center channel
6 pcs	Joiner bracket
1 pc	Joiner V-Channel
2 pcs	Media player mounting bracket
36 pcs	M6 Threaded stand-off buttons
15 pcs	Adjustable lag bolt/wall hanger w. nuts
1 pc	Instruction sheet

Notes:

Video wall frame must be assembled before proceeding. Refer to assembly guide sheet.
Hardware to mount video wall frames to wall is included.

Note:

The assembled frame weighs approximately 160 lb/73 Kg and requires two installers to mount it to the wall.

Step 1: Mount Frame to Wall
Scribe a horizontal line on the wall showing the exact location of where the top edge of the upper left monitor will be. Measure down **10.73" (272.5mm)** from that line and scribe another horizontal line showing the horizontal location of the first adjustable lag bolt **(Figure 1).**

Scribe a vertical line showing where the left side of the upper monitor will be. Measure to the right and scribe another vertical line **12.5" (317.5mm)** from the monitor's left vertical line to locate the vertical location of the first adjustable lag bolt (**Figure 1).**

Mark the intersection of the scribed vertical and horizontal line. This will be the location of the first adjustable lag bolt **(Figure 1).**

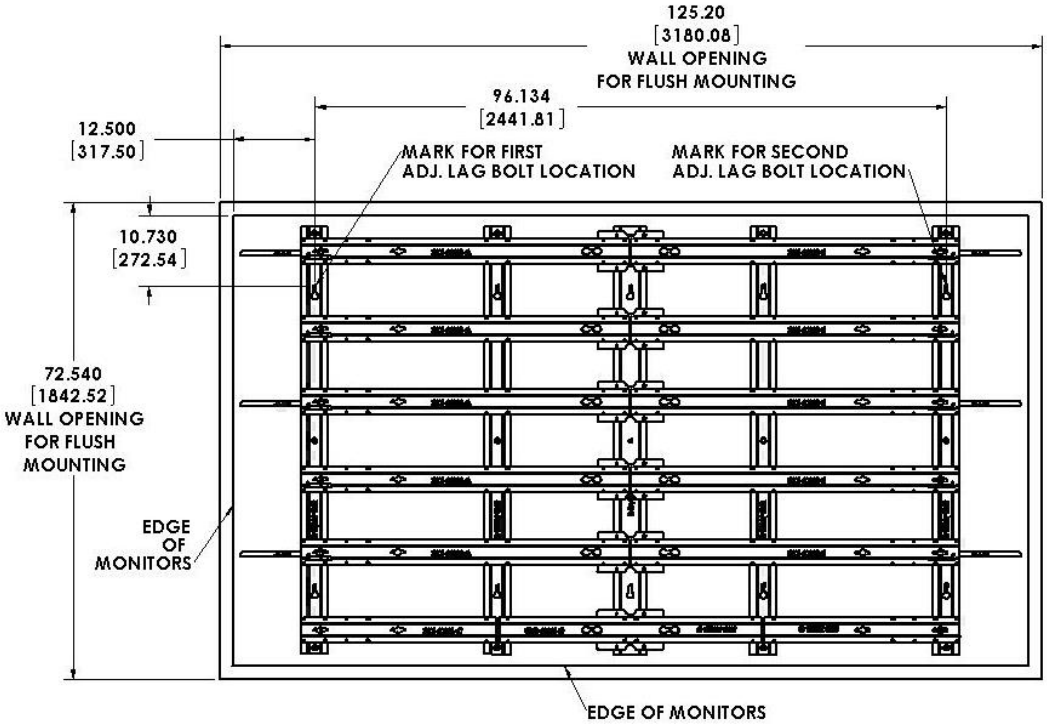


Figure 1

Measure **96.14" (2442mm)** to the right for the second adjustable lag bolt location. Use a long level to horizontally align the second hole location to the first marked location **(Figure 1)** Pre-drill the two marked holes using 3/16" (5mm) drill bit. Install the adjustable lag bolts to the pre-drilled holes (deep socket maybe required for installation).

Step 2:
Hang the video wall frame into the two adjustable lag bolts (Two or people required). Install the flat washer and hex nut onto the adjustable lag bolts. Level the video wall frame then tighten the hex nuts **(Figure 2 and 3).**

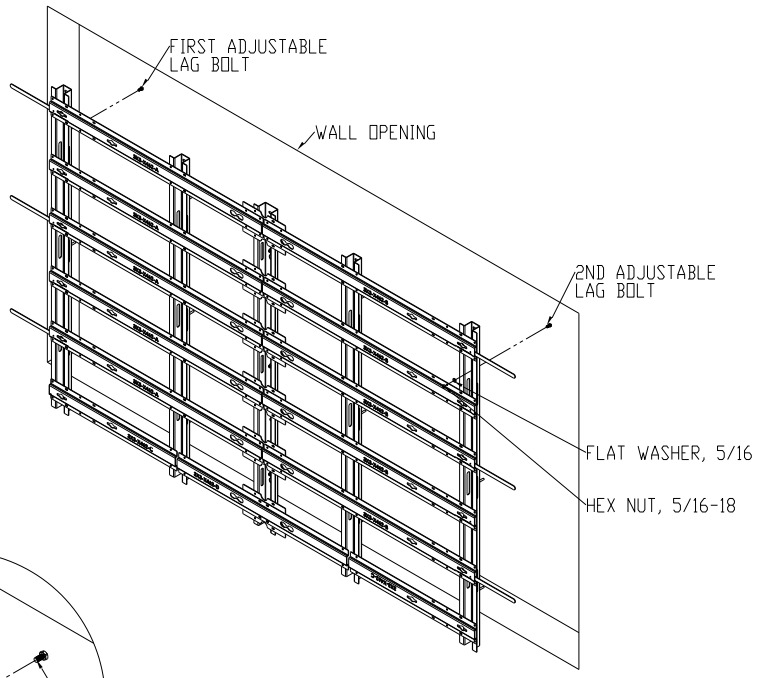


Figure 2

Step 3:
Use the frame as a template to mark the locations of the other adjustable lag bolts (All the upper keyholes, all the lower Keyholes and the center holes on the V-Channels **(Figure 4).**

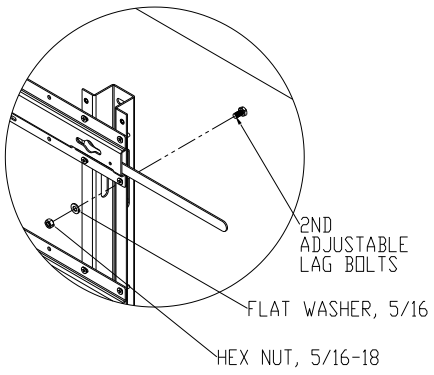


Figure 3

Step 4:
Loosen the hex nuts and washers securing the frame to the wall then remove and place the frame back on the floor. Pre-drill the mark location then install the adjustable lag bolts. Tighen adj. lag bolts until hex nut is flushed against the wall.

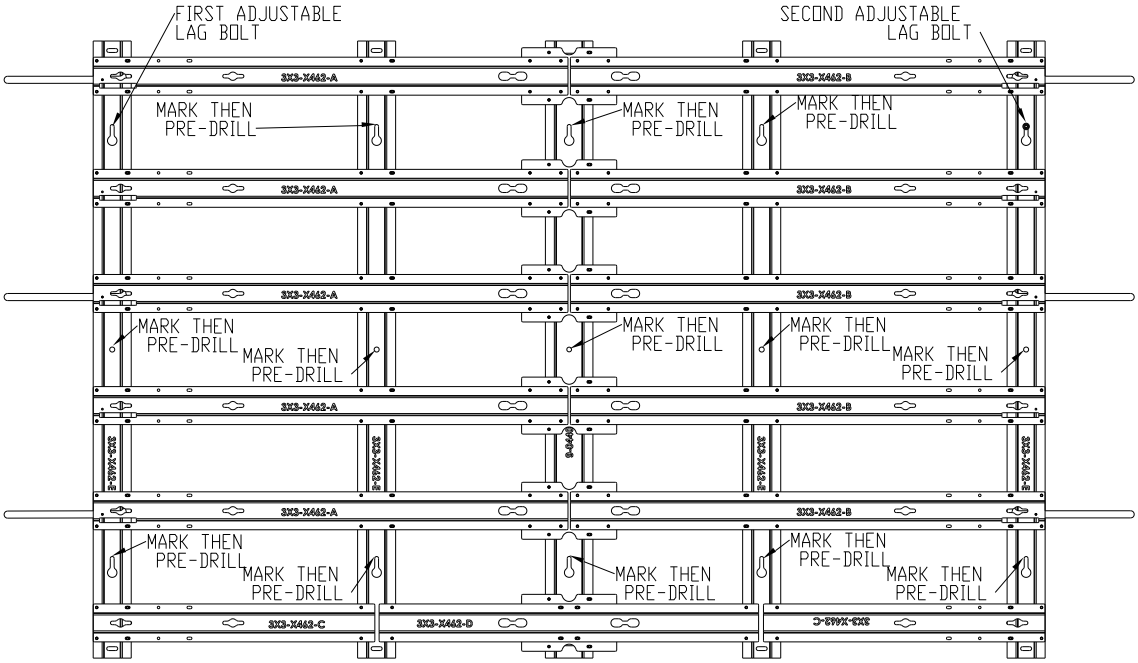


Figure 4

Re-hang the frame back to the adjustable lag bolts. Install the flat washers and hex nuts onto the adjustable lag bolts. Hand tighten hex nut only and do not fully tighten **(Figure 5).**

Step 5:
Use a level to plum the frame by rotating the adjustable lag bolts on the V-channels using the provided adjustment wrench **(Figure 6).** Rotate counter clockwise to pull the frame forward and clockwise to push the frame backward towards the wall. Use a long level or a straight edge to make the horizontal H-slat straight by adjusting the adjustable lag bolts closest to the H-slat. Once the frame is plumed and leveled, tighten all hex nuts permanently.

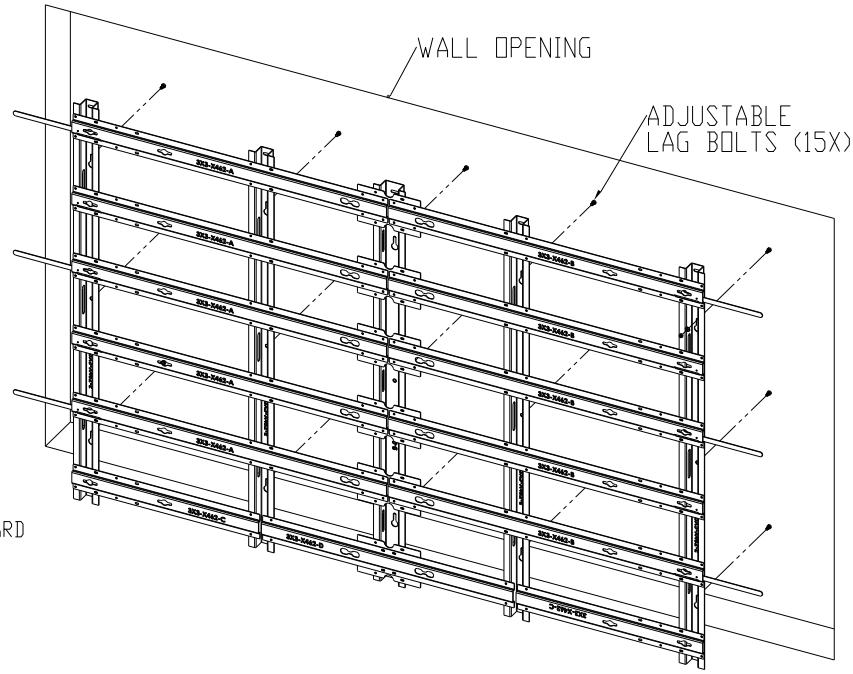


Figure 5

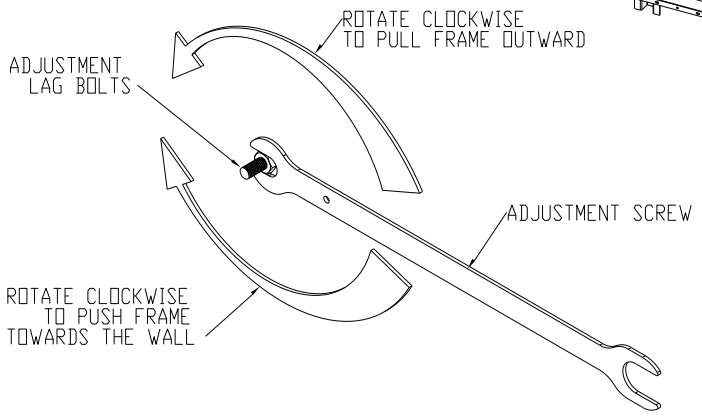


Figure 6

Step 6: Install Brackets to Media Player
Attach the media player brackets to the sides of the media player using its existing side screws. The feet of the media player must be against the wall **(Figure 7).**

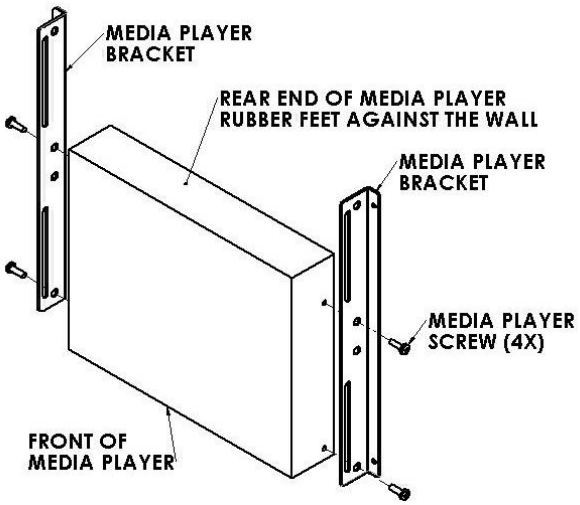


Figure 7

Step 7: Install Media Player
Choose and remove the bottom left or right lower side H-slat by unscrewing its flat head screws **(Figure 8).** Install the media player to the wall in between the two vertical V-channels using the appropriate fasteners for the media player's brackets (Figure 8). Re-install the bottom lower side H-slat.

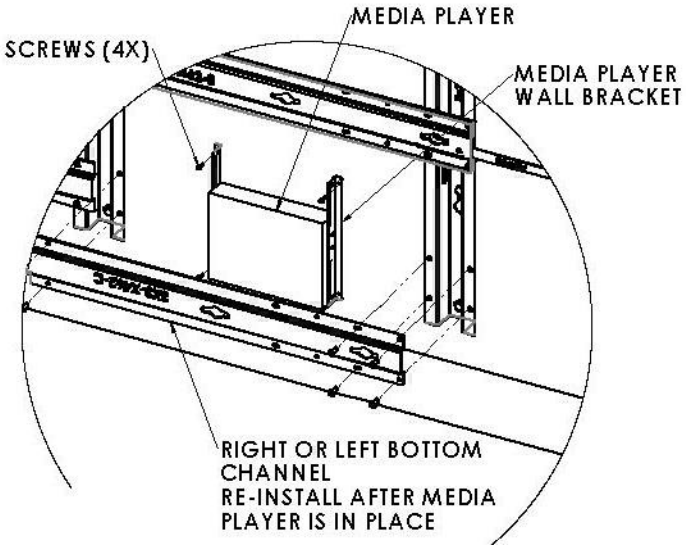


Figure 8

Step 8: Install M6 Threaded stand-off buttons to monitors
Thread four M6 threaded standoff-buttons (black) into the outer VESA mounting holes at the back of each monitor. Snugly tighten buttons **(Figure 9).**

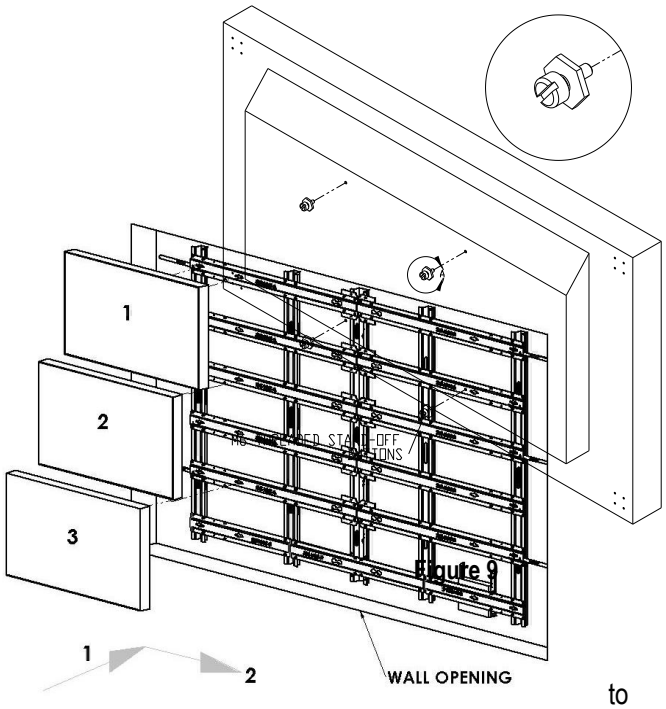


Figure 9

Step 9: Install Monitors to the Left Column
Lift up the locking arms on the left side of the frame. Starting with the upper left monitor, connect power and signal wires to each monitor then align its four M6 stand-off buttons with the four large slots in the H-slats then slide the monitor from left to right until it stops. Pull down the locking arm to lock monitor into place (Figure 10). Repeat step 9 for the two lower monitors.

Figure 10

Step 10: Note on alignment:
While installing monitors, check for front and side alignment of the monitors. The surfaces of all monitors must be aligned and flush to each other. If one or more screens are tilted more than others use the adjustment wrench to reach the hex portion of the M6 threaded buttons at the rear of the monitor and rotate counter clockwise to pull the front of the monitor forward or clockwise to push it back towards the wall. If access to the rear is not accessible remove the screen(s) and depending whether the monitor needs to be tilted forward or backward rotate the buttons using the adjustment wrench or a flat head screw driver **(Figure 11).** Reinstall and recheck surface alignments. Repeat where necessary.

Step 11: Install Center Column Monitors
Starting with the top center monitor, connect the power and signal wires to each monitor then align its four M6 threaded stand-off buttons with the four large slots in the H-slats. Slide the monitor from right to left until it is snug against the left column monitor **(Figure 12).** Repeat step 11 for the two lower monitors. Check for front and side alignments-refer to Step 10.

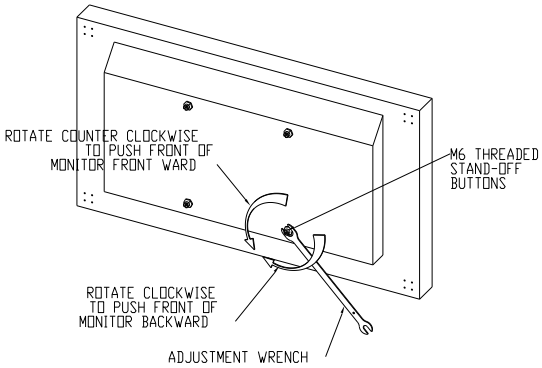


Figure 11

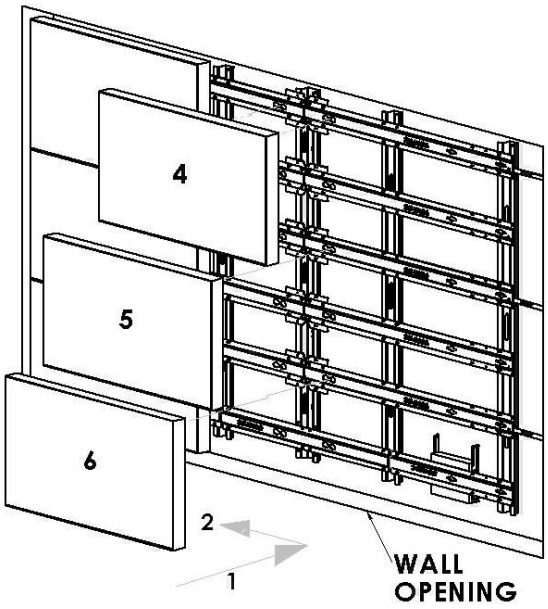


Figure 12

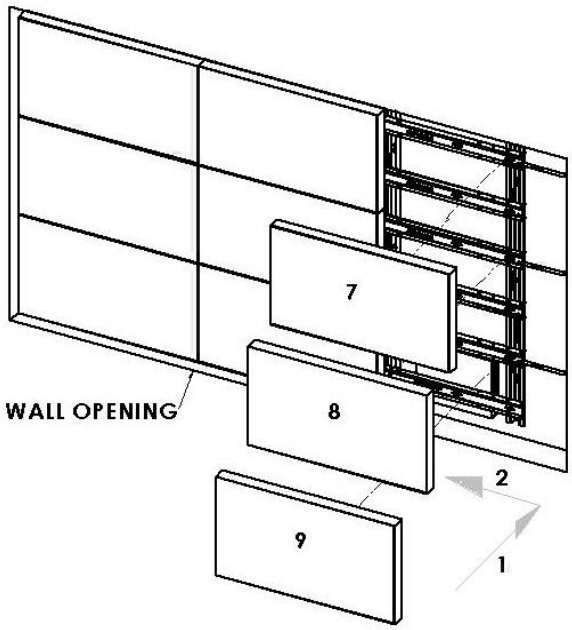


Figure 13

Step 12: Install Right Column Monitors
Lift up the locking arms on the left side of the frame. Starting with the upper right monitor, connect power and signal wires to each monitor then align its four M6 stand-off buttons with the four large slots in the H-slats. Slide the monitor from right to left until it is snug against the center column monitor. Pull down the locking arm to lock monitor into place **(Figure 13).** Repeat step 12 for the two lower monitors. Check for front and side alignments-refer to Step 10.

Servicing Tips (Figure 14)
Right Column Monitor Removal
Reach fingers between the wall and the right monitor and lift the locking arm. Slide monitor to the right until its fittings disengage from the frame, then pull away from the wall to remove.

Center Column Monitor Removal
Reach fingers between the right side wall and the monitor to the right of the monitor being removed. Lift the locking arm then slide the monitor to it extreme right position, about 50 mm. Slide the center monitor to the right until its fittings disengage from the frame, then pull away from the wall to remove.

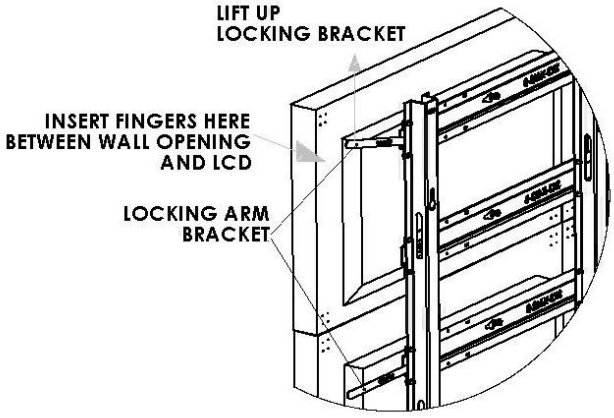


Figure 14

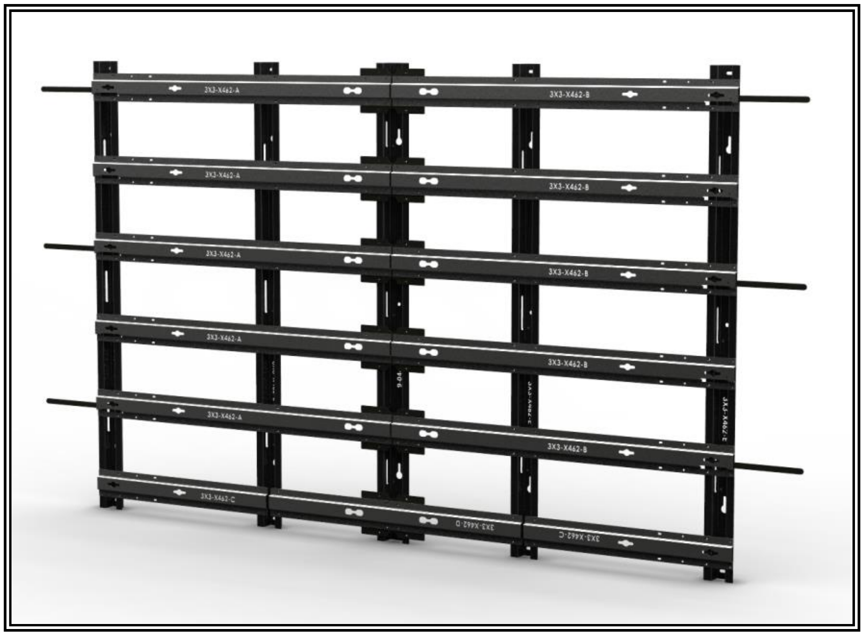
Left Column Monitor Removal
Reach fingers between the wall and the left monitor and lift the locking arm. Slide monitor to the left until its fittings disengage from the frame, then pull away from the wall to remove.

HoverTrack® Series

VWD-3X3-X462

Assembly Installation Guide

Important: Assembling video displays is a serious endeavor that requires experienced professionals. ***Improperly assembled equipment can result in property damage, injury, death and/or liability to the installing contractor.*** Contact manufacturer if any part of the assembly is in doubt.



Follow these instructions for the most efficient and safest assemble results.

Package Contents:

5 pcs	3X3-X462-VWD-A 3X Left H-Slat
5 pcs	3X3-X462-VWD-B 3X Right H-Slat
2 pcs	3X3-X462-VWD-C 3X-4X Lower Side H-slat
1 pc	3X3-X462-VWD-D 3X Lower Center H-Slat
4 pcs	3X3-X462-VWD-E 3X V-Channel
1 pc	9-0440 3X Joiner V-Channel
6 pcs	9-0425 3X Joiner plate
6 pcs	3X3-X462-VWD-F Lock Arm Bracket
6 pcs	Nylon/friction washer, .28 IDx.74OD, white
6 pcs	Phil. Pan head screw, M4-12mm long
6 pcs	Nyloc nut, M4
164 pcs	Flat head phil. Screw, M6x20mm long

Step 1:

Check hardware to make sure it is complete to assemble the parts. Refer to package contents.

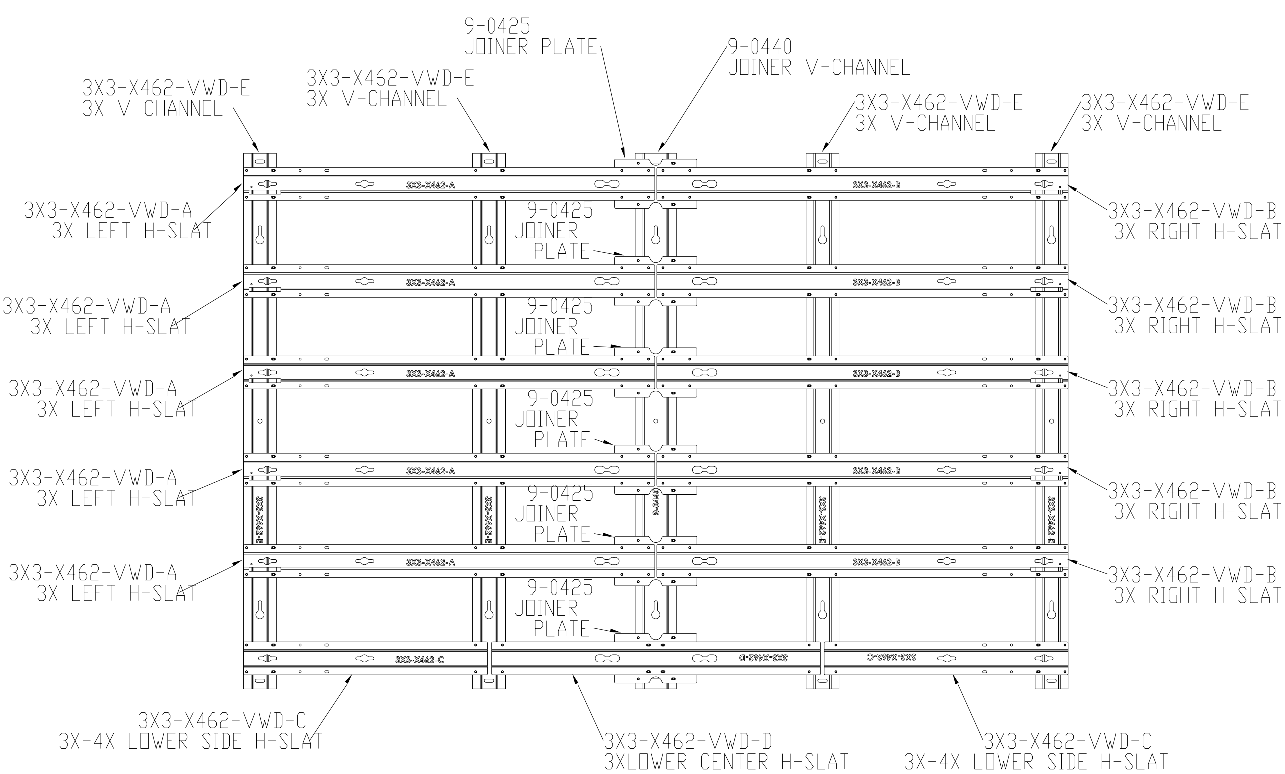


Figure 1

Step 2:
Lay all the parts on a flat floor to make sure all the parts are accounted for **(Figure 1).**

Start with placing the 3X3-X462-VWD-E 3X V-Channel and 9-04440 joiner v-channel on the floor facing up as shown in figure 1. Make sure the large hole of the key holes slots are all on the lower end and facing same direction **(Figure 1).**

Place 5 pieces of 9-0425 joiner plate over the 9-0440 joiner v-channel **(Figure 1).**

Place five pieces of 3X3-X462-VWD-A left H-slat on the left side over the 3X3-X462-VWD-E v-channel with the horizontal keyholes facing up and the rectangular open slots facing down. Place the five pieces of 3X3-X462-VWD-B right H- slat on the right side over the 3X3-X462-VWD-E V-channel with the horizontal keyholes facing up and the rectangular open slot facing down **(Figure 1 and 2).**

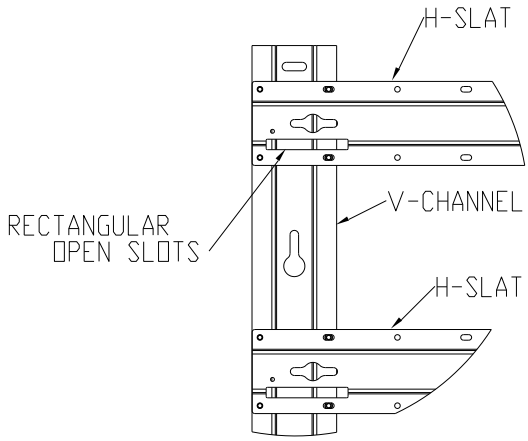


Figure 2

Place a 3X3-X462-VWD-C 3X-4X lower side H-slat on the lower right side and one on lower left side of the frame. Place a 3X3-X462-VWD-D 4X lower center H-slat on the lower center of the frame **(Figure 1).**

All the ends of the H-slats (3X3-X462-VWD-A and 3X3-X462-VWD-B) with the rectangular slots opening should be on the sides of the frame **(Figure 2).**

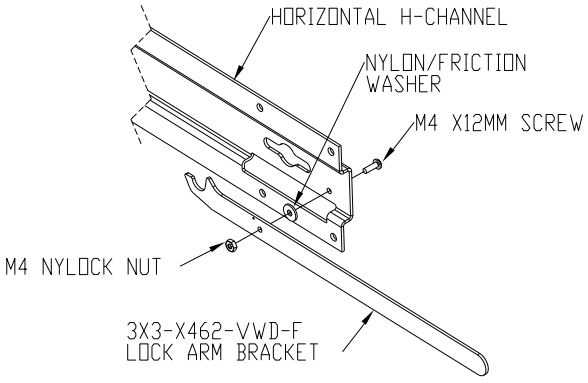


Figure 3

Step 3: Install Locking Arm brackets
Assemble the 3X3-X462-VWD-F lock arm bracket on **THREE** of the 3X3-X462-VWD-A left H-slat and THREE on the 3X3-X462-VWD-B right H-slat using the provided M4 screws, nylon/friction washer and nylock nut **(Figure 3).** The lock arm brackets must be installed on the FIRST, THIRD and FIFTH horizontal H-slats starting from the top **(Figure 4).** Tighten screw to achieve friction on the lock arm bracket.

Step 4: Assemble the Left Frame.
Attach H-slats, (3X3-X462-VWD-A, 3X3-X462-VWD-C) onto the V-channels using the provided M6x20mm long flat head screws. Do not tighten screws until all screws are installed **(Figure 5).**

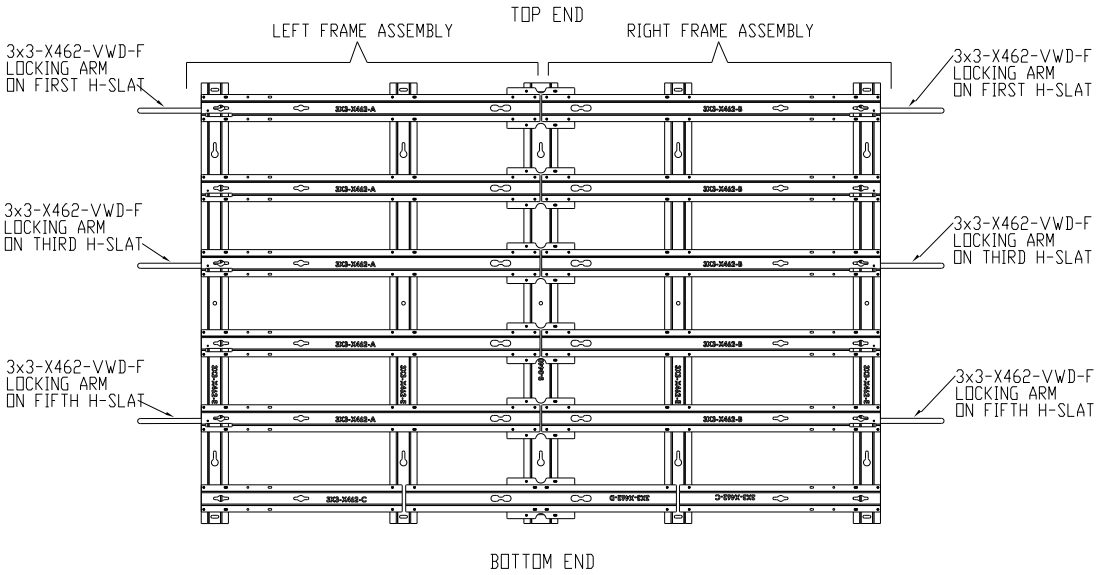


Figure 4

Step 5: Assemble the Right Frame.
Attach H-slats, (3X3-X462-VWD-B, 3X3-X462-VWD-C) onto the V-channels using the provided M6x20mm long flat head screws. Do not tighten screws until all screws are installed **(Figure 6).**

Step 6:
Join the left frame and right frame together using the Joiner plates (9-0425) with the provided M6 flat head screws. Attach the joiner plate/frame assy to the joiner V-Channel (9-0440) using the provide M6 flat head screws **(Figure 7).**

Step 7:
Attach the 3X3-X462-VWD-D 3X lower center H-slat to the lowest joiner plate then to the v-channel to complete the frame assembly **(Figure 7).**

Step 8:
Check squareness of the each frame then tighten all screws permanently.

Step 9:
Refer to product installation guide for installation.

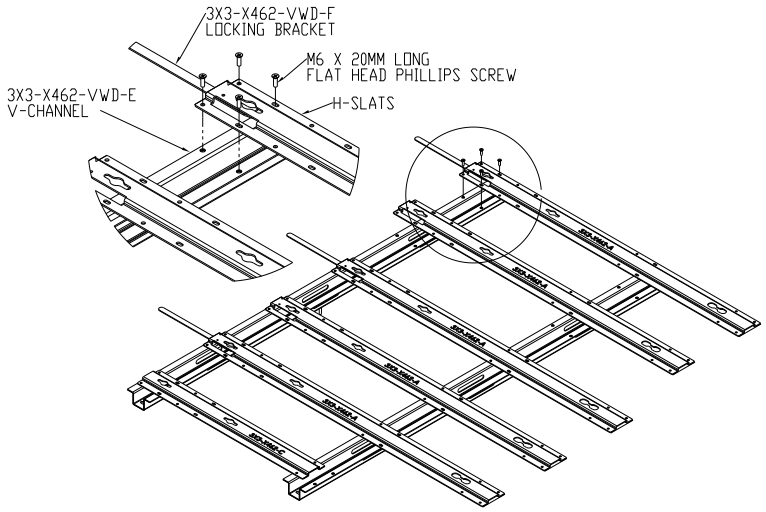


Figure 5: Left Frame Assembly

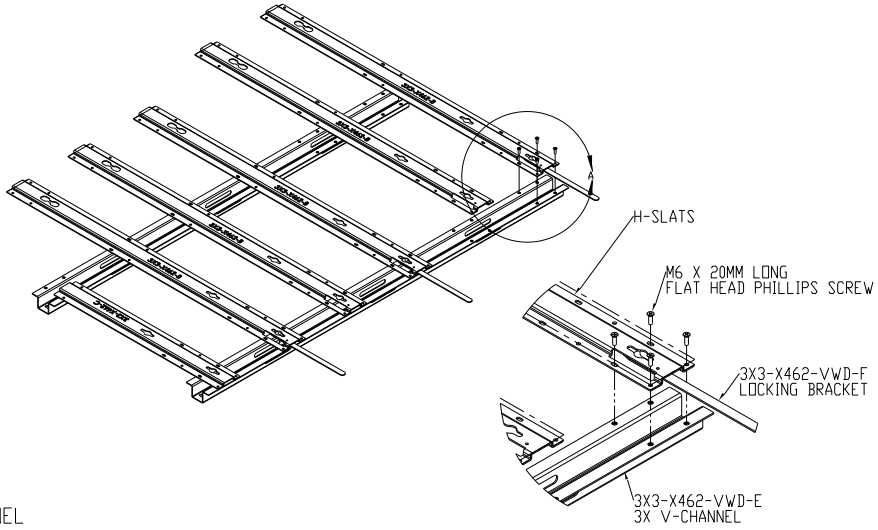


Figure 6: Right Frame Assembly

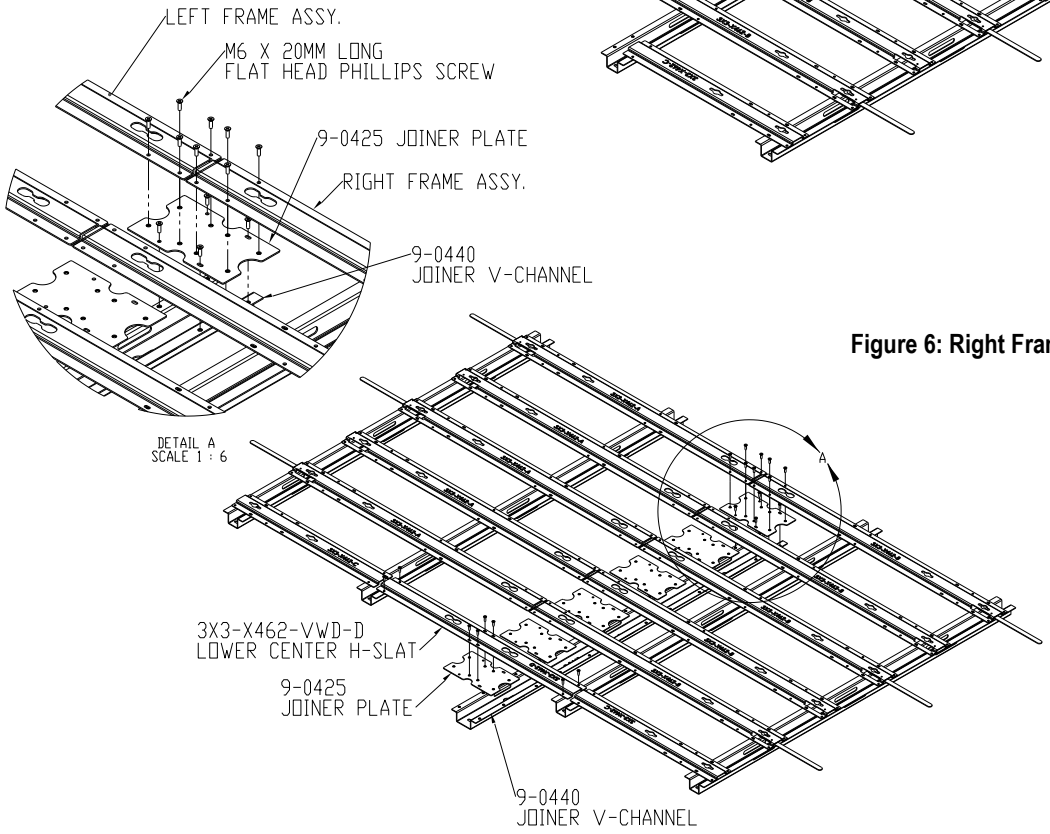


Figure 7

