

HoverTrack® Series

VWD-3X3-X463

3 wide x 3 deep Video Wall Display Installation Guide

This display kit mounts NEC X463UN 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.

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 Adjustable VESA buttons
- 15 pcs Adjustable lag bolt/wall hanger w/ nuts
- 1 pc Installation guide 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.



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

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 **12.26" (311.5)** 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 **16.66" (423.1)** 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**).

Measure **87.8" (2230mm)** 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 until hex nut is flushed to the wall (deep socket maybe required for installation).

Step 2:

Hang the video wall frame into the two adjustable lag bolts (Two or more 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**).

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 3**).

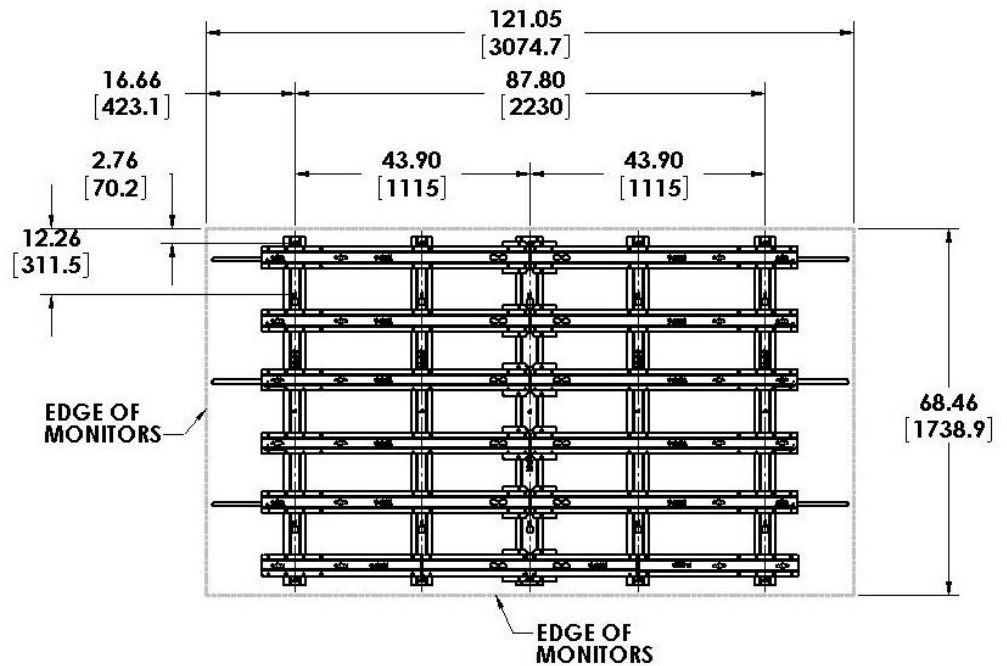


Figure 1

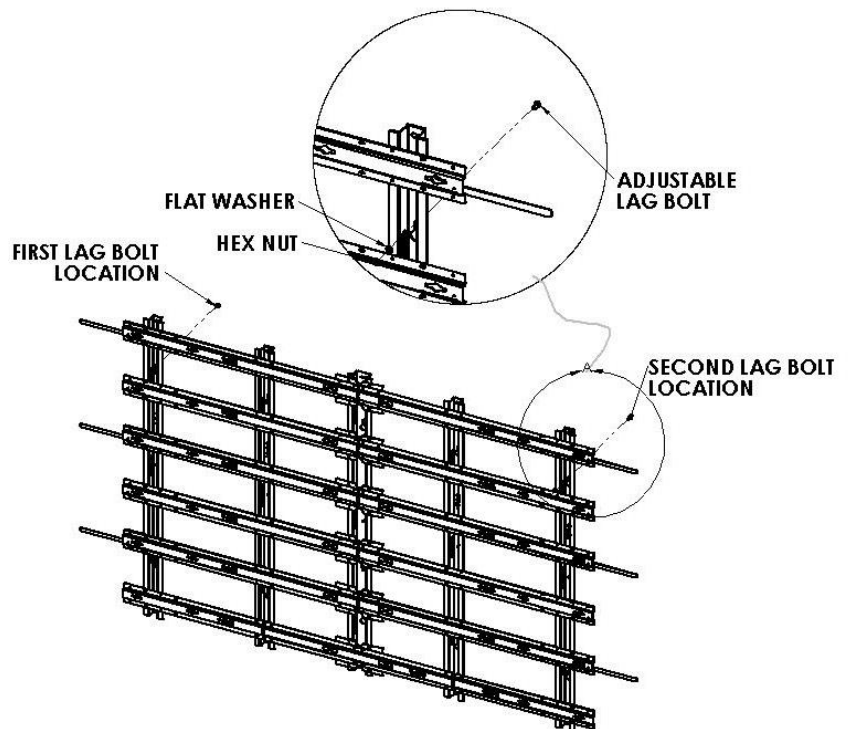


Figure 2

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 marked location then install the adjustable lag bolts. Tighten adj. lag bolts until hex nut is flushed against the wall.

Re-hang the frame back to the adjustable lag bolts then install the flat washers and hex nuts onto the adjustable lag bolts. Hand tighten hex nut only and do not fully tighten (**Figure 4**).

Step 5:

Use a level or string to plum the frame by rotating the adjustable lag bolts on the V-channels using the provided adjustment wrench (**Figure 5**). Rotate counter-clockwise to pull the frame forward and clockwise to push the frame backward towards the

wall. Use a long level, a straight edge or a string to make the horizontal H-slat straight by adjusting the adjustable lag bolts closest to the H-slat. Once the frame is plumbed and leveled, tighten all hex nuts permanently.

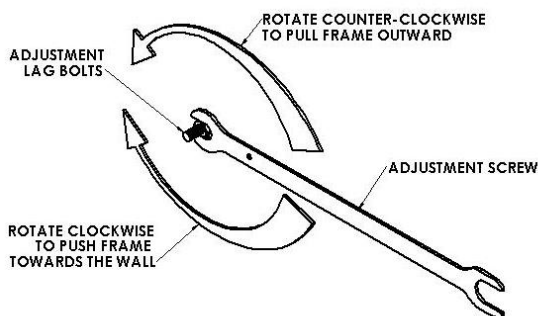


Figure 5

Step 6: Install Brackets to Media Player (Optional)

Attach the media player brackets to the sides of the media player using its existing side screws (**Figure 6**).

Step 7: Install Media Player (Optional)

Choose and remove the bottom left or right lower side H-slat by unscrewing its flat head screws (**Figure 7**). 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.

Step 8: Install M6 Threaded stand-off buttons to monitors

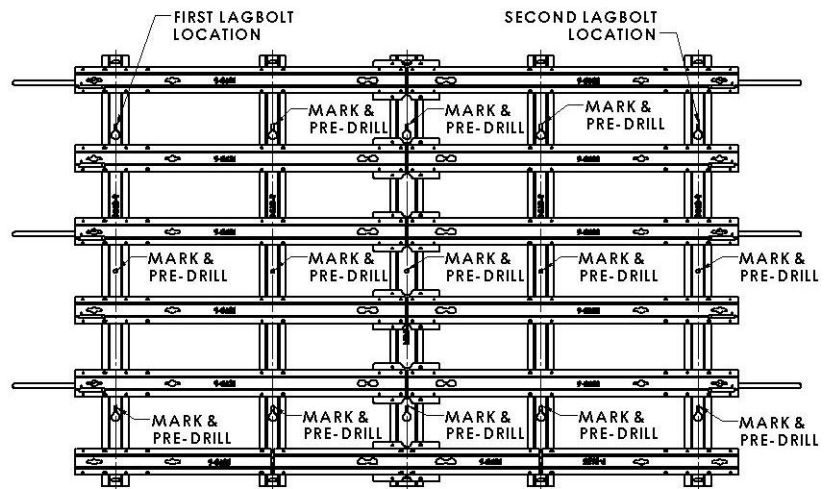


Figure 3

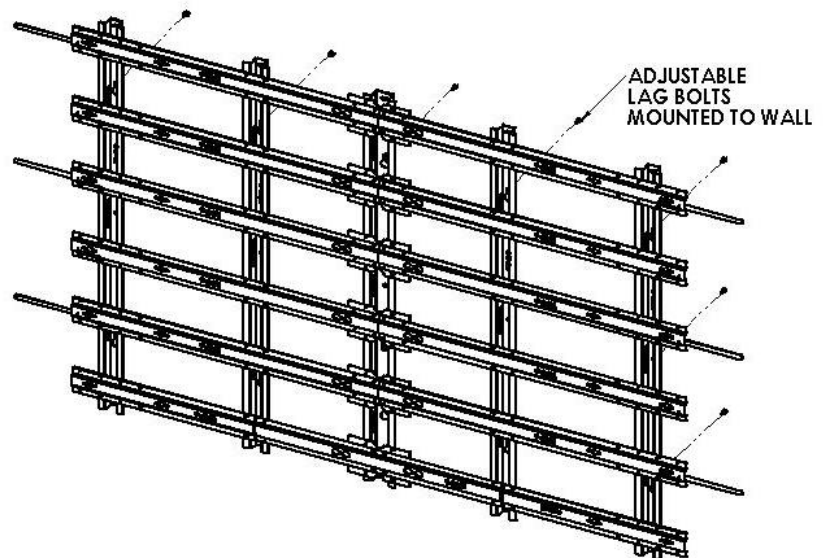


Figure 4

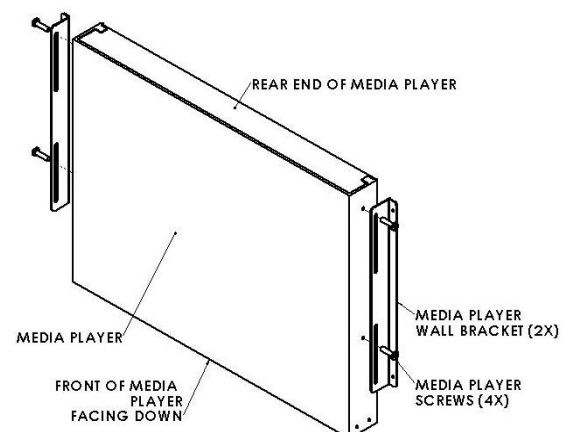


Figure 6

Thread four M6 adjustable VESA buttons (black) into the outer VESA mounting holes at the back of each monitor. Snugly tighten buttons (**Figure 8**).

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 adjustable VESA 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 9**). Repeat step 9 for the two lower monitors.

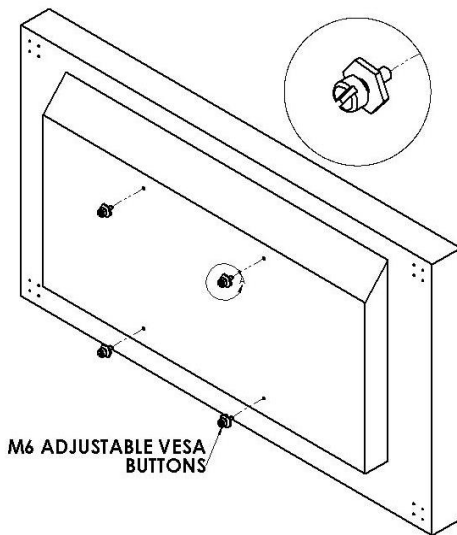


Figure 8

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-

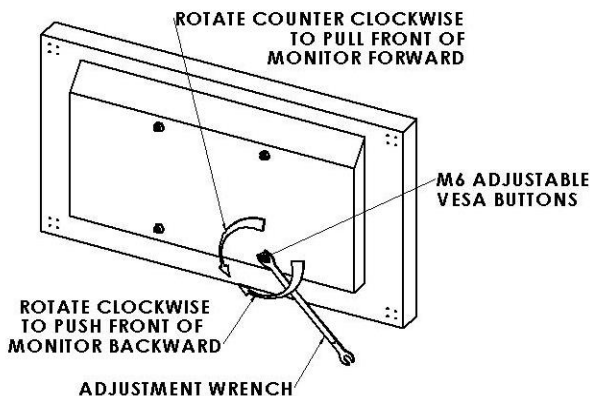


Figure 10

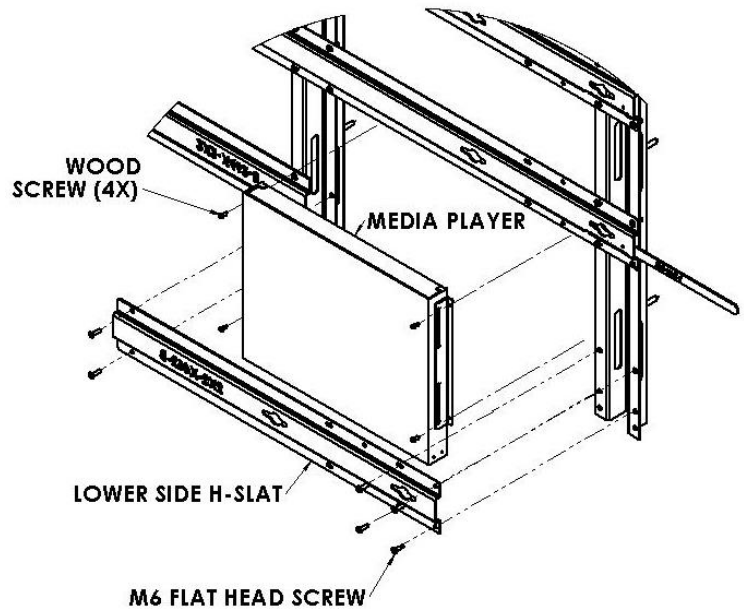


Figure 7

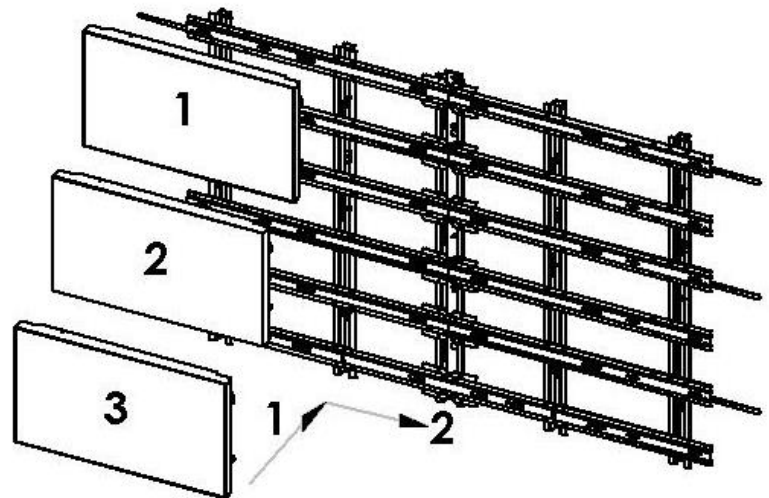


Figure 9

clockwise to pull the front of the monitor forward and 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, a flat head screw driver or fingers (**Figure 10**). 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 adjustable VESA 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 11**). Repeat step 11 for the two lower monitors. Check for front and side alignments-refer to Step 10.

Step 12: Install Right Column Monitors

Lift up the locking arms on the right side of the frame. Starting with the upper right monitor, connect power and signal wires to each monitor then align its four M6 adjustable 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 12**). Repeat step 12 for the two lower monitors. Check for front and side alignments-refer to Step 10.

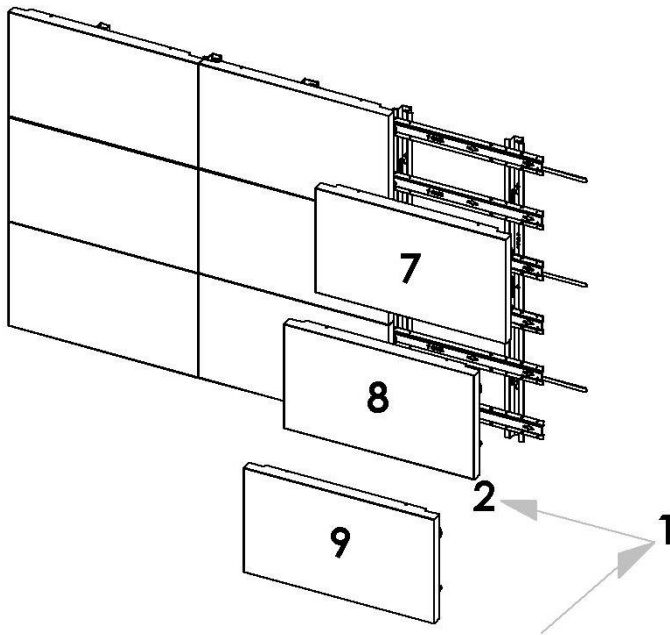


Figure 12

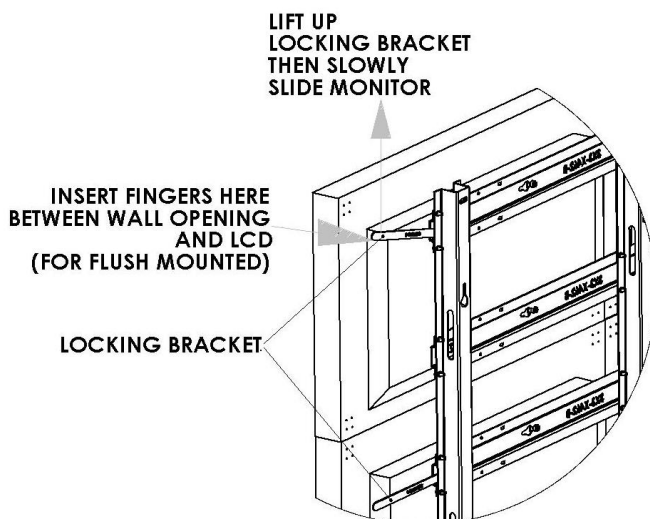


Figure 13

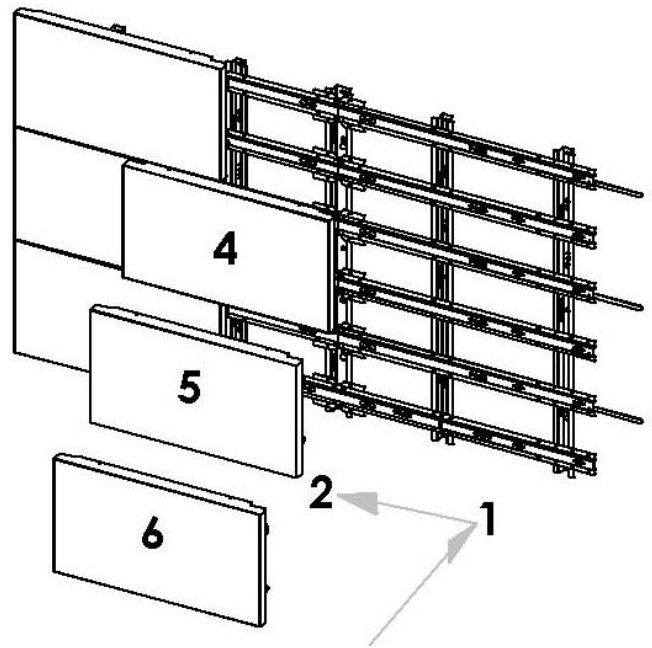


Figure 11

Servicing Tips (Figure 13)-Two person required

Right Column Monitor Removal

Reach fingers between the wall and the right monitor and lift up the locking arm to unlock. 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 up the locking arm to unlock then slide the monitor to its extreme right position, about 2" (50 mm). Slide the center monitor to the right until its fittings disengage from the frame, then pull away from the wall to remove.

Left Column Monitor Removal

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