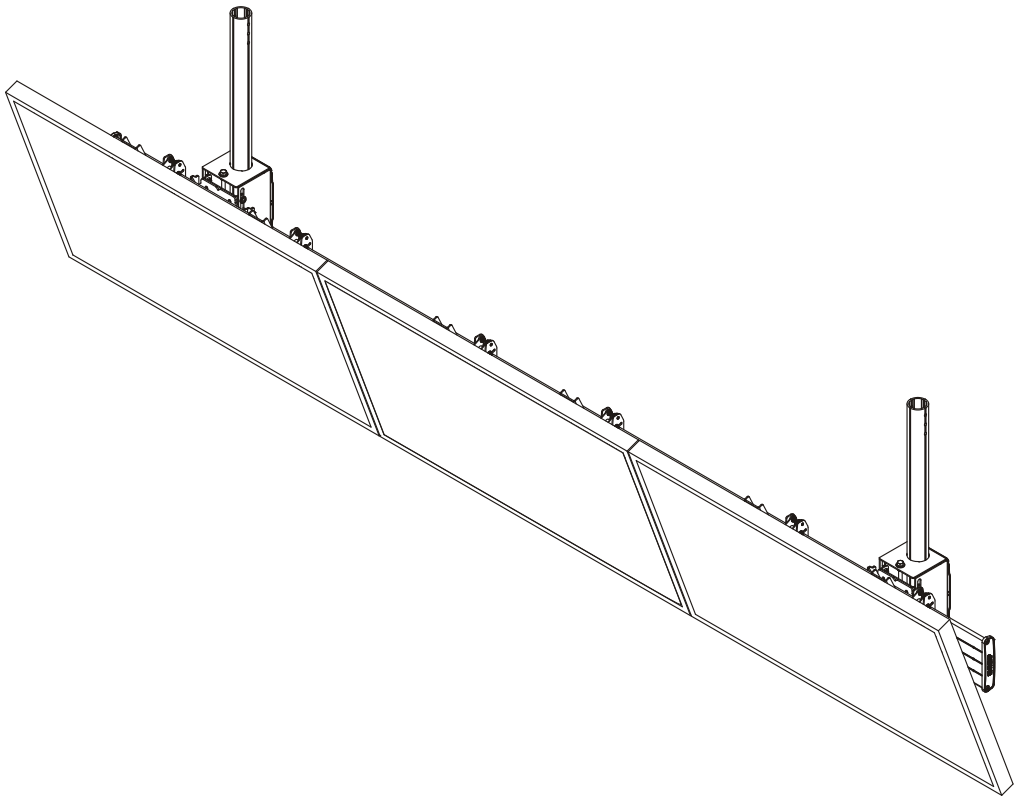
INSTALLATION INSTRUCTIONS



Ceiling-Mounted Menu Boards

CHIEF®

A brand of legrand®

LCM3X1UM

DISCLAIMER

Legrand | AV and its affiliated corporations and subsidiaries (collectively Legrand | AV), intend to make this manual accurate and complete. However, Legrand | AV makes no claim that the information contained herein covers all details, conditions or variations, nor does it provide for every possible contingency in connection with the installation or use of this product. The information contained in this document is subject to change without notice or obligation of any kind. Legrand | AV makes no representation of warranty, expressed or implied, regarding the information contained herein. Legrand | AV assumes no responsibility for accuracy, completeness or sufficiency of the information contained in this document.

Chief® is a registered trademark of Legrand AV Inc.

DEFINITIONS

MOUNTING SYSTEM: A MOUNTING SYSTEM is the primary Chief product to which an accessory and/or component is attached.

ACCESSORY: AN ACCESSORY is the secondary Chief product which is attached to a primary Chief product, and may have a component attached or setting on it.

COMPONENT: A COMPONENT is an audiovisual item designed to be attached or resting on an accessory or mounting system such as a video camera, CPU, screen, display, projector, etc.

WARNING: A WARNING alerts you to the possibility of serious injury or death if you do not follow the instructions.

CAUTION: A CAUTION alerts you to the possibility of damage or destruction of equipment if you do not follow the corresponding instructions.

IMPORTANT SAFETY INSTRUCTIONS

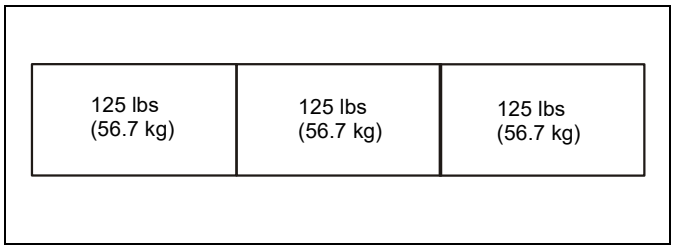
WARNING: Failure to read, thoroughly understand, and follow all instructions can result in serious personal injury, damage to equipment, or voiding of factory warranty! It is the installer's responsibility to make sure all mounting systems are properly assembled and installed using the instructions provided.

WARNING: Failure to provide adequate structural strength for this mounting system can result in serious personal injury or damage to equipment! It is the installer's responsibility to make sure the structure to which this mounting system is attached can support five times the combined weight of all equipment. Reinforce the structure as required before installing the mounting system.

WARNING: Exceeding the weight capacity can result in serious personal injury or damage to equipment! It is the installer's responsibility to make sure the combined weight of all components located within the mounting system of the LCM3X1UM models does not exceed maximum weights listed in Table 1.

Table 1: Weight Capacity

MODEL	Max Weight Allowed for EACH Display	Max Weight Capacity of Mounting System
LCM3X1UM	125 lbs (56.7 kg)	375 lbs (170.1 kg)



WARNING: Never operate this mounting system if it is damaged. Return the mounting system to a service center for examination and repair.

WARNING: Use this mounting system only for its intended use as described in these instructions. Do not use attachments not recommended by the manufacturer.

WARNING: Do not use this product outdoors.

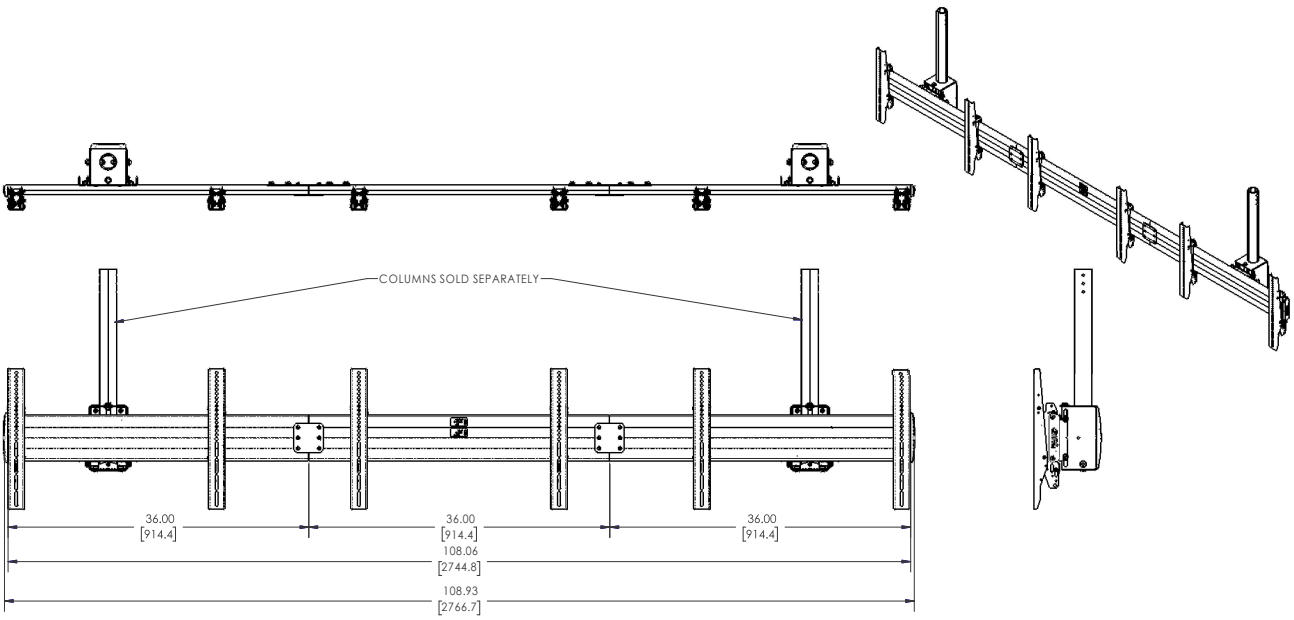
NOTE: The LCM3X1UM ceiling mounted menu boards are intended to be used with the UL Listed CPA Ceiling Plates (not included): CPA330, CPA365, CPA395.

The following UL Listed Chief ceiling plates WITHOUT swaged collars (not included) may also be used: CMA330, CMA345, CMA395.

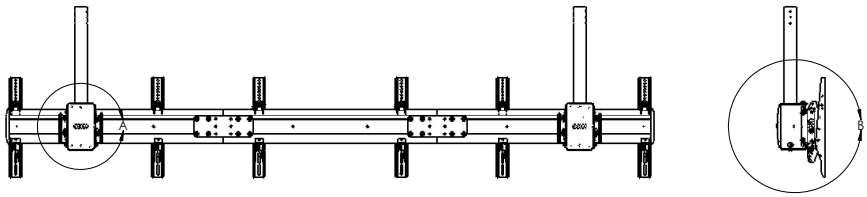
NOTE: The LCM3X1UM ceiling mounted menu boards are intended to be used with the UL Listed extension brackets FCAX08, FCAX14, and FCAX20.

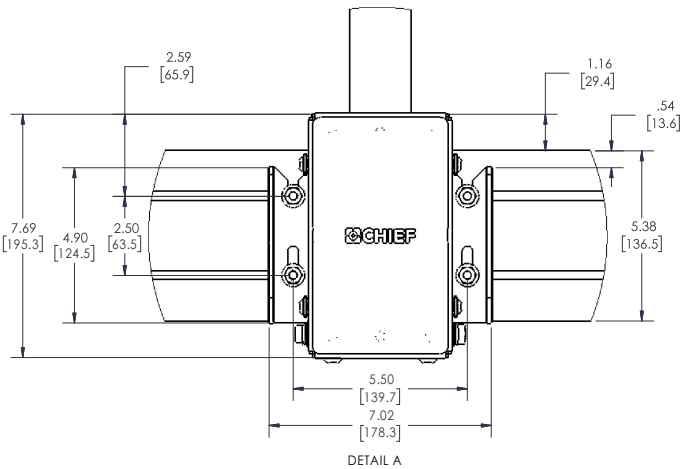
--SAVE THESE INSTRUCTIONS--

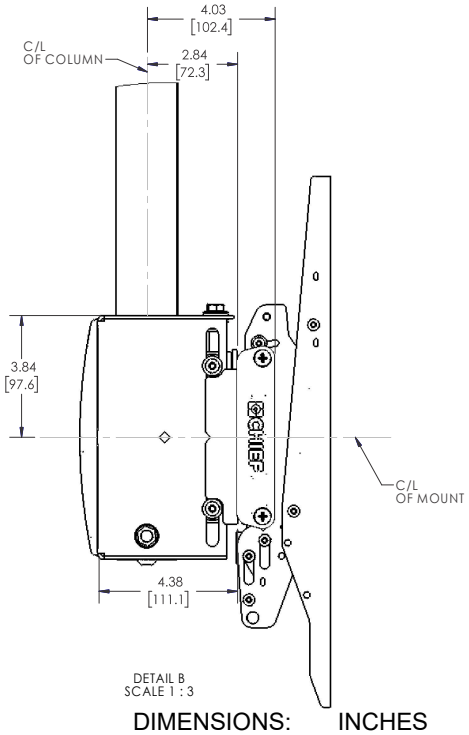
DIMENSIONS



3 WIDE LANDSCAPE					
EXTRUSION LENGTH (IN)	MINIMUM SCREEN WIDTH TO HIDE BAR (IN)	MOUNTING PATTERN WIDTH (MM)	DISTANCE BETWEEN SCREENS (IN)	MAX SCREEN WIDTH (IN)	TOTAL SCREEN WIDTH (IN)
108	36.3	600	0.0625	41.11	123.46
		400		45.05	135.28
		300		47.02	141.19
		200		48.99	147.10

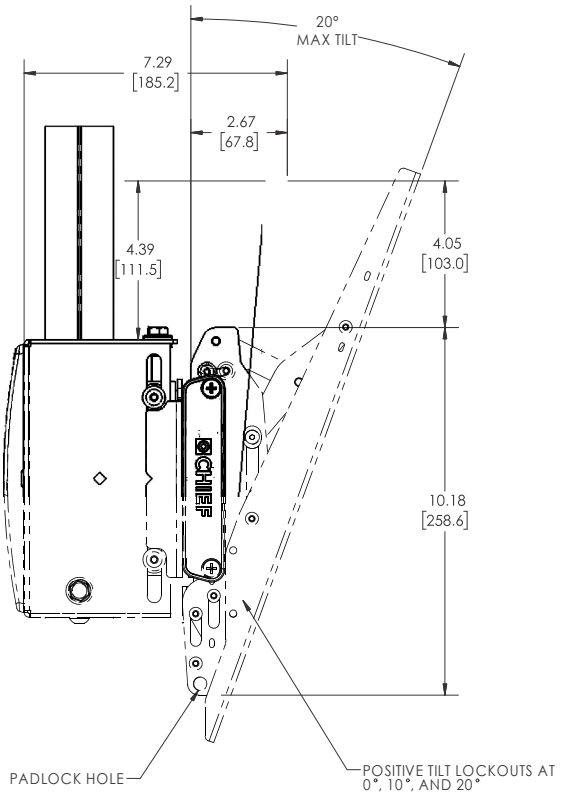


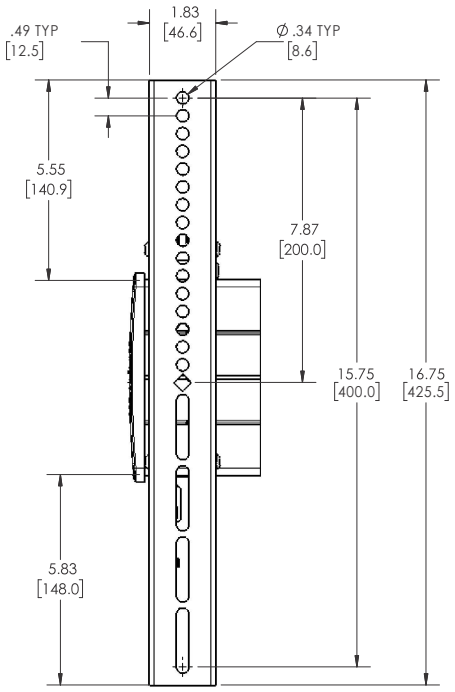


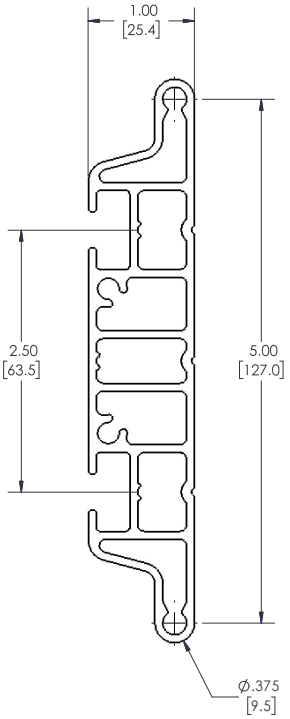


DIMENSIONS: INCHES [MILLIMETERS]

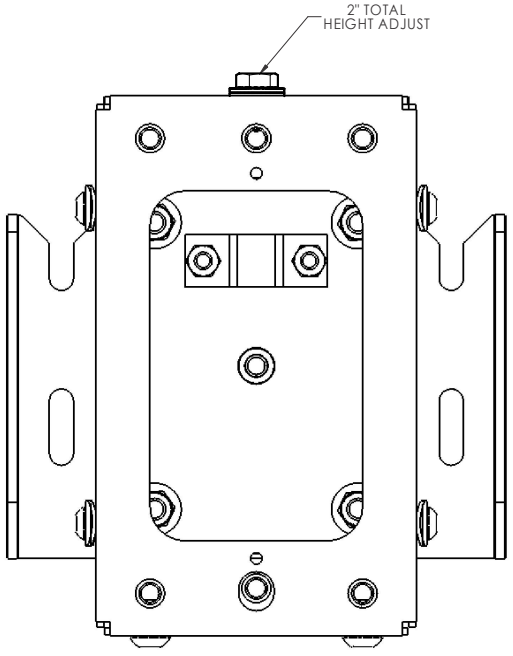
DIMENSIONS (continued)







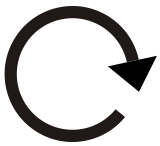
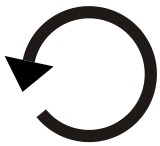
EXTRUSION PROFILE



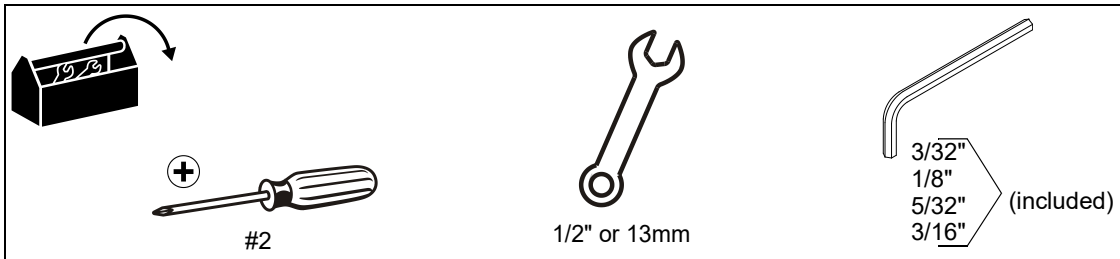
MOUNTING HEAD
BACK VIEW

DIMENSIONS: INCHES
[MILLIMETERS]

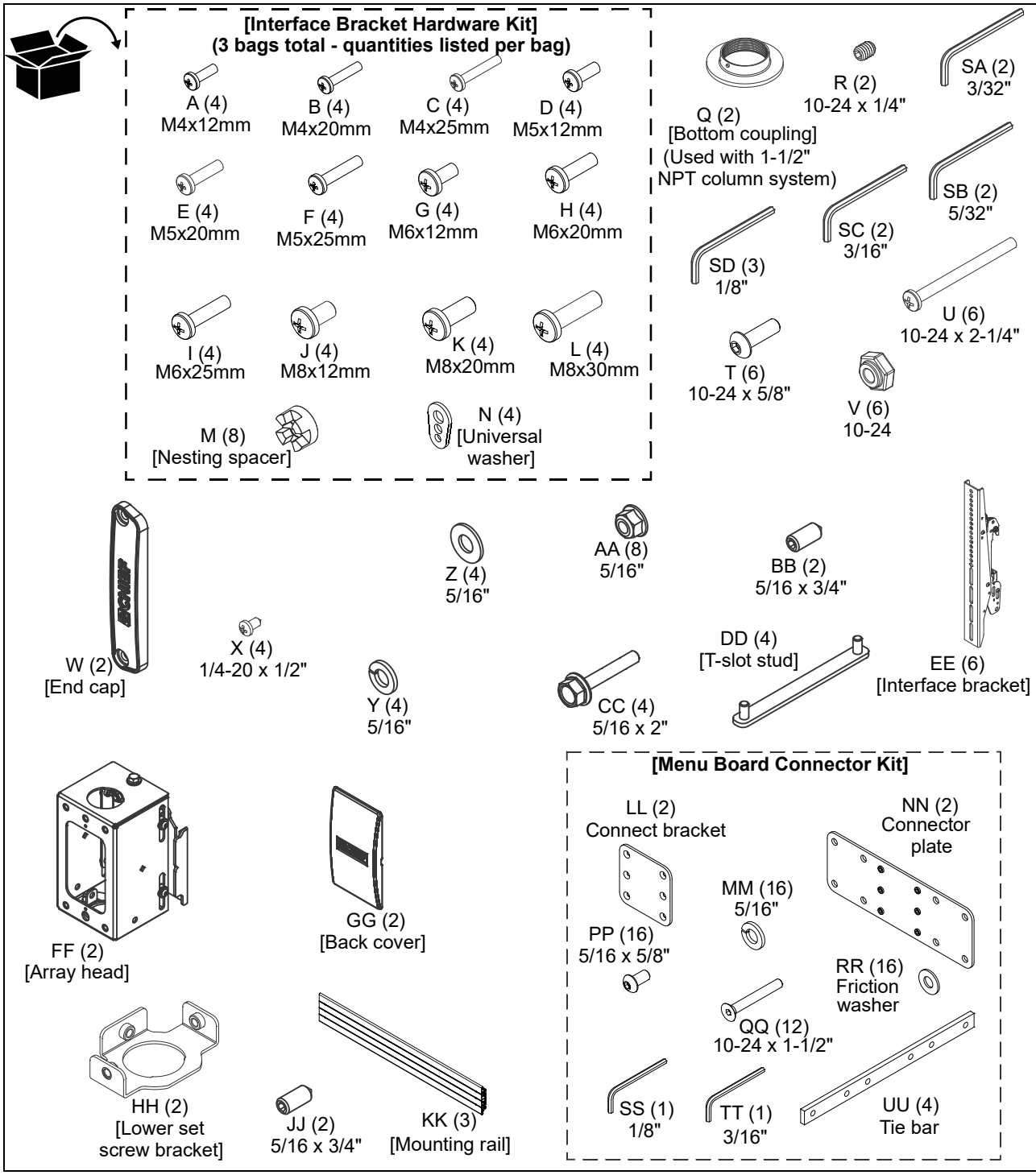
LEGEND

	Tighten Fastener Apretar elemento de fijación Befestigungsteil festziehen Apertar fixador Serrare il fissaggio Bevestiging vastdraaien Serrez les fixations
	Loosen Fastener Aflojar elemento de fijación Befestigungsteil lösen Desapertar fixador Allentare il fissaggio Bevestiging losdraaien Desserrez les fixations
	Phillips Screwdriver Destornillador Phillips Kreuzschlitzschraubendreher Chave de fendas Phillips Cacciavite a stella Kruiskopschroevendraaier Tournevis à pointe cruciforme
	Open-Ended Wrench Llave de boca Gabelschlüssel Chave de bocas Chiave a punte aperte Steeksleutel Clé à fourche
	By Hand A mano Von Hand Com a mão A mano Met de hand À la main
	Hex-Head Wrench Llave de cabeza hexagonal Sechskantschlüssel Chave de cabeça sextavada Chiave esagonale Zeskantsleutel Clé à tête hexagonale
	Pencil Mark Marcar con lápiz Stiftmarkierung Marcar com lápis Segno a matita Potloodmerkteken Marquage au crayon
	Drill Hole Perforar Bohrloch Fazer furo Praticare un foro Gat boren Percez un trou
	Adjust Ajustar Einstellen Ajustar Regolare Afstellen Ajuster
	Remove Quitar Entfernen Remover Rimuovere Verwijderen Retirez
	Optional Opcional Optional Opcional Opzionale Optie En option
	Security Wrench Llave de seguridad Sicherheitsschlüssel Chave de segurança Chiave di sicurezza Veiligheidssleutel Clé de sécurité

TOOLS REQUIRED FOR INSTALLATION



PARTS



INSTALLATION

NOTE: The following procedure assumes that 2 UL Listed CPA or CMA ceiling plates (not included) and 2 UL Extension Column CPA Series (not included) have been properly installed following instructions provided with ceiling plates and extension columns.

- The ceiling plates and columns should be installed approximately spaced at center of outside screens. (See **Dimensions** drawings.)

IMPORTANT ! : The weight of the system should be evenly distributed across two ceiling plates.

NOTE: Proceed to **Attaching Mount to NPT Column** section or **Attaching Mount to CPA Extension Column** section, as appropriate.

Attaching Mount to 1-1/2" NPT Column

1. Turn the array head (FF) upside down. (See Figure 1)
2. Remove **AND SAVE** two button head screws from array head. (See Figure 1)
3. Remove and discard inner bracket from array head. (See Figure 1)

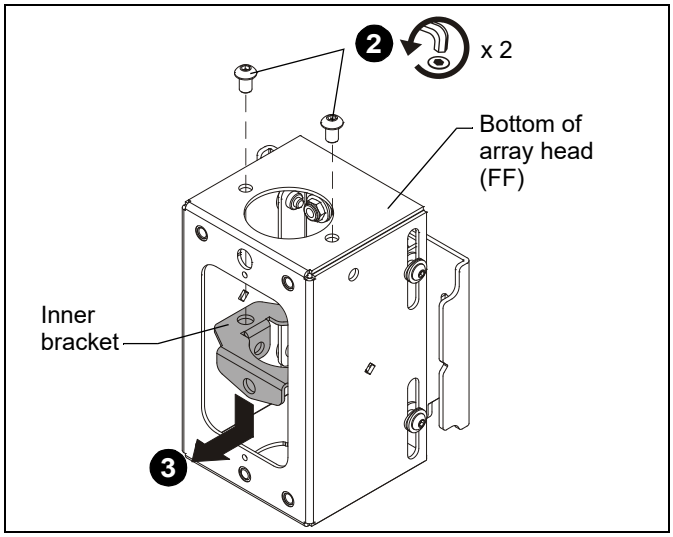


Figure 1

CAUTION: WATCH FOR PINCH POINTS! Do not place fingers between movable parts.

4. Turn array head upright. (See Figure 2)
5. Turn adjustment bolt on top of array head to slide plate up and enlarge opening on front of array head. (See Figure 2)
6. Insert lower set screw bracket (HH) into array head (FF) with three tabs towards sides and back. (See Figure 2)
7. Fasten bracket (HH) into place in bottom of array head using buttonhead screws (removed in Step 2) through sides of array head and into side tabs of bracket (HH). (See Figure 2)
8. Slide plate (raised in Step 5) back into position by turning adjustment bolt on top of array head. (See Figure 2)
9. Repeat Steps 1 through 8 for remaining array head (FF).

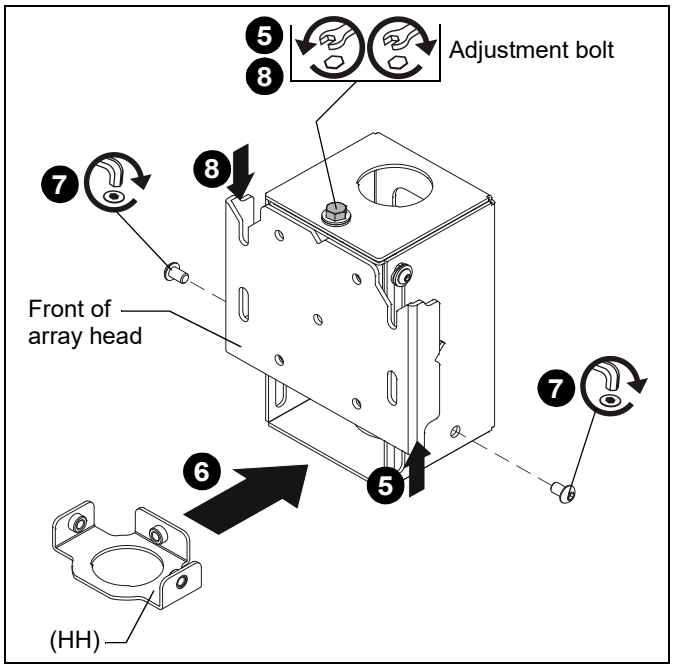


Figure 2

10. Slide array head (FF) up from below onto installed column (not included). (See Figure 3)
11. Thread bottom coupling (Q) onto installed column until tight, with a minimum of four threads engaged. (See Figure 3)
12. Install and tighten one 10-24 x 1/4" set screw (R) into bottom coupling (Q). (See Figure 3)

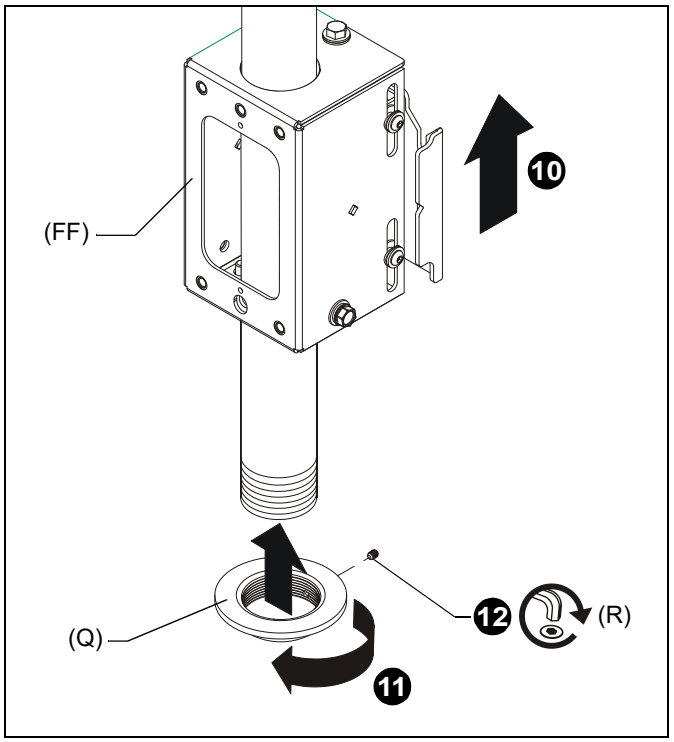


Figure 3

13. Tighten two 5/16" x 3/4" set screws (BB) against column. (See Figure 4)

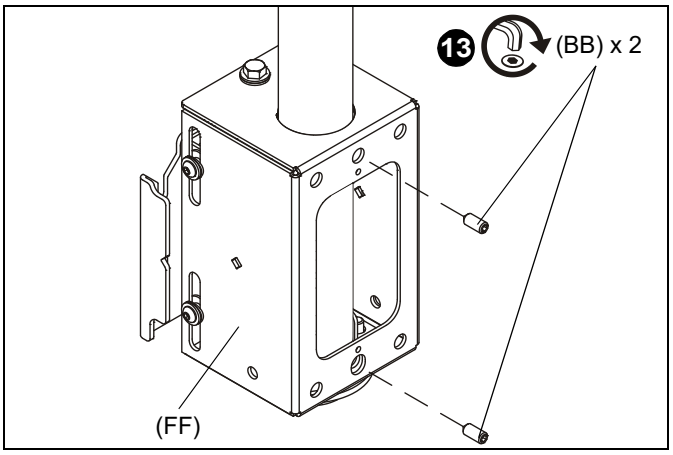


Figure 4

14. Repeat Steps 10 through 13 for remaining array head (FF), assuring that second array head is level with first installed array head.

Attaching Mount to CPA Extension Column

CAUTION: WATCH FOR PINCH POINTS! Do not place fingers between moveable parts.

1. Slide array head (FF) up from below onto installed column (not included). (See Figure 5)
2. Line up holes in sides of array head (FF) with holes in column.

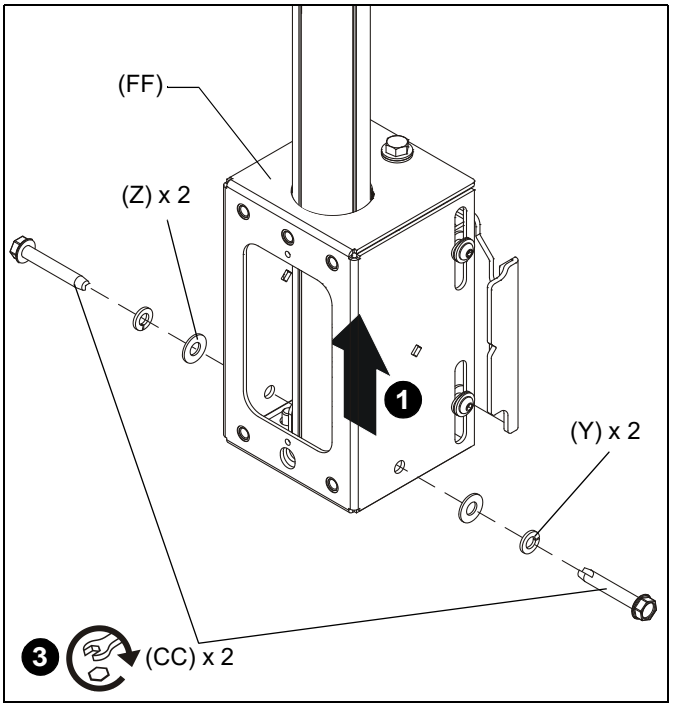


Figure 5

3. Install two 5/16" x 2" self-tapping screws (CC) through two 5/16" split washers (Y), two 5/16" flat washers (Z), sides of array head (FF), and into installed column. (See Figure 5)
4. Install and tighten two 5/16" set screws (BB) against column. (See Figure 6)

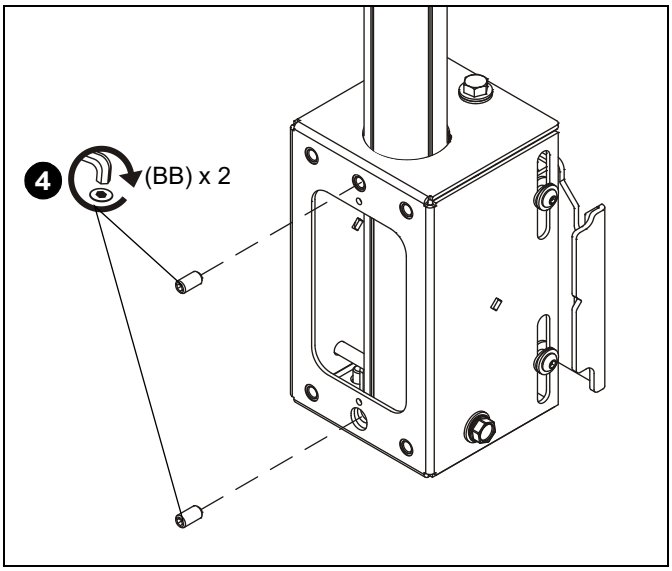


Figure 6

5. Repeat Steps 1 through 4 for remaining array head (FF), assuring that second array head is level with first installed array head.

ATTACH MOUNTING RAIL

1. Insert two tie bars (UU) into the slots on one section of mounting rail (KK). (See Figure 7)

NOTE: Extrusions can be attached in any order.

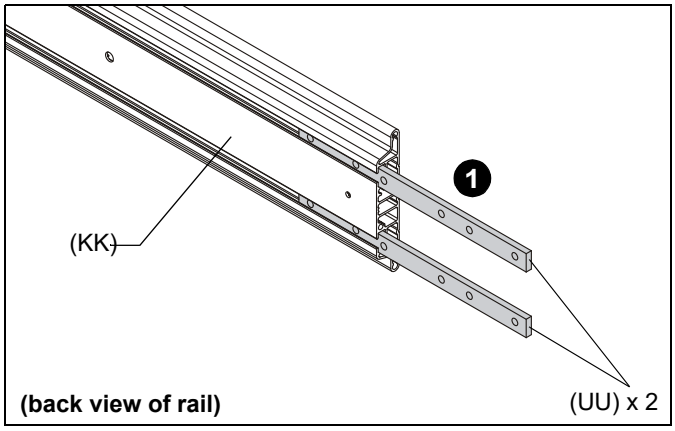


Figure 7

2. Secure connect bracket (LL) to front of mounting rail (KK) using three 10-24 x 1-1/2" flat head cap screws (QQ) fastened through one side of connect bracket, mounting rail (KK), tie bars (UU) and into connector plate (NN). (See Figure 8)

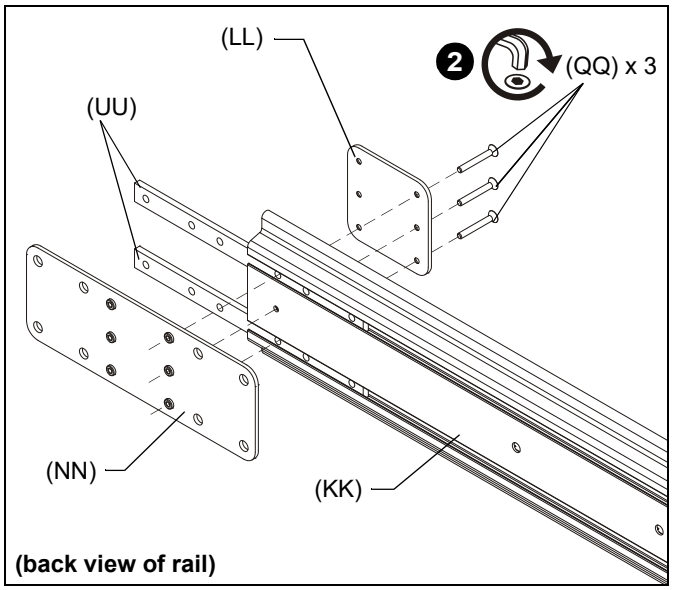


Figure 8

3. Additionally fasten connector plate (NN) using four 5/16 x 5/8" button head cap screws (PP), four 5/16" split washers (MM), and four friction washers (RR). (See Figure 9)
4. Slide second section of mounting rail (KK) over tie bars (UU) and bring it flush to first section of mounting rail. (See Figure 9)

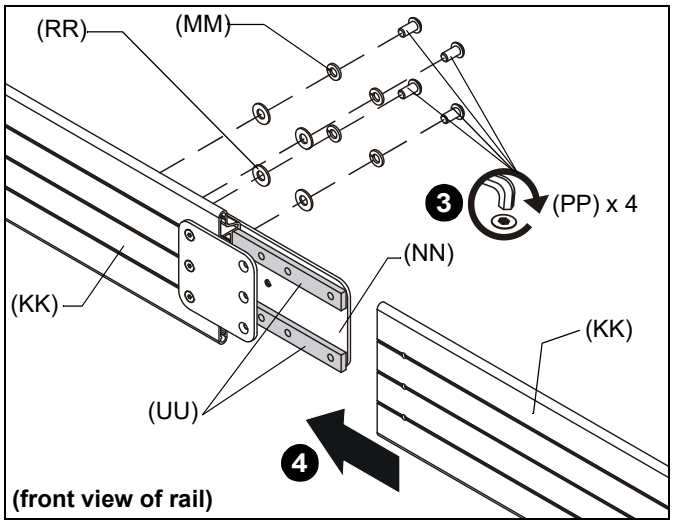


Figure 9

5. Secure connect bracket (LL) to front of second section of mounting rail (KK) using three 10-24 x 1-1/2" flat head cap screws (QQ) fastened through one side of connect bracket, mounting rail, tie bars (UU) and into connector plate (NN). (See Figure 10)
6. Additionally fasten connector plate (NN) using four 5/16 x 5/8" button head cap screws (PP), four 5/16" split washers (MM), and four friction washers (RR). (See Figure 10)

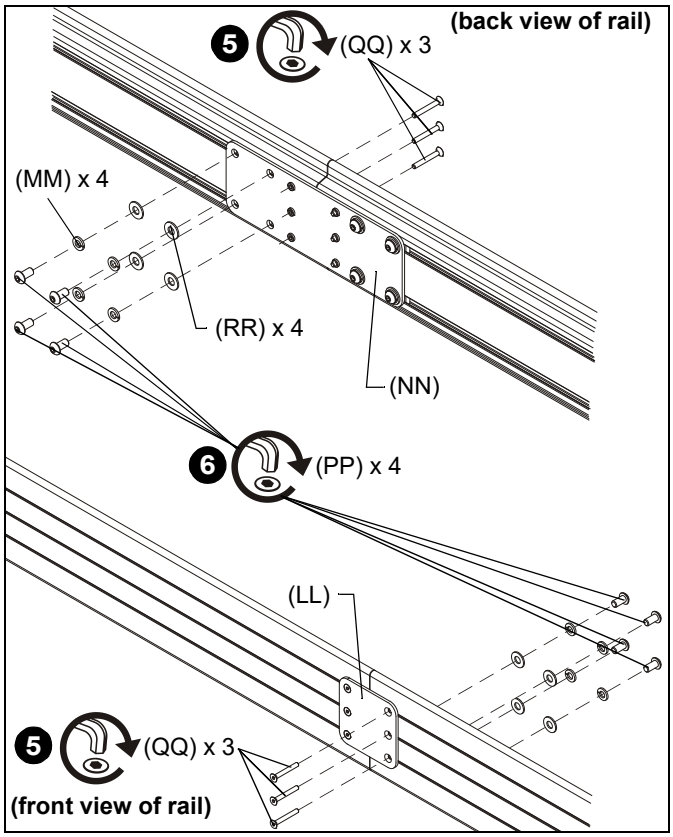


Figure 10

7. Repeat steps 1 through 6 to install the second mounting rail (KK) to the opposite end of the center rail. (See Figure 11)

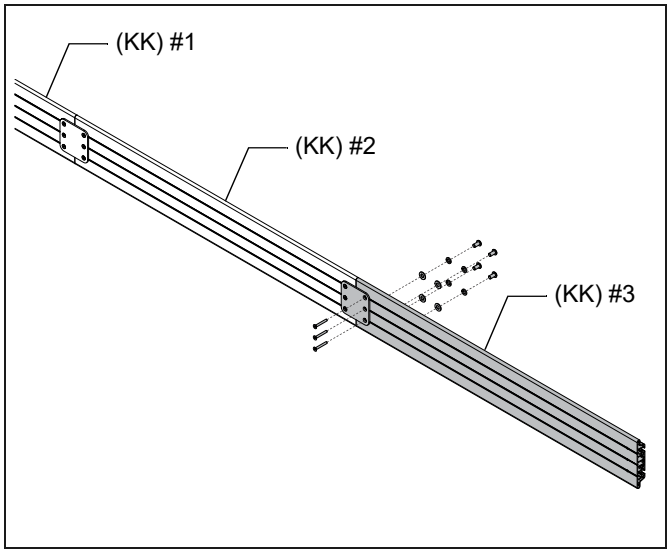


Figure 11

8. Partially fasten one 5/16" lock nut (AA) to each stud on **upper** T-slot studs.
9. Slide top T-slot studs (DD) with attached lock nuts (AA) down into top openings on array heads (FF). (See Figure 10)

10. Slide studs on lower T-slot studs (DD) into lower slots on array head (FF) while bringing mounting rail against array head. (See Figure 12)

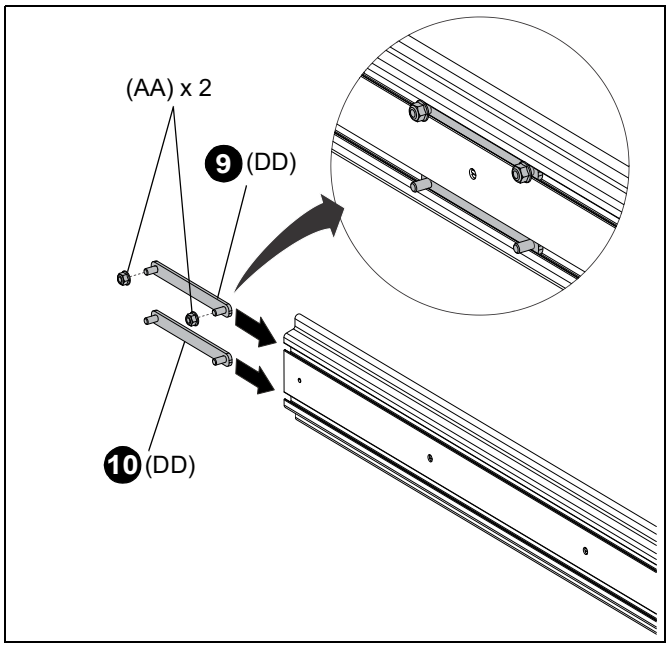


Figure 12

11. Tighten array head to mounting rail by tightening lock nuts on upper T-slot studs and adding two 5/16" lock nuts (AA) to lower T-slot studs. (See Figure 13)

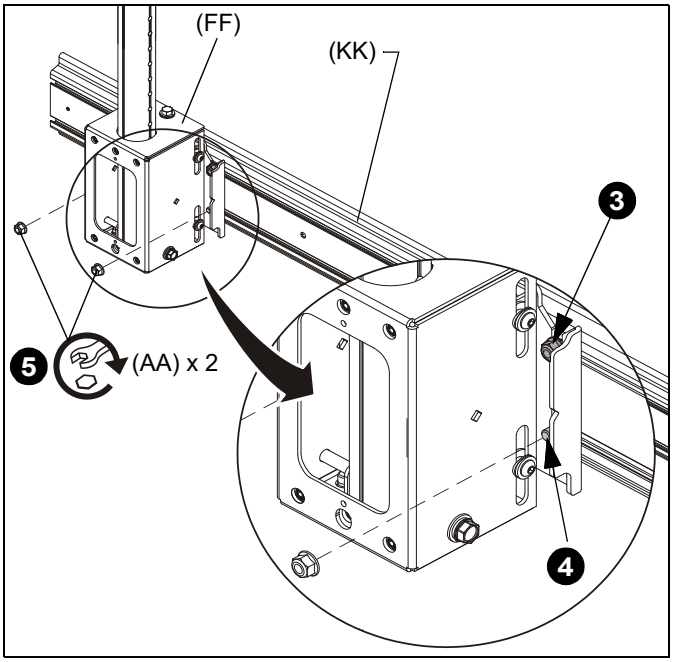


Figure 13

12. Repeat for remaining array head (FF).

13. Add one end cap (W) to each end of mounting rail, and fasten in place using two 1/4-20 x 1/2" Phillips self-tapping screws (X) for each end cap. (See Figure 14)

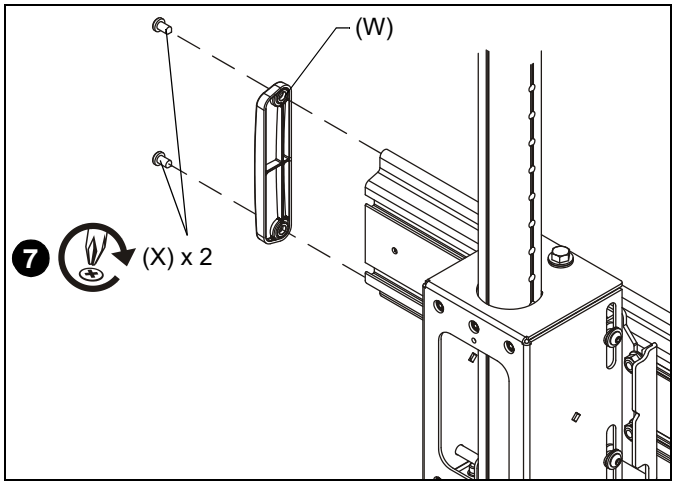


Figure 14

Attaching Interface Brackets to Displays

1. Lower the latch mechanism on each interface bracket (EE). (See Figure 15)

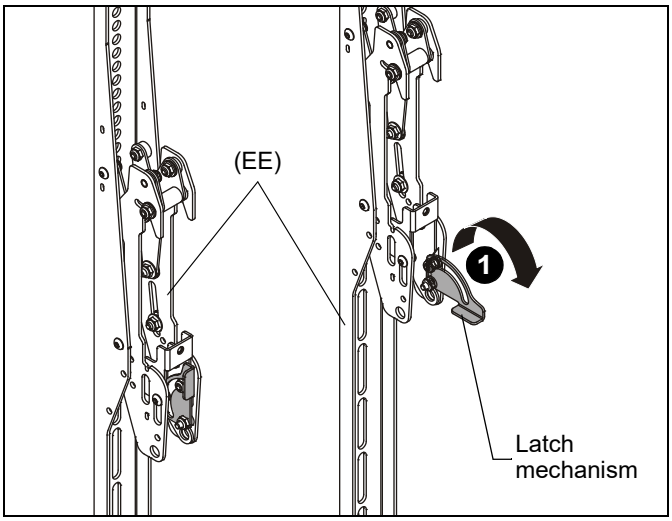


Figure 15

2. Align the center of the interface bracket (EE) with center of screen. (See Figure 16)

NOTE: The diamond-shape hole in the bracket corresponds to the center of the mount.

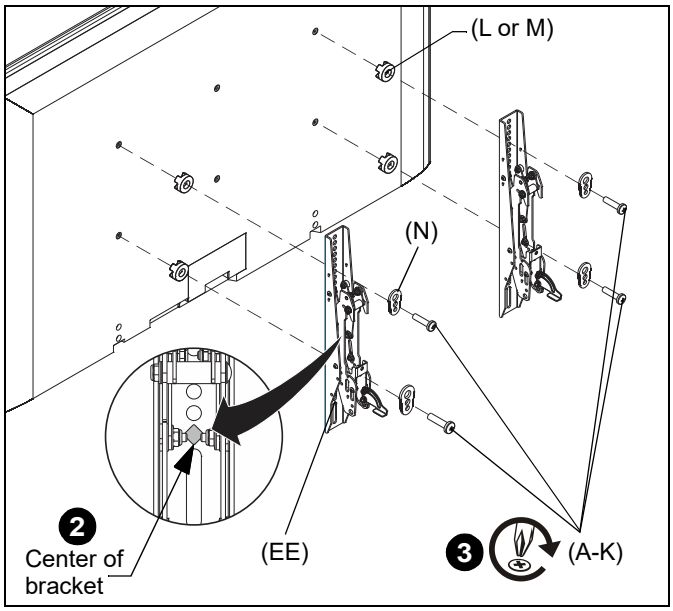


Figure 16

WARNING: IMPROPER INSTALLATION CAN LEAD TO DISPLAY FALLING CAUSING SERIOUS PERSONAL INJURY OR DAMAGE TO EQUIPMENT! Using screws of improper size may damage your display. Properly sized screws will easily and completely thread into display mounting holes. If spacers are required, be sure to use longer screws of the same diameter.

3. Select correct screws, spacers (if necessary) and universal washers from the hardware bag (A-N) and attach brackets (EE) to back of screen. (See Figure 17)

IMPORTANT ! : The M8 screws do **NOT** require a washer. Use the universal washer (N) only with M4, M5 and M6 screws.

NOTE: The nesting spacers (M) may be used separately, or put two together in different configurations to create different size spacers. (See Figure 17)

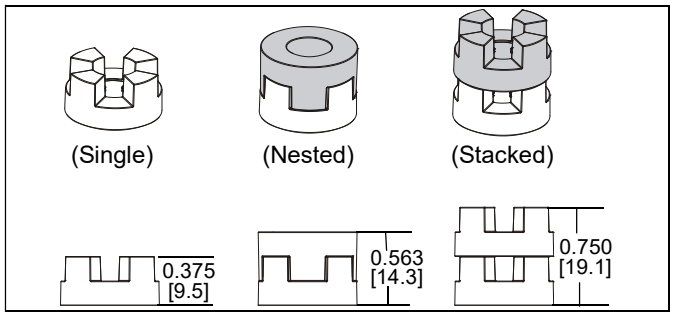


Figure 17

Attaching Displays to Mounting Rail

WARNING: Exceeding the weight capacity can result in serious personal injury or damage to equipment! It is the installer's responsibility to make sure the combined weight of all components located within the mounting system of the LCM3X1UM Series model does not exceed maximum weights listed in table below.

MODEL	Max Weight Allowed for EACH Display	Max Weight Capacity of Mounting System
LCM3X1UM	125 lbs (56.7 kg)	375 lbs (170.1 kg)

WARNING: IMPROPER DISPLAY INSTALLATION CAN RESULT IN SERIOUS PERSONAL INJURY OR DAMAGE TO EQUIPMENT! Do NOT mount all of the displays on one end of mounting rail:

- The center display MUST be installed first and centered between two columns (See Figure 18)
- Mount remaining displays an equal distance from center display on each end of the mounting rail.

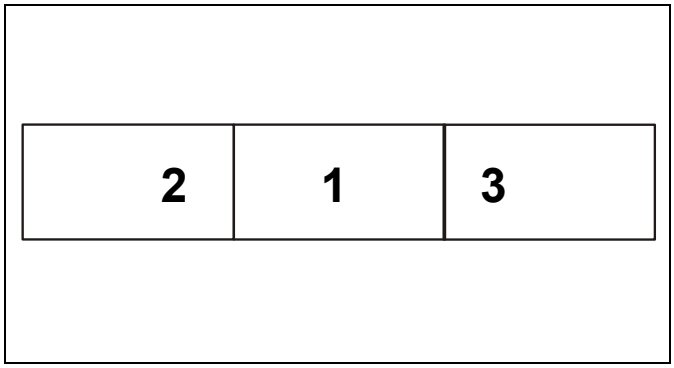


Figure 18

CAUTION: BEFORE adding displays to the mounting rail, ensure end caps are in place at BOTH ends of mounting rail!

IMPORTANT ! : The interface bracket tilt may be adjusted either before or after adding displays to mounting rail. See **Adjustments** section.

1. Ensure that the latch mechanisms on interface brackets (EE) are already lowered. (See Figure 15)
2. While supporting both sides of display, lower display onto center of ceiling mount, hooking top of interface brackets onto front of ceiling mount. (See Figure 19)
3. Raise the latch mechanism on both interface brackets to lock bracket in place. (See Figure 19)

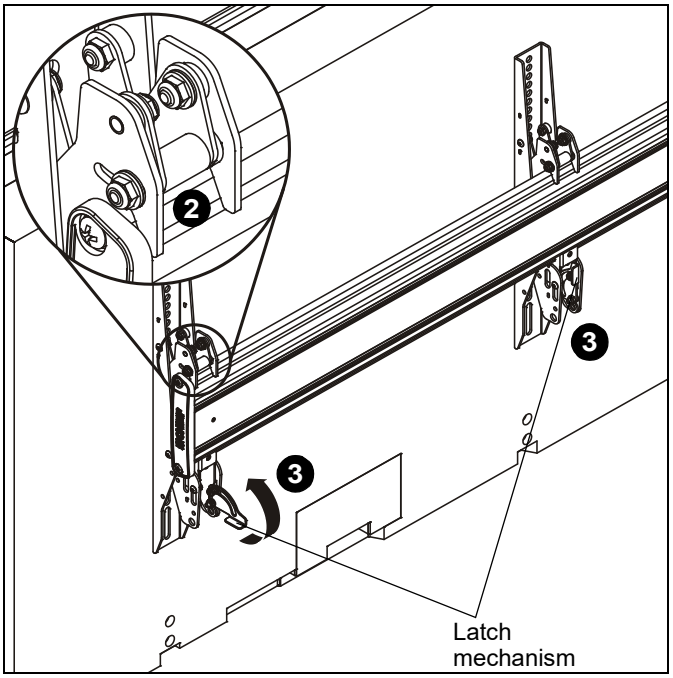


Figure 19

4. Fasten bracket against mounting rail using one 10-24 x 5/8" button head cap screw (T). (See Figure 20)
5. Repeat for other interface bracket.

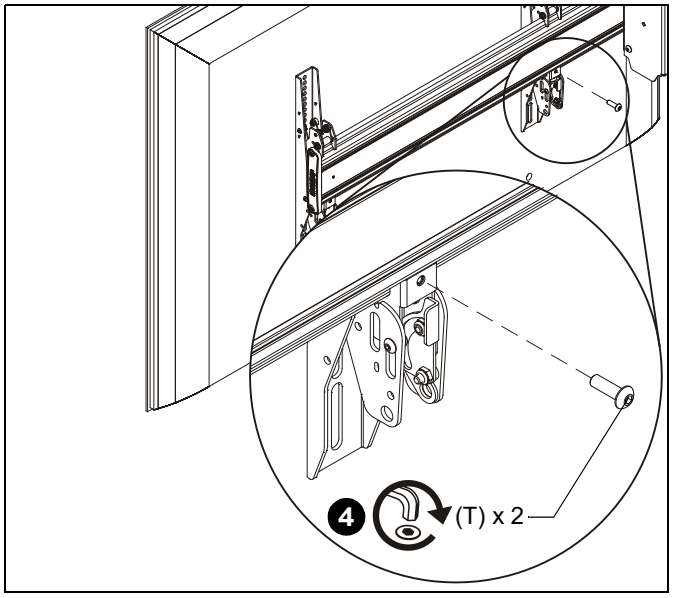


Figure 20

6. While supporting both sides of second display, lower second display onto one end of mounting rail, hooking top of interface brackets onto front of mounting rail. (See Figure 19)
7. Repeat Steps 3 through 5 for second display.
8. While supporting both sides of third display, lower third display onto opposite end of mounting rail, hooking top of interface brackets onto front of mounting rail. (See Figure 19)
9. Repeat Steps 3 through 5 for third display.

Adjustments

CAUTION: Watch for pinch points! Do not place fingers between moveable parts.

Height Adjustment and Leveling

The ceiling mounts allow up to 2 inches total adjustment.

1. Turn the adjustment bolt in the direction necessary to level or adjust height. (See Figure 21)
2. Stop adjusting when the desired setting is reached.

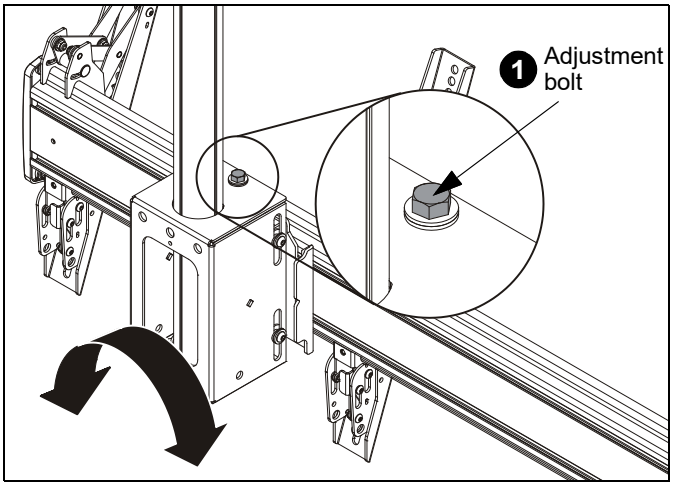


Figure 21

Tilt

The interface brackets allow -5° to 20° tilt, and can be locked at 0°, 10° and 20° tilt.

3. If necessary, loosen buttonhead tilt friction bolt (located on side of interface bracket). (See Figure 22)
4. Adjust tilt as required. (See Figure 22)
5. The tilt may be locked at 0°, 10° and 20° using one 10-24 x 2-1/4" Phillips head screw (U) and one 10-24 lock nut (V) per interface bracket. (See Figure 22)
6. Tighten tilt friction bolt as necessary.

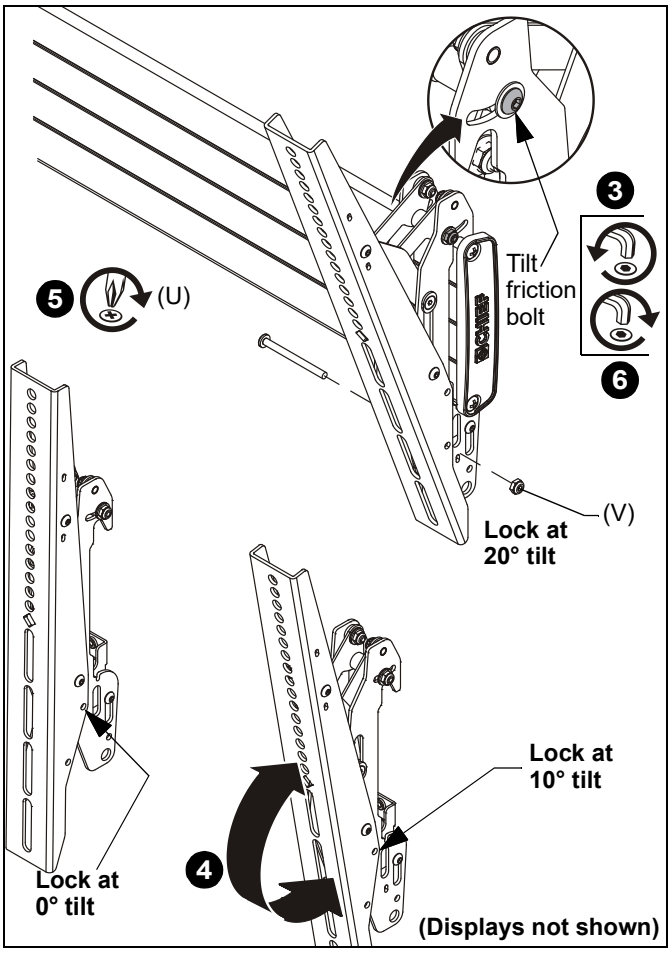


Figure 22

OPTIONAL: Security

1. **OPTIONAL**: Add padlock (not included) to each interface bracket to lock display to ceiling mount. (See Figure 23)

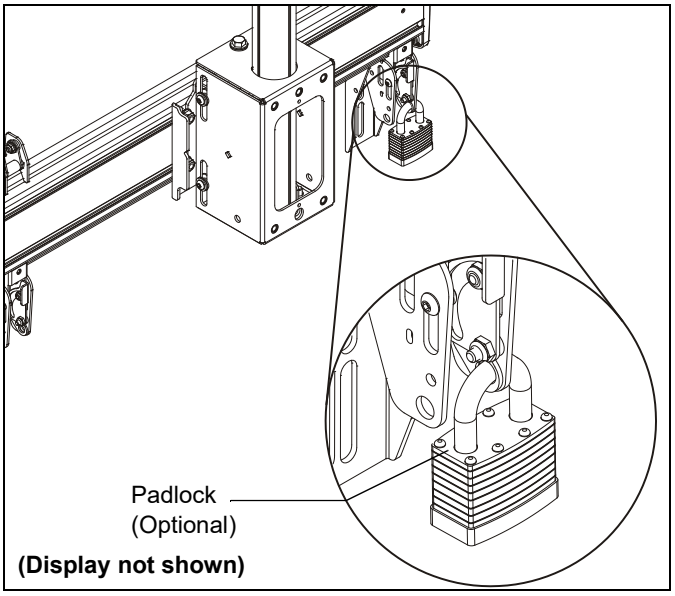


Figure 23

2. Install back cover (GG) into four holes on back of both array heads (FF). (See Figure 24)

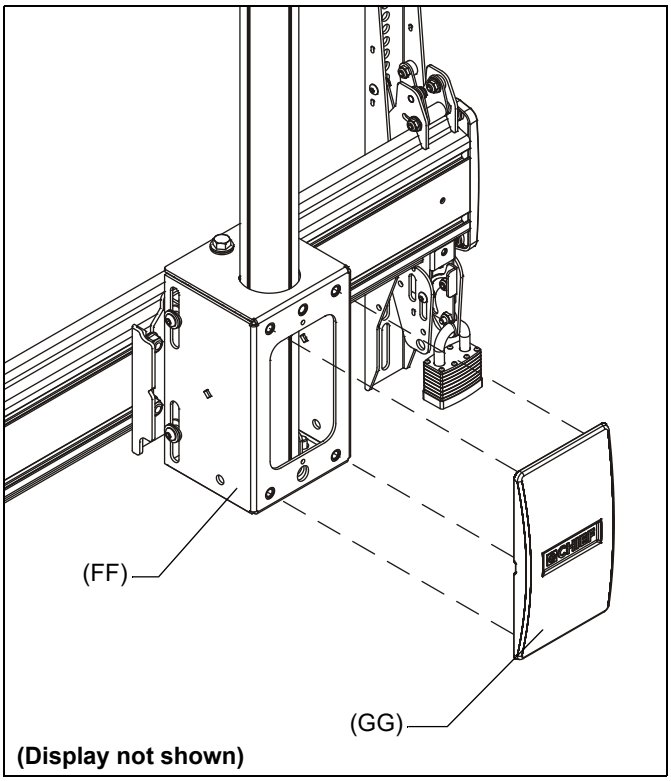


Figure 24

CHIEF®

A brand of legrand®

8800-003442 Rev00
©2025 Legrand | AV
www.legrandav.com
07/2025

USA/International	**A**	6436 City West Parkway, Eden Prairie, MN 55344
	P	800.582.6480 / 952.225.6000
	F	877.894.6918 / 952.894.6918
Europe	**A**	Franklinstraat 14, 6003 DK Weert, Netherlands
	P	+31 (0) 495 580 852
	F	+31 (0) 495 580 845
Asia Pacific	**A**	Office No. 918 on 9/F, Shatin Galleria 18-24 Shan Mei Street Fotan, Shatin, Hong Kong
	P	852 2145 4099
	F	852 2145 4477

30% POST-CONSUMER CONTENT