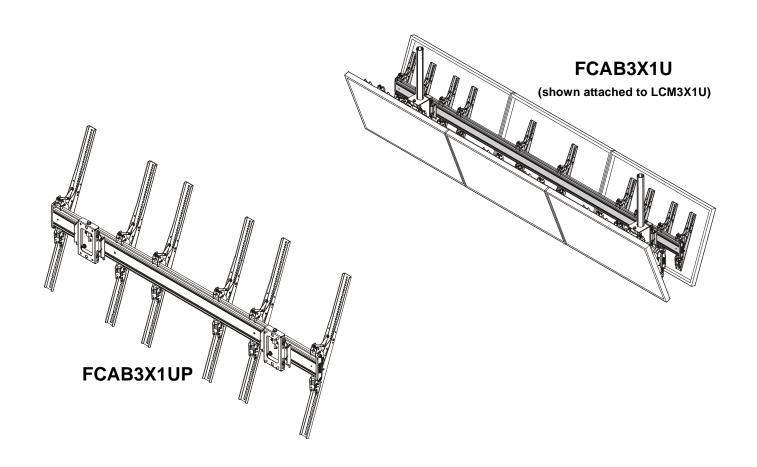
INSTALLATION INSTRUCTIONS



Menu Board Back Row Add-On Kits



FCAB3X1U/FCAB3X1UP

DISCLAIMER

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IMPORTANT SAFETY INSTRUCTIONS

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.



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 components are properly assembled and installed using the instructions provided.

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

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 LCB2X1U/LCB2X1UP models does not exceed maximum weights listed in Table 1.

Table 1: Weight Capacity

MODEL	Max Weight Allowed for <u>EACH</u> Display	Total Max Weight Capacity of Mounting System w/Accessory
FCAB3X1U	125 lbs (56.7 kg)	with LCM3X1U 750 lbs (340.2 kg)
FCAB3X1UP	125 lbs (56.7 kg)	with LCM3X1UP 750 lbs (340.2 kg)

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

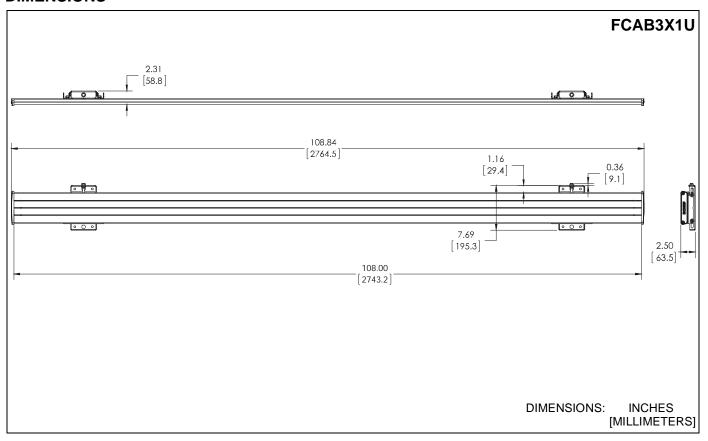


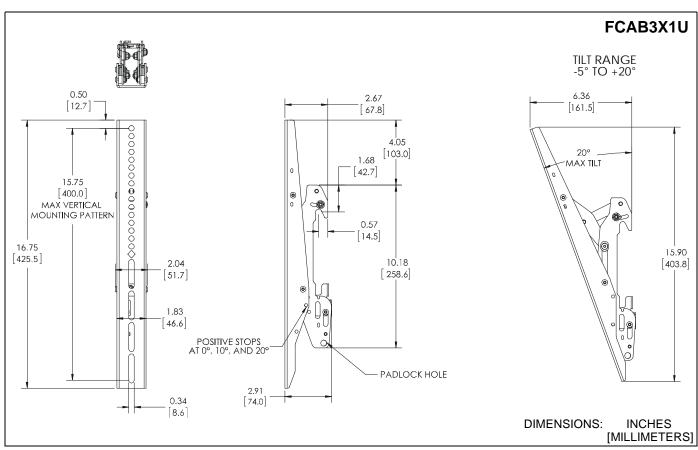
WARNING: Do not use this product outdoors.

NOTE: The UL Listed FCAB add-on rows may be used with the following UL Listed models: FCAB3X1U may be used with LCM3X1U. FCAB3X1UP may be used with LCM3X1UP.

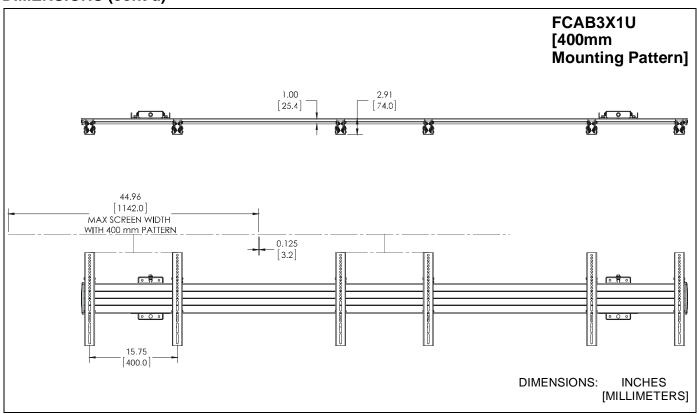
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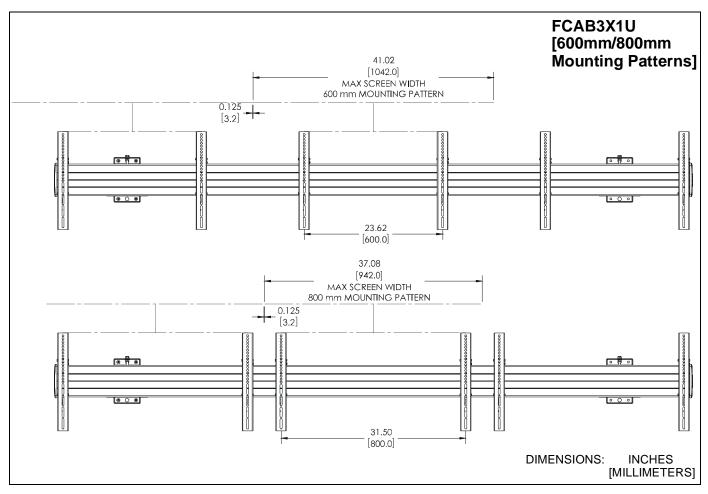
DIMENSIONS



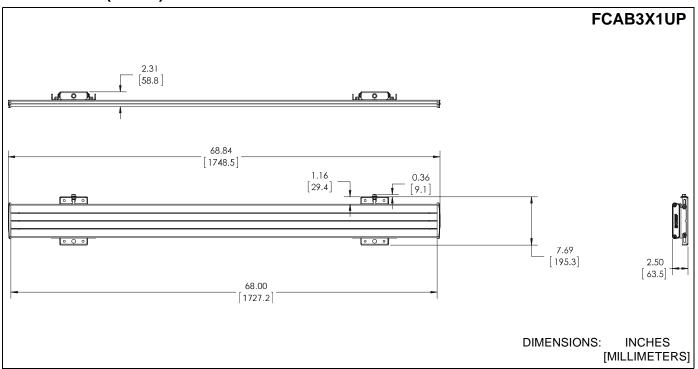


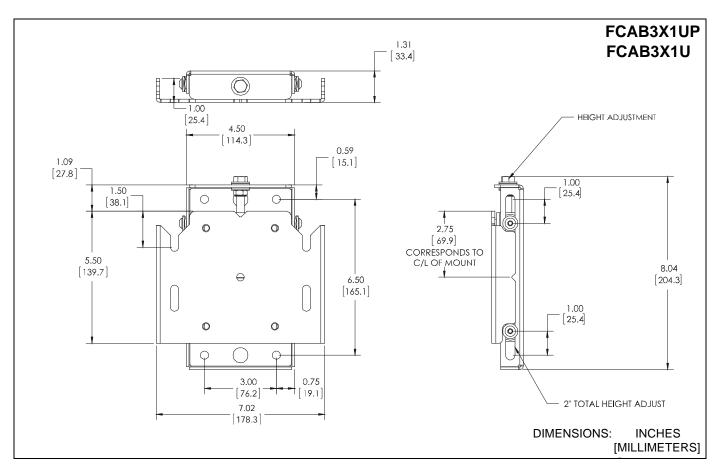
DIMENSIONS (cont'd)



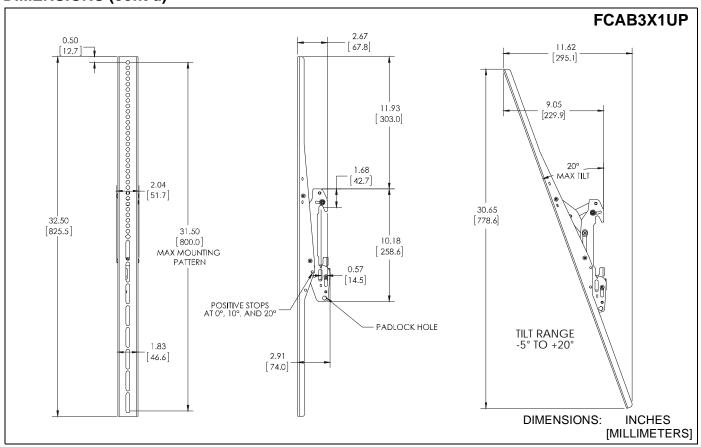


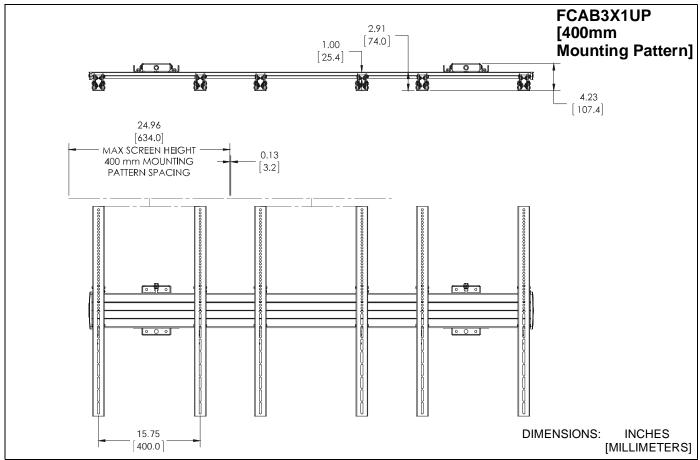
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DIMENSIONS (cont'd)

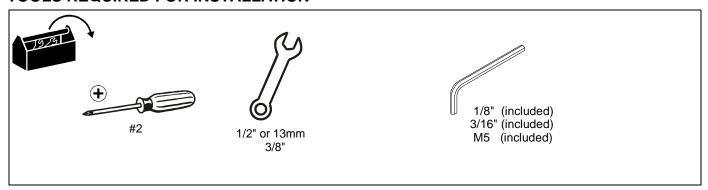




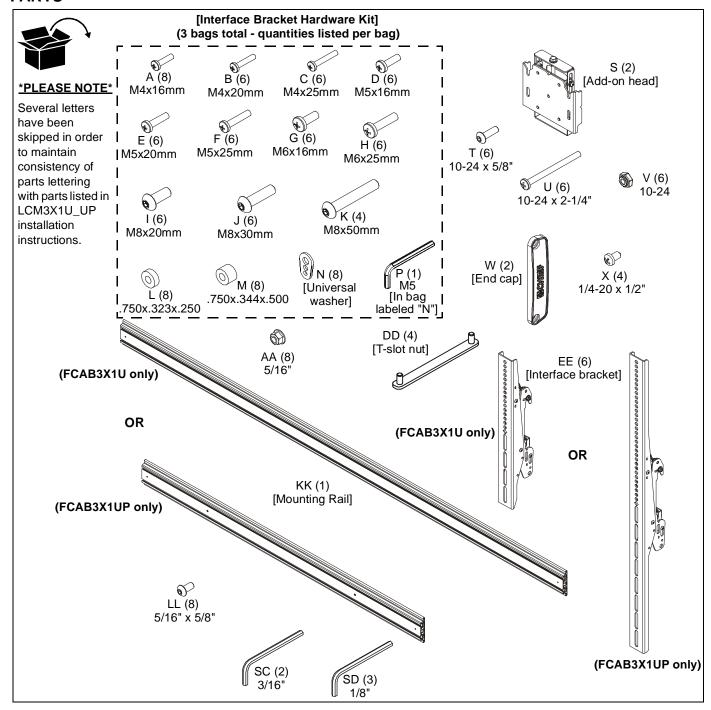
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Desserrez les fixations Phillips Screwdriver	Praticare un foro
Phillips Screwdriver Destornillador Phillips Kreuzschlitzschraubendreher Chave de fendas Phillips Cacciavite a stella Kruiskopschroevendraaier Tournevis à pointe cruciforme Open-Ended Wrench 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	Gat boren
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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	Ajustar
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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	Regolare
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	Afstellen
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	Ajuster
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	Remove
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	Quitar
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	Entfernen
Steeksleutel Clé à fourche By Hand A mano Von Hand Com a mão A mano Met de hand À la main	Remover
Clé à fourche By Hand A mano Von Hand Com a mão A mano Met de hand À la main	Rimuovere
By Hand A mano Von Hand Com a mão A mano Met de hand À la main	Verwijderen
A mano Von Hand Com a mão A mano Met de hand À la main	Retirez
Von Hand Com a mão A mano Met de hand À la main	Optional
Com a mão A mano Met de hand À la main	Opcional
A mano Met de hand À la main	Optional
Met de hand À la main	Opcional
À la main	Opzionale
	Optie
	En option
Hex-Head Wrench	Security Wrench
Llave de cabeza hexagonal	Llave de seguridad
Sechskantschlüssel	Sicherheitsschlüssel
Chave de cabeca sextavada	Chave de segurança
Chiave esagonale	Chiave di sicurezza
Zeskantsleutel	Veiligheidssleutel
Clé à tête hexagonale	
Chave de cabeça sextavada	Chave de segurança

TOOLS REQUIRED FOR INSTALLATION



PARTS



INSTALLATION

The following installation instructions assume that the UL Listed LCM3X1U or LCM3X1UP has been assembled up until the **Attaching Interface Brackets to Displays** section. Refer to LCM3X1U/LCM3X1UP installation instructions for details.

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

Attaching Add-On Heads

- Attach add-on head (S) to existing array head using four 5/16 x 5/8" button head cap screws (LL). (See Figure 1)
- 2. Repeat Step 1 for remaining add-on head.

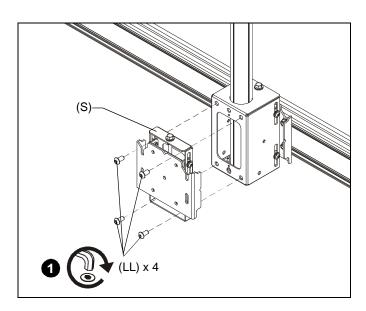


Figure 1

Adding Mounting Rail

 Slide four T-slot studs (DD - two in top mounting rail slot and two in bottom) into end of mounting rail (KK). (See Figure 2)

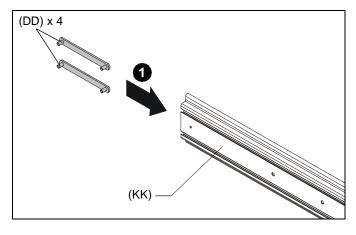


Figure 2

Partially fasten one 5/16" lock nut (AA) to each stud on upper T-slot studs.

- Slide top T-slot studs (DD) with attached lock nuts (AA) down into top openings on add-on heads (S). (See Figure 3)
- Slide studs on lower T-slot studs (DD) into lower slots on add-on heads (S) while bringing mounting rail against addon heads.

IMPORTANT!: Both mounting rails (KK) must be located at the same height. One mounting rail must NOT be higher than the other mounting rail.

 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 3)

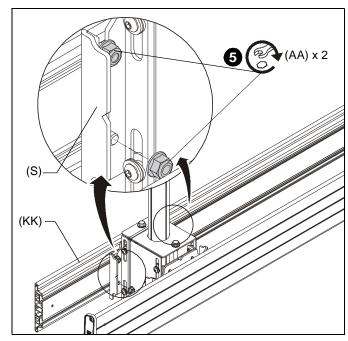


Figure 3

- 6. Repeat for remaining add-on head (S).
- Add one end cap (W) to each end of mounting rail (KK), and fasten in place using two 1/4-20 x 1/2" Phillips self-tapping screws (X) for each end cap. (See Figure 4)

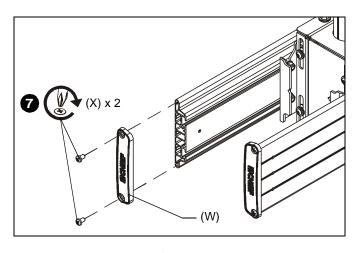


Figure 4

Attaching Interface Brackets to Display

 Lower the latch mechanism on all interface brackets (EE). (See Figure 5)

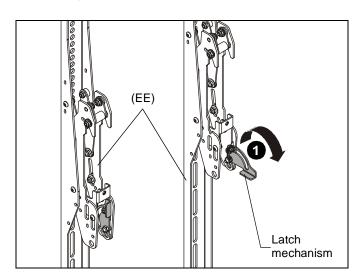


Figure 5

Align the center of the interface bracket (EE) with center of display. (See Figure 6)

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

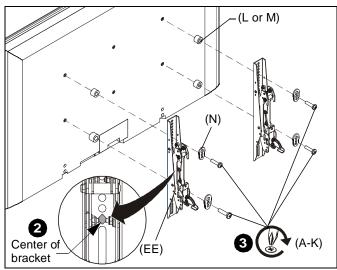


Figure 6

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.

 Select correct screws, spacers (if necessary) and universal washers from the hardware bag (A-N) and attach brackets (EE) to back of displays. (See Figure 6)

Attaching Displays to Ceiling Mount

WARNING: IMPROPER INSTALLATION CAN LEAD TO DISPLAY FALLING CAUSING SERIOUS PERSONAL INJURY OR DAMAGE TO EQUIPMENT! The weight of the

INJURY OR DAMAGE TO EQUIPMENT! The weight of the displays must be evenly distributed as the displays are added to the ceiling mount.

IMPORTANT!: Install displays by placing the first display on

IMPORTANT!: Install displays by placing the first display on the mount, and then adding the second display on the other side of the mount at the opposite end of the mount. Repeat for remaining end displays, and add center displays last. (See Figure 7)

- Ensure that the latch mechanisms on interface brackets (DD) are already lowered. (See Figure 5)
- While supporting both sides of display, lower display onto one side of ceiling mount, hooking top of interface brackets onto rail of ceiling mount. (See Figure 8)
- 3. Raise the latch mechanism on both interface brackets to lock display in place. (See Figure 8)

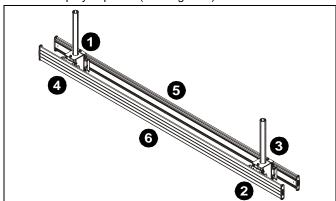


Figure 7

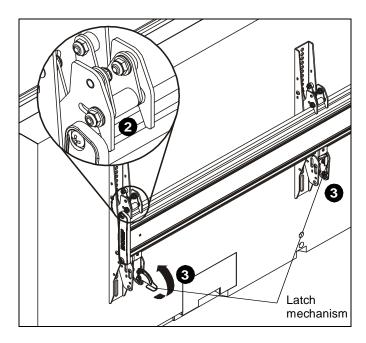


Figure 8

- Fasten bracket against ceiling mount extrusion using one 10-24 x 5/8" button head cap screw (T). (See Figure 9)
- Repeat for other interface bracket.

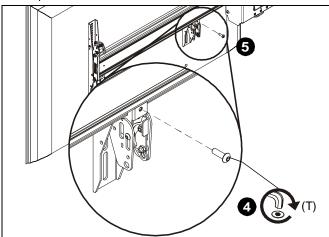


Figure 9

6. Repeat Steps 1 through 5 for all remaining displays.

Adjustments



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

Height Adjust

The ceiling mounts allow up to 2 inches of height adjustment.

1. Turn the height adjustment bolt(s) in the direction necessary for the desired height. (See Figure 10)

NOTE: Each height adjustment bolt controls the height on its side of the mount.

IMPORTANT!: Both mounting rails must be located at the same height. One mounting rail must NOT be higher than the other mounting rail.

2. Stop adjusting when the desired setting is reached.

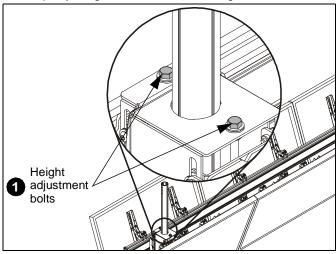


Figure 10

Tilt

The interface brackets allow -5 $^{\circ}$ to 20 $^{\circ}$ tilt, and can be locked at 0 $^{\circ}$, 10 $^{\circ}$ and 20 $^{\circ}$ tilt.

- If necessary, loosen button head tilt friction bolt (located on side of interface bracket). (See Figure 11)
- 4. Adjust tilt as required. (See Figure 11)
- 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 11)
- Tighten button head tilt friction bolt as necessary. (See Figure 11)

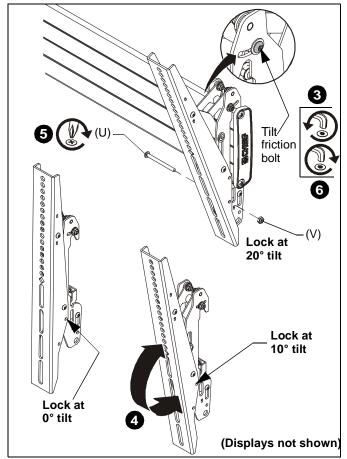


Figure 11

Security (OPTIONAL)

 Add padlock (not included) to each interface bracket to lock display to ceiling mount. (See Figure 12)

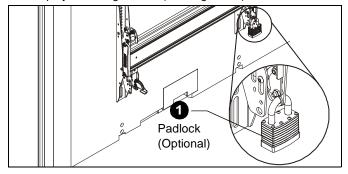


Figure 12



Our Mounts. Your Vision.

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