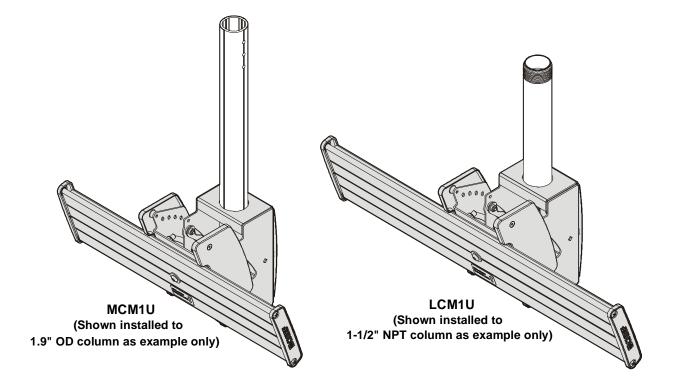
## INSTALLATION INSTRUCTIONS



### **Single Flat Panel Ceiling Mounts**



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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 between the mount up to (and including) the display does not exceed 125 lbs (56.7 kg).

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

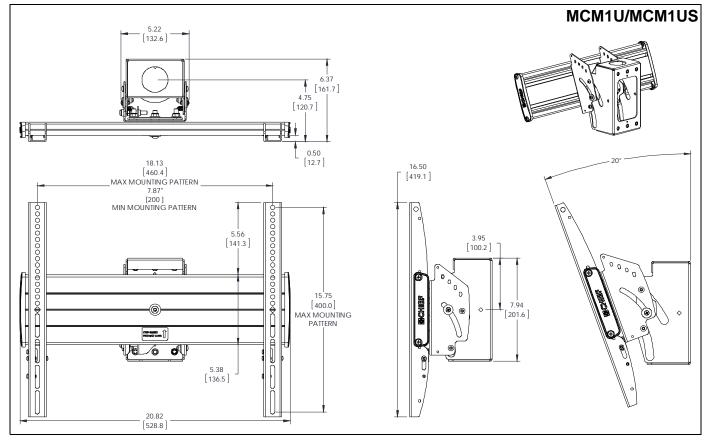
**WARNING:** Never operate this mounting system if it is damaged. Return the mounting system to a service center for examination and repair.

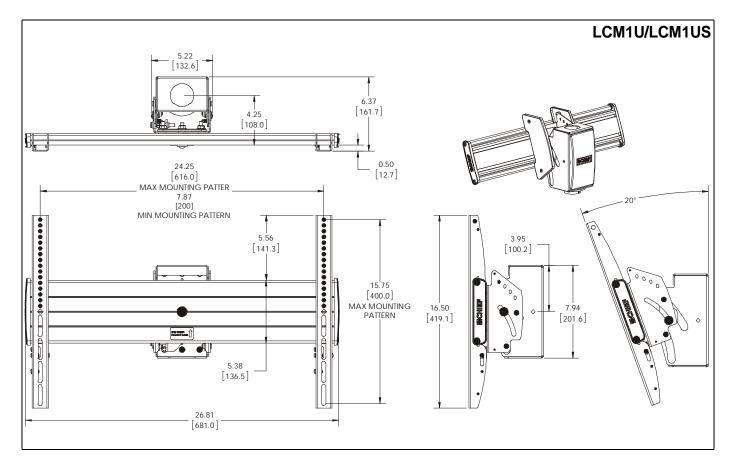
WARNING: Do not use this product outdoors.

**IMPORTANT !** : The MCM1U/LCM1U and MCM1US/ LCM1US mounts are designed to be mounted to a 1-1/2" NPT or NPSM following ANSI/ASME B1.20.1 (Schedule 40, 0.154" minimum thickness aluminum-ASTM B221) threaded extension column (not included); **OR** a 1.5" ID, 1.9" OD (0.4" minimum thickness 6063-T6 aluminum-ASTM B221) extension column (not included) with six 1/4" holes -- 3 holes opposite 3 additional holes at each end of column for self-tapping bolts.

### --SAVE THESE INSTRUCTIONS--

#### DIMENSIONS

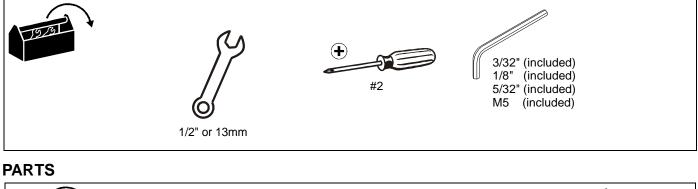


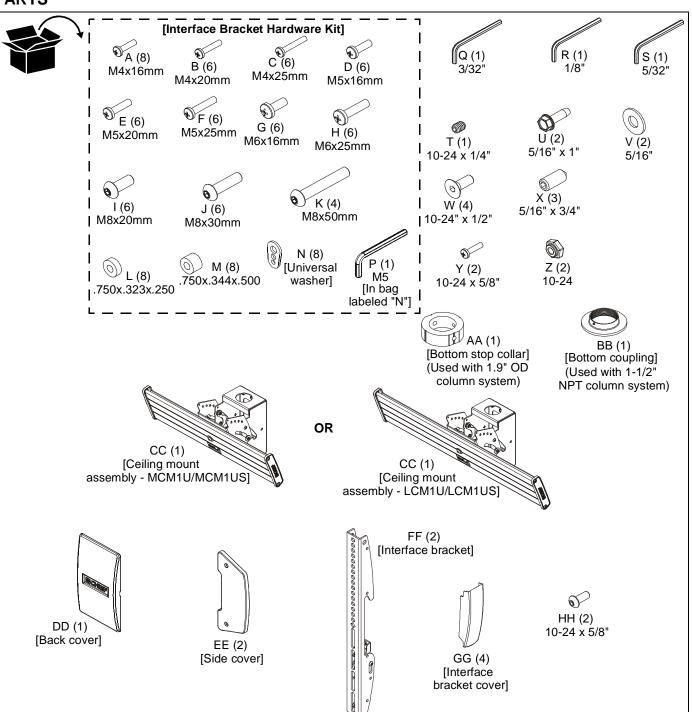


#### LEGEND

	Tighten Fastener	Adjust
C	Apretar elemento de fijación	Ajustar
	Befestigungsteil festziehen	Einstellen
	Apertar fixador	Ajustar
	Serrare il fissaggio	Regolare
	Bevestiging vastdraaien	Afstellen
	Serrez les fixations	Ajuster
	Loosen Fastener	Remove
$\mathbf{O}$	Aflojar elemento de fijación	Quitar
	Befestigungsteil lösen	Entfernen
	Desapertar fixador	Remover
	Allentare il fissaggio	Rimuovere
	Bevestiging losdraaien	Verwijderen
	Desserrez les fixations	Retirez
	Phillips Screwdriver	Optional
	Destornillador Phillips	
	Kreuzschlitzschraubendreher	Opcional
		Optional
	Chave de fendas Phillips Cacciavite a stella	Opcional
		Opzionale
	Kruiskopschroevendraaier	Optie
	Tournevis à pointe cruciforme	En option
	Open-Ended Wrench	By Hand
	Llave de boca	A mano
	Gabelschlüssel	Von Hand
	Chave de bocas	Com a mão
	Chiave a punte aperte	A mano
	Steeksleutel	Met de hand
	Clé à fourche	À la main
	Hex-Head Wrench	
	Llave de cabeza hexagonal	
	Sechskantschlüssel	
	Chave de cabeça sextavada	
	Chiave esagonale	
	Zeskantsleutel	
	Clé à tête hexagonale	

#### TOOLS REQUIRED FOR INSTALLATION





#### INSTALLATION

**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.

**IMPORTANT !** : These instructions assume that a 1-1/2" NPT or NPSM following ANSI/ASME B1.20.1 (Schedule 40, 0.154" minimum thickness aluminum-ASTM B221) threaded extension column (not included); or a 1.5" ID 1.9" OD (0.4" minimum thickness 6063-T6 aluminum-ASTM B221) extension column (not included) with six 1/4" holes -- 3 holes opposite 3 additional holes at each end of column for self-tapping bolts -- has been properly installed and is in place.

**NOTE:** Proceed to **Attaching Mount to NPT Column** section or **Attaching Mount to 1.9**" **OD Column** section, as appropriate.

#### **Attaching Mount to NPT Column**



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

- 1. Slide ceiling mount (CC) up from below onto installed column (not included). (See Figure 1)
- 2. Thread bottom coupling (BB) onto installed column until tight, with a minimum of four threads engaged.

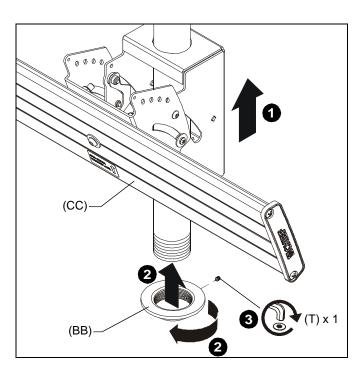


Figure 1

- 3. Install and tighten one 10-24 x 1/4" set screw (T) into bottom coupling (BB). (See Figure 1)
- 4. Install and tighten two 5/16" set screws (X) through back of mount (CC) and against column. (See Figure 2)

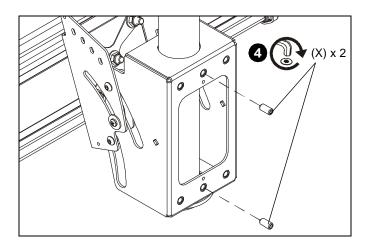


Figure 2

#### Attaching Mount to 1.9" OD Column



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

- 1. Slide ceiling mount (CC) up from below onto installed column (not included). (See Figure 3)
- 2. Slide bottom stop collar (AA) onto installed column, lining up holes in collar with holes in column.

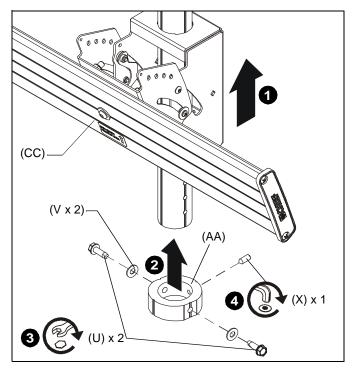


Figure 3

- Install two 5/16" x 1" self-tapping screws (U) through two 5/16" flat washers (V), bottom stop collar (AA), and into installed column.
- 4. Install and tighten 5/16" x 3/4" set screw (X) into bottom stop collar (AA). (See Figure 3)
- 5. Install and tighten two 5/16" x 3/4" set screws (X) through back of mount (CC) and against column. (See Figure 4)

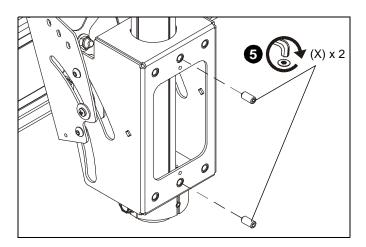


Figure 4

#### Attaching Interface Brackets to Display

1. Lower the latch mechanism on each interface bracket (FF). (See Figure 5)

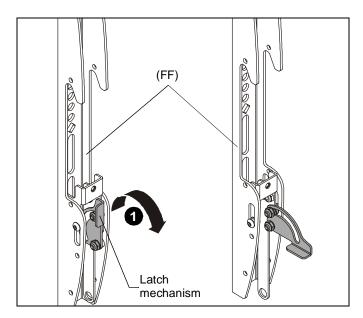


Figure 5

- 2. Align the center of the interface bracket (FF) with center of screen. (See Figure 6)
- **NOTE:** The diamond-shape hole in the bracket corresponds to the center of the mount.

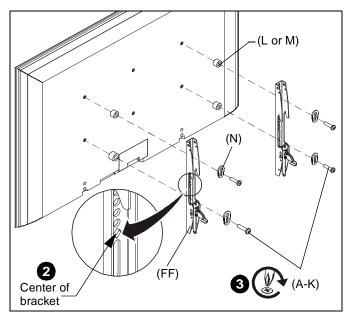


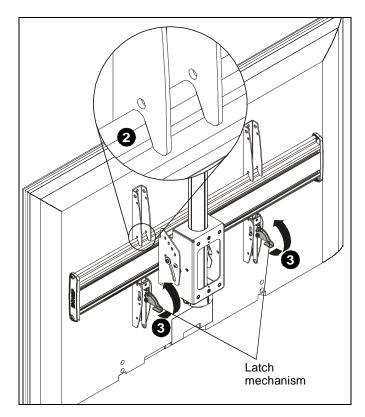
Figure 6

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 (FF) to back of screen. (See Figure 6)

- 1. Ensure that the latch mechanisms on interface brackets (FF) are already lowered. (See Figure 5)
- 2. While supporting both sides of display, lower display onto ceiling mount, hooking top of interface brackets onto front of ceiling mount. (See Figure 7)

WARNING: IMPROPER INSTALLATION CAN LEAD TO DISPLAY FALLING CAUSING SERIOUS PERSONAL INJURY OR DAMAGE TO EQUIPMENT! The display MUST be centered on the ceiling mount.





- 3. Raise the latch mechanism on both interface brackets to lock bracket in place. (See Figure 7)
- 4. Fasten bracket against ceiling mount extrusion using one 10-24 x 5/8" button head cap screw (HH). (See Figure 8)
- 5. Repeat for other interface bracket.

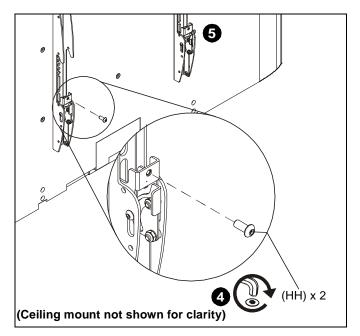


Figure 8

#### Adjustments

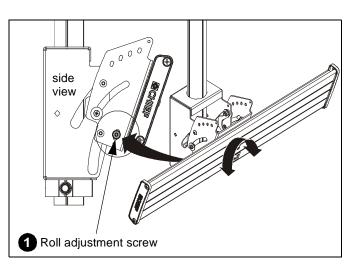
**CAUTION:** Watch for pinch points! Do not place fingers between moveable parts.

**IMPORTANT ! :** Always use two hands (one at bottom of display and one at top of display) to adjust ceiling mount.

#### Roll

The ceiling mounts allow up to 3° roll each direction.

- 1. Turn the roll adjustment screw in the direction necessary for the desired roll. (See Figure 9)
- 2. Stop adjusting when the desired setting is reached.





#### Tilt

The ceiling mounts allow -5° to 20° tilt. The ceiling mount can be locked at 0°, 5°, 10° and 15° tilt.

- 3. Loosen two tilt friction screws (located each side). (See Figure 10)
- 4. Adjust tilt as required. Note specific degrees of tilt. (See Figure 10)
- 5. Tighten two tilt adjustment screws if NOT using the 0°, 5°, 10° or 15° settings.

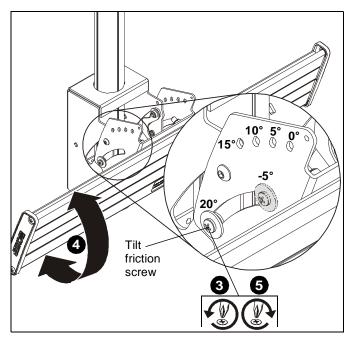


Figure 10

 If using the tilt settings of 0°, 5°, 10° or 15°, insert two 10-24 x 5/8" Phillips head screws (Y) and two 10-24 lock nuts (Z) to lock mount at the specific tilt. (See Figure 11)

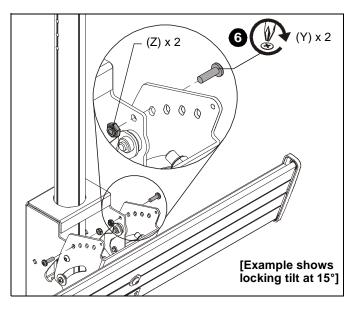
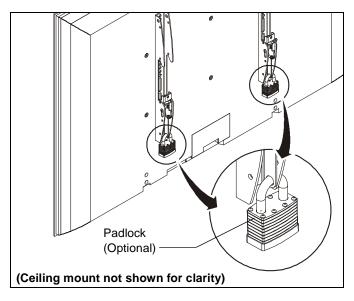


Figure 11

#### **OPTIONAL: Security**

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



#### Figure 12

#### Installing Covers

- 1. Install four interface bracket covers (GG) over the top and bottom of both interface brackets. (See Figure 13)
- **NOTE:** Be sure to line up tabs inside the bracket covers with holes on sides of interface brackets. (See Figure 13)

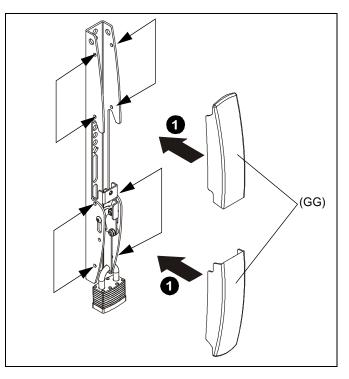


Figure 13

2. Install back cover (DD) into four holes on back of ceiling mount. (See Figure 14)

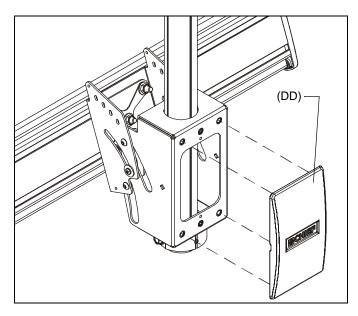


Figure 14

- 3. Install one side cover (EE) onto side of ceiling mount using two 10-24 x 1/2" flat head screws (W). (See Figure 15)
- 4. Repeat for other side of ceiling mount.

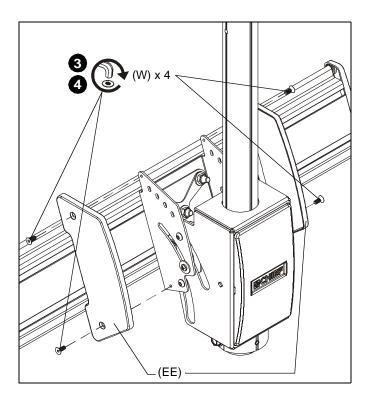


Figure 15



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