DISCLAIMER

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IMPORTANT SAFETY INSTRUCTIONS

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--
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TOOLS REQUIRED FOR INSTALLATION

1/2" or 13mm

#2

3/32" (included)
1/8" (included)
5/32" (included)
M5 (included)

PARTS

[Interface Bracket Hardware Kit]

A (8)  M4x16mm
B (6)  M4x20mm
C (6)  M4x25mm
D (6)  M5x16mm
E (6)  M5x20mm
F (6)  M5x25mm
G (6)  M6x16mm
H (6)  M6x25mm
I (6)  M8x20mm
J (6)  M8x30mm
K (4)  M8x50mm
L (8)  .750x.323x.250
M (8)  .750x.344x.500
N (8)  [Universal washer]
P (1)  M5 [In bag labeled "N"]
Q (1)  3/32"
R (1)  1/8"
S (1)  5/32"
T (1)  10-24 x 1/4"
U (2)  5/16" x 1"
V (2)  5/16"
W (4)  10-24" x 1/2"
X (3)  5/16" x 3/4"
Y (2)  10-24" x 5/8"
Z (2)  10-24
AA (1)  [Bottom stop collar]
         (Used with 1.9" OD column system)
BB (1)  [Bottom coupling]
         (Used with 1-1/2" NPT column system)
CC (1)  [Ceiling mount assembly - MCM1U/MCM1US]
CC (1)  [Ceiling mount assembly - LCM1U/LCM1US]
DD (1)  [Back cover]
EE (2)  [Side cover]
FF (2)  [Interface bracket]
GG (4)  [Interface bracket cover]
HH (2)  10-24 x 5/8"
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.
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)

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.
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.

**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 (FF) to back of screen. (See Figure 6)
Attaching Display to Ceiling Mount

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.

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.

6. 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)

OPTIONAL: Security

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