INSTALLATION INSTRUCTIONS

FUSION EXTRA LARGE HEIGHT ADJUST FLAT PANEL MOUNTS

CHIEF
Our Mounts. Your Vision.

XSM1U/XTM1U
DISCLAIMER

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DEFINITIONS

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.

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.

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 parts 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 on the XSM1U/XTM1U does not exceed 250 lbs (113.4 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 XSM1U/XTM1U mounts are designed to be mounted to:

- a bare concrete wall with a minimum thickness of 8" (203mm);
- a bare 8" x 8" x 16" (203mm x 203mm x 406mm) concrete block wall; or
- wood studs spaced 24" or 32" (610mm or 813mm) on center with a maximum drywall covering of 5/8".

NOTE: The XSM1U/XTM1U extra large height adjust mounts may be used with the UL Listed FCAV1U Fusion pull-out accessory.

--SAVE THESE INSTRUCTIONS--
DIMENSIONS

1. MAXIMUM MOUNTING PATTERN IS 38.7" (982 mm) WITHOUT REVERSING UPRIGHTS
2. MAXIMUM MOUNTING PATTERN IS 42.1" (1070 mm) WITH REVERSING UPRIGHTS
3. FOR RECESSED APPLICATIONS, MINIMUM VERTICAL LIFT FOR HOOK ENGAGEMENT IS .75" (19 mm)

RAILS CAN BE SLID LEFT OR RIGHT FOR OFFSET

BACKWARDS ANGLE COMPENSATION SETTINGS
1. MAXIMUM MOUNTING PATTERN IS 36.7" (932 mm) WITHOUT REVERSING UPRIGHTS
2. MAXIMUM MOUNTING PATTERN IS 42.1" (1070 mm) WITH REVERSING UPRIGHTS
3. FOR RECESSED APPLICATIONS: MINIMUM VERTICAL LIFT FOR HOOK ENGAGEMENT IS .75" (19 mm)

DIMENSIONS: [INCHES]

RaILS CAN BE SLID LEFT OR RIGHT FOR OFFSET
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TOOLS REQUIRED FOR INSTALLATION

Universal Hardware Kit
- A (4) M6 x 12mm
- B (4) M6 x 20mm
- C (4) M6 x 25mm
- D (4) M8 x 12mm
- E (4) M8 x 20mm
- F (4) M8 x 30mm
- G (8) Nesting spacer
- H (4) Universal washer

XSM1 Mount Hardware Kit
- M (1) 3/16"
- MM (1) 5/32"
- P (2) 3/8-16 x 3/4"
- Q (4) 1/4-20 x 3/4"
- R (2) Pull knob
- S (2) 1/4-20 x 1"

XTM1 Mount Hardware Kit
- M (1) 3/16"
- N (1) 3/16"
- P (2) 3/8-16 x 3/4"
- Q (4) 1/4-20 x 3/4"

Wall Mounting Hardware Kit
- J (4) 5/16 x 2-1/2"
- K (4) UX10x60mm
- L (4) Slotted washer

PARTS

7/32" (5.5mm) Wood Stud
3/8" (9.5mm) Concrete
1/8" (included) 5/32" (included)
3/16" x 10" (included)

Universal Hardware Kit
[XSM1U / XTM1U mount]

[Included in hardware box]
INSTALLATION

The XSM1U/XTM1U mounts are designed to be mounted to:

- a bare concrete wall with a minimum thickness of 8" (203mm);
- a bare 8" x 8" x 16" (203mm x 203mm x 406mm) concrete block wall; or
- wood studs spaced 24" or 32" (610mm or 813mm) on center with a maximum drywall covering of 5/8".

The XTM1U has brackets which allow the TV to be tilted. The XSM1U has static brackets which keep the TV in an upright position.

Locate Mounting Site

**WARNING:** IMPROPER INSTALLATION CAN LEAD TO MOUNT FALLING CAUSING SEVERE PERSONAL INJURY OR DAMAGE TO EQUIPMENT! It is the installer's responsibility to make certain the structure to which the mount is being attached is capable of supporting five times the combined weight of all components located on the mount, not to exceed 250 lbs (113.4 kg).

**NOTE:** Proceed to either the Installing to a Wood Stud Wall section or the Installing to a Concrete Wall section.

Installing to a Wood Stud Wall

**CAUTION:** MINIMUM HORIZONTAL DISTANCE BETWEEN WALL BRACKETS IS 24" (610mm). Do not place mounting brackets closer together than 24" (610mm). When attaching to a wall containing studs located 16" on center, space the uprights 32" (813mm) apart.

1. Determine the center of the TV screen, and where it should be located on the wall.
2. Locate the closest stud to the left and right of the selected location.
3. Line up the notches on mount (Z) with center of screen marking to determine vertical center. (See Figure 1)
4. Measure up 8" (203mm) from the center point to mark location of the upper mounting slots.
5. Using a level, mark the wall on each stud to attach the mount through the upper mounting slots. (See Figure 2)
6. Drill one 7/32" (5.5mm) pilot hole in each stud.
7. Partially install two 5/16 x 2-1/2" flanged lag bolts (J) into pilot holes but do not tighten to wall.
8. Hang mount (Z), aligning upper mounting slots over lag bolts and adjust side-to-side for proper location.
9. Place one slotted washer (L) over each flanged lag bolt. (See Figure 2)
10. Tighten lag bolts to secure mount (Z) to wall at upper mounting slots.
11. Mark the attachment points for the lower mounting slots, making sure the attachment points are located on the studs. (See Figure 2)
Installing to a Concrete Wall

**CAUTION:** MINIMUM HORIZONTAL DISTANCE BETWEEN WALL BRACKETS IS 24" (610mm). Do not place mounting brackets closer together than 24" (610mm).

1. Determine the center of the TV screen, and where it should be located on the wall.
2. Line up the notches on mount (Z) with center of screen marking to determine vertical center. (See Figure 1)
3. Measure up 8" (203.2mm) from the center point to mark location of the upper mounting slots. (See Figure 1)
4. Using a level, mark the wall through both upper mounting slots. (See Figure 3)

5. Drill one 3/8" x 3-1/2" (9.5mm x 88.9mm) pilot hole at each marking.
6. Install an anchor (K) into each pilot hole using a hammer, making sure that the anchor is flush with the wall.
7. Partially install two 5/16 x 2-1/2" flanged lag bolts (J) into pilot holes but do not tighten to wall.
8. Hang mount (Z), aligning upper mounting slots over lag bolts and adjust side-to-side for proper location.
9. Place one slotted washer (L) over each flanged lag bolt. (See Figure 3)
10. Tighten lag bolts to secure mount (Z) to wall at upper mounting slots.
11. Mark the attachment points for the lower mounting slots, making sure the attachment points are located on the studs. (See Figure 3)
12. Drill 3/8" x 3-1/2" (9.5mm x 88.9mm) pilot holes at markings for lower mounting holes. (See Figure 3)
13. Use two 5/16 x 2-1/2" flanged lag bolts (J) and two 5/16" slotted washers (L) to attach the mount to the wall through the lower mounting holes. (See Figure 3)
14. Slide rails to approximate center of screen location.

**Locking Rails (Optional)**

1. Lock rails into place using two 1/4-20 x 3/4" set screws (Q) on mount upright (Z) and the 1/8" hex key (M). (See Figure 4)
2. Repeat for remaining mount upright.

**NOTE:** To easily install upper set screw against upper rail, place set screw (Q) onto hex key (M), and feed up into hole while turning to tighten.
Attaching Interface Brackets to Screen

1. Align the center of the bracket (V and W or X and Y) with center of screen. (See Figure 5)

**NOTE:** The diamond-shape holes in the bracket correspond to the center of the mount.

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**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.

2. Select correct screws, nesting spacers (if necessary) and universal washers from the hardware bag (A-H) and attach brackets to back of screen. (See Figure 5)

**NOTE:** The nesting spacers (G) may be used separately, or put two together in different configurations to create different size spacers. (See Figure 6)

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Switching Interface Brackets (Optional)

If an installation situation makes adjusting the location of interface brackets necessary, there are several options.

1. The wall brackets may be adjusted side to side at the point of attachment. (See Figure 7)

2. The location of the left and right interface brackets (V and W or X and Y) may be switched, with the knobs on the XTM1U interface brackets (X and Y) facing the inside of the mount. (See Figure 7)
3. If necessary, the tilt interface bracket knobs may be switched to allow the interface brackets (X and Y) to be reversed. (See Figure 8)
   a. Remove display from mount.
   b. Remove interface brackets from display.
   c. Hold the right interface bracket horizontally, tightly gripping it so that spacers do not move.
   d. Remove the knob and screw.
   e. Replace the knob and screw in the opposite order, with the knob on the inside of the bracket.
   f. Switch the right interface bracket to the left side of the wall mount.
   g. Repeat Steps 3c through 3f with the left interface bracket.

NOTE: NEVER place both interface brackets (V and W or X and Y) to one side of the wall mount center line! (See Figure 10)

NOTE: Do NOT allow both interface brackets (V and W or X and Y) to be located on same side of wall bracket. (See Figure 10)

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Figure 8
Attaching Screen to Wall Mount

1. Attach wall covers (U) to top and bottom of both wall brackets. (See Figure 9)

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Figure 9

[Brackets X and Y shown]

Figure 10

[Brackets V and W shown]

[Brackets X and Y shown]
Installation Instructions

**IMPORTANT!:** (XSM1U Only) Completely extend bottom of interface brackets (by pulling downward) to set interface brackets in **SERVICE** position before hanging on top rail. (See Figure 11)

2. Hang screen onto the top rail of the mount (Z). (See Figure 12)
   - **XSM1U:** Hang top hook of interface brackets (V and W) onto the top rail of the mount (Z). (See Figure 12)
   - **XTM1U:** Move latch on top of interface bracket to **OPEN** position and hang top hook of interface brackets (X and Y) onto the top rail of the mount (Z). (See Figure 12)

**NOTE:** The screen initially installs into the "service mode" to allow easy cable access.

3. Adjust screen and rails to desired viewing position, and route cables between wall and rails.

   **CAUTION:** PINCH POINTS! Keep fingers, hands and cables out of pinch point areas.

4. Fasten bottom of screen to mount:
   - **XSM1U** - Open latch by pushing bottom of interface bracket up to **OPEN** position, latching interface brackets to lower rail, and then push up from bottom of interface bracket again until the interface bracket is in **CLOSED** position. (See Figure 11) and (See Figure 12)
   - **XTM1U** - Pull downward on the pull cords and swing inward toward mount, latching interface brackets to lower rail and fastening bottom of screen to the mount. (See Figure 12)

5. **XTM1U Only:** Attach end of pull cord (a magnet) to mount so it does not extend beyond bottom of screen. (See Figure 12)
OPTIONAL: Adding Pull Knob (XSM1U Only)
1. If necessary due to height of tall screen, add pull knob (R) to bottom of interface brackets (V and W) to allow easier accessibility for adjustment purposes. (See Figure 13)
2. Adjust length of pull knob so it is not visible below screen. (See Figure 13)

Roll/Height Adjustment of Wall Brackets
NOTE: The height adjust wall brackets allow adjustment of ± 1/2” (12.7mm).
1. Turn to right (tighten) to raise side of screen. (See Figure 15)
2. Turn to left (loosen) to lower side of the screen.

Adjustments
Horizontal Adjustment
1. The mount wall brackets may be adjusted side-to-side at the point of attachment. (See Figure 14)
2. The screen may be adjusted along rails side to side.

NOTE: NEVER place both interface brackets (V and W or X and Y) to one side of the wall mount center line! (See Figure 10)

NOTE: Do NOT allow both interface brackets (V and W or X and Y) to be located on same side of wall bracket. (See Figure 10)

3. (XTM1U only) Move latch on top of interface brackets to CLOSED position. (See Figure 16)
Tilt (XTM1U Only)
The interface brackets (X and Y) allow from -5° to 12° tilt, and can be locked at 0°, 6° and 12°.
1. Loosen the interface bracket knob.
2. Adjust tilt as required. (See Figure 16)
3. The tilt may be locked at 0°, 6° or 12° using one 1/4-20 x 1” round head carriage bolt (S) and one 1/4-20 hex nut (T) per interface bracket. (See Figure 16)
4. Tighten interface bracket knob as necessary.

Figure 16
Backwards Angle Compensation (XSM1U Only)

The XSM1U may be slightly adjusted to help compensate for the forward tilt of a heavy screen.

NOTE: The interface brackets (V and W) ship in the 0° tilt position. (See Figure 17)

1. With interface brackets in CLOSED position (See Figure 11), remove two fasteners holding tilt compensation in place on each interface bracket (V and W). (See Figure 17)
2. Adjust interface bracket for -1° or -2° back tilt, as required. (See Figure 17)
3. Tighten two fasteners (removed in Step 1). (See Figure 17)
Locking Screen Interface Brackets (Optional)
1. Lock screen interface brackets onto mount rails using one 3/8-16 x 3/4" set screw (P) on each interface bracket. (See Figure 18)

Locking Mount (Optional)
1. Add padlock (not included) to interface bracket to complete security. (See Figure 19)

NOTE: The padlock maximum shackle diameter is 5/16" (7.9 mm).