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# INSTALLATION INSTRUCTIONS

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## LCDA CEILING MOUNT

### MODEL LCDA-215C, LCDA-220C, LCDA-225C, LCDA-230C, & LCDA-240C

The LCDA ceiling mount offers a wide range of minimum and maximum height and width adjustments to provide a snug fit around most LCD projectors. The LCDA ceiling mount can be attached with standard NPT 1 ½” pipe column or with the CMA-100 or CMA-110.

Unpack carton and check contents:

- |                      |                    |
|----------------------|--------------------|
| (1) 1 ½” NPT Jam Nut | (4) ¼- 20 Nuts     |
| (1) LCDA Cradle      | (4) ¼” Flatwashers |
| (1) LCDA Frame       |                    |

**WARNING: IMPROPER INSTALLATION MAY RESULT IN SERIOUS PERSONAL INJURY!** All components must be securely fastened to each other and to the ceiling. **AND** the ceiling **MUST** be capable of supporting 4 times the suspended load of the unit you are using. If it cannot, the ceiling **MUST** be reinforced.

#### INSTALLATION INSTRUCTIONS

1. Using four ¼-20 nuts and washers, secure the LCDA cradle into LCDA frame on the four ¼-20 studs. Do not fully tighten the nuts.
2. Measure projector width and height and adjust LCDA frame to appropriate size. Hand tighten only to prevent members from moving freely (see Figure 1).
3. Thread the 1 ½” jam nut all the way onto the 1 ½” pipe
4. Thread the LCDA assembly onto the pipe (in a clockwise direction) until the top cross member is fully engaged.
5. Turn the jam nut down until it secures the top cross member.
6. Place the LCD/DLP projector into the LCDA frame and adjust width and height as required to create a snug fit around the projector.
7. With the projector set at the desired angle, tighten all fasteners.

#### TO ADJUST YAW:

Loosen the 1 ½” jam nut and back it off a couple of turns. Turn LCDA frame assembly clockwise to desired yaw and re-tighten jam nut. **CAUTION!** When turning LCDA assembly about the pipe in a counter clockwise direction, it may be completely unthreaded (see Figure 1).

#### TO ADJUST PITCH:

Slightly loosen four ¼-20 bolts at the upper outsides of the assembly and it may be tilted forward or backward to a desired angle. Re-tighten bolts (see Figure 1).

#### TO ADJUST ROLL:

Loosen either of the roll adjust bolts and tip assembly to desired angle. Re-tighten opposite bolt to lock position (see Figure 1).

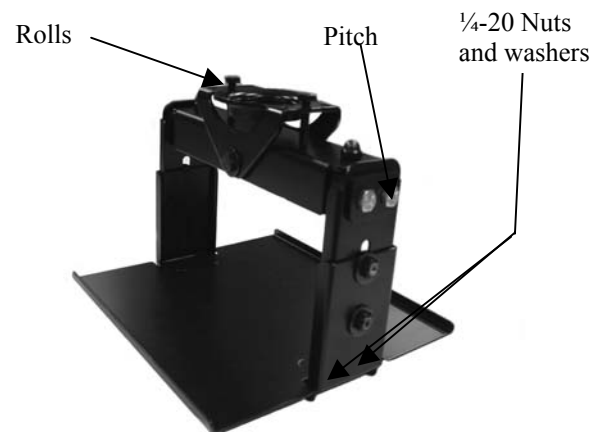


Figure 1

